

# 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 2024 Obtained Date: 08/02/2024 Publication Date: 15/02/2024



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	12/01/2024	08/02/2024	NA	NA	NA	0.9			
11	Conductivity	μs/cm	In situ	Upon discharge		No	discharge occu	rrad during car	nnling period (S					
(SD4)	тос	mg/L	Lab Analysis	(within 12 hours)	No discharge occurred during sampling period (SD4)									
13	Conductivity	μs/cm	In situ	Upon discharge	No discharge occurred during sampling period (SD2)									
(SD2)	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 (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 &										
15 (KC1DS)	Oil & Grease	mg/L	Lab Analysis	after each wet weather	N	o flow events a	nd/or mine disc	harge occurred	l during samplii	ng period (KC1D	s)			
	рН	рН	In situ	discharge										
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27										

## Table 1 – No Pollutant Limits Apply



	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						
(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 (КСUS)	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						



	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 (PCa)	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 (PC1)	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	Namoi discharge point – Not constructed or currently utilised (NR1)							
(NR1)	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)								
25	рН	рН	In situ	Upon								
(NRUS)	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRUS)						
26	рН	рН	In situ	Upon								
(NRDS)	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRDS)						
	Conductivity	μs/cm	In situ		0							
20	рН	рН	In situ	]	0							
28 (P28)	SWL	mbtoc	In situ	Quarterly	0	Not scheduled for sampling during sampling period						
(120)	Bicarbonate	mg/L	Lab Analysis		0							



	Calcium	mg/L	Lab Analysis		0										
	Carbonate	mg/L	Lab Analysis		0										
	Chloride	mg/L	Lab		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		0										
	рН	рН	Lab Analysis		0										
	SWL	mbtoc	Lab Analysis					-						0	
	Bicarbonate	mg/L	Lab Analysis										0		
29	Calcium	mg/L	Lab Analysis					0	Not scheduled for sampling during sampling period						
(P29)	Carbonate	mg/L	Lab Analysis	Quarterly	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										



					0					
	Sulphate	mg/L	Lab Analysis							
	Conductivity	μs/cm	Lab Analysis		0					
	рН	рН	Lab Analysis		0					
	SWL	mbtoc	Lab Analysis		0					
	Bicarbonate	mg/L	Lab Analysis		0					
	Calcium	mg/L	Lab Analysis	Quarterly	0					
30 (P30)	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
	Sulphate	mg/L	Lab Analysis		0					
	Conductivity	μs/cm	Lab Analysis		0					
	рН	рН	Lab Analysis		0					
31 (P31)	SWL	mbtoc	Lab Analysis	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		0										
	Potassium	mg/L	Lab Analysis		0										
	Sodium	mg/L	Lab Analysis		0										
	Sulphate	mg/L	Lab Analysis		0										
	Conductivity	μs/cm	Lab Analysis		0										
	рН	рН	Lab Analysis		0										
	SWL	mbtoc	Lab Analysis	Quarterly	Quarterly	Quarterly	0								
	Bicarbonate	mg/L	Lab Analysis											0	
	Calcium	mg/L	Lab Analysis					0							
32 (P32)	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								
	Sulphate	mg/L	Lab Analysis		0										



	Conductivity	μs/cm	Lab		0											
	Conductivity	μs/cm	Analysis													
	рН	pН	Lab		0											
	P11	pri	Analysis													
	SWL	mbtoc	Lab		0											
			Analysis													
	Bicarbonate	mg/L	Lab		0											
			Analysis Lab		0											
	Calcium	mg/L	Lab Analysis		0											
			Lab		0											
	Carbonate	mg/L	Analysis	Quarterly	Ŭ	Not scheduled for sampling during sampling period										
	Chilevida		Lab		0											
33	Chloride	mg/L	Analysis													
(P33)	Magnesium	mg/L	Lab		0											
	Wagnesiam	ilig/ L	Analysis													
	Potassium	mg/L	Lab		0											
			Analysis													
	Sodium	mg/L	Lab			0										
			Analysis						0							
	Sulphate	mg/L	Lab Analysis		0											
	Conductivity	μs/cm	In situ		0											
	рН	рН	In situ		0											
	SWL	mbtoc	In situ		0											
			Lab		0											
	Bicarbonate	mg/L	Analysis		-											
		4	Lab	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	0				
34 ( <i>P34</i> )	Calcium	mg/L	Analysis									Quarterly	Quarterly	Quarterly	Quarterly	Quarterly
(1:34)	Carbonate	mg/L	Lab		0											
	Carbonate	IIIg/L	Analysis													
	Chloride	mg/L	Lab	-	0											
			Analysis													
	Magnesium	mg/L	Lab		0											
		0,	Analysis													



