

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 2023Obtained Date:30/01/2023Publication 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/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	11/01/2023	30/01/2023	NA	NA	NA	0.3			
44	Conductivity	μs/cm	In situ	Upon discharge										
11	тос	mg/L	Lab Analysis	(within 12 hours)		No discharge occurred during sampling period (SD4)								
42	Conductivity	μs/cm	In situ	Upon discharge		A/-	dia da susa a sa		lin d (C	.0.21				
13	тос	mg/L	Lab Analysis	(within 12 hours)	No discharge occurred during sampling period (SD2)									
	Conductivity	μs/cm	In situ	In the event										
	тос	mg/L	Lab Analysis	of flow during the quarter &										
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	N	o flow events a	nd/or mine disc	harge occurrea	during samplir	ng period (KC1L	JS)			
	рН	рН	In situ	discharge										
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27										
	Conductivity	μs/cm	In situ	In the event										
	тос	mg/L	Lab Analysis	of flow during the quarter &										
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	N	o flow events a	nd/or mine disc	harge occurrea	during samplir	ng period (KC1E	os)			
	рН	рН	In situ	discharge										
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27										

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

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27							
	Conductivity	μs/cm	In situ	In the event							
	тос	mg/L	Lab Analysis	of flow during the quarter &							
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	^	No flow events and/or mine discharge occurred during sampling period (PCa)					
	рН	рН	In situ	discharge							
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27							
	Conductivity	μs/cm	In situ	In the event							
	тос	mg/L	Lab Analysis	of flow during the quarter &							
22	Oil & Grease	mg/L	Lab Analysis	after each wet weather	^	No flow events and/or mine discharge occurred during sampling period (PC1)					
	рН	рН	In situ	discharge							
	TSS mg/l	Lab Analysis	from points 11, 13, 18,27								
24	рН	рН	In situ	Upon							
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	Namoi discharge point – Not constructed or currently utilised (NR1).						
25	рН	рН	In situ	Upon		Managine in the Alabama and th					
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRUS).					
26	рН	рН	In situ	Upon							
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRDS).					
	Conductivity	μs/cm		0							
	рН	рН	In situ		0						
28	SWL	mbtoc	In situ	Quarterly	0	Not scheduled for sampling during sampling period					
	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		0	
	рН	рН	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	
29	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period
	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		0				
	рН	рН	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				
30	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period			
	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			0			
	рН	рН	In situ		0				
	SWL	mbtoc	In situ		0				
	Bicarbonate	mg/L	Lab Analysis	Quarterly -	Quarterly	Quarterly	0		
31	Calcium	mg/L	Lab Analysis				Overstante	0	Not scheduled for sampling during sampling period
31	Carbonate	mg/L	Lab Analysis				0	Not scrieduled for sampling during sampling period	
	Chloride	mg/L	Lab Analysis		0				
	Magnesium	mg/L	Lab Analysis		0				
	Potassium	mg/L	Lab Analysis		0				

			11			T	
	Sodium	mg/L	Lab Analysis		0		
	Sulfate	mg/L	Lab Analysis		0		
	Conductivity	μs/cm	In situ		0		
	рН	pН	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	Quarterly	0		
32	Chloride	mg/L	Lab Analysis		0	Not scheduled for sampling during sampling period	
	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		0		
	рН	рН	In situ		0		
	SWL	mbtoc	In situ		0		
	Bicarbonate	mg/L	Lab Analysis		0		
	Calcium	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period	
33	Carbonate	mg/L	Lab Analysis				0
	Chloride	mg/L	Lab Analysis		0		

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

Carbonate	mg/L	Lab		0
		Analysis	1	
Chloride	mg/L	Lab		0
Cilionae	IIIg/L	Analysis		
Magnesium	ma/I	Lab		0
Magnesium	mg/L	Analysis		
Potassium	ma/l	Lab		0
Potassium	mg/L	Analysis		
Sodium	ma/l	Lab		0
30010111	mg/L	Analysis		
Sulfate	m a /I	Lab		0
Sunate	mg/L	Analysis		

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)
	TSS	mg/L	Lab Analysis		0						50	No	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	arge occurred during sa	mpling pe	riod		10	No	SD4
	рН	рН	In situ		0						6.5- 8.5	No	
	TSS	mg/L	Lab Analysis		0						50	No	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	arge occurred during sa	mpling pe	riod		10	No	SD2
	рН	рН	In situ		0							No	
	TSS	mg/L	Lab Analysis		0	0						No	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during sampling period					10	No	SD7
	рН	рН	In situ		0						6.5- 8.5	No	
24	TDS	mg/L	Lab Analysis	Upon	0	Alexandria di sale successi				1	350	N/A	ND4
24	рН	рН	In situ	discharge	0	Namoi discharge	point – Not constructe	a or currer	itiy utilise	ra.	6.5- 8.5	N/A	NR1
	TSS	mg/L	Lab Analysis		0							N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	rge occurred during re	porting pe	riod		10	N/A	SD8
	рН	рН	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	Measured	Measured	Measured	Limit(s)	Measurement		eather	Compliant	Date
		Levels –	Levels –	Levels –	Levels –		Periods		mpliant	(Yes/No)	Obtained
		dB(A)	dB(A)	dB(A)	dB(A)				ditions ²		
		Leq 15min Day	Leq 15min	Leq 15min Night	LA1 (1 min) Night			(L)/E/N)		
			Evening					1			
						Day, Evening &	Day – 1.5 hrs				
						<u>Night:</u> 35	Evening – 0.5				
N5 ¹						<u>Night</u>	hrs				
						LA1 (1 min):	1113	-			
						45	Night – 1 hr				
								+			
						Day, Evening &	Day – 1.5 hrs				
						Night:	Francisco O.F.	\vdash			
N6						35	Evening – 0.5				
						<u>Night</u>	hrs				
						LA1 (1 min):	Nimba 1 bu				
						45	Night – 1 hr	+			
						Day, Evening &	Day – 1.5 hrs				
						Night:		\vdash			
N8 ¹						35	Evening – 0.5				
						<u>Night</u>	hrs				
						<u>L_{A1 (1 min)}:</u>					
						45	Night – 1 hr	1			
						Day, Evening &	Day – 1.5 hrs				
						<u>Night:</u>					
N9 ¹						35	Evening – 0.5				
						<u>Night</u>	hrs				
						LA1 (1 min):					
						45	Night – 1 hr				





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EPL No: 12789

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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/m²/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	No disabours a suggest during a suggestion assist (CDA)									
11	тос	mg/L	Lab Analysis	(within 12 hours)		No discharge occurred during sampling period (SD4)								
12	Conductivity	μs/cm	In situ	Upon discharge		Ma	discharge con	rrad durina can	anling nariad (C	D21				
13	тос	mg/L	Lab Analysis	(within 12 hours)		No discharge occurred during sampling period (SD2)								
			In the event											
	тос	mg/L	Lab Analysis	of flow during the quarter &	No flow events and/or mine discharge occurred during sampling period (KC1US)									
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather										
	рН	рН	In situ	discharge										
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27										
	Conductivity	μs/cm	In situ	In the event										
	тос	mg/L	Lab Analysis	of flow during the quarter &										
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	N	o flow events a	nd/or mine disc	harge occurred	l during samplir	ng period (KC1D)S)			
	рН	рН	In situ	discharge										
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27										

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

	I					1						
	TSS	mg/L	Lab	from points								
			Analysis	11, 13, 18,27								
	Conductivity	μs/cm	In situ	In the event								
	TOC	mg/L	Lab	of flow during								
	100	IIIg/ L	Analysis	the quarter &								
21	Oil & Grease	mg/L	Lab	after each	,	No flow events and/or mine discharge occurred during sampling period (PCa)						
	On & Grease	III8/ L	Analysis	wet weather	'	to flow events and/or milite discharge occurred during sampling period (FCd)						
	рН	рН	In situ	discharge								
	TSS	mg/L	Lab	from points								
	133	IIIg/L	Analysis	11, 13, 18,27								
	Conductivity	μs/cm	In situ	In the event								
	TOC	m = /1	Lab	of flow during								
	TOC	mg/L	Analysis	the quarter &								
22	Oil & Grease	mg/L	Lab	after each		le flow events and/or mine discharge accurred during sampling period (DC1)						
22	Oii & Grease	IIIK/ L	Analysis	wet weather	No flow events and/or mine discharge occurred during sampling period (PC1)							
	рН	рН	In situ	discharge								
	TSS	mg/I	Lab	from points								
	133	mg/L	Analysis	11, 13, 18,27								
	рН	рН	In situ	Upon								
24	P	k.,		Discharge		Namoi discharge point – Not constructed or currently utilised (NR1).						
2-7	TDS	mg/L	Lab	(within 4 hrs)		realition distincting point in the constituence of currently defised (14112).						
		<u></u>	Analysis	(33.6)								
	рН	рН	In situ	Upon								
25			Lab	Discharge		Namoi discharge point – Not constructed or currently utilised (NRUS).						
	TDS	mg/L	Analysis	(within 4 hrs)								
	рН	рН	In situ	Upon								
26			Lab	Discharge		Namoi discharge point – Not constructed or currently utilised (NRDS).						
	TDS	mg/L	Analysis	(within 4 hrs)		, , , , , , , , , , , , , , , , , , , ,						
	Conductivity	μs/cm	In situ		0							
	рН	рН	In situ		0							
28	SWL	mbtoc	In situ	Quarterly	0	Not scheduled for sampling during sampling period						
	5		Lab	Quarterly								
	Bicarbonate	bonate mg/L	mg/l	Analysis		0	0					
			Analysis	1								

	Calcium	mg/L	Lab		0													
			Analysis															
	Carbonate	mg/L	Lab Analysis		0													
			Lab															
	Chloride	mg/L	Analysis		0													
	Magnesium	mg/L	Lab		0													
	iviagnesium	IIIg/L	Analysis		0													
	Potassium	mg/L	Lab		0													
			Analysis															
	Sodium	mg/L	Lab Analysis		0													
			Lab															
	Sulfate	mg/L	Analysis		0													
	Conductivity	μs/cm	In situ		0													
	рН	рН	In situ		0													
	SWL	mbtoc	In situ	-	0													
			Lab		0													
	Bicarbonate	mg/L	Analysis															
	Calcium	mg/L	Lab		0													
	Calcium	IIIg/L	Analysis															
	Carbonate	mg/L	Lab											0				
		8/ =	Analysis															
29	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period												
			Lab		0													
	Magnesium	mg/L	Analysis															
	Deteccions	/1	Lab		0													
	Potassium	mg/L	Analysis															
	Sodium	mg/L	Lab		0													
	33414111	6/ -	Analysis															
	Sulfate		Lab		0													
		mg/L	Analysis															

	Conductivity	μs/cm	In situ		0														
	рН	рН	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														
30	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period													
	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		0														
	рН	рН	In situ			0													
	SWL	mbtoc	In situ		0														
	Bicarbonate	mg/L	Lab Analysis	Quarterly	Quarterly	Quarterly	Quartarly	Quartarly	Oversteed	Oversteel	Overteelv	Quartarly	Quartarily	0					
31	Calcium	mg/L	Lab Analysis											Overstant	Overstant	Out out only	Quartorly	Quartorly	Quarterly
21	Carbonate	mg/L	Lab Analysis				0	Not scheduled for sampling during sampling period											
	Chloride	mg/L	Lab Analysis		0														
	Magnesium	mg/L	Lab Analysis		0														
	Potassium	mg/L	Lab Analysis		0														

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

	Magnesium	mg/L	Lab		0					
	iviagnesium	IIIg/L	Analysis							
	Potassium	mg/L	Lab		0					
		8/ =	Analysis							
	Sodium	mg/L	Lab		0					
			Analysis							
	Sulfate	mg/L	Lab Analysis		0					
	Conductivity	us lam			0					
	Conductivity	μs/cm	In situ		0					
	рН	pH	In situ							
	SWL	mbtoc	In situ		0					
	Bicarbonate	mg/L	Lab		0					
			Analysis							
	Calcium	mg/L	Lab		0					
			Analysis	Quarterly						
	Carbonate	mg/L	Lab		Quartorly	0				
34			Analysis			0	Not scheduled for sampling during sampling period			
34	Chloride	mg/L	Lab Analysis		U	Not scheduled for sumpling during sampling period				
			Lab		0					
	Magnesium	mg/L	Analysis		o o					
			Lab		0					
	Potassium	mg/L	Analysis		Ŭ					
			Lab		0					
	Sodium	mg/L	Analysis		-	-				
	0.16.	/-	Lab				0			
	Sulfate	mg/L	Analysis							
	Conductivity	μs/cm	In situ		0					
	рН	рН	In situ		0					
	SWL	mbtoc	In situ		0					
35	Disarbanata	ma/I	Lab	Quarterly	0	Not scheduled for sampling during sampling period				
	Bicarbonate	mg/L	Analysis		,					
	Calcium	mg/I	Lab		0					
	Calcium	mg/L	Analysis							

Caulaanata	· · · · · / ·	Lab	0
Carbonate	mg/L	Analysis	
CI I I I	/1	Lab	0
Chloride	mg/L	Analysis	
N.4	/1	Lab	0
Magnesium	mg/L	Analysis	
Deteccione	/I	Lab	0
Potassium	mg/L	Analysis	
Codium	m a /1	Lab	0
Sodium	mg/L	Analysis	
Sulfate	ma/l	Lab	0
Suilate	mg/L	Analysis	



Table 2 - Pollutant Limits Apply (Water)

