

# NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789EPA Website Link: <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>Licensee: Narrabri Coal Operations Pty LtdLicensee Address: Narrabri Mine, 10 Kurrajong Creek Road, BAAN BAA NSW 2390EPL Monitoring Points: See Figure 1 belowSampling Period:January 2022Obtained Date:27 January 2022Publication Date:10/02/2022



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	12/01/2022	27/01/2022	NA	NA	NA	0.5		
11	Conductivity	μs/cm	In situ	Upon discharge		No disch	narge occurred du	ring lanuary 2	2022 (504)				
	тос	mg/L	Lab Analysis	(within 12 hours)		NO UISCI	large occurred da	ning Junuury 2	.022 (3D4)				
13	Conductivity	μs/cm	In situ	Upon discharge									
15	тос	mg/L	Lab Analysis	(within 12 hours)									
	Conductivity	μs/cm	In situ										
	тос	mg/L	Lab Analysis	Quarterly,									
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during January 2022 (KC1US)								
	рН	рН	In situ	Flow Event									
	TSS	mg/L	Lab Analysis										
	Conductivity	μs/cm	In situ										
	тос	mg/L	Lab Analysis	Quarterly,									
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No	o flow events and/o	r mine discharge c	occurred durin	g January 20	022 (KC1DS)			
	рН	рН	In situ	Flow Event									
	TSS	mg/L	Lab Analysis										



	Conductivity	μs/cm	In situ							
	тос	mg/L	Lab Analysis	Quarterly,	No flow events and/or mine discharge occurred during January 2022 (KC2US)					
16	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred daming sandary 2022 (RC205)					
	рН	рН	In situ	Flow Event						
	TSS	mg/L	Lab Analysis							
	Conductivity	μs/cm	In situ							
	тос	mg/L	Lab Analysis	Quarterly,	No flow events and/or mine discharge occurred during January 2022 (KC2DS)					
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events ana/or mine discharge occurred daring sandary 2022 (RC2DS)					
	рН	рН	In situ	Flow Event						
	TSS	mg/L	Lab Analysis							
	Conductivity	μs/cm	In Situ	Upon discharge						
18	тос	mg/L	Lab Analysis	(within 12 hours)	Not currently constructed (SD7).					
	Conductivity	μs/cm	In situ							
	тос	mg/L	Lab Analysis	Quarterly,						
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge & Flow Event	No flow events and/or mine discharge occurred during January 2022 (KCUS)					
	рН	рН	In situ							
	TSS	mg/L	Lab Analysis							
	Conductivity	μs/cm	In situ							
20	тос	mg/L	Lab Analysis	Quarterly, Upon	No flow events and/or mine discharge occurred during January 2022 (KCDS)					
20	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	No flow events and/or mine discharge occurred daring sandary 2022 (ReDS)					
	рН	рН	In situ							



	TSS	mg/L	Lab								
			Analysis								
	Conductivity	μs/cm	In situ								
	тос	mg/L	Lab Analysis	Quarterly,		No flow events and/or mine discharge occurred during January 2022 (PCa)					
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	I	to now events and/or mine discharge occurred during January 2022 (PCd)					
	рН	pН	In situ	Flow Event							
	TSS	mg/L	Lab Analysis								
	Conductivity	μs/cm	In situ								
	тос	mg/L	Lab Analysis	Quarterly,							
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	No flow events and/or mine discharge occurred during January 2022 (PC1)					
	рН	рН	In situ	Flow Event							
	TSS	mg/L	Lab Analysis								
	рН	рН	In situ	Upon	0						
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NR1).					
	рН	рН	In situ	Upon	0						
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRUS).					
	рН	рН	In situ	Upon	0						
26	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRDS).					
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
28	SWL	-	In situ	Quarterly	0	Not scheduled for sampling January 2022					
	Bicarbonate	mg/L	Lab Analysis		0						



T								
	Calcium	mg/L	Lab		0			
	calcium		Analysis		<u> </u>			
	Carbonate	mg/L	Lab		0			
	Carbonate	iiig/ L	Analysis		0			
	Chloride	mg/L	Lab		0			
	Chionae	IIIg/L	Analysis		0			
	Magnesium	mg/L	Lab		0			
	wagnesium	iiig/ L	Analysis		0			
	Potassium	mg/L	Lab		0			
	POLASSIUITI	iiig/L	Analysis		0			
	Sodium	mg/L	Lab		0			
	Souluill	IIIg/L	Analysis		0			
	Sulfate	mg/L	Lab		0			
	Sunate	iiig/L	Analysis		0			
	Conductivity	μs/cm	In situ	-	0			
	рН	рН	In situ		0			
	SWL	mbtoc	In situ		0			
		4	Lab		0			
	Bicarbonate	mg/L	Analysis					
	Calaium		Lab				0	
	Calcium	mg/L	Analysis					
	Carbonata		Lab		0	Not scheduled for sampling January 2022		
	Carbonate	mg/L	Analysis					
29	Chloride	mg/1	Lab	Quarterly	0			
	Chionae	mg/L	Analysis					
	Magnosium	mg/l	Lab		0			
	Magnesium	mg/L	Analysis					
	Potassium		Lab		0			
	PULASSIUIII	mg/L	Analysis					
	Sodium	mg/L	Lab		0			
	Souluill	IIIg/L	Analysis					
	Sulfate	mg/L	Lab		0			
	Juliate	111g/ L	Analysis					
20	Conductivity	μs/cm	In situ	Questadu	0			
30	pН	pН	In situ	Quarterly	0			
30				Quarterly				



	SWL	mbtoc	In situ		0					
	Bicarbonate	mg/L	Lab Analysis		0					
	Calcium	mg/L	Lab Analysis		0	Not scheduled for sampling January 2022				
	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		ĺ		ĺ		ĺ	0
31	Carbonate	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling January 2022				
	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	
	pH	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 January 2022
32	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	
	Conductivity	μs/cm	In situ		0	
	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis			
	Calcium	mg/L	Lab Analysis	Quarterly	0	
	Carbonate	mg/L	Lab Analysis		0	
33	Chloride	mg/L	Lab Analysis		0	Not scheduled for sampling January 2022
	Magnesium	mg/L	Lab Analysis		0	



			L ch			
	Potassium	mg/L	Lab Analysis		0	
			Lab			
	Sodium	mg/L	Analysis		0	
			Lab			
	Sulfate	mg/L	Analysis		0	
	Conductivity	μs/cm	In situ		0	
	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/l	Lab		0	
	Bicarbonate	mg/L	Analysis		0	
	Calcium	mg/L	Lab		0	
34	Culcium	1116/ L	Analysis			
	Carbonate	mg/L	Lab		0	
			Analysis		-	Not scheduled for sampling January 2022
34	Chloride	mg/L	Lab	Quarterly	0	Not scheduled for sampling January 2022
		<u> </u>	Analysis			
	Magnesium	mg/L	Lab Analysis		0	
			Lab			
	Potassium	mg/L	Analysis		0	
-			Lab			
	Sodium	mg/L	Analysis		0	
	- 16		Lab			
	Sulfate	mg/L	Analysis		0	
	Conductivity	μs/cm	In situ		0	
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
			Lab		0	
	Bicarbonate	mg/L	Analysis	Quarterly		
	Calaina		Lab		0	Not scheduled for sampling January 202
	Calcium	mg/L	Analysis			
	Carbonate	mg/L	Lab		0	
	Carbonate	ш <u>в</u> / L	Analysis			