	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulphate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	Lab Analysis		0						
	рН	рН	Lab Analysis		0						
	SWL	mbtoc	Lab Analysis	Quarterly	0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
35 (P58)	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						
36		μs/cm	In situ		0						
(P83)	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0	Not scheduled for sampling during sampling period					
	Bicarbonate	mg/L	Lab Analysis	Quarterly	0						
	Calcium	mg/L	Lab Analysis		0						



	Carbonate	mg/L	Lab Analysis		0			
	Chloride	mg/L	Lab Analysis		0			
	Magnesium	mg/L	Lab Analysis		0			
	Potassium	mg/L	Lab Analysis		0			
	Sodium	mg/L	Lab Analysis		0			
	Sulphate	mg/L	Lab Analysis		0			
37 (P84)	Conductivity	μs/cm	In situ		0			
	рН	рН	In situ		0			
	SWL	mbtoc	In situ		0			
	Bicarbonate	mg/L	Lab Analysis	Quarterly	Quarterly	0		
	Calcium	mg/L	Lab Analysis			Questarlu	0	
	Carbonate	mg/L	Lab Analysis				Quartarly	0
	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			
	Sulphate	mg/L	Lab Analysis		0			
38	Conductivity	μs/cm	In situ		0			
(P85)	рН	pН	In situ		0			
	SWL	mbtoc	In situ		0			



	Bicarbonate	mg/L	Lab Analysis		0			
	Calcium	mg/L	Lab		0			
	Carbonate	mg/L	Analysis Lab		0			
			Analysis			Not object and for exampling during energies and		
	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			
39 (P88)	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	Not scheduled for sampling during sampling period		
	Chloride	mg/L	Lab Analysis	Quarterly	0			
	Magnesium	mg/L	Lab Analysis		0			
	Potassium	mg/L	Lab Analysis	-	0			
	Sodium	mg/L	Lab Analysis		0			
	Sulfate	mg/L	Lab Analysis		0			



40 (P89)	Conductivity	μs/cm	In situ		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	Not scheduled for sampling during sampling period									
	Chloride	mg/L	Lab Analysis	Quarterly	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			<u>^</u>	<u>`</u>		50	NA	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	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	10	NA	SD2			
	pН	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	sampling period	,	10	NA	SD7
	pН	рН	In situ		0						6.5- 8.5	NA	
	TDS	mg/L	Lab Analysis	Upon	0						350	NA	
24	pН	рН	In situ	discharge	0	Namoi	discharge point	6.5- 8.5	NA	NR1			
	TSS	mg/L	Lab Analysis	<u>.</u>	0				50	NA	<u>.</u>		
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	10	NA	SD8			
	рН	рН	In situ		0						6.5- 8.5	NA	



## Table 3 – Quarterly Attended Noise Monitoring results summary table

Nosie monitoring not scheduled in January. Next scheduled sampling is for March 2024.

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



Figure 1 – EPL 12789 Monitoring Locations





# NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789 EPA Website Link: http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789 Licensee: Narrabri Coal Operations Pty Ltd Licensee Address: Narrabri Mine, 10 Kurrajong Creek Road, BAAN BAA NSW 2390 EPL Monitoring Points: See Figure 1 below Sampling Period: February 2024 Obtained Date: 14/03/2024 Publication Date: 19/03/2024



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	15/02/2024	14/03/2024	NA	NA	NA	0.5	
11	Conductivity	μs/cm	In situ	Upon discharge		No	discharge occu	rrad during car	nnling period (S			
(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)								
	Conductivity	μs/cm	In situ	In the event	f flow during							
	тос	mg/L	Lab Analysis	of flow during the quarter &								
14 (KC1US)	Oil & Grease	mg/L	Lab Analysis	after each wet weather	N	o flow events a	nd/or mine disc	harge occurred	l during sampliı	ng period (KC1L	'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 &								
15 (KC1DS)	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								
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27								