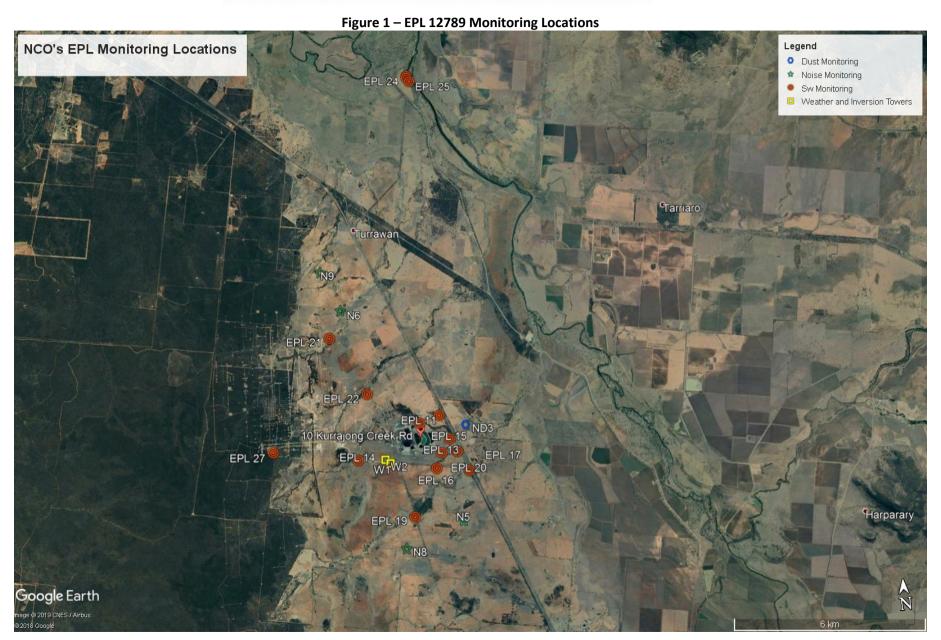
EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
	TSS	mg/L	Lab Analysis		0						50	No	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	arge occurred during sa	mpling pe	riod		10	No	SD4
	рН	рН	In situ		0	0							
	TSS	mg/L	Lab Analysis		0				50	No	SD2		
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	arge occurred during sa		10	No			
	рН	рН	In situ		0				6.5- 8.5	No			
	TSS	mg/L	Lab Analysis		0						50	No	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	No discharge occurred during sampling period						SD7
	рН	рН	In situ		0						6.5- 8.5	No	
24	TDS	mg/L	Lab Analysis	Upon	0			,		,	350	N/A	ND4
24	рН	рН	In situ	discharge	0	Namoi discharge	point – Not constructe	ea.	6.5- 8.5	N/A	NR1		
	TSS	mg/L	Lab Analysis		0				50	N/A			
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	0 No discharge occurred during reporting period						N/A	SD8
	рН	рН	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 –	Measured Levels –	Measured Levels –	Measured Levels –	Limit(s)	Measurement Periods	Weather Compliant	Compliant (Yes/No)	Date Obtained
		dB(A)	dB(A)	dB(A)	dB(A)			Conditions ²		
		Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA1 (1 min) Night			(D/E/N)		
			Evening			Day, Evening &	Day – 1.5 hrs			
						<u>Night:</u>	Day - 1.3 1113			
$N5^1$						35	Evening – 0.5			
113						<u>Night</u>	hrs			
						<u>L_{A1 (1 min)}:</u>				
						45	Night – 1 hr			
						Day, Evening & Night:	Day – 1.5 hrs			
						35	Evening – 0.5			-
N6						<u>Night</u>	hrs			
						L _{A1 (1 min)} :				
						45	Night – 1 hr			
						Day, Evening &	Day – 1.5 hrs			
						<u>Night:</u>				
N8 ¹						35	Evening – 0.5			
						<u>Night</u>	hrs			
						LA1 (1 min):	Nialat 1 lau			
						45	Night – 1 hr			-
						Day, Evening & Night:	Day – 1.5 hrs			
						35	Evening – 0.5			-
N9 ¹						<u>Night</u>	hrs			
						<u>L_{A1} (1 min):</u>				1
						45	Night – 1 hr			





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: 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/m²/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		No discharge occurred during sampling period (SD4)							
11	тос	mg/L	Lab Analysis	(within 12 hours)		NO	alscharge occu	rrea auring san	ipiing perioa (S	D4)			
12	Conductivity	μs/cm	In situ	Upon discharge		0/0	diash suns a sau	and division of a	during sampling period (SD2)				
13	тос	mg/L	Lab Analysis	(within 12 hours)		NO	aiscnarge occu	rrea auring san	ipiing perioa (S	D2)			
	Conductivity	μs/cm	In situ	In the event	0			NA	NA	NA	NA		
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	Ambient Flow 14/3/23 (check completed, no flow) Controlled discharge:	NA	NA	NA	NA			
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0		NA	NA	NA	NA			
	рН	рН	In situ	discharge	0		23 (check	NA	NA	NA	NA		
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0	completed, no flow)		NA	NA	NA	NA		
	Conductivity	μs/cm	In situ	In the event	0			NA	NA	NA	NA		
	тос	mg/L	Lab Analysis	of flow during the quarter &	0		14/3/23 (check d, no flow)	NA	NA	NA	NA		
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather discharge from points 11, 13, 18,27	0		discharge:	NA	NA	NA	NA		
	рН	рН	In situ		0		23 (check	NA	NA	NA	NA		
	TSS	mg/L	Lab Analysis		0	completed, no flow)		NA	NA	NA	NA		



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

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA		
	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA		
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	Ambient Flow 14/3/23 (check completed, no flow)	NA	NA	NA	NA		
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	Controlled discharge:	NA	NA	NA	NA		
	рН	рН	In situ	discharge	0	30/3/2023 (check	NA	NA	NA	NA		
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0	completed, no flow)	NA	NA	NA	NA		
	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA		
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	Ambient Flow 14/3/23 (check completed, no flow)	NA	NA	NA	NA		
22	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	Controlled discharge:	NA	NA	NA	NA		
	рН	рН	In situ	discharge	0	30/3/2023 (check	NA	NA	NA	NA		
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0	completed, no flow)	NA	NA	NA	NA		
24	рН	рН	In situ	Upon		News i disabayas a sint. A	lat as a stance of		liand (ND1)			
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – N	iot constructed	or currently util	iisea (NK1).			
25	рН	рН	In situ	Upon				d et	/ / / / / / / / / /			
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – No	ot constructed (or currently utili	sea (NRUS).			
26	рН	рН	In situ	Upon								
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		sed (NRDS).						
	Conductivity	μs/cm	In situ		0							
	рН	рН	In situ		0	Bore was dry during sampling period						
28	SWL	mbtoc	In situ	Quarterly	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		1	15/03/2023	27/03/2023	NA	NA	NA	15640
	рН	рН	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
29	Chloride	mg/L	Lab Analysis	Quarterly	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

	Conductivity	μs/cm	In situ		1	15/03/2023	27/03/2023	NA	NA	NA	17350
	рН	рН	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
30	Chloride	mg/L	Lab Analysis	Quarterly	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
	Conductivity	μs/cm	In situ		1	15/03/2023	27/03/2023	NA	NA	NA	7120
	рН	рН	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
21	Calcium	mg/L	Lab Analysis	Quartarly	1	15/03/2023	27/03/2023	NA	NA	NA	89
31	Carbonate	mg/L	Lab Analysis	Quarterly	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			
	Conductivity	μs/cm	In situ		1	15/03/2023	27/03/2023	NA	NA	NA	1902			
	рН	рН	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			
32	Chloride	mg/L	Lab Analysis	Quarterly	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			
	Conductivity	μs/cm	In situ		0									
	рН	рН	In situ		0									
	SWL	mbtoc	In situ		0									
	Bicarbonate	mg/L	Lab Analysis		0									
	Calcium	mg/L	Lab Analysis	Quarterly	0		Bore was dry during sampling period							
33	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		0									
	рН	рН	In situ		0									
	SWL	mbtoc	In situ		0									
	Bicarbonate	mg/L	Lab Analysis		0									
	Calcium	mg/L	Lab Analysis	Quarterly	0									
	Carbonate	mg/L	Lab Analysis		0									
34	Chloride	mg/L	Lab Analysis		0	Bore was dry during sampling period								
	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		1	14/03/2023	27/03/2023	NA	NA	NA	11360			
	рН	рН	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			
35	Bicarbonate	mg/L	Lab Analysis	Quarterly	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)
	TSS	mg/L	Lab Analysis		0						50	No	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	10	No	SD4			
	рН	рН	In situ		0						6.5- 8.5	No	
	TSS	mg/L	Lab Analysis		0						50	No	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	10	No	SD2			
	рН	рН	In situ		0								
	TSS	mg/L	Lab Analysis		1		4/04/2023	NA	NA	3350	50	No ¹	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	1	30/03/2023		4/04/2023	NA	NA	<5	10	No
	рН	рН	In situ		1			NA	NA	8.25	6.5- 8.5	No	
24	TDS	mg/L	Lab Analysis	Upon	0	Name of	dia da susa a sa isat	. Alat as astron	t a d a v a v v v a a bl v	ام مانش	350	N/A	NR1
24	рН	рН	In situ	discharge	Namoi discharge point – Not constructed or currently utilised.						6.5- 8.5	N/A	INKI
	TSS	mg/L	Lab Analysis		0			50	N/A				
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during reporting period					10	N/A	SD8
	рН	рН	In situ 0						6.5- 8.5	N/A			

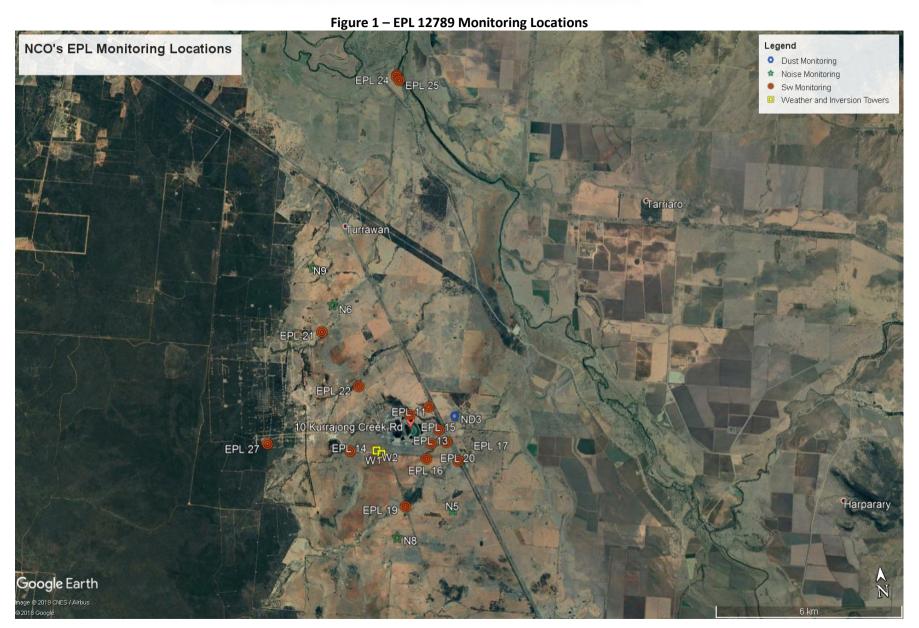
Note 1: Total Suspended Solids (TSS) concentration limit did not apply as per EPL12789 Condition L2.5(a) as the controlled discharge occurred solely as a result of rainfall exceeding 38.4mm over a consecutive 5-day period (triggered 29/03/2023)



Table 3 – Quarterly Attended Noise Monitoring results summary table

EPL ID	Date	Measured	Measured	Measured	Measured	Limit(s)	Measurement		eather	Compliant	Date
		Levels –	Levels –	Levels –	Levels –		Periods	Compliant Conditions ²		(Yes/No)	Obtained
		dB(A)	dB(A)	dB(A)	dB(A)						
		Leq 15min Day	Leq 15min	Leq 15min Night	LA1 (1 min) Night			(D)/E/N)		
			Evening			5 5 . 0	D 451				
						Day, Evening &	Day – 1.5 hrs				
						<u>Night:</u> 35	Evoning O.E.				
N5 ¹							Evening – 0.5 hrs				
						<u>Night</u>	1115				
						<u>L_{A1 (1 min)}:</u> 45	Night – 1 hr				
						Day, Evening &	Day – 1.5 hrs				
						<u>Night:</u> 35	Evening – 0.5				
N6						Night	hrs				
						L _{A1 (1 min)} :	1113				
						45	Night – 1 hr				
						Day, Evening &	Day – 1.5 hrs				
						Night:	,				
NO1						35	Evening – 0.5				
N8 ¹						<u>Night</u>	hrs				
						LA1 (1 min):					
						45	Night – 1 hr				
						Day, Evening &	Day – 1.5 hrs				
						Night:					
N9 ¹						35	Evening – 0.5				
145						<u>Night</u>	hrs				
						LA1 (1 min):					
						45	Night – 1 hr				

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





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/m²/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		No discharge occurred during sampling period (SD4)								
11	тос	mg/L	Lab Analysis	(within 12 hours)										
12	Conductivity	μs/cm	In situ	Upon discharge	·									
13	тос	mg/L	Lab Analysis	(within 12 hours)	No discharge occurred during sampling period (אסב)									
	Conductivity	μs/cm	In situ	In the event										
	тос	mg/L	Lab Analysis	of flow during the quarter &										
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	No flow events and/or mine discharge occurred during sampling period (KC1US)									
	рН	рН	In situ	discharge										
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27										
	Conductivity	μs/cm	In situ	In the event										
	тос	mg/L	Lab Analysis	of flow during the quarter &										
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	No flow events and/or mine discharge occurred during sampling period (KC1DS)						S)			
	рН	рН	In situ	discharge	ge									
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27										

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

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27						
	Conductivity	μs/cm	In situ	In the event						
	тос	mg/L	Lab Analysis	of flow during the quarter &						
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	No flow events and/or mine discharge occurred during sampling period (PCa)					
	рН	рН	In situ	discharge						
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27						
	Conductivity	μs/cm	In situ	In the event						
	тос	mg/L	Lab Analysis	of flow during the quarter &						
22	Oil & Grease	mg/L	Lab Analysis	after each wet weather	٨	No flow events and/or mine discharge occurred during sampling period (PC1)				
	·	In situ	discharge							
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27						
24	рН	рН	In situ	Upon	Namoi discharge point – Not constructed or currently utilised (NR1).					
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)						
25	рН	рН	In situ	Upon		Managidisahanna maiat. Mahasusahandan sumusahka shilisad (MRUC)				
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRUS).				
26	рН	рН	In situ	Upon						
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRDS).				
	Conductivity	μs/cm	In situ		0					
	рН	рН	In situ		0					
28	SWL	mbtoc	In situ	Quarterly	0	Not scheduled for sampling during sampling period				
	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		0	
	рН	рН	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	
29	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period
	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		0																									
	рН	рН	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																									
30	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period																								
	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		0																									
	рН	рН	In situ						0																					
	SWL	mbtoc	In situ		0																									
	Bicarbonate	mg/L	Lab Analysis	Quarterly	Oversteed	Oversteady	0																							
31	Calcium	mg/L	Lab Analysis				Overstank				Overstant	Overstant	Ouartarly	Quartarly	Quartorly	Quarterly	Quartorly	Overstant			Overstant	Quartorly	Quartarly	Quartorly	Quartorly	Quartorly	Quarterly	Ouarterly	Quarterly	Quarterly
21	Carbonate	mg/L	Lab Analysis		0	Not scheduled for sampling during sampling period																								
	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		0	
	рН	рН	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	
32	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period
	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		0	
	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L		Quarterly	0	Not scheduled for sampling during sampling period
33	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	