 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)
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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	N/A	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No disch	narge occurred during J	anuary 20.	22		10	N/A	SD4
	рН	рН	In situ		0						6.5- 8.5	N/A	
	TSS	mg/L	Lab Analysis		0	No discharge occurred during January 2022						N/A	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0							N/A	SD2
	рН	рН	In situ		0							N/A	
	TSS	mg/L	Lab Analysis		0							N/A	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		Not currently constructed.			10	N/A	SD7	
	рН	рН	In situ		0							N/A	
24	TDS	mg/L	Lab Analysis	Upon	0	N // I	· · · · · · ·	,		,	350	N/A	ND4
24	рН	рН	In situ	discharge	0	Namoi discharge	point – Not constructed	a or currer	itly utilise	20.	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 disch	No discharge occurred during January 2022				10	N/A	SD8
	рН	рН	In situ	_	0						6.5- 8.5	N/A	



EPL ID	Date	Measure d Levels – dB(A) L <sub>eq 15min Day</sub>	Measured Levels – dB(A) L <sub>eq 15min</sub> Evening	Measured Levels – dB(A) L <sub>eq 15min Night</sub>	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)	Compliant (Yes/No)	Date Obtained
	14/12/2021	I/A	I/A	I/A	I/A	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y/N/Y	Yes	24/01/2022
N5°	15/12/2021	I/A	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Y/Y/Y	Yes	24/01/2022
	16/12/2021	33	I/A	25	28	<u>La1 (1 min):</u> 45	Night – 1 hr	Y/Y/N	Yes	24/01/2022
	14/12/2021	I/A	I/A	I/A	I/A	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y/N/Y	Yes	24/01/2022
N6	15/12/2021	I/A	I/A	I/A	I/A	35 Night	Evening – 0.5 hrs	Y/Y/N	Yes	24/01/2022
	16/12/2021	I/A	I/A	I/A	I/A	<u>L<sub>A1 (1 min</sub>):</u> 45	Night – 1 hr	Y/Y/N	Yes	24/01/2022
	14/12/2021	I/A	I/A	I/A	I/A	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y/N/N	Yes	24/01/2022
N8	15/12/2021	I/A	I/A	I/A	I/A	35 Night	Evening – 0.5 hrs	Y/Y/Y	Yes	24/01/2022
	16/12/2021	I/A	I/A	23	24	L <sub>A1 (1 min</sub> ): 45	Night – 1 hr	Y/N/N	Yes	24/01/2022
	14/12/2021	N/M	<25	I/A	I/A	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y/N/N	Yes	24/01/2022
N9	15/12/2021	I/A	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Y/Y/N	Yes	24/01/2022
	16/12/2021	I/A	I/A	I/A	I/A	L <sub>A1 (1 min)</sub> : 45	Night – 1 hr	Y/Y/N	Yes	24/01/2022

#### Table 3 – Quarterly Attended Noise Monitoring results summary table<sup>a</sup>

<sup>&</sup>lt;sup>a</sup> Noise results for Quarter 4 were not available for at time of report publication in 2021.

<sup>&</sup>lt;sup>c</sup> Property is owned by Narrabri Coal Operations



Figure 1 – EPL 12789 Monitoring Locations





# NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

 EPL No: 12789

 EPA Website Link: <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>

 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 2022

 Obtained Date:
 24/02/2022

 Publication Date:
 14/03/2022



EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the MonthDatesDateMinMeanMedianMax or Only								
ND3	Deposited Matter	g/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1 10/02/2022 24/02/2022 NA NA NA 0.7								
11	Conductivity	μs/cm	In situ	Upon discharge	No discharge occurred during February 2022 (SD4)								
	тос	mg/L	Lab Analysis	(within 12 hours)		NO UISCII	arge occurred dur	ing rebruury .	2022 (3D4)				
13	Conductivity	μs/cm	In situ	Upon discharge	No discharge occurred during February 2022 (SD2)								
15	тос	mg/L	Lab Analysis	(within 12 hours)									
	Conductivity	μs/cm	In situ										
	тос	mg/L	Lab Analysis	Quarterly,									
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during February 2022 (KC1US)								
	рН	рН	In situ	Flow Event									
	TSS	mg/L	Lab Analysis										
	Conductivity	μs/cm	In situ										
	тос	mg/L	Lab Analysis	Quarterly,	No flow events and/or mine discharge occurred during February 2022 (KC1DS)								
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &									
	рН	рН	In situ	Flow Event									
	TSS	mg/L	Lab Analysis										



	Conductivity	μs/cm	In situ							
	тос	mg/L	Lab Analysis	Quarterly,	No flow quarte and for mine discharge accurred during Eabruary 2022 (KC2US)					
16	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during February 2022 (KC2US)					
	рН	рН	In situ	Flow Event						
	TSS	mg/L	Lab Analysis							
	Conductivity	μs/cm	In situ							
	тос	mg/L	Lab Analysis	Quarterly,	No flow events and/or mine discharge occurred during February 2022 (KC2DS)					
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events und/or mine discharge occurred daring rebradly 2022 (KC2DS)					
	рН	рН	In situ	Flow Event						
	TSS	mg/L	Lab Analysis							
10	Conductivity	μs/cm	In Situ	Upon discharge						
18	тос	mg/L	Lab Analysis	(within 12 hours)	Not currently constructed (SD7).					
	Conductivity	μs/cm	In situ							
	тос	mg/L	Lab Analysis	Quarterly, Upon						
19	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	No flow events and/or mine discharge occurred during February 2022 (KCUS)					
	рН	рН	In situ	now Event						
	TSS	mg/L	Lab Analysis							
	Conductivity	μs/cm	In situ							
20	тос	mg/L	Lab Analysis	Quarterly, Upon	No flow events and/or mine discharge occurred during February 2022 (KCDS)					
20	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	No jow events ana/or mine ascharge occurred daring rebraary 2022 (ReDS)					
	рН	рН	In situ							



	TSS	mg/L	Lab Analysis								
	Conductivity	μs/cm	In situ								
	тос	mg/L	Lab Analysis	Quarterly,	No flow events and/or mine discharge occurred during February 2022 (PCa)						
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	Interview     No flow events and/or mine discharge occurred during February 2022 (FCd)       Int     Int       Int     Int						
	рН	рН	In situ	Flow Event							
	TSS	mg/L	Lab Analysis								
	Conductivity	μs/cm	In situ								
	тос	mg/L	Lab Analysis	Quarterly,							
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	Λ	lo flow events and/or mine discharge occurred during February 2022 (PC1)					
	рН	рН	In situ	Flow Event							
	TSS	mg/L	Lab Analysis								
	рН	рН	In situ	Upon	0	Namoi discharae point – Not constructed or currently utilised (NR1)					
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NR1).					
	рН	рН	In situ	Upon	0						
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRUS).					
	рН	рН	In situ	Upon	0						
26	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRDS).					
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0	0					
28	SWL	-	In situ	Quarterly	0	Not scheduled for sampling February 2022					
	Bicarbonate	mg/L	Lab Analysis		0						