## Table 1 – No Pollutant Limits Apply



	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 accurred during sampling pariod (SD7)				
(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 (КСUS)	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					



	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 (PCa)	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 (PC1)	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	Name i dischause point. Nat constructed ar currently utilized (A104)						
(NR1)	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: discharge point. Not constructed or currently utilized (NDUC)					
(NRUS)	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRUS)					
26	рН	рН	In situ	Upon							
(NRDS)	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRDS)					
	Conductivity	μs/cm	In situ		0						
20	рН	рН	In situ	Quarterly	0						
28 (P28)	SWL	mbtoc	In situ		0	Not scheduled for sampling during sampling period					
(120)	Bicarbonate	mg/L	Lab Analysis		0						



	Calcium	mg/L	Lab Analysis		0								
	Carbonate	mg/L	Lab Analysis		0								
	Chloride	mg/L	Lab		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		0								
	рН	рН	Lab Analysis		0								
	SWL	mbtoc	Lab Analysis		0								
	Bicarbonate	mg/L	Lab Analysis		0								
29	Calcium	mg/L	Lab Analysis							Quartadu	Questadu	0	Not scheduled for sampling during sampling period
(P29)	Carbonate	mg/L	Lab Analysis	Quarterly	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								



	Sulphate	mg/L	Lab Analysis		0				
	Conductivity	μs/cm	Lab Analysis		0				
	рН	рН	Lab Analysis		0				
	SWL	mbtoc	Lab Analysis		0				
	Bicarbonate	mg/L	Lab Analysis		0				
	Calcium	mg/L	Lab Analysis		0				
30 (P30)	Carbonate	mg/L	Lab Analysis	Quarterly	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				
	Sulphate	mg/L	Lab Analysis		0				
	Conductivity	μs/cm	Lab Analysis		0				
	рН	рН	Lab Analysis		0				
31 (P31)	SWL	mbtoc	Lab Analysis	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		0								
	Potassium	mg/L	Lab Analysis		0								
	Sodium	mg/L	Lab Analysis		0								
	Sulphate	mg/L	Lab Analysis		0								
	Conductivity	μs/cm	Lab Analysis		0								
	рН	рН	Lab Analysis		0								
	SWL	mbtoc	Lab Analysis		0								
	Bicarbonate	mg/L	Lab Analysis									0	
	Calcium	mg/L	Lab Analysis					0					
32 (P32)	Carbonate	mg/L	Lab Analysis	Quarterly	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								
	Sulphate	mg/L	Lab Analysis		0								



	Conductivity	μs/cm	Lab Analysis		0	
	рН	рН	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during sampling period
33	Chloride	mg/L	Lab Analysis		0	
(P33)	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	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	Not scheduled for sampling during sampling period
(1 37)	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		0	
	рН	рН	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
35 (P58)	Carbonate	mg/L	Lab Analysis	Quarterly	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	
36	Conductivity	μs/cm	In situ		0	
(P83)	рН	рН	In situ		0	
	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		
	Sulphate	mg/L	Lab Analysis		0		
37 (P84)	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	
	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		
	Sulphate	mg/L	Lab Analysis		0		
38	Conductivity	μs/cm	In situ		0		
(P85)	рН	pН	In situ		0		
	SWL	mbtoc	In situ		0		



	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab		0	
	Carbonate mg/L	Analysis Lab		0		
			Analysis			Not object and for exampling during energies and
	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	
39 (P88)	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	Not scheduled for sampling during sampling period
	Chloride	mg/L	Lab Analysis	Quarterly	0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	



40 (P89)	Conductivity	μs/cm	In situ		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	Not scheduled for sampling during sampling period
	Chloride	mg/L	Lab Analysis	Quarterly	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			<u>^</u>	<u>`</u>		50	NA	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during	sampling period	,	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	ccurred during	sampling period		10	NA	SD2
	pН	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	sampling period	,	10	NA	SD7
	pН	pН	In situ		0						6.5- 8.5	NA	
	TDS	mg/L	Lab Analysis	Upon	0						350	NA	
24	pН	рН	In situ	discharge	0	— Namoi discharge point – Not constructed or currently utilised.					6.5- 8.5	NA	NR1
	TSS	mg/L	Lab Analysis	<u>.</u>	0						50	NA	<u>.</u>
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		No discharge o	ccurred during	sampling period	,	10	NA	SD8
	рН	рН	In situ		0						6.5- 8.5	NA	



## Table 3 – Quarterly Attended Noise Monitoring results summary table

Nosie monitoring not scheduled in February. Next scheduled sampling is for March 2024.