	Magnesium	mg/L	Lab		0									
	iviagnesium	IIIg/L	Analysis											
	Potassium	mg/L	Lab		0									
		8/ =	Analysis											
	Sodium	mg/L	Lab		0									
			Analysis											
	Sulfate	mg/L	Lab Analysis		0									
	Conductivity	us lam			0									
	Conductivity	μs/cm	In situ		0									
	рН	pH	In situ											
	SWL	mbtoc	In situ		0									
	Bicarbonate	mg/L	Lab		0									
			Analysis											
	Calcium	mg/L	Lab		0									
			Analysis											
	Carbonate	mg/L	Lab		0									
34			Analysis	Quarterly	0	Not scheduled for sampling during sampling period								
34	Chloride	mg/L	Lab Analysis	Quarterly	U	Not scheduled for sumpling during sampling period								
			Lab						0					
	Magnesium	mg/L	Analysis							o o				
			Lab			0								
	Potassium	mg/L	Analysis		Ŭ									
			Lab		0									
	Sodium	mg/L	Analysis						_					
	0.16.	/-	Lab							0				
	Sulfate	mg/L	Analysis											
	Conductivity	μs/cm	In situ		0									
	рН	рН	In situ		0									
	SWL	mbtoc	In situ		0									
35	Disarbanata	Lah	Lab	Quarterly	0	Not scheduled for sampling during sampling period								
	Bicarbonate mg/L	Analysis												
	Calcium	mg/L	Lab		1	0								
	Calcium	ilig/ L	Analysis											

	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)
	TSS	mg/L	Lab Analysis		0				50	No			
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during sampling period						No	SD4
	рН	рН	In situ								6.5- 8.5	No	
	TSS	mg/L	Lab Analysis		0						50	No	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	arge occurred during sa	mpling pe	riod		10	No	SD2
	рН	рН	In situ		0	0						No	
	TSS	mg/L	Lab Analysis		0				50	No			
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during sampling period					10	No	SD7
	рН	рН	In situ		0						6.5- 8.5	No	
24	TDS	mg/L	Lab Analysis	Upon	0			,		,	350	N/A	ND4
24	рН	рН	In situ	discharge	0	Namoi discharge point – Not constructed or currently utilised.						N/A	NR1
	TSS	mg/L	Lab Analysis		0						50	N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	No discharge occurred during reporting period					N/A	SD8
	рН	рН	In situ		0							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)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Co Co	Veath omplia onditio	ant ons	Compliant (Yes/No)	Date Obtained
		Leq 15min Day	L _{eq 15min} Evening	L _{eq} 15min Night	LA1 (1 min) Night			(D/E/N	1)		
	27/3/20232	323	26	28	34	Day, Evening & Night:	Day – 1.5 hrs	Υ	Υ	Υ	Yes	
N5 ¹	28/3/2023 ²	N/M	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Υ	Υ	Υ	Yes	
	29/3/20232	I/A	35	33	39	<u>L_{A1 (1 min)}:</u> 45	Night – 1 hr	Υ	Υ	Υ	Yes	
	27/3/2023	I/A	I/A	27	30	Day, Evening & Night:	Day – 1.5 hrs	Υ	Υ	Υ	Yes	
N6	28/3/2023	I/A	25	N/M	N/M	35 <u>Night</u>	Evening – 0.5 hrs	Υ	Υ	Υ	Yes	
	29/3/2023	N/M	30	33	40	L _{A1 (1 min)} : 45	Night – 1 hr	Υ	Υ	Υ	Yes	26/04/2023
	28/3/2023	39 ³	32	27	30	Day, Evening & Night:	Day – 1.5 hrs	Υ	N	Υ	Yes	20/04/2023
N8 ¹	29/3/2023	33	32	33	38	35 <u>Night</u>	Evening – 0.5 hrs	N	Υ	Υ	Yes	
	30/3/2023	I/A	I/A	I/A	I/A	<u>L_{A1 (1 min)}:</u> 45	Night – 1 hr	N	N	N	Yes	
	28/3/2023	I/A	32	I/A	I/A	Day, Evening & Night:	Day – 1.5 hrs	Υ	Υ	Υ	Yes	
N9 ¹	29/3/2023	I/A	34	29	34	35 <u>Night</u>	Evening – 0.5 hrs	Υ	Υ	Υ	Yes	
	30/3/2023	26	25	I/A	I/A	<u>L_{A1 (1 min):}</u> 45	Night – 1 hr	Υ	N	Υ	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.





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/m²/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		No	discharge occu	rrad during can	anling pariod (S	·D4)		
11	тос	mg/L	Lab Analysis	(within 12 hours)		NO	discriurge occu	rrea auring san	npling period (3	<i>D4)</i>		
13	Conductivity	μs/cm	In situ	Upon discharge	·							
15	тос	mg/L	Lab Analysis	(within 12 hours)						D2)		
	Conductivity	μs/cm	In situ	In the event								
	тос	mg/L	Lab Analysis	of flow during the quarter &	No flow events and/or mine discharge occurred during sampling period (KC1US)							
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather								
	рН	рН	In situ	discharge								
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27								
	Conductivity	μs/cm	In situ	In the event								
	тос	mg/L	Lab Analysis	of flow during the quarter &								
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	N	o flow events a	nd/or mine disc	harge occurred	l during samplir	ng period (KC1E	os)	
	рН	рН	In situ	discharge	ts							
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27								

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



	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27								
	Conductivity	μs/cm	In situ	In the event								
	TOC	mg/L	Lab Analysis	of flow during the quarter &								
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	No flow events and/or mine discharge occurred during sampling period (PCa)							
	рН	рН	In situ	discharge								
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27								
	Conductivity	μs/cm	In situ	In the event								
	тос	mg/L	Lab Analysis	of flow during the quarter &	No flow events and/or mine discharge occurred during sampling period (PC1)							
22	Oil & Grease	mg/L	Lab Analysis	after each wet weather								
	рН	рН	In situ	discharge								
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27								
24	рН	рН	In situ	Upon								
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NR1).						
25	рН	рН	In situ	Upon		Name i disabassa a sist. Nat assatusated as assatusatilized (NOUS)						
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRUS).						
26	рН	рН	In situ	Upon								
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRDS).						
	Conductivity	μs/cm	In situ		0							
	рН	рН	In situ		0							
28	SWL	mbtoc	In situ	Quarterly	0	Not scheduled for sampling during sampling period						
	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		0	
	pН	рН	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	
29	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period
	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		0																	
	рН	рН	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																	
30	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period																
	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		0																	
	рН	рН	In situ					0														
	SWL	mbtoc	In situ		0																	
	Bicarbonate	mg/L	Lab Analysis	- Quarterly -	Quarterly -	Quartarly	Quartarly	Quartorly	Quartorly	Quartorly	0											
31	Calcium	mg/L	Lab Analysis								Quartorly	Quartorly	Quartorly	Quartorly	Quartorly	Quartorly	Quarterly	Quarterly	Quarterly	Quarterly	Quartorly	Quartorly
31	Carbonate	mg/L	Lab Analysis			0	Not scrieduled for sumpling during sumpling period															
	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		0		
·	pН	pН	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	Quarterly	0		
32	Chloride	mg/L	Lab Analysis		0	Not scheduled for sampling during sampling period	
	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		0		
	рН	рН	In situ		0		
	SWL	mbtoc	In situ		0		
	Bicarbonate	mg/L	Lab Analysis		0		
	Calcium	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period	
33	Carbonate	mg/L	Lab Analysis		0		
	Chloride	mg/L	Lab Analysis		0		

	Magnesium	mg/L	Lab Analysis		0																			
			Lab		0																			
	Potassium	mg/L	Analysis																					
			Lab		0																			
	Sodium	mg/L	Analysis																					
	Sulfate	mg/L	Lab		0																			
	Sullate	IIIg/L	Analysis																					
	Conductivity	μs/cm	In situ		0																			
	рН	рН	In situ		0																			
	SWL	mbtoc	In situ		0																			
	D'	/1	Lab		0																			
	Bicarbonate	mg/L	Analysis																					
	Calairma	/I	Lab		0																			
	Calcium	mg/L	Analysis																					
	Carbonate	ma/l	Lab		0																			
	Carbonate	mg/L	Analysis	Quarterly																				
34	Chloride	mg/L	Lab		0	Not scheduled for sampling during sampling period																		
	Cilionae	IIIg/ L	Analysis																					
	Magnesium	mg/L	Lab		0																			
	Magnesium	IIIg/ L	Analysis																					
	Potassium	mg/L	Lab		0																			
	1 Otassiaiii	1116/ L	Analysis																					
	Sodium	mg/L	Lab								ļ	İ	İ	İ				İ					0	
	Sourann	6/ -	Analysis																					
	Sulfate	mg/L	Lab		0																			
			Analysis																					
	Conductivity	μs/cm	In situ		0																			
	рН	рН	In situ		0																			
	SWL	mbtoc	In situ		0																			
35	Bicarbonate	ma/I	Lab	Quarterly	0	Not scheduled for sampling during sampling period																		
	Bicarbonate	mg/L	Analysis																					
	Calcium	mg/I	Lab		0																			
	Calciani	mg/L	Analysis																					

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)
	TSS	mg/L	Lab Analysis		0	No discharge occurred during sampling period						No	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0							No	SD4
	рН	рН	In situ		0				6.5- 8.5	No			
	TSS	mg/L	Lab Analysis		0				50	No			
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during sampling period						No	SD2
	рН	рН	In situ		0							No	
	TSS	mg/L	Lab Analysis		0						50	No	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discho	arge occurred during sa	mpling pe	riod		10	No	SD7
	рН	рН	In situ		0						6.5- 8.5	No	
	TDS	mg/L	Lab Analysis	Upon	0			,		,	350	N/A	ND4
24	рН	рН	In situ	discharge	0	Namoi discharge point – Not constructed or currently utilised.						N/A	NR1
	TSS	mg/L	Lab Analysis		0	No discharge occurred during reporting period						N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0							N/A	SD8
	рН	рН	In situ	_	0							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	Measured	Measured	Measured	Limit(s)	Measurement	Weather	Compliant	Date
		Levels –	Levels –	Levels –	Levels –		Periods	Compliant	(Yes/No)	Obtained
		dB(A)	dB(A)	dB(A)	dB(A)			Conditions		
		Leq 15min Day	Leq 15min	Leq 15min Night	LA1 (1 min) Night			(D/E/N)		
			Evening							
						Day, Evening &	Day – 1.5 hrs			
-						Night:	5			
N5 ¹						35	Evening – 0.5			
						<u>Night</u>	hrs			
						<u>La1 (1 min):</u>				
						45	Night – 1 hr			
						Day, Evening &	Day – 1.5 hrs			
						<u>Night:</u>				
N6						35	Evening – 0.5			
INO						<u>Night</u>	hrs			
						<u>La1 (1 min):</u>				
						45	Night – 1 hr			
						Day, Evening &	Day – 1.5 hrs			
						Night:				
N8 ¹						35	Evening – 0.5			
INO						<u>Night</u>	hrs			
						<u>LA1 (1 min):</u>				
						45	Night – 1 hr			
						Day, Evening &	Day – 1.5 hrs			
						Night:				
N9¹						35	Evening – 0.5			
119-						<u>Night</u>	hrs			
						LA1 (1 min):				
						45	Night – 1 hr			







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/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	13/06/2023	27/06/2023	NA	NA	NA	0.4			
44	Conductivity	μs/cm	In situ	Upon discharge		No discharge occurred during sampling period (SD4)								
11	тос	mg/L	Lab Analysis	(within 12 hours)		NO	alscharge occu	rrea auring san	npiing perioa (S	eriod (SD4)				
42	Conductivity	μs/cm	In situ	Upon discharge	No discharge occurred during sampling period (SD2)									
13	тос	mg/L	Lab Analysis	(within 12 hours)										
	Conductivity	μs/cm	In situ	In the event	0			NA	NA	NA	NA			
	тос	mg/L	Lab Analysis	of flow during the quarter &	0			NA	NA	NA	NA			
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0		ow 29/06/23 ck completed,	NA	NA	NA	NA			
	рН	рН	In situ	discharge	0	110 1	iowj	NA	NA	NA	NA			
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0			NA	NA	NA	NA			
	Conductivity	μs/cm	In situ	In the event	0			NA	NA	NA	NA			
	тос	mg/L	Lab Analysis	of flow during the quarter &	0			NA	NA	NA	NA			
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	Ambient Flo (quarterly che no f	•	NA	NA	NA	NA			
	рН	рН	In situ	discharge	0	no i	iow <i>j</i>	NA	NA	NA	NA			
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	points 0			NA	NA	NA	NA			



	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA			
	тос	mg/L	Lab Analysis	of flow during the quarter &	0		NA	NA	NA	NA			
16	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	Ambient Flow 29/06/23 (quarterly check completed, no flow)	NA	NA	NA	NA			
	рН	рН	In situ	discharge	0	- Ho How)	NA	NA	NA	NA			
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA			
	Conductivity	μs/cm	In situ	In the event	0	-	NA	NA	NA	NA			
	тос	mg/L	Lab Analysis	of flow during the quarter &	0		NA	NA	NA	NA			
17	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	Ambient Flow 29/06/23 (quarterly check completed, no flow)	NA	NA	NA	NA			
	рН	рН	In situ	discharge	0	- Ho How)	NA	NA	NA	NA			
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA			
10	Conductivity	μs/cm	In Situ	Upon discharge			No discharge occurred during sampling period (SD7)						
18	тос	mg/L	Lab Analysis	(within 12 hours)		No discharge occu.	rred during san	npling period (S	D7)				
	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA			
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	Ambient Flow 29/06/23	NA	NA	NA	NA			
19	Oil & Grease	mg/L	Lab Analysis	after each wet weather discharge	0	(quarterly check completed, no flow)	NA	NA	NA	NA			
	рН	рН	In situ	from points	0		NA	NA	NA	NA			
	TSS	mg/L	Lab Analysis	11, 13, 18,27	0		NA	NA	NA	NA			
	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA			
20	тос	mg/L	Lab Analysis	of flow during the quarter & after each 0	0	Ambient Flow 29/06/23	NA	NA	NA	NA			
20		/1	Lab		quarterly check completed, no flow)	NA	NA	NA	NA				
	Oil & Grease	mg/L	Analysis	wet weather		lio new,	IVA	IVA	IVA	INA			