Calcium         mg/L         Analysis Analysis         0           Carbonate         mg/L         Lab Analysis         0           Chloride         mg/L         Lab Analysis         0           Magnesium         mg/L         Lab Analysis         0           Magnesium         mg/L         Lab Analysis         0           Sodium         mg/L         Lab Analysis         0           Sodium         mg/L         Lab Analysis         0           Sodium         mg/L         Lab Analysis         0           Sulfate         mg/L         Lab Analysis         0           Sulfate         mg/L         Lab Analysis         0           Sulfate         mg/L         Lab Analysis         0           Sulfate         mg/L         Lab Analysis         0           Garbonate         mg/L         Lab Analysis         0           Calclum         mg/L         Lab Analysis         0           Calclum         mg/L         Lab Analysis         0           Magnesium         mg/L         Lab Analysis         0           Magnesium         mg/L         Lab Analysis         0           Magnesium         mg/L         Lab		1		1 . 1		1	
Image: Constant in the second seco		Calcium	mg/I	Lab		0	
Larbonate     mg/L     Analysis     0       Chloride     mg/L     Lab     0       Magnesium     mg/L     Lab     0       Potassium     mg/L     Lab     0       Sodium     mg/L     Lab     0       Sodium     mg/L     Lab     0       Sodium     mg/L     Lab     0       Sulfate     mg/L     Lab     0       Sulfate     mg/L     Lab     0       Sulfate     mg/L     Lab     0       SWL     mtoc     In situ     0       SWL     mtoc     In situ     0       SWL     mg/L     Lab     0       SWL     mg/L     Lab     0       Galcium     mg/L     Lab     0       Analysis     0     0       Calcium     mg/L     Lab       Analysis     0       Calcium     mg/L     Lab       Analysis     0       Calcium     mg/L     Lab       Magnesium     mg/L     Lab       Magnesium     mg/L     Lab       Magnesium     mg/L     Lab       Potassium     mg/L     Lab       Analysis     0       Potassium<		calcium	116/ -	Analysis			
Chloride     mg/L     Lab Analysis       Magnesium     mg/L     Lab Analysis       Potassium     mg/L     Lab Analysis       Sodium     mg/L     Lab Analysis       Sodium     mg/L     Lab Analysis       Sodium     mg/L     Lab Analysis       Sodium     mg/L     Lab Analysis       Sulfate     mg/L     Lab Analysis       Sulfate     mg/L     Lab Analysis       Conductivity     µs/cm     In situ       PH     PH     In situ       Bicarbonate     mg/L     Lab Analysis       Calcium     mg/L     Lab Analysis       Calcium     mg/L     Lab Analysis       Carbonate     mg/L     Lab Analysis       Quarterly     0       Quarterly     0       Magnesium     mg/L       Lab Analysis     0       O     0       Sodium     mg/L       Lab Analysis     0       O     0       Magnesium     mg/L       Lab Analysis     0       O     0       O     0       Sodium     mg/L       Lab Analysis     0       O     0       O     0       O <td< td=""><td></td><td>Carbonato</td><td>mg/l</td><td>Lab</td><td></td><td>0</td><td></td></td<>		Carbonato	mg/l	Lab		0	
Choride         mg/L         Analysis           Magnesium         mg/L         Lab Analysis         0           Potassium         mg/L         Lab Analysis         0           Sodium         mg/L         Lab Analysis         0           Sulfate         mg/L         Lab Analysis         0           Sulfate         mg/L         Lab Analysis         0           Sulfate         mg/L         Lab Analysis         0           Sulfate         mg/L         Lab Analysis         0           PH         pH         In situ         0           SWL         mbcc         In situ         0           SWL         mbcc         In situ         0           Bicarbonate         mg/L         Lab Analysis         0           Calcium         mg/L         Lab Analysis         0           Quarterly         0         0         Not scheduled for sampling February 2022           Chloride         mg/L         Lab Analysis         0           Magnesium         mg/L         Lab Analysis         0           Potassium         mg/L         Lab Analysis         0           Sodium         mg/L         Lab Analysis         0		Carbonate	iiig/L	Analysis		0	
Magnesium         mg/L         Lab Analysis         0           Potassium         mg/L         Lab Analysis         0           Sodium         mg/L         Lab Analysis         0           Sodium         mg/L         Lab Analysis         0           Sulfate         mg/L         Lab Analysis         0           Sulfate         mg/L         Lab Analysis         0           Sulfate         mg/L         Lab Analysis         0           PH         pH         In situ         0           SWL         mbtoc         In situ         0           Bicarbonate         mg/L         Lab Analysis         0           Calcium         mg/L         Lab Analysis         0           Quarterly         0         0         Not scheduled for sampling February 2022           Choride         mg/L         Lab Analysis         0           Magnesium         mg/L         Lab Analysis         0           Potassium         mg/L         Lab Analysis         0           Sodium         mg/L         Lab         0           Sodium         mg/L         Lab         0           Sodium         mg/L         Dab         0 <td></td> <td>Chlorido</td> <td>mg/1</td> <td>Lab</td> <td></td> <td>0</td> <td></td>		Chlorido	mg/1	Lab		0	
Magnesium     mg/L     Analysis       Potassium     mg/L     Lab Analysis     0       Sodium     mg/L     Lab Analysis     0       Sulfate     mg/L     Lab Analysis     0       Sulfate     mg/L     Lab Analysis     0       Sulfate     mg/L     Lab Analysis     0       PH     pH     In situ     0       SWL     mbtoc     In situ     0       SWL     mbtoc     In situ     0       Bicarbonate     mg/L     Lab Analysis     0       Calcium     mg/L     Lab Analysis     0       Quarterly     0     Not scheduled for sampling February 2022       Choride     mg/L     Lab Analysis     0       Magnesium     mg/L     Lab Analysis     0       Potassium     mg/L     Lab Analysis     0       Sodium     mg/L     Lab Analysis     0       Sodium     mg/L     Lab Analysis     0       Sodium     mg/L     Lab Analysis     0		Chioride	mg/L	Analysis		0	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Magnosium	mg/l			0	