EPL ID	Date	Measured Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) L <sub>eq 15min</sub> Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)	Compliant (Yes/No)	Date Obtained
N5 <sup>1</sup>						Day, Evening & Night: 35 <u>Night</u> LA1 (1 min): 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr			
N6						Day, Evening & <u>Night:</u> 35 <u>Night</u> La1 (1 min): 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr			
N8 <sup>1</sup>						Day, Evening & <u>Night:</u> 35 <u>Night</u> La1 (1 min): 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr			
N9 <sup>1</sup>						Day, Evening & <u>Night:</u> 35 <u>Night</u> LA1 (1 min): 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr			



# Figure 1 – EPL 12789 Monitoring Locations



#### WHITEHAVEN COAL

### LEGEND

Watercourses

- ML1609 Monito
  - Surface water quality mor
  - Licenced discharge point
  - Ambient air quality monitoring
  - Groundwater monitoring standpipe singl
    Meteorological station
  - Meteorological sta
    Noise monitoring
  - O Noise monitoring



#### NARRABRI MINE

Figure 1 EPL 12789 Monitoring Locations February 2024



# 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 2024 Obtained Date: 9/4/2024 Publication Date: 19/04/2024



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	14/03/2024	03/04/2024	NA	NA	NA	0.5
11	Conductivity	μs/cm	In situ	Upon discharge		<b>N</b> /-	diaabayyaa	unad dunia a an		(04)	
(SD4)	тос	mg/L	Lab Analysis	(within 12 hours)		NO	discharge occu	rrea auring sar	npiing perioa (	SD4)	
	Conductivity	μs/cm	In situ	Upon							
13 (SD2)	тос	mg/L	Lab Analysis	discharge (within 12		No	discharge occu	rred during sar	npling period (	SD2)	
	тос	mg/L	Lab Analysis	hours)							
	Conductivity	μs/cm	In situ	In the event	0		NA	<b>.</b>	NA	NA	NA
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	Ambient Fl	ow NA		NA	NA	NA
14 (KC1US)	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	20/03/24 (quarterly ch	neck NA	x	NA	NA	NA
(	рН	рН	In situ	discharge	0	completed, flow)	no NA		NA	NA	NA
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27, 43	0	nowy	NA	х	NA	NA	NA
	Conductivity	μs/cm	In situ	In the event	0		NA	<b>x</b>	NA	NA	NA
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	Ambient Fl	ow NA	x	NA	NA	NA
15 (KC1DS)	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	20/03/24 (quarterly ch	neck NA	x	NA	NA	NA
(10100)	рН	рН	In situ	discharge	0	completed, flow)	no NA		NA	NA	NA
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27, 43	0	1000)	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 (KC2US)	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	20/03/24 (quarterly check	NA	NA	NA	NA
(10203)	рН	рН	In situ	discharge	0	completed, no flow)	NA	NA	NA	NA
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27, 43	0	nowy	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
17 (KC2DS)	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	20/03/24 (quarterly check	NA	NA	NA	NA
(RC2D3)	рН	рН	In situ	discharge	0	completed, no flow)	NA	NA	NA	NA
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27,43	0	nowj	NA	NA	NA	NA
18	Conductivity	μs/cm	In Situ	Upon discharge					( ( )	
(SD7)	тос	mg/L	Lab Analysis	(within 12 hours)		No discr	narge occurred dur	ing sampling perio	od (SD7)	
	Conductivity	μs/cm	In situ	In the event of flow during	0		NA	NA	NA	NA
10	тос	mg/L	Lab Analysis	the quarter & after each	0	Ambient Flow 20/03/24	NA	NA	NA	NA
19 (KCUS)	Oil & Grease	mg/L	Lab Analysis	wet weather discharge	0	(quarterly check completed, no	NA	NA	NA	NA
	рН	рН	In situ	from points	0	flow)	NA	NA	NA	NA
	TSS	mg/L	Lab Analysis	11, 13, 18,27,43	0		NA	NA	NA	NA
	Conductivity	μs/cm	In situ	In the event	0	Ambient Flow	NA	NA	NA	NA
20 (KCDS)	тос	mg/L	Lab Analysis	of flow during the quarter &	0	20/03/24 (quarterly check	NA	NA	NA	NA
(1003)	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	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, 18,27,43	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 (PCa)	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	20/03/24 (quarterly 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, 18,27,43	0	now	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
22 (PC1)	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	20/03/24 (quarterly check	NA	NA	NA	NA
(1 C1)	рН	рН	In situ	discharge	0	completed, no flow	NA	NA	NA	NA
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27,43	0	now	NA	NA	NA	NA
24	рН	рН	In situ	Upon						
(NR1)	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi dischar	ge point – Not cons	tructed or currently	utilised (NR1)	
25	рН	рН	In situ	Upon						
(NRUS)	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi dischar <u>o</u>	ge point – Not const	ructed or currently	utilised (NRUS)	
26	рН	рН	In situ	Upon						
(NRDS)	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)		Namoi discharg	ge point – Not const	ructed or currently	utilised (NRDS)	
20	Conductivity	μs/cm	In situ		0					
28 (P28)	рН	рН	In situ	Quarterly	0		Bore was	dry during sampling	ı period	
(1 20)	SWL	mbtoc	In situ		0					