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA			
	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA			
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	20/05/22	NA	NA	NA	NA			
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	Ambient Flow 29/06/23 (quarterly check completed, no flow)	NA	NA	NA	NA			
	рН	рН	In situ	discharge	0	,	NA	NA	NA	NA			
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA			
	Conductivity	μs/cm	In situ	In the event			NA	NA	NA	NA			
	тос	mg/L	Lab Analysis	of flow during the quarter &	0		NA	NA	NA	NA			
22	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	Ambient Flow 29/06/23 (quarterly check completed, no flow)	NA	NA	NA	NA			
	рН	рН	In situ	discharge from points 11, 13, 18,27	0	110 How)	NA	NA	NA	NA			
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA			
24	рН	рН	In situ	Upon									
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi aiscnarge point – N	nt – Not constructed or currently utilised (NR1).						
25	рН	рН	In situ	Upon				., .,	/ / / / / / / / / / / / / / / / / /				
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – No	ot constructed (or currently utili	sea (NRUS).				
26	рН	рН	In situ	Upon									
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRDS).							
	Conductivity	μs/cm	In situ		0								
	рН	рН	In situ		0								
28	SWL	mbtoc	In situ	Quarterly	0	Во	re was dry duri	ng sampling pei	riod				
	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		1	23/06/2023	3/07/2023	NA	NA	NA	15480
	рН	рН	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
29	Chloride	mg/L	Lab Analysis	Quarterly	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



	Conductivity	μs/cm	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	18990	
	рН	рН	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	
30	Chloride	mg/L	Lab Analysis	Quarterly	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	
	Conductivity	μs/cm	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	6940	
	рН	рН	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	
21	Calcium	mg/L	Lab Analysis	Quartarly	1	23/06/2023	3/07/2023	NA	NA	NA	98	
31	Carbonate	mg/L	Lab Analysis	Quarterly	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				
	Conductivity	μs/cm	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	1918				
	рН	рН	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	8.32				
	SWL	mbtoc	In situ	Quarterly	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				
32	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				
	Conductivity	μs/cm	In situ		0										
	рН	рН	In situ		0										
	SWL	mbtoc	In situ		0										
	Bicarbonate	mg/L	Lab Analysis	Quarterly	0		Bore was dry during sampling period								
	Calcium	mg/L	Lab Analysis		0										
33	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		0										
	рН	рН	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	Quarterly	0										
34	Chloride	mg/L	Lab Analysis		0		Bore was dry during sampling period								
	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		1	23/06/2023	3/07/2023	NA	NA	NA	11480				
	рН	рН	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				
35	Bicarbonate	mg/L	Lab Analysis	Quarterly	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)

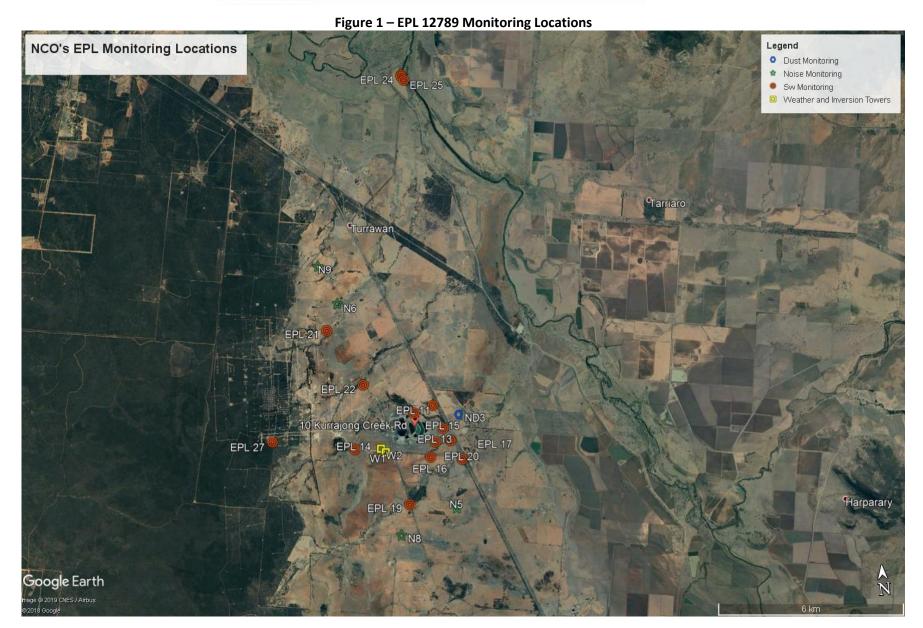
EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max or Only Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
	TSS	mg/L	Lab Analysis		0			50	No				
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	10	No	SD4			
	рН	рН	In situ		0			6.5- 8.5	No				
	TSS	mg/L	Lab Analysis		0						50	No	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	,	10	No	SD2		
	рН	рН	In situ		0			6.5- 8.5	No				
	TSS	mg/L	Lab Analysis		0						50	No	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during s	sampling period	,	10	No	SD7
	рН	рН	In situ		0						6.5- 8.5	No	
24	TDS	mg/L	Lab Analysis	Upon	0	M	dia da susa a sa isat	N-4	t - d		350	N/A	ND4
24	рН	рН	In situ	discharge	0	Namoi	Namoi discharge point – Not constructed or currently utilised.						NR1
	TSS	mg/L	Lab Analysis		0							N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge occurred during reporting period						SD8
	рН	рН	In situ		0								

Table 3 – Quarterly Attended Noise Monitoring results summary table

EPL ID	Date	Measured Levels –	Measured Levels –	Measured Levels –	Measured Levels –	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)			Compliant (Yes/No)	Date Obtained
		dB(A)	dB(A)	dB(A)	dB(A)		Ferious				(163/110)	Obtained
		Leq 15min Day	Leq 15min	Leq 15min Night	LA1 (1 min) Night							
			Evening									
	19/06/2023 ²	I/A	27	30	38	Day, Evening & Night:	Day – 1.5 hrs	N	N	N	Yes	
N5¹	20/06/20232	34	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Υ	Υ	Υ	Yes	
	21/06/2023²	34	N/M	25	27	<u>L_{A1 (1 min):}</u> 4 5	Night – 1 hr	Υ	Υ	N	Yes	
	19/06/2023 ²	N/M	28	32	38	Day, Evening & Night:	Day – 1.5 hrs	N	N	N	Yes	
N6	20/06/2023 ²	28	25	25	31	35 <u>Night</u>	Evening – 0.5 hrs	N	Υ	Υ	Yes	
	21/06/20232	N/M	I/A	<25	25	<u>L_{A1 (1 min):}</u> 45	Night – 1 hr	Υ	Υ	Υ	Yes	19/07/2023
	19/06/2023 ²	I/A	N/M	25	28	Day, Evening & Night:	Day – 1.5 hrs	Υ	N	N	Yes	13,01,2023
N8¹	20/06/2023²	I/A	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Υ	Υ	Υ	Yes	
	21/06/20232	34	I/A	I/A	I/A	<u>L_{A1 (1 min)}:</u> 45	Night – 1 hr	Υ	Υ	Υ	Yes	
	19/06/2023 ²	25	25	31	34	Day, Evening & Night:	Day – 1.5 hrs	Υ	N	N	Yes	
N9¹	20/06/20232	I/A	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Υ	Υ	Υ	Yes	
	21/06/20232	I/A	I/A	I/A	I/A	<u>L_{A1 (1 min)}:</u> 45	Night – 1 hr	Υ	Υ	Υ	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.





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 2023Obtained Date:26/07/2023Publication 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/m²/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										
11	тос	mg/L	Lab Analysis	(within 12 hours)		No discharge occurred during sampling period (SD4)								
42	Conductivity	μs/cm	In situ	Upon discharge										
13	тос	mg/L	Lab Analysis	(within 12 hours)	No discharge occurred during sampling period (SD2)									
	Conductivity	μs/cm	In situ	In the event										
	тос	mg/L	Lab Analysis	In the event of flow during the quarter &	during ter & sach No flow events and/or mine discharge occurred during sampling period (KC1US)									
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather										
	рН	рН	In situ	discharge										
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27										
	Conductivity	μs/cm	In situ	In the event										
	тос	mg/L	Lab Analysis	of flow during the quarter &										
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	N	o flow events a	nd/or mine disc	harge occurred	during samplin	ng period (KC1D	OS)			
	рН	рН	In situ	discharge										
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27										

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

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27							
	Conductivity	μs/cm	In situ	In the event							
	тос	mg/L	Lab Analysis	of flow during the quarter &							
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	^	No flow events and/or mine discharge occurred during sampling period (PCa)					
	рН	рН	In situ	discharge							
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27							
	Conductivity	μs/cm	In situ	In the event							
	тос	mg/L	Lab Analysis	of flow during the quarter &							
22	Oil & Grease	mg/L	Lab Analysis	after each wet weather	^	No flow events and/or mine discharge occurred during sampling period (PC1)					
	рН	рН	In situ	discharge							
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27							
2.4	рН	рН	In situ	Upon	Namoi discharge point – Not constructed or currently utilised (NR1).						
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)							
25	рН	рН	In situ	Upon		Name of disabours as into Material and accompatible difficult (AIDMG)					
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRUS).					
26	рН	рН	In situ	Upon							
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRDS).					
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
28	SWL	mbtoc	In situ	Quarterly	0	Not scheduled for sampling during sampling period					
	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		0	
	рН	рН	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	
29	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period
	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		0				
	рН	рН	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				
30		mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period			
		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		0				
	рН	рН	In situ	i	0				
	SWL	mbtoc	In situ		0				
	Bicarbonate	mg/L	Lab Analysis	Quarterly -	0				
31	Calcium	mg/L	Lab Analysis		Quarterly	Quarterly	Quarterly	0	Not scheduled for sampling during sampling period
31	Carbonate	mg/L	Lab Analysis					0	Not scheduled for sumpling during sumpling period
	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		0			
	рН	рН	In situ		0			
	SWL	mbtoc	In situ		0			
	Bicarbonate	mg/L	Lab Analysis	Quarterly	0			
	Calcium	mg/L	Lab Analysis		0			
	Carbonate	mg/L	Lab Analysis		0			
32	Chloride	mg/L	Lab Analysis		0	Not scheduled for sampling during sampling period		
	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		0			
	рН	рН	In situ		0			
	SWL	mbtoc	In situ		0			
	Bicarbonate	mg/L	Lab Analysis		0			
	Calcium	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period		
33	Carbonate	mg/L	Lab Analysis				0	
	Chloride	mg/L	Lab Analysis		0			

	Magnesium	mg/L	Lab Analysis		0											
	Potassium	mg/L	Lab		0											
	Sodium	mg/L	Analysis Lab		0											
	Jourum	IIIg/ L	Analysis													
	Sulfate	mg/L	Lab Analysis		0											
	Conductivity	μs/cm	In situ		0											
	рН	рН	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	Quarterly	0											
34	Chloride	mg/L	Lab Analysis		Quarterly	0	Not scheduled for sampling during sampling period									
	Magnesium	mg/L	Lab Analysis			0										
	Potassium	mg/L	Lab Analysis			0										
	Sodium	mg/L	Lab Analysis													
	Sulfate	mg/L	Lab Analysis		0											
	Conductivity	μs/cm	In situ		0											
	рН	рН	In situ		0											
	SWL	mbtoc	In situ		0											
35	Bicarbonate	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period										
	Calcium	mg/L	Lab Analysis		0											

Carbonate	mg/L	Lab		0
		Analysis	1	
Chloride	mg/L	Lab		0
Cilionae	IIIg/L	Analysis		
Magnesium	ma/I	Lab		0
Magnesium	mg/L	Analysis		
Potassium	ma/l	Lab		0
Potassium	mg/L	Analysis		
Sodium	ma/I	Lab		0
30010111	mg/L	Analysis		
Sulfate	m a /I	Lab		0
Sunate	mg/L	Analysis		

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)
	TSS	mg/L	Lab Analysis		0						50	n/a	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	,	10	n/a	SD4		
	рН	рН	In situ		0								
	TSS	mg/L	Lab Analysis		0								
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge occurred during sampling period						SD2
	рН	рН	In situ		0							n/a	
	TSS	mg/L	Lab Analysis		0								
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during s	sampling period	,	10	n/a	SD7
	рН	рН	In situ		0						6.5- 8.5	n/a	
24	TDS	mg/L	Lab Analysis	Upon	0	M	dih	Not an advance			350	n/a	ND4
24	рН	рН	In situ	discharge	0	Namoi	Namoi discharge point – Not constructed or currently utilised.					n/a	NR1
	TSS	mg/L	Lab Analysis		0						50	n/a	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during reporting period				10	n/a	SD8	
	рН	рН	In situ		0							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	Measured	Measured	Measured	Limit(s)	Measurement		ather	Compliant	Date
		Levels –	Levels –	Levels –	Levels –		Periods		pliant	(Yes/No)	Obtained
		dB(A)	dB(A)	dB(A)	dB(A)				itions		
		Leq 15min Day	Leq 15min	Leq 15min Night	LA1 (1 min) Night			(D/I	E/N)		
			Evening								
						Day, Evening &	Day – 1.5 hrs				
						<u>Night:</u>					
N5						35	Evening – 0.5				
INS						<u>Night</u>	hrs				
						<u>LA1 (1 min):</u>					
						45	Night – 1 hr				
						Day, Evening &	Day – 1.5 hrs				
						Night:					
N6						35	Evening – 0.5				
INO						<u>Night</u>	hrs				
						<u>La1 (1 min):</u>					
						45	Night – 1 hr				
						Day, Evening &	Day – 1.5 hrs				
						<u>Night:</u>					
N8						35	Evening – 0.5				
INO						<u>Night</u>	hrs				
						L _{A1 (1 min)} :					
						45	Night – 1 hr				
						Day, Evening &	Day – 1.5 hrs				
						<u>Night:</u>					
N9						35	Evening – 0.5				
INS						<u>Night</u>	hrs				
						LA1 (1 min):					
						45	Night – 1 hr				





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 2023Obtained Date:25/08/2023Publication 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/m²/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										
11	тос	mg/L	Lab Analysis	(within 12 hours)		No discharge occurred during sampling period (SD4)								
42	Conductivity	μs/cm	In situ	Upon discharge										
13	тос	mg/L	Lab Analysis	(within 12 hours)	No discharge occurred during sampling period (SD2)									
	Conductivity	μs/cm	In situ	In the event										
	тос	mg/L	Lab Analysis	of flow during the quarter &										
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	No flow events and/or mine discharge occurred during sampling period (KC1US)									
	рН	рН	In situ	discharge										
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27										
	Conductivity	μs/cm	In situ	In the event										
	тос	mg/L	Lab Analysis	of flow during the quarter &										
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	N	o flow events a	nd/or mine disc	harge occurred	during samplin	ng period (KC1D)S)			
	рН	рН	In situ	discharge	ge									
	TSS mg/L Lab from points Analysis 11, 13, 18,27													