Potassium     mg/L     Analysis       Sodium     mg/L     Lab Analysis     0       Sulfate     mg/L     Lab Analysis     0       Sulfate     mg/L     Lab Analysis     0       Conductivity     µs/cm     In situ     0       pH     pH     In situ     0       SWL     mbtoc     In situ     0       Bicarbonate     mg/L     Lab Analysis     0       Calcium     mg/L     Lab Analysis     0       Carbonate     mg/L     Lab Analysis     0       Carbonate     mg/L     Lab Analysis     0       Quarterly     0     0       Magnesium     mg/L     Lab Analysis       Potassium     mg/L     Lab Analysis       Sodium     mg/L     Lab		Iviagnesium	ilig/ L			0	
Image: Sodium mg/L     Analysis Analysis       Sodium mg/L     Lab Analysis       Sulfate     mg/L       Lab Analysis     0       Sulfate     mg/L       Lab Analysis     0       Conductivity     µs/cm       PH     PH       PH     pH       SWL     mbtoc       Mainesium     mg/L       Lab Analysis       Calcium     mg/L       Lab Analysis       Carbonate     mg/L       Lab Analysis       Chloride     mg/L       Analysis       Magnesium     mg/L       Lab Analysis       Potassium     mg/L       Lab Analysis       Sodium     mg/L       Lab Analysis       0       Magnesium     mg/L       Lab Analysis       Potassium     mg/L       Lab     0       Sodium     mg/L       Lab     0       Sodium     mg/L       Lab     0		Potacsium	mg/l	1		0	
Sodium     mg/L     Analysis       Sulfate     mg/L     Lab Analysis     0       Conductivity     µs/cm     In situ     0       PH     pH     In situ     0       SWL     mbtoc     In situ     0       Bicarbonate     mg/L     Lab Analysis     0       Calcium     mg/L     Lab Analysis     0       Calcium     mg/L     Lab Analysis     0       Carbonate     mg/L     Lab Analysis     0       Quarterly     0     0       Magnesium     mg/L     Lab Analysis       Potassium     mg/L     Lab Analysis       Potassium     mg/L     Lab Analysis       Sodium     mg/L     Lab Analysis       O     0		Potassium	iiig/L	Analysis		0	
Sulfate     mg/L     Lab Analysis     0       Sulfate     mg/L     Lab Analysis     0       PH     pH     In situ     0       SWL     mbtoc     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       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       Sodium     mg/L     Lab Analysis     0		Sadium	mg/1	Lab		0	
Surface     mg/L     Analysis     0       Conductivity     µs/cm     In situ     0       pH     pH     ln situ     0       SWL     mbtoc     In situ     0       SWL     mbtoc     In situ     0       Bicarbonate     mg/L     Lab     0       Analysis     0     0       Calcium     mg/L     Lab       Analysis     0       Carbonate     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		Sodium	mg/L	Analysis		0	
Conductivity     µs/cm     In situ       pH     pH     In situ       SWL     mbtoc     In situ       SWL     mbtoc     In situ       Bicarbonate     mg/L     Lab       Calcium     mg/L     Lab       Calcium     mg/L     Lab       Analysis     0       Carbonate     mg/L     Lab       Analysis     0       Carbonate     mg/L     Lab       Analysis     0       Carbonate     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		0	
PH     PH     In situ       SWL     mbtoc     In situ       Bicarbonate     mg/L     Lab       Analysis     0       Calcium     mg/L     Lab       Calcium     mg/L     Lab       Analysis     0       Carbonate     mg/L     Lab       Analysis     0       Chloride     mg/L     Lab       Magnesium     mg/L     Lab       Potassium     mg/L     Lab       Sodium     mg/L     Lab       Lab     0       O     0		Suilate	iiig/L	Analysis		0	
SWL     mbtoc     In situ       Bicarbonate     mg/L     Lab       Analysis     0       Calcium     mg/L     Lab       Analysis     0       Carbonate     mg/L     Lab       Analysis     0       Carbonate     mg/L     Lab       Analysis     0       Carbonate     mg/L     Lab       Analysis     0       Chloride     mg/L     Lab       Magnesium     mg/L     Lab       Potassium     mg/L     Lab       Analysis     0       Sodium     mg/L     Lab       Sodium     mg/L     Lab       Sodium     mg/L     Lab       Sodium     mg/L     Lab		Conductivity	μs/cm	In situ		0	
Bicarbonate     mg/L     Lab Analysis     0       Calcium     mg/L     Lab Analysis     0       Carbonate     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		рН	pН	In situ		0	
Bicarbonate     mg/L     Analysis       Calcium     mg/L     Lab Analysis     0       Carbonate     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		SWL	mbtoc	In situ		0	
29       Calcium       mg/L       Lab         29       Carbonate       mg/L       Lab         Analysis       0         29       Chloride       mg/L       Lab         Magnesium       mg/L       Lab         Potassium       mg/L       Lab         Sodium       mg/L       Lab         Lab       0         0       0			4	Lab		0	
Calcium       mg/L       Analysis         Carbonate       mg/L       Lab         Analysis       0         Chloride       mg/L       Lab         Magnesium       mg/L       Lab         Potassium       mg/L       Lab         Analysis       0         Sodium       mg/L       Lab         Sodium       Sodium       Sodium		Bicarbonate	mg/L	Analysis			
29     Carbonate     mg/L     Lab Analysis     Quarterly     0       29     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       Sodium     mg/L     Lab Analysis     0		Calaiura		Lab		0	
29     Carbonate     mg/L     Analysis       29     Chloride     mg/L     Lab Analysis     Quarterly       Magnesium     mg/L     Lab Analysis     0       Potassium     mg/L     Lab Analysis     0       Sodium     mg/L     Lab Analysis     0		Calcium	mg/L	Analysis			
29     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       Sodium     mg/L     Lab Analysis     0		Carlanata		Lab		0	Not scheduled for sampling February 2022
Chloride     mg/L     Analysis       Magnesium     mg/L     Lab       Magnesium     mg/L     Lab       Potassium     mg/L     Lab       Analysis     0       Sodium     mg/L     Lab       Lab     0       Analysis     0		Carbonate	mg/L	Analysis			
Magnesium     mg/L     Lab Analysis     0       Potassium     mg/L     Lab Analysis     0       Sodium     mg/L     Lab Analysis     0	29	Chlorida	m c /1	Lab	Quarterly	0	
Magnesium     mg/L     Analysis       Potassium     mg/L     Lab       Analysis     0       Sodium     mg/L       Lab     0		Chioride	mg/L	Analysis			
Potassium     mg/L     Lab Analysis     0       Sodium     mg/L     Lab       0     0		Magnesium	mg/1	Lab		0	
Potassium     mg/L     Analysis       Sodium     mg/L     Lab		iviagnesium	mg/L	Analysis			
Sodium mg/l Lab 0		Detassium	mg/I	Lab		0	
		PULASSIUIII	iiig/L	Analysis			
Analysis		Sodium	mg/l	Lab		0	
		Souium	iiig/L	Analysis			
Sulfate mg/L Lab 0		Sulfate	mg/l	Lab		0	
Analysis		Juliate	ш <u>в</u> / с	Analysis			
Conductivity μs/cm In situ 0	20	Conductivity	μs/cm	In situ	Quartarly	0	
30 pH pH Insitu Quarterly 0	30	рН	pН	In situ	Quarterly	0	