	Bicarbonate	mg/L	Lab		0						
	Calcium	mg/L	Analysis Lab		0						
			Analysis Lab								
	Carbonate	mg/L	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	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	16460
	рН	pН	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	7.38
	SWL	mbtoc	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	5.18
	Bicarbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	652
	Calcium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	126
29 (P29)	Carbonate	mg/L	Lab Analysis	Quarterly	1	20/03/2024	05/04/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	5050
	Magnesium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	284
	Potassium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	6
	Sodium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	3090



			Lab		1						
	Sulphate	mg/L	Analysis			20/03/2024	05/04/2024	NA	NA	NA	606
	Conductivity	μs/cm	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	16800
	рН	рН	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	7.1
	SWL	mbtoc	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	12.07
	Bicarbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	856
	Calcium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	146
30	Carbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	<1
(P30)	Chloride	mg/L	Lab Analysis	Quarterly	1	20/03/2024	05/04/2024	NA	NA	NA	4850
	Magnesium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	357
	Potassium	mg/L	Lab Analysis	-	1	20/03/2024	05/04/2024	NA	NA	NA	17
	Sodium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	3160
	Sulphate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	813
	Conductivity	μs/cm	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	6760
	рН	рН	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	7.31
	SWL	mbtoc	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	16.47
31	Bicarbonate	mg/L	Lab Analysis	Quarterly	1	20/03/2024	05/04/2024	NA	NA	NA	837
(P31)	Calcium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	86
	Carbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	1650



	Magnesium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	161
	Potassium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	12
	Sodium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	1210
	Sulphate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	287
	Conductivity	μs/cm	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	1989
	рН	pН	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	8.29
	SWL	mbtoc	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	8.16
	Bicarbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	835
	Calcium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	2
32	Carbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	43
(P32)	Chloride	mg/L	Lab Analysis	Quarterly	1	20/03/2024	05/04/2024	NA	NA	NA	101
	Magnesium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	5
	Potassium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	<1
	Sodium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	501
	Sulphate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	62
	Conductivity	μs/cm	In situ		0	20/03/2024	05/04/2024	NA	NA	NA	16490
	рН	рН	In situ		0	20/03/2024	05/04/2024	NA	NA	NA	7.23
	SWL	mbtoc	In situ		0	20/03/2024	05/04/2024	NA	NA	NA	15.28
	Bicarbonate	mg/L	Lab Analysis	Quarterly	0	20/03/2024	05/04/2024	NA	NA	NA	774
33	Calcium	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	94



(P33)	Carbonate	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	5090
	Magnesium	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	287
	Potassium	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	12
	Sodium	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	3500
	Sulphate	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	893
	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	-					
34 (P34)	Chloride	mg/L	Lab Analysis	Quarterly	0	-	B	ore was dry duri	ng sampling perio	od	
	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	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	11960
35 ( <i>P58)</i>	рН	рН	In situ	Quarterly	1	20/03/2024	05/04/2024	NA	NA	NA	6.93
(150)	SWL	mbtoc	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	19.95



	Bicarbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	4940
	Calcium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	37
	Carbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	1590
	Magnesium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	70
	Potassium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	79
	Sodium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	2990
	Sulfate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	100
36	Conductivity	μs/cm	In situ		0				·	·	
(P83)	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 Analysis		0		В	ore was dry duri	ng sampling perio	od	
	Chloride	mg/L	Lab Analysis	Monthly	0						
	Magnesium	mg/L	Lab Analysis		0	1					
	Potassium	mg/L	Lab Analysis		0	1					
	Sodium	mg/L	Lab		0	-					
	Sulphate	mg/L	Lab Analysis		0						



37 (P84)	Conductivity	μs/cm	In situ		1	19/03/2024	08/04/2024	NA	NA	NA	18850	
	рН	рН	In situ		1	19/03/2024	08/04/2024	NA	NA	NA	6.75	
	SWL	mbtoc	In situ		1	19/03/2024	08/04/2024	NA	NA	NA	13.57	
	Bicarbonate	mg/L	Lab Analysis		1	19/03/2024	08/04/2024	NA	NA	NA	2630	
	Calcium	mg/L	Lab Analysis		1	19/03/2024	08/04/2024	NA	NA	NA	99	
	Carbonate	mg/L	Lab Analysis	Mar web ha	1	19/03/2024	08/04/2024	NA	NA	NA	<1	
	Chloride	mg/L	Lab Analysis	Monthly	1	19/03/2024	08/04/2024	NA	NA	NA	6140	
	Magnesium	ium mg/L Lab Analysis m mg/L Lab		1	19/03/2024	08/04/2024	NA	NA	NA	383		
	Potassium			1	19/03/2024	08/04/2024	NA	NA	NA	36		
	Sodium mg/L Sulphate mg/L	Lab Analysis		1	19/03/2024	08/04/2024	NA	NA	NA	4490		
	Sulphate	mg/L	Lab Analysis		1	19/03/2024	08/04/2024	NA	NA	NA	1140	
38	Conductivity	μs/cm	In situ		0							
(P85)	рН	рН	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	Monthly	0	-						
	Chloride	mg/L	Lab Analysis		0							
	Magnesium	mg/L	Lab Analysis		0							
	Potassium	mg/L	Lab Analysis		0							



	Sodium	mg/L	Lab		0		
	Souran	1112/ -	Analysis		_		
	Sulfate	mg/L	Lab		0		
	Sunate		Analysis		-		
39 ( <i>P88</i> )	Conductivity	μs/cm	In situ		0		
(100)	рН	pН	In situ		0		
	SWL	mbtoc	In situ		0		
	Bicarbonate	mg/L	Lab		0		
	bicarbonate	ilig/ L	Analysis		U U		
	Calcium	mg/L	Lab	Monthly	0		
	Calcium	iiig/ L	Analysis		, , , , , , , , , , , , , , , , , , ,		
	Carbonate	mg/L	Lab		0		
			Analysis			Bore was dry during sampling period	
	Chloride	mg/L	Lab		0		
			Analysis				
	Magnesium	mg/L	Lab		0		
			Analysis				
	Potassium	mg/L	Lab		0		
			Analysis				
	Sodium	mg/L	Lab		0		
			Analysis			-	
	Sulfate	mg/L	Lab		0		
		,	Analysis				
40 ( <i>P89</i> )	Conductivity	μs/cm	In situ		0		
. ,	рН	pН	In situ		0		
	SWL	mbtoc	In situ		0		
	Bicarbonate	mg/L	Lab		0		
		0,	Analysis				
	Calcium	mg/L	Lab	Monthly	0	Bore was dry during sampling period	
		-	Analysis				
	Carbonate		Lab		0		
		Analysis					
	Chloride	mg/L	Lab		0		



	Magnesium	mg/L	Lab		0	
			Analysis			
	Potassium	mg/L	Lab		0	
			Analysis			
	Sodium	mg/L	Lab		0	
			Analysis			
	Sulphate	mg/L	Lab		0	
			Analysis			
		,		Upon	0	
43	Conductivity	μs/cm	In situ	discharge		
			Lab	(within 12	0	No discharge occurred during sampling period (SD9)
	TOC	mg/L	Analysis	hours)		