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

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27							
	Conductivity	μs/cm	In situ	In the event							
	тос	mg/L	Lab Analysis	of flow during the quarter &							
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	^	lo flow events and/or mine discharge occurred during sampling period (PCa)					
	рН	рН	In situ	discharge							
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27							
	Conductivity	μs/cm	In situ	In the event							
	тос	mg/L	Lab Analysis	of flow during the quarter &	No flow events and/or mine discharge occurred during sampling period (PC1)						
22	Oil & Grease	mg/L	Lab Analysis	after each wet weather							
	рН	рН	In situ	discharge							
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27							
24	рН	рН	In situ	Upon							
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NR1).					
25	рН	рН	In situ	Upon		Managine in the Alabaman and the Alabama					
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRUS).					
26	рН	рН	In situ	Upon							
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	, , ,						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ]	0						
28	SWL	mbtoc	In situ	Quarterly	0	Not scheduled for sampling during sampling period					
	Bicarbonate	te 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		0	
	рН	рН	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	
29	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period
	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		0												
	рН	рН	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												
30	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period											
	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		0												
	рН	рН	In situ		0												
	SWL	mbtoc	In situ		0												
	Bicarbonate	mg/L	Lab Analysis													0	
31	Calcium	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period											
31	Carbonate	mg/L	Lab Analysis	Quarterry	0	Not scrieduled for sampling during sampling period											
	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		0			
	рН	pН	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			
32	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period		
	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		0			
	рН	рН	In situ		0			
	SWL	mbtoc	In situ		0			
	Bicarbonate	mg/L	Lab Analysis		0			
	Calcium	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period		
33	Carbonate	mg/L	Lab Analysis		0			
	Chloride	mg/L	Lab Analysis		0			

	Magnesium	mg/L	Lab Analysis		0											
	Potassium	mg/L	Lab		0											
	Sodium	mg/L	Analysis Lab		0											
	Jourum	IIIg/ L	Analysis													
	Sulfate	mg/L	Lab Analysis		0											
	Conductivity	μs/cm	In situ		0											
	рН	рН	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	Quarterly	0											
34	Chloride	mg/L	Lab Analysis		0	Not scheduled for sampling during sampling period										
	Magnesium	mg/L	Lab Analysis		_			0								
	Potassium	mg/L	Lab Analysis			0										
	Sodium	mg/L	Lab Analysis													
	Sulfate	mg/L	Lab Analysis		0											
	Conductivity	μs/cm	In situ		0											
	рН	рН	In situ		0											
	SWL	mbtoc	In situ	Quarterly	0											
35	Bicarbonate	mg/L	Lab Analysis		Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	0	Not scheduled for sampling during sampling period		
	Calcium	mg/L	Lab Analysis						0							

Carbonate	mg/L	Lab	0
		Analysis	
Chloride	mg/L	Lab	0
Cilioride	IIIg/L	Analysis	
Magnesium	mg/L	Lab	0
iviagnesium	IIIg/L	Analysis	
Potassium	ma/I	Lab	0
Potassium	mg/L	Analysis	
Sodium	ma/I	Lab	0
30010111	mg/L	Analysis	
Sulfate	ma/I	Lab	0
Suitate	mg/L	Analysis	

Table 2 - Pollutant Limits Apply (Water)

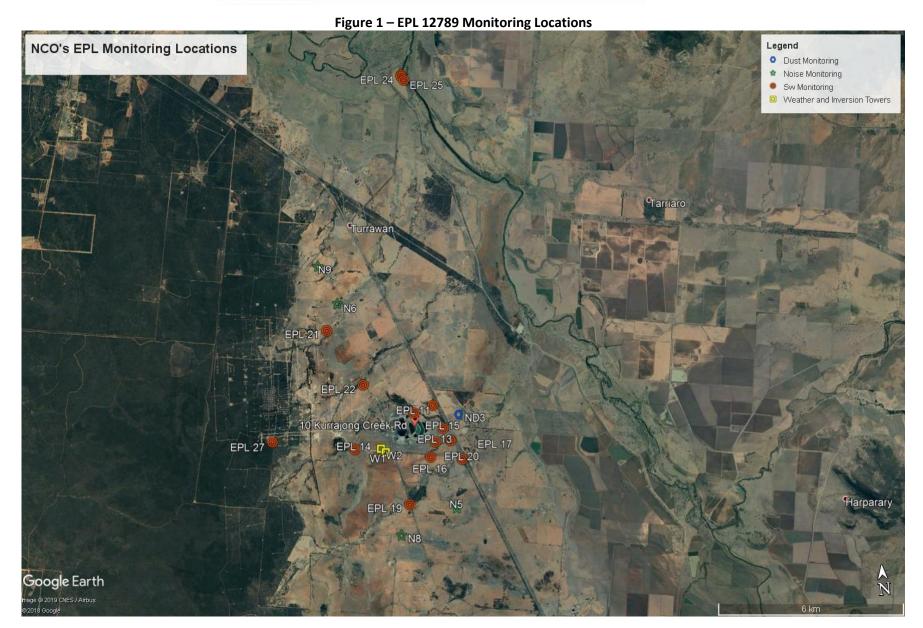
EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max or Only Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
	TSS	mg/L	Lab Analysis		0						50	n/a	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during s	sampling period	,	10	n/a	SD4
	рН	рН	In situ		0				6.5- 8.5	n/a			
	TSS	mg/L	Lab Analysis		0					50	n/a		
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during s	,	10	n/a	SD2	
	рН	рН	In situ		0								
	TSS	mg/L	Lab Analysis		0						50	n/a	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during s	sampling period	,	10	n/a	SD7
	рН	рН	In situ		0						6.5- 8.5	n/a	
24	TDS	mg/L	Lab Analysis	Upon	0	M	dih	N-4	t - d		350	n/a	ND4
24	рН	рН	In situ	discharge	0	Namoi	Namoi discharge point – Not constructed or currently utilised.						NR1
	TSS	mg/L	Lab Analysis		0							n/a	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during reporting period						n/a	SD8
	рН	рН	In situ		0							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	Measured	Measured	Measured	Limit(s)	Measurement		ather	Compliant	Date
		Levels –	Levels –	Levels –	Levels –		Periods		pliant	(Yes/No)	Obtained
		dB(A)	dB(A)	dB(A)	dB(A)				itions		
		Leq 15min Day	Leq 15min	Leq 15min Night	LA1 (1 min) Night			(D/I	E/N)		
			Evening								
						Day, Evening &	Day – 1.5 hrs				
						<u>Night:</u>					
N5						35	Evening – 0.5				
INS						<u>Night</u>	hrs				
						<u>LA1 (1 min):</u>					
						45	Night – 1 hr				
						Day, Evening &	Day – 1.5 hrs				
						Night:					
N6						35	Evening – 0.5				
INO						<u>Night</u>	hrs				
						<u>La1 (1 min):</u>					
						45	Night – 1 hr				
						Day, Evening &	Day – 1.5 hrs				
						<u>Night:</u>					
N8						35	Evening – 0.5				
140						<u>Night</u>	hrs				
						L _{A1 (1 min)} :					
						45	Night – 1 hr				
						Day, Evening &	Day – 1.5 hrs				
						<u>Night:</u>					
N9						35	Evening – 0.5				
						<u>Night</u>	hrs				
						<u>LA1 (1 min):</u>					
						45	Night – 1 hr				





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/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	14/09/2023	25/10/2023	NA	NA	NA	0.5		
44	Conductivity	μs/cm	In situ	Upon discharge				was all divisions agree alians married (CDA)					
11	тос	mg/L	Lab Analysis	(within 12 hours)	urs)								
42	Conductivity	μs/cm	In situ	Upon discharge	No discharge occurred during sampling period (SD2)								
13	тос	mg/L	Lab Analysis	(within 12 hours)		No	aiscnarge occui	rrea auring san	npiing perioa (S	D2)			
	Conductivity	μs/cm	In situ	In the event	0			NA	NA	NA	NA		
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	Ambient Flow 27/09/23 (quarterly check completed, no flow)		NA	NA	NA	NA		
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0		NA	NA	NA	NA			
	рН	рН	In situ	discharge	0	1101	iow)	NA	NA	NA	NA		
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0			NA	NA	NA	NA		
	Conductivity	μs/cm	In situ	In the event	0			NA	NA	NA	NA		
	тос	mg/L	Lab Analysis	of flow during the quarter &	0			NA	NA	NA	NA		
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	Ambient Flov (quarterly chec	ck completed,	NA	NA	NA	NA		
	рН	рН	In situ	discharge	0		iow <i>j</i>	NA	NA	NA	NA		
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0			NA	NA	NA	NA		



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

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA				
	Conductivity	μs/cm	In situ	In the event	0	Ambient Flow 27/09/23	NA	NA	NA	NA				
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	(quarterly check completed, no flow)	NA	NA	NA	NA				
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0		NA	NA	NA	NA				
	рН	рН	In situ	discharge	0		NA	NA	NA	NA				
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA				
	Conductivity	μs/cm	In situ	In the event	0	Ambient Flow 27/09/23	NA	NA	NA	NA				
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	(quarterly check completed, no flow)	NA	NA	NA	NA				
22	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0		NA	NA	NA	NA				
	рН	рН	In situ	discharge	0		NA	NA	NA	NA				
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA				
2.4	рН	рН	In situ	Upon										
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	Namoi discharge point – Not constructed or currently utilised (NR1).									
25	рН	рН	In situ	Upon				., .,	(
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – No	ot constructed (or currently util	ised (NRUS).					
26	рН	рН	In situ	Upon										
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	9 , , , ,									
	Conductivity	μs/cm	In situ		0									
	рН	рН	In situ		0									
28	SWL	mbtoc	In situ	Quarterly	0	Bore was dry during sampling period								
	Bicarbonate	mg/L	Lab Analysis		0									

	Calcium	mg/L	Lab		0						
	Calcium	IIIg/L	Analysis		0						
	Carbonate	mg/L	Lab		0						
			Analysis Lab			1					
	Chloride	mg/L	Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
			Lab								
	Potassium	mg/L	Analysis		0						
	Sodium	ma	Lab		0						
	Sodium	mg/L	Analysis								
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	11650
	рН	рН	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
29 (P29)	Chloride	mg/L	Lab Analysis	Quarterly	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



	Conductivity	μs/cm	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	13880
	рН	рН	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
30	Carbonate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	<1
(P30)	Chloride	mg/L	Lab Analysis	Quarterly	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
	Conductivity	μs/cm	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	6240
	рН	рН	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
31	Calcium	mg/L	Lab Analysis	Quartorly	1	26/09/2023	11/10/2023	NA	NA	NA	96
(P31)	Carbonate	mg/L	Lab Analysis	Quarterly	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
	Conductivity	μs/cm	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	1770
	рН	рН	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
32	Carbonate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	59
(P32)	Chloride	mg/L	Lab Analysis	Quarterly	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
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis	Quarterly	0		Bord	e was dry durir	ng sampling per	iod	
33 (P33)	Carbonate	mg/L	Lab Analysis		0						
()	Chloride	mg/L	Lab Analysis		0						

			Lab		0						
	Magnesium	mg/L	Analysis								
		/.	Lab		0	1					
	Potassium	mg/L	Analysis								
	Sodium	/1	Lab		0]					
	Sodium	mg/L	Analysis								
	Sulfate	mg/L	Lab		0						
	Juliate	IIIg/L	Analysis								
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab		0						
	Bicarbonate	IIIg/L	Analysis								
	Calcium	mg/L	Lab		0						
-	Calciani	1116/ L	Analysis								
	Carbonate	mg/L	Lab		0						
34			Analysis			 -	_	, , .		. ,	
(P34)	Chloride	mg/L	Lab	Quarterly	0		Bor	re was ary aurii	ng sampling per	10a	
-			Analysis		0	-					
	Magnesium	mg/L	Lab Analysis		0						
-			Lab		0	1					
	Potassium	mg/L	Analysis		0						
-			Lab		0	-					
	Sodium	mg/L	Analysis								
-			Lab		0	1					
	Sulfate	mg/L	Analysis								
	Conductivity	μs/cm	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	10260
-	рН	рН	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
35			Lab	Quarterly	1						
(P58))	Bicarbonate	mg/L	Analysis	·		26/09/2023	11/10/2023	NA	NA	NA	5110
	Coloium	m a /1	Lab		1	26/00/2022	11/10/2022	NIA	NIA	NIA	36
	Calcium	mg/L	Analysis			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	Conductivity	μs/cm	In situ	Monthly	0						
(P83)	рН	рН	In situ		0	1					
	SWL	mbtoc	In situ		0	1					
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0		Bor	e was dry durir	ng sampling pei	riod	
	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
	рН	рН	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	Conductivity	μs/cm	In situ	Monthly	0						
(P85)	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0		Por	ro was dru durii	ng sampling per	riad	
	Carbonate	mg/L	Lab Analysis		0		БОГ	e was ary aarn	ig sumpling per	100	
	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	
	рН	рН	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	Bore was dry during sampling period
	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	
	рН	рН	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	Bore was dry during sampling period
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	



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



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)
	TSS	mg/L	Lab Analysis		0								
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during	sampling period	,	10	No	SD4
	рН	рН	In situ		0						6.5- 8.5	No	
	TSS	mg/L	Lab Analysis		0						50	No	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during	sampling period	,	10	No	SD2
	рН	рН	In situ		0								
	TSS	mg/L	Lab Analysis		0						50	No	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during s	sampling period	,	10	No	SD7
	рН	рН	In situ		0						6.5- 8.5	No	
24	TDS	mg/L	Lab Analysis	Upon	0	M	dih	Not an advance			350	N/A	ND4
24	рН	рН	In situ	discharge	0	Namoi	discharge point	– Not construct	tea or currently	utilisea.	6.5- 8.5	N/A	NR1
	TSS	mg/L	Lab Analysis		0						50	N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during reporting period				10	N/A	SD8	
	рН	рН	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) L _{eq 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	Co Co	Veathomplia ondition D/E/N	ant ons	Compliant (Yes/No)	Date Obtained
	11/09/20233	I/A	31	I/A	I/A	Day, Evening & Night:	Day – 1.5 hrs	Υ	Υ	Υ	Υ	
N5 ¹	12/09/20233	38	28	35	45	35 Night	Evening – 0.5 hrs	Υ	Υ4	Υ4	Y ⁵	
	13/09/2023³	I/A	I/A	30	37	<u>L_{A1 (1 min)}:</u> 45	Night – 1 hr	Υ	N	N	Y	
	11/09/20233	28	<25	27	30	Day, Evening & Night:	Day – 1.5 hrs	Υ	N	Υ	Y	
N6	12/09/20233	N/M	I/A	27	32	35 Night	Evening – 0.5 hrs	Υ	Υ ⁴	Υ ⁴	Y	
	13/09/20233	29	I/A	26	32	L _{A1 (1 min)} : 45	Night – 1 hr	Υ	N	N	Y	46/40/2022
	11/09/20233	23	29	<25	25	Day, Evening & Night:	Day – 1.5 hrs	Υ	Υ	Υ	Y	16/10/2023
N8¹	12/09/20233	27	26	35	49	35 Night	Evening – 0.5 hrs	Υ	Υ ⁴	Y ⁴	Y ⁵	
	13/09/20233	I/A	26	N/M	N/M	L _{A1 (1 min)} : 45	Night – 1 hr	N	N	N	Y	
	11/09/20233	24	I/A	22	23	Day, Evening & Night:	Day – 1.5 hrs	Υ	N	Υ	Y	
N9¹	12/09/20233	31	I/A	30	33	35 Night	Evening – 0.5 hrs	Υ	Υ ⁴	Υ ⁴	Y	
	13/09/20233	I/A	I/A	22	27	<u>L_{A1 (1 min)}:</u> 45	Night – 1 hr	Υ	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.