	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	Not scheduled for sampling February 2022
	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	
31	Carbonate	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling February 2022
	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	
	pH	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 February 2022
32	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	
	Conductivity	μs/cm	In situ		0	
	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis			
	Calcium	mg/L	Lab Analysis	Quarterly	0	
	Carbonate	mg/L	Lab Analysis		0	
33	Chloride	mg/L	Lab Analysis		0	Not scheduled for sampling February 2022
	Magnesium	mg/L	Lab Analysis		0	



			Lab			
	Potassium	mg/L	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	Not scheduled for sampling February 2022
	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	0	
	Calcium	mg/L	Lab Analysis		0	Not scheduled for sampling February 2022
	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)
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EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled							Comments (Mine Site Sample ID)
	TSS	mg/L	Lab Analysis		0			<u>~</u>	·		50	N/A	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No disch	No discharge occurred during February 2022						SD4
	рН	рН	In situ		0								
	TSS	mg/L	Lab Analysis		0			50	N/A				
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during February 2022						N/A	SD2
	рН	pН	In situ		0			6.5- 8.5	N/A				
	TSS	mg/L	Lab Analysis		0							N/A	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	Not currently constructed.					10	N/A	SD7
	рН	рН	In situ		0							N/A	
24	TDS	mg/L	Lab Analysis	Upon	0							N/A	
24	рН	pН	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 February 2022					10	N/A	SD8
	рН	рН	In situ		0						6.5- 8.5	N/A	



EPL ID	Date	Measure d Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Date Obtained
		Leq 15min Day	L <sub>eq 15</sub> min Evening	Leq 15min Night	LA1 (1 min) Night			(D/E/N)		
	-		Evening			Day, Evening & <u>Night:</u>	Day – 1.5 hrs			
N5	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					<u>LA1 (1 min):</u> 45	Night – 1 hr			
	-					<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs			
N6	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					<u>LA1 (1 min):</u> 45	Night – 1 hr			
	-					<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs			
N8	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					<u>La1 (1 min):</u> 45	Night – 1 hr			
	-					<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs			
N9	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					L <sub>A1 (1 min)</sub> : 45	Night – 1 hr			

Note: Quarterly attended noise monitoring is scheduled for March. Results will be published in the March EPL report.



Figure 1 – EPL 12789 Monitoring Locations





# NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789EPA Website Link: <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>Licensee: Narrabri Coal Operations Pty LtdLicensee Address: Narrabri I Nine, 10 Kurrajong Creek Road, BAAN BAA NSW 2390EPL Monitoring Points: See Figure 1 belowSampling Period:March 2022Obtained Date:8/04/2022Publication Date:12/04/2022



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	10/03/2022	29/03/2022	NA	NA	NA	0.2				
11	Conductivity	μs/cm	In situ	Upon discharge	No discharge occurred during March 2022 (SD4)										
11	тос	mg/L	Lab Analysis	(within 12 hours)		NO UISC	narge occurrea at	ining Murch 2	ring March 2022 (SD4)						
13	Conductivity	μs/cm	In situ	Upon discharge	No discharge occurred during March 2022 (SD2)										
13	тос	mg/L	Lab Analysis	(within 12 hours)											
	Conductivity	μs/cm	In situ												
	тос	mg/L	Lab Analysis	Quarterly,	No flow events and/or mine discharge occurred during March 2022 (KC1US)										
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &											
	рН	рН	In situ	Flow Event											
	TSS	mg/L	Lab Analysis												
	Conductivity	μs/cm	In situ												
	тос	mg/L	Lab Analysis	Quarterly,											
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	N	o flow events and/c	or mine discharge	occurred durii	ng March 20.	22 (KC1DS)					
	рН	рН	In situ	Flow Event	Event										
	TSS	mg/L	Lab Analysis												



	Conductivity	μs/cm	In situ								
	тос	mg/L	Lab Analysis	Quarterly,	No flow events and for mine discharge conversed during March 2022 (KC2US)						
16	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during March 2022 (KC2US)						
	рН	рН	In situ	Flow Event							
	TSS	mg/L	Lab Analysis								
	Conductivity	μs/cm	In situ								
	тос	mg/L	Lab Analysis	Quarterly,	No flow events and/or mine discharge occurred during March 2022 (KC2DS)						
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred daming March 2022 (RC2D3)						
	рН	рН	In situ	Flow Event							
	TSS	mg/L	Lab Analysis								
10	Conductivity	μs/cm	In Situ	Upon discharge							
18	тос	mg/L	Lab Analysis	(within 12 hours)	Not currently constructed (SD7).						
	Conductivity	μs/cm	In situ								
	тос	mg/L	Lab Analysis	Quarterly, Upon							
19	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	No flow events and/or mine discharge occurred during March 2022 (KCUS)						
	рН	рН	In situ								
	TSS	mg/L	Lab Analysis								
	Conductivity	μs/cm	In situ								
20	тос	mg/L	Lab Analysis	Quarterly, Upon discharge & Flow Event	No flow events and/or mine discharge occurred during March 2022 (KCDS)						
20	Oil & Grease	mg/L	Lab Analysis		to now events una/or mine discharge occurred during warch 2022 (KCDS)						
	рН	рН	In situ								



	TSS	mg/L	Lab										
			Analysis										
	Conductivity	μs/cm	In situ										
	тос	mg/L	Lab Analysis	Quarterly,		No flow events and/or mine discharge occurred during March 2022 (PCa)							
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &		No flow events and/or mine discharge occurred during waren 2022 (r.eu)							
	рН	рН	In situ	Flow Event									
	TSS	mg/L	Lab Analysis										
	Conductivity	μs/cm	In situ										
	тос	mg/L	Lab Analysis	Quarterly,									
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during March 2022 (PC1)								
	рН	рН	In situ	Flow Event									
	TSS	mg/L	Lab Analysis										
	рН	рН	In situ	Upon	0								
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NR1).							
25	рН	рН	In situ	Upon	0								
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRUS).							
	рН	рН	In situ	Upon	0								
26	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRDS).							
	Conductivity	μs/cm	In situ		0								
	рН	рН	In situ		0								
28	SWL	-	In situ	Quarterly	0	Bore was dry during scheduled sampling							
	Bicarbonate	mg/L	Lab Analysis		0								



	Calcium	mg/L	Lab		0						
	Calciulii	ing/L	Analysis		0						
	Carbonate	mg/L	Lab		0						
	carbonate	1116/ -	Analysis								
	Chloride	mg/L	Lab		0						
	0	8/ -	Analysis			_					
	Magnesium	mg/L	Lab		0						
		<u> </u>	Analysis			_					
	Potassium	mg/L	Lab		0						
			Analysis			-					
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab		0						
	Sullate	IIIg/ L	Analysis		0						
	Conductivity	μs/cm	In situ		1			-	-	-	15045
	рН	pН	In situ		1	1		-	-	-	7.05
	SWL	mbtoc	In situ		1			-	-	-	4.97
	Bicarbonate	mg/L	Lab		1			-	_	_	548
	Bicarbonate	iiig/L	Analysis					-	-	-	548
	Calcium	mg/L	Lab		1			-	_	_	96
	Calcium	ilig/ L	Analysis					_			30
	Carbonate	mg/L	Lab		1			-	_	-	<1
29	carbonate	ing/ L	Analysis	Quarterly				_	_	_	~1
25	Chloride	mg/L	Lab	Quarterry	1	30/03/2022	8/04/2022	-	_	-	4810
			Analysis			_					
	Magnesium	mg/L	Lab		1			-	-	-	250
			Analysis			_					
	Potassium	mg/L	Lab		1			-	-	-	7
			Analysis		1	_					
	Sodium	mg/L	Lab Analysis		1			-	-	-	3110
			Lab		1	-					
	Sulfate	mg/L	Analysis					-	-	-	658
30	Conductivity	μs/cm	In situ	Quarterly	1			-	-	-	20995
50	conductivity	μογιστη	iii situ	Quarterry	⊥ <u></u>	1		_	_	_	20333