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



#### Table 3 – Quarterly Attended Noise Monitoring results summary table

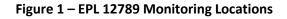
EPL ID	Date	Measured Levels — dB(A) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels — dB(A) Leq 15min Night	Levels -Levels -Limit(s)MeasurementCompldB(A)dB(A)Limit(s)PeriodsCondit		omplia	ant ons	Compliant (Yes/No)	Date Obtained		
	11/03/2024	I/A	I/A	25	30	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y	Y	Y	Y	
N5 <sup>1</sup>	12/03/2024	I/A	I/A	N/M	N/M	35 <u>Night</u>	Evening – 0.5 hrs	Y	Y	N	Y	
	13/03/2024	I/A	I/A	N/M	N/M	<u>L<sub>A1 (1 min)</sub>:</u> 45	Night – 1 hr	Y	N	N	Y	
	11/03/2024 <sup>2</sup>	I/A	N/M	N/M	N/M	<u>Day, Evening &amp;</u> <u>Night:</u>	t:YYYntFrsYYnin):Night - 1 hrYNning &Day - 1.5 hrsYNnin):Evening - 0.5YNnin):Night - 1 hrYNnin):Night - 1 hrYNning &Day - 1.5 hrsYNnin):Night - 1 hrYYning &Day - 1.5 hrsYYning &Day - 1.5 hrsYYning &Evening - 0.5YY	Y	Y	N	Y	
N6	12/03/2024 <sup>2</sup>	30	I/A	27	33	35 <u>Night</u>		Y	Y	N	Y	
	13/03/2024 <sup>2</sup>	27	N/M	31	38	<u>LA1 (1 min):</u> 45		Y	Ν	Y	Y	9/04/2024
	11/03/2024	I/A	34	33	40	<u>Day, Evening &amp;</u> <u>Night:</u>		Y	N	Y	Y	9/04/2024
N81	12/03/2024	I/A	32	33	34	35 <u>Night</u>		Y	N	Y	Y	
	13/03/2024	25	I/A	31	39	<u>L<sub>A1 (1 min</sub>):</u> 45		Y	Y	Y	Y	
	11/03/2024	I/A	I/A	I/A	I/A	<u>Day, Evening &amp;</u> <u>Night:</u>		Y	Y			
N9 <sup>1</sup>	12/03/2024	I/A	I/A	28	29	35 <u>Night</u>		Y	Y	Y	Y	
	13/03/2024	I/A	I/A	32	36	<u>L<sub>A1 (1 min</sub>):</u> 45	Night – 1 hr	Y	Y	N	Y	

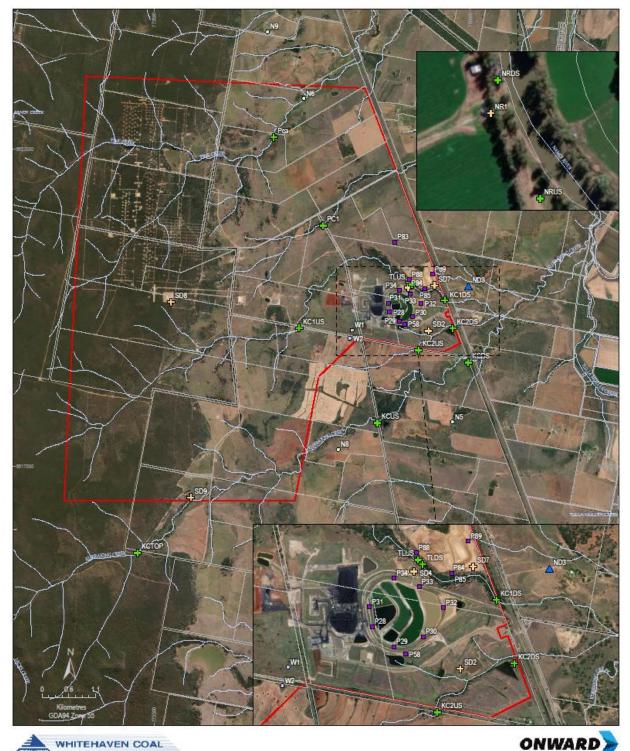
I/A = Inaudible, N/M = Not Measurable

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.









Lot boundary Watercourses

- Surface water quality moni
- Licenced discharge point
- Ambient air quality monitoring
  - Ambient air quaity monitoring
  - Grounowater monitoring stanopipe sing Meteorological station
- Meteorological st
  Noise monitoring

ONWARD

NARRABRI MINE Figure 1

EPL 12789 Monitoring Locations February 2024