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/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	18/10/2023	06/11/2023	NA	NA	NA	0.8			
44	Conductivity	μs/cm	In situ	Upon discharge	No discharge occurred during sampling period (SD4)									
11	тос	mg/L	Lab Analysis	(within 12 hours)		No	discharge occui	rred during san	npling period (S	5D4)				
42	Conductivity	μs/cm	In situ	Upon discharge		A/-	dia di successione	one of alcoring a con-	lin o 1 (6	2021				
13	тос	mg/L	Lab Analysis	(within 12 hours)	No discharge occurred during sampling period (SD2)									
	Conductivity	μs/cm	In situ	In the event	0			NA	NA	NA	NA			
	тос	mg/L	Lab Analysis	of flow during the quarter &	0		. 51	NA	NA	NA	NA			
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	5/10/20	Ambient Flow 5/10/2023 (check completed, no flow)	NA	NA	NA	NA			
	рН	рН	In situ	discharge	0	complete	ea, no now)	NA	NA	NA	NA			
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0			NA	NA	NA	NA			
	Conductivity	μs/cm	In situ	In the event	0			NA	NA	NA	NA			
	тос	mg/L	Lab Analysis	of flow during the quarter &	0		. 51	NA	NA	NA	NA			
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather discharge	0	5/10/20	ent Flow 023 (check	NA	NA	NA	NA			
	рН	рН	In situ		0	completed, no flow)		NA	NA	NA	NA			
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0			NA	NA	NA	NA			



		,												
	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA				
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	Ambient Flow	NA	NA	NA	NA				
16	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	5/10/2023 (check	NA	NA	NA	NA				
	рН	рН	In situ	discharge	0	completed, no flow)	NA	NA	NA	NA				
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA				
	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA				
	тос	mg/L	Lab Analysis	of flow during the quarter &	0		NA	NA	NA	NA				
17	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	Ambient Flow 5/10/2023 (check	NA	NA	NA	NA				
	рН	рН	In situ	discharge	0	completed, no flow)	NA	NA	NA	NA				
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA				
	Conductivity	μs/cm	In Situ	Upon discharge	No discharge occurred during sampling period (SD7)									
18	тос	mg/L	Lab Analysis	(within 12 hours)		No discharge occu	irred during sam	ppling period (S	5D7)					
	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA				
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	Ambient Flow	NA	NA	NA	NA				
19	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	5/10/2023 (check completed, no flow)	NA	NA	NA	NA				
	рН	рН	In situ	discharge from points	0	, , ,	NA	NA	NA	NA				
	TSS	mg/L	Lab Analysis	11, 13, 18,27	0		NA	NA	NA	NA				
	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA				
20	тос	mg/L	Lab Analysis	of flow during the quarter & after each wet weather	0	Ambient Flow	NA	NA	NA	NA				
20	Oil & Grease	mg/L	Lab Analysis		0	5/10/2023 (check completed, no flow)	NA	NA	NA	NA				
	рН	рН	In situ	discharge	0		NA	NA	NA	NA				

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA					
	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA					
	TOC	mg/L	Lab Analysis	of flow during the quarter &	0	<u> </u>	NA	NA	NA	NA					
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	Ambient Flow 5/10/2023 (check	NA	NA	NA	NA					
	рН	рН	In situ	discharge	0	completed, no flow)	NA	NA	NA	NA					
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA					
	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA					
	тос	mg/L	Lab Analysis	of flow during the quarter &	0		NA	NA	NA	NA					
22	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	Ambient Flow 5/10/2023 (check	NA	NA	NA	NA					
	рН	рН	In situ	discharge	0	completed, no flow)	NA	NA	NA	NA					
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA					
	рН	рН	In situ	Upon											
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point — Not constructed or currently utilised (NR1).									
	рН	рН	In situ	Upon											
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRUS).									
26	рН	рН	In situ	Upon											
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – N	ot constructed c	or currently uti	lised (NRDS).						
	Conductivity	μs/cm	In situ												
	рН	рН	In situ												
28	SWL	mbtoc	In situ	Quarterly	Not scheduled for sampling during sampling period										
	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		
	Conductivity	μs/cm	In situ		
	рН	рН	In situ		
	SWL	mbtoc	In situ		
	Bicarbonate	mg/L	Lab Analysis		
	Calcium	mg/L	Lab Analysis		
	Carbonate	mg/L	Lab Analysis		
29	Chloride	mg/L	Lab Analysis	Quarterly	Not scheduled for sampling during sampling period
	Magnesium	mg/L	Lab Analysis		
	Potassium	mg/L	Lab Analysis		
	Sodium	mg/L	Lab Analysis		
	Sulfate	mg/L	Lab Analysis		

	Conductivity	μs/cm	In situ		
	рН	pН	In situ		
	SWL	mbtoc	In situ		
	Bicarbonate	mg/L	Lab		
	bicarbonate	IIIg/L	Analysis		
	Calcium	mg/L	Lab		
	Carciann	6/ -	Analysis		
	Carbonate	mg/L	Lab		
30			Analysis	Quartorly	Not schoduled for campling during campling paried
30	Chloride	mg/L	Lab	Quarterly	Not scheduled for sampling during sampling period
			Analysis		
	Magnesium	mg/L	Lab		
			Analysis Lab		
	Potassium	mg/L	Analysis		
			Lab		
	Sodium	mg/L	Analysis		
	6 16 .	4.	Lab		
	Sulfate	mg/L	Analysis		
	Conductivity	μs/cm	In situ		
	рН	рН	In situ		
	SWL	mbtoc	In situ		
			Lab		
	Bicarbonate	mg/L	Analysis		
	0.1.	/.	Lab		
24	Calcium	mg/L	Analysis	0	
31	Carbonate	ma/I	Lab	Quarterly	Not scheduled for sampling during sampling period
	Carbonate	mg/L	Analysis		
	Chloride	mg/L	Lab		
	Cilionae	iiig/ L	Analysis		
	Magnesium	mg/l	Lab		
		analysis Analysis			
	Potassium	mg/L	Lab	1	
		tassium mg/L Analysis	mg/I I I		

	Sodium	mg/L	Lab Analysis Lab		
	Sulfate	mg/L	Analysis		
	Conductivity	μs/cm	In situ		
	рН	рН	In situ		
	SWL	mbtoc	In situ		
	Bicarbonate	mg/L	Lab Analysis		
	Calcium	mg/L	Lab Analysis		
22	Carbonate	mg/L	Lab Analysis		
32	Chloride	mg/L	Lab Analysis	Quarterly	Not scheduled for sampling during sampling period
	Magnesium	mg/L	Lab Analysis		
	Potassium	mg/L	Lab Analysis		
	Sodium	mg/L	Lab Analysis		
	Sulfate	mg/L	Lab Analysis		
	Conductivity	μs/cm	In situ		
	рН	рН	In situ		
	SWL	mbtoc	In situ		
	Bicarbonate	mg/L	Lab Analysis		
	Calcium	mg/L	Lab Analysis	Quarterly	Not scheduled for sampling during sampling period
33	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		
	Conductivity	μs/cm	In situ		
	рН	рН	In situ		
	SWL	mbtoc	In situ		
	Bicarbonate	mg/L	Lab Analysis		
	Calcium	mg/L	Lab Analysis		
	Carbonate	mg/L	Lab Analysis		
34	Chloride	mg/L	Lab Analysis	Quarterly	Not scheduled for sampling during sampling period
	Magnesium	mg/L	Lab Analysis		
	Potassium	mg/L	Lab Analysis		
	Sodium	mg/L	Lab Analysis		
	Sulfate	mg/L	Lab Analysis		
	Conductivity	μs/cm	In situ		
	рН	рН	In situ		
	SWL	mbtoc	In situ	Quarterly	
35	Bicarbonate	mg/L	Lab Analysis		Not scheduled for sampling during sampling period
	Calcium	mg/L	Lab Analysis		

	Sodium	mg/L	Analysis Lab Analysis								
	Sodium	mg/L mg/L	Lab								
		8/ =	Analysis			T					
	Conductivity	μs/cm	In situ		1						
	рН	рН	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			_			
36 (P83)	Chloride	mg/L	Lab Analysis	Monthly	1		•	Bore was dry d	uring sampling	period	
			Lab		1	1					
	Magnesium	mg/L	Analysis		-						
	Magnesium Potassium	mg/L mg/L			1						
			Analysis Lab								
	Potassium	mg/L	Analysis Lab Analysis Lab		1						
37	Potassium Sodium	mg/L mg/L	Analysis Lab Analysis Lab Analysis Lab	Monthly	1	6/11/2023	27/11/2023	NA	NA NA	NA NA	21010

	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
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
38 (P85)	Carbonate	mg/L	Lab Analysis	Monthly	0						
	Chloride	mg/L	Lab Analysis		0			Insufficient w	ater to sample		
	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		1	
	рН	рН	In situ		1	
	SWL	mbtoc In situ		1		
	Bicarbonate	mg/L	Lab Analysis		1	
	Calcium	mg/L	Lab Analysis		1	
39	Carbonate	mg/L	Lab Analysis		1	Bore was dry during sampling period
(P88)	Chloride	mg/L	Lab Analysis	Monthly	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		0	
	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis	Monthly	0	Bore was dry during sampling period
40	Carbonate	mg/L	Lab Analysis	Monthly	0	
40 (P89)	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	

Dotassium	ma/l	Lab	0
Potassium	mg/L	Analysis	
Cadium	m a /1	Lab	0
Sodium	mg/L	Analysis	
Sulfato	ma/l	Lab	0
Sulfate	mg/L	Analysis	

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)
	TSS	mg/L	Lab Analysis		0						50	n/a	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	,	10	n/a	SD4		
	рН	рН	In situ		0					6.5- 8.5	n/a		
	TSS	mg/L	Lab Analysis		0				50	n/a			
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	,	10	n/a	SD2		
	рН	рН	In situ		0			6.5- 8.5	n/a				
	TSS	mg/L	Lab Analysis		0						50	n/a	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during s	sampling period	,	10	n/a	SD7
	рН	рН	In situ		0						6.5- 8.5	n/a	
24	TDS	mg/L	Lab Analysis	Upon	0	M	dih	Not an advance			350	n/a	ND4
24	рН	рН	In situ	discharge	0	Namoi discharge point – Not constructed or currently utilised.						n/a	NR1
	TSS	mg/L	Lab Analysis		0							n/a	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during reporting period					10	n/a	SD8
	рН	рН	In situ		0							n/a	



Table 3 – Quarterly Attended Noise Monitoring results summary table

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

EPL ID	Date	Measured	Measured	Measured	Measured	Limit(s)	Measurement	Weat		Compliant	Date
		Levels –	Levels –	Levels –	Levels –		Periods	Compl		(Yes/No)	Obtained
		dB(A)	dB(A)	dB(A)	dB(A)			Condit			
		Leq 15min Day	Leq 15min	Leq 15min Night	L _{A1} (1 min) Night			(D/E/	N)		
			Evening								
						Day, Evening &	Day – 1.5 hrs				
						Night:					
N5 ²						35	Evening – 0.5				
INS						<u>Night</u>	hrs				
						<u>La1 (1 min):</u>					
						45	Night – 1 hr				
						Day, Evening &	Day – 1.5 hrs				
						Night:					
N6						35	Evening – 0.5				
INO						<u>Night</u>	hrs				
						<u>La1 (1 min):</u>					
						45	Night – 1 hr				
						Day, Evening &	Day – 1.5 hrs				
						<u>Night:</u>					
N8 ²						35	Evening – 0.5				
140						<u>Night</u>	hrs				
						L _{A1 (1 min)} :					
						45	Night – 1 hr				
						Day, Evening &	Day – 1.5 hrs				
						<u>Night:</u>					
N9 ²						35	Evening – 0.5				
145						<u>Night</u>	hrs				
						LA1 (1 min):					
						45	Night – 1 hr				





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/m²/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		Ma	disabaras sau	rrad durina can	anling nariad (C	D4)		
11	тос	mg/L	Lab Analysis	(within 12 hours)		NO	discharge occu	rrea auring san	ipiing perioa (S	<i>D4)</i>		
12	Conductivity	μs/cm	In situ	Upon discharge	No discharge occurred during sampling period (SD2)							
13	тос	mg/L	Lab Analysis	(within 12 hours)		NO	140 discharge occurred during sumpling period (502)					
	Conductivity	μs/cm	In situ	In the event	0			NA	NA	NA	NA	
	тос	mg/L	Lab Analysis	of flow during the quarter &	0		. 51	NA	NA	NA	NA	
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	24/11/2	ent Flow 023 (check	NA	NA	NA	NA	
	рН	рН	In situ	discharge	0	complete	ed, no flow)	NA	NA	NA	NA	
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0			NA	NA	NA	NA	
	Conductivity	μs/cm	In situ	In the event	0			NA	NA	NA	NA	
	тос	mg/L	Lab Analysis	of flow during the quarter &	0		. 51	NA	NA	NA	NA	
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	24/11/2	ent Flow 023 (check	NA	NA	NA	NA	
	рН	рН	In situ	discharge		complete	ed, no flow)	NA	NA	NA	NA	
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0			NA	NA	NA	NA	