	рН	рН	In situ		1			-	-	-	6.79
	SWL	mbtoc	In situ		1			-	-	-	13.18
	Bicarbonate	mg/L	Lab Analysis		1	30/03/2022	8/04/2022	-	-	-	746
	Calcium	mg/L	Lab Analysis		1			-	-	-	182
	Carbonate	mg/L	Lab Analysis		1			-	-	-	<1
	Chloride	mg/L	Lab Analysis		1			-	-	-	6510
	Magnesium	mg/L	Lab Analysis		1			-	-	-	470
	Potassium	mg/L	Lab Analysis		1			-	-	-	20
	Sodium	mg/L	Lab Analysis		1			-	-	-	3900
	Sulfate	mg/L	Lab Analysis		1			-	-	-	1330
	Conductivity	μs/cm	In situ		1			-	-	-	7114
	рН	рН	In situ		1	1		-	-	-	6.94
	SWL	mbtoc	In situ		1			-	-	-	16.81
	Bicarbonate	mg/L	Lab Analysis		1			-	-	-	767
21	Calcium	mg/L	Lab Analysis	Quartarlu	1	20/02/2022		-	-	-	82
31	Carbonate	mg/L	Lab Analysis	Quarterly	1	30/03/2022	8/04/2022	-	-	-	<1
	Chloride	mg/L	Lab Analysis		1			-	-	-	1650
	Magnesium	mg/L	Lab Analysis		1	_		-	-	-	158
	Potassium	mg/L	Lab Analysis		1			-	-	-	12



	Sodium	mg/L	Lab Analysis		1			-	-	-	1190	
	Sulfate	mg/L	Lab Analysis		1			-	-	-	343	
	Conductivity	μs/cm	In situ		1			-	-	-	1900	
	рН	pН	In situ		1	1		-	-	-	8.05	
	SWL	mbtoc	In situ		1	1	8/04/2022	-	-	-	7.68	
	Bicarbonate	mg/L	Lab Analysis		1	30/03/2022		-	-	-	899	
	Calcium	mg/L	Lab Analysis		1			-	-	-	1	
	Carbonate	mg/L	Lab Analysis		1			-	-	-	52	
32	Chloride	mg/L	Lab Analysis	Quarterly	1			-	-	-	37	
	Magnesium	mg/L	Lab Analysis		1			-	-	-	5	
	Potassium	mg/L	Lab Analysis		1			-	-	-	<1	
	Sodium	mg/L	Lab Analysis		1			-	-	-	2780	
	Sulfate	mg/L	Lab Analysis		1			-	-	-	50	
	Conductivity	μs/cm	In situ		0							
	рН	рН	In situ		0							
	SWL	mbtoc	In situ		0							
	Bicarbonate	mg/L	Lab Analysis									
	Calcium	mg/L	Lab Analysis	Quarterly	0		Bore	was dry during	scheduled san	npling		
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	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 scheduled sampling							
	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			-	-	-	11219			
	рН	рН	In situ		1	1		-	-	-	6.72			
	SWL	mbtoc	In situ	Quarterly	1	]		-	-	-	18.64			
35	Bicarbonate	mg/L	Lab Analysis		1	30/03/2022	8/04/2022	-	-	-	5000			
	Calcium	mg/L	Lab Analysis		1			-	-	-	40			



Carbonate	mg/L	Lab Analysis	1		-	-	-	<1
Chloride	mg/L	Lab Analysis	1		-	-	-	1220
Magnesium	mg/L	Lab Analysis	1		-	-	-	70
Potassium	mg/L	Lab Analysis	1		-	-	-	69
Sodium	mg/L	Lab Analysis	1		-	-	-	2780
Sulfate	mg/L	Lab Analysis	1		-	-	-	88



Table 2 - Pollutant Limits Apply (Water)
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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	N/A			
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discl	harge occurred during		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 discl	harge occurred during		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		Not currently construc	ted.			10	N/A	SD7
	рН	рН	In situ		0						6.5- 8.5	N/A	
24	TDS	mg/L	Lab Analysis	Upon	0	Nama i diashawa a	naint Nationation	d	+h+ilio.	d	350	N/A	NR1
24	рН	рН	In situ	discharge	0	Namoi aischarge	point – Not constructed	<i>:a.</i>	6.5- 8.5	N/A	NKI		
	TSS	mg/L	Lab Analysis		0			50	N/A				
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during March 2022					10	N/A	SD8
	рН	рН	In situ		0			6.5- 8.5	N/A				



EPL ID	Date	Measure d Levels – dB(A) L <sub>eq 15min Day</sub>	Measured Levels – dB(A) L <sub>eq 15min</sub>	Measured Levels – dB(A) L <sub>eq 15min Night</sub>	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions <sup>2</sup> (D/E/N)	Compliant (Yes/No)	Date Obtained
	08/03/2022	26	Evening I/A	N/M	N/M	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y/Y/Y	Y	08/04/2022
N5 <sup>1</sup>	09/03/2022	I/A	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Y/N/N	Y	08/04/2022
	10/03/2022	I/A	I/A	I/A	I/A	<u>La1 (1 min):</u> 45	Night – 1 hr	N/N/N	Y	08/04/2022
	08/03/2022	I/A	31	30	35	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y/Y/N	Y	08/04/2022
N6	09/03/2022	I/A	30	31	35	35 <u>Night</u>	Evening – 0.5 hrs	N/N/N	Y	08/04/2022
	10/03/2022	I/A	31	27	31	LA1 (1 min): 45	Night – 1 hr	N/N/Y	Y	08/04/2022
	08/03/2022	28	I/A	39 <sup>3</sup>	42	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y/Y/Y	Y <sup>4</sup>	08/04/2022
N8 <sup>1</sup>	09/03/2022	I/A	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Y/N/N	Y	08/04/2022
	10/03/2022	I/A	I/A	I/A	I/A	<u>LA1 (1 min):</u> 45	Night – 1 hr	N/N/Y	Y	08/04/2022
	08/03/2022	25	30	23	26	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y/Y/N	Y	08/04/2022
N9 <sup>1</sup>	09/03/2022	I/A	23	25	30	35 <u>Night</u>	Evening – 0.5 hrs	N/N/N	Y	08/04/2022
	10/03/2022	N/M	24	27	30	LA1 (1 min): 45	Night – 1 hr	N/N/Y	Y	08/04/2022

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

Note 1: Property is owned by Narrabri Coal Operations

Note 2: Noise levels presented are the highest measured noise level under standard weather conditions over the monitoring period.

Note 3: Includes a +2dB correction for low frequency noise in accordance with the NPfl.

Note 4: The Noise Criteria for EPL Monitoring Location N8 (Haylin View) does not apply as the property is owned by Narrabri Coal and is not a privately owned residence.