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

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



Table 1 - No Pollutant Limits Apply

						dtant Linits Apply						
	Conductivity	μs/cm	In situ		0							
	рН	рН	In situ		0							
	SWL	mbtoc	In situ		0							
	Bicarbonate	mg/L	Lab Analysis		0							
	Calcium	mg/L	Lab Analysis		0							
28	Carbonate	mg/L	Lab Analysis		0							
(P28)	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period						
	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		0							
	рН	рН	In situ		0							
	SWL	mbtoc	In situ		0							
	Bicarbonate	mg/L	Lab Analysis	Quarterly	Quarterly	Quarterly					0	
29 (P29)	Calcium	mg/L	Lab Analysis				0	Not scheduled for sampling during sampling period				
	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		0				
	рН	рН	In situ		0				
	SWL	mbtoc	In situ		0				
	Bicarbonate	mg/L	Lab Analysis		0				
	Calcium	mg/L	Lab Analysis		0				
20	Carbonate	mg/L	Lab Analysis	Quarterly			C	0	
30 (P30)	Chloride	mg/L	Lab Analysis		0	Not scheduled for sampling during sampling period			
	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		0				
	рН	рН	In situ		0				
31	SWL	mbtoc	In situ	Quarterly	0	Not scheduled for sampling during sampling period			
(P31)	Bicarbonate	mg/L	Lab Analysis	Quarterly	0	Not seneddied for sumpling during sumpling period			
	Calcium	mg/L	Lab Analysis		0				

	Carbonate	mg/L	Lab		0										
	Carbonate	IIIg/L	Analysis												
	Chloride	mg/L	Lab		0										
	Cilioriae	1116/ L	Analysis												
	Magnesium	mg/L	Lab		0										
	Widgitesiam	1116/ -	Analysis												
	Potassium	mg/L	Lab		0										
	1 0 00 0 0 10 11	6/ -	Analysis												
	Sodium	mg/L	Lab		0										
		8/ =	Analysis												
	Sulfate	mg/L	Lab		0										
		8/ -	Analysis												
	Conductivity	μs/cm	In situ		0										
	рН	рН	In situ		0										
	SWL	mbtoc	In situ		0										
	Bicarbonate	m = /1	Lab		0										
	Bicarbonate	mg/L	Analysis												
	Calcium	mg/L	Lab		0										
	Calcium	IIIg/ L	Analysis												
	Carbonate	mg/L	Lab		0										
32	Carbonate	IIIg/ L	Analysis	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quartorly	Quarterly	Quarterly	Quarterly		
(P32)	Chloride	mg/L	Lab							0	Not scheduled for sampling during sampling period				
	Cilioriae	1116/ L	Analysis												
	Magnesium	mg/L	Lab						,					0	
		8/ =	Analysis												
	Potassium	mg/L	Lab		0										
		8/ =	Analysis												
	Sodium	mg/L	Lab		0										
		J.	Analysis												
	Sulfate	mg/L	Lab		0										
			Analysis												
	Conductivity	μs/cm	In situ	Quarterly	0										
	рН	рН	In situ		0	Not scheduled for sampling during sampling period									
	SWL	mbtoc	In situ		0										

	r				Т	
	Bicarbonate	mg/L	Lab Analysis		0	
			1		_	
	Calcium	mg/L	Lab		0	
33	Calciani	1116/ L	Analysis			
(P33)	6 1 1	/1	Lab		0	
	Carbonate	mg/L	Analysis			
	Cla La vital a	/1	Lab		0	
	Chloride	mg/L	Analysis			
		/.	Lab		0	
	Magnesium	mg/L	Analysis			
			Lab		0	
	Potassium	mg/L	Analysis			
	- u		Lab		0	
	Sodium	mg/L	Analysis			
			Lab		0	
	Sulfate	mg/L	Analysis			
	Conductivity	μs/cm	In situ		0	
	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
		_	Lab		0	
	Bicarbonate	mg/L	Analysis			
			Lab		0	
	Calcium	mg/L	Analysis			
		_	Lab		0	
	Carbonate	mg/L	Analysis			
34			Lab	Quarterly	0	Not scheduled for sampling during sampling period
(P34)	Chloride	mg/L	Analysis	ζωω. τογ	o o	The contention for company and my company period
					0	
	Magnesium	mg/L	Lab		U	
	-		Analysis			
	Potassium	mg/L	Lab		0	
	i otassiaiii	1118/ L	Analysis			
	Cadima	/1	Lab		0	
	Sodium	mg/L	Analysis			
	Culfata	/1	Lab		0	
	Sulfate	mg/L	Analysis			

	0 1	,	1			
	Conductivity	μs/cm	In situ		0	
	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab		0	
	bicarbonate	IIIg/L	Analysis			
	Calcium	mg/L	Lab		0	
	Calcium	IIIg/L	Analysis			
	Carbonate	mg/L	Lab		0	
35	Carbonate	IIIg/L	Analysis			
(P58)	Chloride	mg/L	Lab	Quarterly	0	Not scheduled for sampling during sampling period
(, 55)	Cilioride	IIIg/L	Analysis			
	Magnesium	mg/L	Lab		0	
	iviagnesium	IIIg/L	Analysis			
	Potassium	mg/L	Lab		0	
	Fotassium	IIIg/L	Analysis			
	Sodium	mg/L	Lab		0	
	Soululli	IIIg/L	Analysis			
	Sulfate mg/L	ma/l	Lab		0	
	Sullate	IIIg/L	Analysis			
	Conductivity	μs/cm	In situ		1	
	рН	рН	In situ		1	
	SWL	mbtoc	In situ		1	
•	5: 1 .		Lab		1	
	Bicarbonate	mg/L	Analysis			
•	Calairea		Lab		1	
36	Calcium	mg/L	Analysis			
(P83)	Coulonata	/I	Lab	Monthly	1	
	Carbonate	mg/L	Analysis			Dava was dru di via a savantina navia d
	Clal a si al a	/1	Lab		1	Bore was dry during sampling period
	Chloride	mg/L	Analysis			
	N.4 :	h	Lab		1	
	Magnesium mg/L	Analysis				
	Datas :	h	Lab	1	1	
	Potassium	mg/L	Analysis			

			1 - 1-		1						
	Sodium	mg/L	Lab Analysis		1						
	Sulfate	mg/L	Lab Analysis		1						
	Conductivity	μs/cm	In situ		1	27/11/2023	8/12/2023	NA	NA	NA	21550
	рН	рН	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
27	Carbonate	mg/L	Lab Analysis		1	27/11/2023	8/12/2023	NA	NA	NA	<1
37 (P84)	Chloride	mg/L	Lab Analysis	Monthly	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
	Conductivity	μs/cm	In situ		1						
	рН	рН	In situ		1						
	SWL	mbtoc	In situ		1						
38 (P85)	Bicarbonate	mg/L	Lab Analysis	Monthly	1						
	Calcium	mg/L	Lab Analysis		1			Insufficient wo	ater to sample		
	Carbonate	mg/L	Lab Analysis		1						

	1						
	Chloride	mg/L	Lab		1		
	Cilioriae	6/ -	Analysis				
	Magnesium	mg/L	Lab		1		
		6/ =	Analysis				
	Potassium	mg/L	Lab		1		
		6/ =	Analysis				
	Sodium	mg/L	Lab	I	1		
			Analysis				
	Sulfate	mg/L	Lab		1		
		<i>O</i> ,	Analysis				
	Conductivity	μs/cm	In situ	Monthly	1		
	рН	рН	In situ		1		
	SWL	mbtoc	In situ		1		
	Bicarbonate	mg/L	Lab		1		
			Analysis				
	Calcium	mg/L	Lab		1		
			Analysis				
	Carbonate	mg/L	Lab		Monthly	1	
39			Analysis				
(P88)	Chloride	mg/L	Lab			1	
	Chloride		Analysis				
	Magnesium	mg/L	Lab		1		
			Analysis				
	Potassium	mg/L	Lab		1		
			Analysis				
	Sodium	mg/L	Lab		1		
		0/ -	Analysis				
	Sulfate	mg/L	Lab		1		
			Analysis				
	Conductivity	μs/cm	In situ		0		
	рН	рН	In situ		0		
	SWL	mbtoc	In situ	Monthly	0	Bore was dry during sampling period	
	Bicarbonate	mg/L	Lab	1		0	
		IIIg/L	Analysis				

			Lab	0
40	Calcium	mg/L		
40			Analysis	
(P89)	Carbonate	ma/l	Lab	0
	Carbonate	mg/L	Analysis	
		/1	Lab	0
	Chloride	mg/L	Analysis	
			Lab	0
	Magnesium	mg/L	Analysis	
		4.	Lab	0
	Potassium	mg/L	Analysis	
	C 1:	/1	Lab	0
	Sodium	mg/L	Analysis	
	Culfaka	/I	Lab	0
	Sulfate	mg/L	Analysis	

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)
	TSS	mg/L	Lab Analysis		0			50	n/a				
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	10	n/a	SD4			
	рН	рН	In situ		0							n/a	
	TSS	mg/L	Lab Analysis		0			50	n/a				
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during sampling period						n/a	SD2
	рН	рН	In situ		0						6.5- 8.5	n/a	
	TSS	mg/L	Lab Analysis		0				50	n/a			
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during sampling period					10	n/a	SD7
	рН	рН	In situ		0			6.5- 8.5	n/a				
24	TDS	mg/L	Lab Analysis	Upon	0	M					350	n/a	ND4
24	рН	рН	In situ	discharge	0	Namoi discharge point – Not constructed or currently utilised.						n/a	NR1
	TSS	mg/L	Lab Analysis		0								
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during reporting period					10	n/a	SD8
	рН	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.

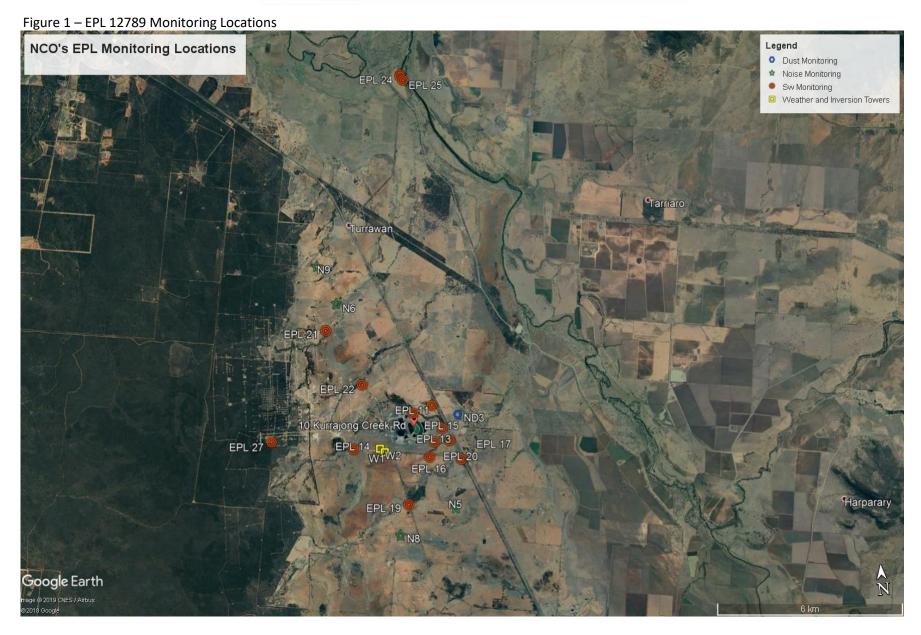
EPL ID	Date	Measured Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) Leq 15min	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Co Co	Veath omplia ondition D/E/N	ant ons	Compliant (Yes/No)	Date Obtained
			Evening									
	13/11/2023 ³	N/M	I/A	I/A	I/A	<u>Day, Evening &</u> <u>Night:</u>	Day – 1.5 hrs	Y4	Y4	Y4	Υ	
N5 ²	14/11/2023	I/A	N/M	<25	27	35 <u>Night</u>	Evening – 0.5 hrs	Υ	Υ	Υ	Υ	
	15/11/2023 ³	35	25	N/M	N/M	<u>La1 (1 min):</u> 45	Night – 1 hr	Υ	Υ	Υ	Υ	
	13/11/20233	N/M	26	<25	25	Day, Evening & Night:	Day – 1.5 hrs	Y4	Y4	N4	Υ	
N6	14/11/2023	27	27	27	32	35 <u>Night</u>	Evening – 0.5 hrs	Y4	Υ	Υ	Υ	
	15/11/2023 ³	32	25	N/M	N/M	L _{A1 (1 min)} : 45	Night – 1 hr	Υ	Υ	Υ	Υ	12/12/2022
	13/11/20233	30	I/A	I/A	I/A	Day, Evening & Night:	Day – 1.5 hrs	Y4	N4	Y4	Υ	12/12/2023
N8 ²	14/11/2023	33	31	31	39	35 <u>Night</u>	Evening – 0.5 hrs	Υ	Υ	Υ	Υ	
	15/11/20233	34	N/M	25	27	<u>L_{A1 (1 min)}:</u> 45	Night – 1 hr	Υ	Υ	Υ	Υ	
	13/11/20233	I/A	32	I/A	I/A	Day, Evening & Night:	Day – 1.5 hrs	Y4	Y4	N4	Υ	
N9 ²	14/11/2023	I/A	I/A	32	38	35 <u>Night</u>	Evening – 0.5 hrs	Y4	Υ	N	Υ	
	15/11/2023 ³	30	N/M	30	35	<u>L_{A1 (1 min)}:</u> 45	Night – 1 hr	Υ	Υ	Υ	Υ	

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.