Figure 1 – EPL 12789 Monitoring Locations





# NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789EPA Website Link: <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>Licensee: Narrabri Coal Operations Pty LtdLicensee Address: Narrabri Mine, 10 Kurrajong Creek Road, BAAN BAA NSW 2390EPL Monitoring Points: See Figure 1 belowSampling Period:April 2022Obtained Date:27/04/2022Publication Date:10/05/2022



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	12/04/2022	27/04/2022	NA	NA	NA	0.1			
11	Conductivity	μs/cm	In situ	Upon discharge		No discho	area accurred duri	na camplina r	pariod (SD4)					
11	тос	mg/L	Lab Analysis	(within 12 hours)		No discharge occurred during sampling period (SD4)								
Conductivity     μs/cm     In situ     Upon discharge       13     No discharge occurred during sampling period (SD2)														
15	тос	mg/L	Lab Analysis	(within 12 hours)	No discharge occurred during sampling period (5D2)									
	Conductivity	μs/cm	In situ											
	тос	mg/L	Lab Analysis	Quarterly,										
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during sampling period (KC1US)									
	рН	рН	In situ	Flow Event										
	TSS	mg/L	Lab Analysis											
	Conductivity	μs/cm	In situ											
	тос	mg/L	Lab Analysis	Quarterly,										
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No	flow events and/or	mine discharge oc	curred during	sampling pe	eriod (KC1DS)				
	рН	рН	In situ	Flow Event										
	TSS	mg/L	Lab Analysis											



	Conductivity	μs/cm	In situ							
	тос	mg/L	Lab Analysis	Quarterly,						
16	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during sampling period (KC2US)					
	рН	рН	In situ	Flow Event						
	TSS	mg/L	Lab Analysis							
	Conductivity	μs/cm	In situ							
	тос	mg/L	Lab Analysis	Quarterly,	No flow events and/or mine discharge occurred during sampling period (KC2DS)					
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during sampling period (KC2DS)					
	рН	рН	In situ	Flow Event						
	TSS	mg/L	Lab Analysis							
10	Conductivity	μs/cm	In Situ	Upon discharge						
18	тос	mg/L	Lab Analysis	(within 12 hours)	Not currently constructed (SD7).					
	Conductivity	μs/cm	In situ							
	тос	mg/L	Lab Analysis	Quarterly,						
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge & Flow Event	No flow events and/or mine discharge occurred during sampling period (KCUS)					
	рН	рН	In situ	How Event						
	TSS	mg/L	Lab Analysis							
	Conductivity	μs/cm	In situ							
20	тос	mg/L	Lab Analysis	Quarterly, Upon	No flow events and/or mine discharge occurred during sampling period (KCDS)					
20	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event						
	рН	рН	In situ							



	TSS	mg/L	Lab Analysis								
	Conductivity	μs/cm	In situ								
	тос	mg/L	Lab Analysis	Quarterly,	N	No flow events and/or mine discharge occurred during sampling period (PCa)					
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	/•0	s now events and/or mine discharge occurred daring sampling period (PCd)					
	рН	рН	In situ	Flow Event							
	TSS	mg/L	Lab Analysis								
	Conductivity	μs/cm	In situ								
	тос	mg/L	Lab Analysis	Quarterly,							
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No	No flow events and/or mine discharge occurred during sampling period (PC1)					
	рН	рН	In situ	Flow Event							
	TSS	mg/L	Lab Analysis								
	рН	рН	In situ	Upon	0						
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NR1).					
	рН	рН	In situ	Upon	0						
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRUS).					
	рН	рН	In situ	Upon	0						
26	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRDS).					
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
28	SWL	-	In situ	Quarterly	0	Not scheduled for sampling during reporting period					
	Bicarbonate	mg/L	Lab Analysis		0						



			ارما			
	Calcium	mg/L	Lab		0	
			Analysis			
	Carbonate	mg/L	Lab		0	
			Analysis			
	Chloride	mg/L	Lab		0	
		8/ =	Analysis		-	
	Magnesium	mg/L	Lab		0	
	Magnesium	1116/ 5	Analysis		0	
	Potassium	mg/L	Lab		0	
	Potassium	IIIg/L	Analysis		0	
	Sodium	m g /l	Lab		0	
	Sodium	mg/L	Analysis		0	
	Gulfata		Lab		0	
	Sulfate	mg/L	Analysis		0	
	Conductivity	μs/cm	In situ		0	
				-		
	рН	pН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab		0	
			Analysis			
		4	Lab			
	Calcium	mg/L	Analysis			
			Lab		0	
	Carbonate	mg/L	Analysis			
29			Lab	Quarterly	0	Not scheduled for sampling during reporting period
	Chloride	mg/L	Analysis			
			Lab		0	
	Magnesium	mg/L	Analysis			
			Lab		0	
	Potassium	mg/L	Analysis			
			Lab		0	
	Sodium	mg/L	Analysis		-	
	Sulfate		Lab		0	
		mg/L	Analysis		5	
30	Conductivity	μs/cm	In situ	Quarterly	1	
50	conductivity	μογιστη	iii situ	Quarterry	±	



	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	Not scheduled for sampling during reporting period
	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	pН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
31	Calcium	mg/L	Lab Analysis	Quartarly	0	Not cohodulad for complian during reporting pariod
51	Carbonate	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during reporting 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	Quarterly	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 reporting 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 reporting period	
33	Carbonate	mg/L	Lab Analysis		0		
	Chloride	mg/L	Lab Analysis		0		



	Magnesium	mg/L	Lab		0	
	Magnesium	1116/ L	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	Quarterly	0	
	Carbonate	mg/L	Lab Analysis		0	
34	Chloride	mg/L	Lab Analysis		0	Not scheduled for sampling during reporting 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	Quarterly	0	
35	Bicarbonate	mg/L	Lab Analysis		0	Not scheduled for sampling during reporting period
	Calcium	mg/L	Lab Analysis		0	



	Carbonate	mg/L	Lab	0
ļ		3/ -	Analysis	
	Chloride	mg/I	Lab	0
	Chioffue	mg/L	Analysis	
	Magnasium	mg/1	Lab	0
	Magnesium	mg/L	Analysis	
	Detessions		Lab	0
	Potassium	mg/L	Analysis	
	Cadium		Lab	0
	Sodium	mg/L	Analysis	
	Sulfate		Lab	0
	Sunate	mg/L	Analysis	



Table 2 - Pollutant Limits Apply (Water)
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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	N/A	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	rge occurred during sa	mpling per	riod		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 occurred during sampling period						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		Not currently constructed.					N/A	SD7
	рН	рН	In situ		0							N/A	
24	TDS	mg/L	Lab Analysis	Upon	0						350	N/A	ND1
24	рН	рН	In situ	discharge	0	Namoi aischarge	point – Not constructed	a or curren	tiy utilise	<i>:a.</i>	6.5- 8.5	N/A	NR1
	TSS	mg/L	Lab Analysis		0	0						N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	No discharge occurred during sampling period					N/A	SD8
	рН	рН	In situ		0							N/A	