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/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	12/12/2023	04/01/2024	NA	NA	NA	1.1				
11	Conductivity	μs/cm	In situ	Upon discharge											
(SD4)	тос	mg/L	Lab Analysis	(within 12 hours)	No discharge occurred during sampling period (SD4)										
13	Conductivity	μs/cm	In situ	Upon discharge											
(SD2)	тос	mg/L	Lab Analysis	(within 12 hours)	No discharge occurred during sampling period (SD2)										
	Conductivity	μs/cm	In situ	In the event											
	TOC mg/I Lab of flow durin	of flow during the quarter &													
14 (KC1US)	Oil & Grease	mg/L	Lab Analysis	after each wet weather	No flow events and/or mine discharge occurred during sampling period (KC1US)										
	рН	рН	In situ	discharge											
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27											
	Conductivity	μs/cm	In situ	In the event											
	тос	mg/L	Lab Analysis	of flow during the quarter &	No flow events and/or mine discharge occurred during sampling period (KC1DS)										
15 (KC1DS)	Oil & Grease	mg/L	Lab Analysis	after each wet weather											
	рН	рН	In situ	discharge											
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27											

	Conductivity	μs/cm	In situ	In the event							
	тос	mg/L	Lab Analysis	of flow during the quarter &							
16 (KC2US)	Oil & Grease	mg/L	Lab Analysis	after each wet weather	No flow events and/or mine discharge occurred during sampling period (KC2US)						
	рН	рН	In situ	discharge							
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27							
	Conductivity	μs/cm	In situ	In the event							
	тос	mg/L	Lab Analysis	of flow during the quarter &							
17 (KC2DS)	Oil & Grease	mg/L	Lab Analysis	after each wet weather	No flow events and/or mine discharge occurred during sampling period (KC2DS)						
	рН	рН	In situ	discharge							
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27							
18	Conductivity	μs/cm	In Situ	Upon discharge	No discharge account during a graphic provided (CD7)						
(SD7)	тос	mg/L	Lab Analysis	(within 12 hours)	No discharge occurred during sampling period (SD7)						
	Conductivity	μs/cm	In situ	In the event							
10	тос	mg/L	Lab Analysis	of flow during the quarter & after each							
19 (KCUS)	Oil & Grease	mg/L	Lab Analysis	wet weather discharge	No flow events and/or mine discharge occurred during sampling period (KCUS)						
	рН	рН	In situ	from points							
	TSS	mg/L	Lab Analysis	11, 13, 18,27							
	Conductivity	μs/cm	In situ	In the event							
20	тос	mg/L	Lab Analysis	of flow during the quarter &	No flow events and/or mine discharge occurred during sampling period (KCDS)						
(KCDS)	Oil & Grease	mg/L	Lab Analysis	after each wet weather							
	рН	рН	In situ	discharge							

Conductivity µs/cm In situ TOC mg/L Lab Analysis Lab Analysis TSS mg/L Lab Analysis TSS TSS mg/L Lab Analysis TSS		I		1	I			
Conductivity µs/cm In situ In the event of flow during the quarter & after each wetweather discharge No flow events and/or mine discharge occurred during sampling period (PCa)				from points	Lab	mg/L	TSS	
TOC mg/L Lab Analysis of flow during the quarter & after each wet weather discharge period (PCa) Point				11, 13, 18,27	-	_		
Conductivity Lab Analysis Lab Analysis TSS mg/L Lab Analysis TOC mg/L Lab Analysis TSS mg/L Lab TSS TSS mg/L Lab TSS T				In the event		μs/cm	Conductivity	
Conductivity ps/cm Lab Analysis TSS mg/L Lab Analysis (within 4 hrs) Namoi discharge point – Not constructed or currently utilised (NR1) 25				_		mg/I	TOC	
PCa Dil & Grease mg/L Analysis pH pH In situ TSS mg/L Analysis Analysis TDS mg/L Analysis Discharge Manoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRDS) Namoi discharge point – Not constructed or currently utilised (NRDS) Namoi discharge point – Not constructed or currently utilised (NRDS) Namoi discharge point – Not constructed or currently utilised (NRDS) Namoi discharge point – Not constructed or currently utilised (NRDS) Namoi discharge point – Not constructed or currently utilised (NRDS) Namoi discharge point – Not constructed or currently utilised (NRDS) Namoi discharge point – Not constructed or currently utilised (NRDS) Namoi discharge point – Not constructed or currently utilised (NRDS) Namoi discharge point – Not constructed or currently utilised (NRDS)				1		9/ -	100	
PH	rina samplina period (PCa)	No flow events and/or mine discharae occurred du	1			mg/L	Oil & Grease	
TSS mg/L lab Analysis 11, 13, 18,27 Conductivity		,			-	_		(PCa)
TSS mg/L Analysis 11, 13, 18,27 Conductivity µs/cm In situ In the event of flow during the quarter & after each Analysis per properties of flow during the quarter & after each Analysis per properties of flow during the quarter & after each Analysis per properties of flow during the quarter & after each Analysis per properties of flow during the quarter & after each Analysis per properties of flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1) No flow events and/or mine discharge occurred during sampling period (PC1)				_		рН	рН	
Conductivity µs/cm				· ·		mg/L	TSS	
TOC mg/L Lab Analysis of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27 Analysis Discharge Di				11, 13, 18,27		_		
TOC mg/L Analysis the quarter & after each wet weather discharge from points 11, 13, 18,27 PH				In the event		μs/cm	Conductivity	
22				_		mg/L	TOC	
Oil & Grease mg/L Analysis wet weather discharge from points 11, 13, 18,27				1	-	6/ -		
PH	ring sampling period (PC1)	No flow events and/or mine discharge occurred du			mg/L	Oil & Grease		
TSS mg/L Lab from points 11, 13, 18,27 pH pH ln situ Upon Discharge (within 4 hrs) pH pH ln situ Upon Discharge (within 4 hrs) pH pH ln situ Upon Discharge (within 4 hrs) pH pH ln situ Upon Discharge (within 4 hrs) TDS mg/L Lab Analysis (within 4 hrs) TDS mg/L Lab Analysis (within 4 hrs) TDS mg/L Lab Discharge (within 4 hrs) TDS mg/L Lab Discharge (within 4 hrs) TDS mg/L Lab Discharge Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRDS)	5 , 5, , ,	,				_	<u> </u>	(PC1)
TSS mg/L Analysis 11, 13, 18,27 24 (NR1) TDS mg/L Lab Analysis (within 4 hrs) 25 (NRUS) TDS mg/L Lab Analysis (within 4 hrs) 26 (NRDS) TDS mg/L Lab Discharge (NRDS) TDS mg/L Lab Discharge (Within 4 hrs) 11, 13, 18,27 Discharge (within 4 hrs) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRDS)				_		рН	рН	
PH			•		mg/L	TSS		
TDS mg/L Lab Analysis Discharge (within 4 hrs)				11, 13, 10,27	Anaiysis			
TDS mg/L Lab Analysis Namoi discharge point - Not constructed or currently utilised (NRI)				Upon	In situ	рН	рН	24
DS	urrently utilised (NR1)	Namoi discharge point – Not constructed or c		Discharge	Lah			
PH				(within 4 hrs)		mg/L	TDS	(IAUT)
25 (NRUS) TDS mg/L Lab Analysis Discharge (within 4 hrs) 26 (NRDS) TDS mg/L Lab Discharge (within 4 hrs) Upon Discharge Namoi discharge point – Not constructed or currently utilised (NRUS) Namoi discharge point – Not constructed or currently utilised (NRDS)	-						-11	
(NRDS) TDS mg/L Lab Analysis (within 4 hrs) 26 pH pH ln situ Upon (NRDS) TDS mg/L Lab Discharge Namoi discharge point – Not constructed or currently utilised (NRDS)	respective utilized (ALPLIC)	Namoi disabaraa naint. Nat assatuustad assa				рн	рн	25
26 pH pH In situ Upon (NRDS) TDS mg/L Lab Discharge Namoi discharge point – Not constructed or currently utilised (NRDS)	rrentiy utilisea (NKUS)	ivarrioi aiscnarge point – Not constructed or cu		_		mg/I	TDS	
(NRDS) TDS mg/l Lab Discharge Namoi discharge point – Not constructed or currently utilised (NRDS)				(WILIIII 4 IIIS)	Analysis	_	.23	
TDS mg/l					In situ	pН	рН	26
103 116/	rrently utilised (NRDS)	Namoi discharge point – Not constructed or cι		_	Lab	mg/I	TDS	(NRDS)
Analysis (main may				(within 4 hrs)	Analysis	ilig/ L	103	
Conductivity μs/cm In situ 0		0		In situ	μs/cm	Conductivity		
pH pH In situ 0					In situ	рН	рН	2.0
28 SWL mbtoc In situ Quarterly 0 Bore was dry during sampling period	ımpling period					mbtoc	SWL	
l lah					Lab		Diagraphy	(F20)
Bicarbonate mg/L Analysis 0		0				mg/L	Bicarbonate	

	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						
	Conductivity	μs/cm	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	15200
	рН	рН	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
29	Calcium	mg/L	Lab Analysis	Quarterly	1	22/12/2023	10/01/2024	NA	NA	NA	106
(P29)	Carbonate	mg/L	Lab Analysis	Quarterly	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

	1		1		I						1	
	Sulphate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	637	
	Conductivity	μs/cm	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	16700	
	рН	рН	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	
30 (P30)	Carbonate	mg/L	Lab Analysis	Quarterly	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	
	Conductivity	μs/cm	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	6860	
	рН	рН	Lab Analysis	Quarterly	Quarterly	1	22/12/2023	10/01/2024	NA	NA	NA	7.40
31 (P31)	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
	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								
	Conductivity	μs/cm	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	1810								
	рН	рН	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								
32 (P32)	Carbonate	mg/L	Lab Analysis	Quarterly	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								

	Conductivity	μs/cm	Lab Analysis		0	22/12/2023	10/01/2024	NA	NA	NA	1580		
	рН	рН	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	Quarterly	0	22/12/2023	10/01/2024	NA	NA	NA	<1		
33	Chloride	mg/L	Lab Analysis		0	22/12/2023	10/01/2024	NA	NA	NA	351		
(P33)	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		
	Conductivity	μs/cm	In situ		0								
	рН	рН	In situ		0								
	SWL	mbtoc	In situ		0								
	Bicarbonate	mg/L	Lab Analysis		0								
34 (P34)	Calcium	mg/L	Lab Analysis	Quarterly	0		Bor	e was dry durir	ng sampling per	riod			
(F34)	Carbonate	mg/L	Lab Analysis	Quarterly	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						
	Conductivity	μs/cm	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	11500
	рН	рН	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
35 (P58)	Carbonate	mg/L	Lab Analysis	Quarterly	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	Conductivity	μs/cm	In situ		0						
(P83)	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis	Monthly	0		Bor	e was dry duri	ng sampling per	riod	
	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		1	14/12/2023	16/01/2024	NA	NA	NA	18270
	pН	pН	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	Monthly	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	Conductivity	μs/cm	In situ		0						
(P85)	рН	рН	In situ	Monthly	0	1	Bor	e was dry duri	ng sampling pe	riod	
	SWL	mbtoc	In situ		0	1					

	Bicarbonate	mg/L	Lab		0	
			Analysis			
	Calcium	mg/L	Lab		0	
			Analysis			
	Carbonate	mg/L	Lab		0	
			Analysis			
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab		0	-
	Widgitestatii	1116/ -	Analysis			
	Potassium	mg/L	Lab		0	-
			Analysis			
	Sodium	mg/L	Lab		0	
			Analysis			
	Sulfate	mg/L	Lab		0	
			Analysis			
39 (P88)	Conductivity	μs/cm	In situ		0	
	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab		0	
			Analysis			
	Calcium	mg/L	Lab		0	
			Analysis			
	Carbonate	mg/L	Lab		0	
			Analysis	Monthly		
	Chloride	mg/L	Lab	,	0	Bore was dry during sampling period
			Analysis			-
	Magnesium	mg/L	Lab		0	
	Detections	/I	Analysis		0	-
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab		0	-
	Journ	™6/ -	Analysis			
	Sulfate	mg/L	Lab		0	1
		o,	Analysis			

40 (P89)	Conductivity	μs/cm	In situ		0	
	рН	pН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	Bore was dry during sampling period
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis	Monthly	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)
	TSS	mg/L	Lab Analysis		0						50	NA	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during	sampling period	1	10	NA	SD4
	рН	рН	In situ		0						6.5- 8.5	NA	
	TSS	mg/L	Lab Analysis		0						50	NA	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	1	10	NA	SD2		
	рН	рН	In situ	_	0				6.5- 8.5	NA			
	TSS	mg/L	Lab Analysis		0						50	NA	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during s	sampling period	,	10	NA	SD7
	рН	рН	In situ		0						6.5- 8.5	NA	
	TDS	mg/L	Lab Analysis	Upon	0	., .					350	NA	
24	рН	рН	In situ	discharge	0	Namoi	discharge point	utilised.	6.5- 8.5	NA	NR1		
	TSS	mg/L	Lab Analysis		0							NA	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during sampling period						NA	SD8
	рН	рН	In situ		0							NA	

Table 3 – Quarterly Attended Noise Monitoring results summary table

EPL ID	Date	Measured Levels –	Measured Levels –	Measured Levels –	Measured Levels –	Limit(s)	Measurement Periods		Veath		Compliant (Yes/No)	Date Obtained
		dB(A)	dB(A)	dB(A)	dB(A)		renous		nditio		(163/140)	Obtained
		Leg 15min Day	Leg 15min	Leg 15min Night	LA1 (1 min) Night				D/E/N			
		_eq 15 5u,	Evening	_cq 13	- 12 (2)g			,	-,-,:	-,		
	13/11/2023 ³	N/M	I/A	I/A	I/A	Day, Evening & Night:	Day – 1.5 hrs	Y ⁴	Y ⁴	Υ ⁴	Υ	
N=1	14/11/20233	I/A	N/M	<25	27	35	Evening – 0.5	Υ	Υ	Υ	Υ	
N5 ¹						<u>Night</u>	hrs					
	15/11/2023 ³	35	25	N/M	N/M	<u>L_{A1 (1 min)}:</u>		Υ	Υ	Υ	Υ	
						45	Night – 1 hr					
	13/11/2023	N/M	26	<25	25	Day, Evening &	Day – 1.5 hrs	Y ⁴	Y ⁴	N^4	Υ	
	14/11/2023	27	27	27	32	Night:	5i 0.5	Y ⁴	Υ	Υ	Υ	
N6	14/11/2025	27	27	27	32	35 <u>Night</u>	Evening – 0.5 hrs	Y	Y	Y	Y	
	15/11/2023	32	25	N/M	N/M	<u> </u>	1113	Υ	Υ	Υ	Υ	
				,	,	45	Night – 1 hr				•	42/42/2022
	13/11/20233	30	I/A	I/A	I/A	Day, Evening &	Day – 1.5 hrs	Y ⁴	N^4	Y ⁴	Υ	12/12/2023
						Night:	•					
N8 ¹	14/11/2023 ³	33	31	31	39	35	Evening – 0.5	Υ	Υ	Υ	Υ	
INO						<u>Night</u>	hrs					
	15/11/2023 ³	34	N/M	25	27	<u>L_{A1 (1 min)}:</u>		Υ	Υ	Υ	Υ	
						45	Night – 1 hr					
	13/11/2023	I/A	32	I/A	I/A	Day, Evening &	Day – 1.5 hrs	Y ⁴	Y ⁴	N^4	Υ	
						<u>Night:</u>						
N9 ¹	14/11/2023	I/A	I/A	32	38	35	Evening – 0.5	Y ⁴	Υ	N	Υ	
	15/11/2022	20	NI/NA	20	25	<u>Night</u>	hrs					
	15/11/2023	30	N/M	30	35	<u>L_{A1 (1 min)}:</u> 4 5	Night 1 hr	Υ	Υ	Υ	Υ	
					1	45	Night – 1 hr					

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.