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

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

Note: No monitoring scheduled during sampling period



Figure 1 – EPL 12789 Monitoring Locations





# NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

 EPL No: 12789

 EPA Website Link: <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>

 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 2022

 Obtained Date:
 30/05/2022

 Publication Date:
 6/06/2022



## 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	12/05/2022	30/05/2022	NA	NA	NA	1.2		
11	Conductivity	μs/cm	In situ	Upon discharge	No discharge occurred during sampling period (SD4)								
11	тос	mg/L	Lab Analysis	(within 12 hours)									
13	Conductivity	μs/cm	In situ	Upon discharge	No discharge occurred during sampling period (SD2)								
15	тос	mg/L	Lab Analysis	(within 12 hours)									
	Conductivity	μs/cm	In situ										
	тос	mg/L	Lab Analysis	Quarterly,									
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	N	o flow events a	nd/or mine disc	harge occurred	l during samplir	ng period (KC1U	'S)		
	рН	рН	In situ	Flow Event									
	TSS	mg/L	Lab Analysis										
	Conductivity	μs/cm	In situ										
	тос	mg/L	Lab Analysis	Quarterly,	erly.								
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	N	o flow events a	nd/or mine disc	harge occurred	d during samplin	ng period (KC1D	S)		
	рН	рН	In situ	Flow Event	Event								
	TSS	mg/L	Lab Analysis										



	Conductivity	μs/cm	In situ									
	тос	mg/L	Lab Analysis	Quarterly,		No flow quanta a	und/or mine disch		l during compli	a pariad (KC2)		
16	Oil & Grease	mg/L	Lab Analysis	Upon discharge &		NO JIOW EVENTS L	ina/or mine aisch	urge occurred	r auring sampin	ig period (KC20	5)	
	рН	рН	In situ	Flow Event								
	TSS	mg/L	Lab Analysis									
	Conductivity	μs/cm	In situ									
	тос	mg/L	Lab Analysis	Quarterly,		ng period (KC2D	c)					
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &			indy of mine disch		r during sumpin	ig period (RC2D	5/	
	рН	pН	In situ	Flow Event								
	TSS	mg/L	Lab Analysis	rsis Upon								
10	Conductivity	μs/cm	In Situ	Upon discharge								
18	тос	mg/L	Lab Analysis	(within 12 hours)			Not curre	ntly construct	ed (SD7).			
	Conductivity	μs/cm	In situ		1	13/5/22	24/05/22	NA	NA	NA	45	
	тос	mg/L	Lab Analysis	Quarterly,	1	13/5/22	24/05/22	NA	NA	NA	18	
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge & Flow Event	1	13/5/22	24/05/22	NA	NA	NA	<5	
	рН	рН	In situ	FIOW EVENI	1	13/5/22	24/05/22	NA	NA	NA	7.94	
	TSS	mg/L	Lab Analysis		1	13/5/22	24/05/22	NA	NA	NA	52	
	Conductivity	μs/cm	In situ									
20	тос	mg/L	Lab Analysis	Quarterly, Upon		No flow events	and/or mine disc	harae occurre	d during sampli	na neriod (KCD)	5)	
20	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event								
	рН	рН	In situ									



	TSS	mg/L	Lab Analysis											
	Conductivity	μs/cm	In situ											
	тос	mg/L	Lab Analysis	Quarterly,		No flow events and/or mine discharge occurred during sampling period (PCa)								
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &										
	рН	рН	In situ	Flow Event										
	TSS	mg/L	Lab Analysis											
	Conductivity	μs/cm	In situ		1	13/5/22	24/05/22	NA	NA	NA	231			
	тос	mg/L	Lab Analysis	Quarterly,	1	13/5/22	24/05/22	NA	NA	NA	20			
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	13/5/22	24/05/22	NA	NA	NA	6			
	рН	рН	In situ	Flow Event	1	13/5/22	24/05/22	NA	NA	NA	8.93			
	TSS	mg/L	Lab Analysis		1	13/5/22	24/05/22	NA	NA	NA	29			
	рН	рН	In situ	Upon	0									
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Nar	noi discharge po	int – Not cons	tructed or curre	ntly utilised (NF	(1).			
25	рН	рН	In situ	Upon	0									
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Nam	ioi discharge poi	nt – Not const	ructed or currer	ntly utilised (NR	US).			
	рН	рН	In situ	Upon	0									
26	TDS	TDS mg/L Lab (within 4 hrs) 0 Namoi discharge point – Not co					nt – Not const	ructed or currer	ntly utilised (NR	DS).				
	Conductivity	μs/cm	In situ		0									
	рН	рН	In situ		0									
28	SWL	-	In situ	Quarterly	0		Not schedul	ed for samplin	ng during report	ing period				
	Bicarbonate	mg/L	Lab Analysis		0									



	Calairma		Lab																								
	Calcium	mg/L	Analysis		0																						
	Carbonate	mg/L	Lab		0																						
	carbonate	1116/ -	Analysis																								
	Chloride	mg/L	Lab Analysis		0																						
			Lab																								
	Magnesium	mg/L	Analysis		0																						
	Detessium	m a /I	Lab		0																						
	Potassium	mg/L	Analysis		0																						
	Sodium	mg/L	Lab		0																						
		0,	Analysis																								
	Sulfate	mg/L	Lab Analysis		0																						
		<u> </u>			0																						
	Conductivity	μs/cm	In situ		Ũ																						
	рН	рН	In situ		0																						
	SWL	mbtoc	In situ			0																					
	Bicarbonate	mg/L	Lab		0																						
		0,	Analysis																								
	Calcium	mg/L	Lab Analysis						0																		
			Lab		0																						
	Carbonate	mg/L	Analysis		Ū																						
29	Chlorida	···· - /1	Lab	Quarterly	Ouarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Ouarterly	0	Not scheduled for sampling during reporting period														
	Chloride	mg/L	Analysis																								
	Magnesium	mg/L	Lab		0																						
			Analysis																								
	Potassium	mg/L	Lab Analysis		0																						
			Lab		0																						
	Sodium	mg/L	Analysis	-	Ŭ																						
					0																						
	Sulfate	mg/L	Lab Analysis																								
			Analysis																								



	Conductivity	μs/cm	In situ		<u>0</u> 1								
	pH	pH	In situ		0								
	SWL	mbtoc	In situ		0								
	Bicarbonate	mg/L	Lab Analysis		0								
	Calcium	mg/L	Lab Analysis		0								
	Carbonate	mg/L	Lab Analysis		0								
30	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during reporting 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	Quartarly	0	Not schodulad for compline during reporting period							
31	Carbonate	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during reporting 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	Quarterly	0				
32	Chloride	mg/L	Lab Analysis		0	Not scheduled for sampling during reporting 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 reporting period			
33	Carbonate	mg/L	Lab Analysis			0			
	Chloride	mg/L	Lab Analysis		0				



					1																	
	Magnesium	mg/L	Lab		0																	
	-	•	Analysis																			
	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																	
	Bicarbonate	mg/l	Lab		0																	
	Bicarbonate	mg/L	Analysis		0																	
	Calcium	mg/L	Lab	Quarterly		0																
	Calcium	1116/ L	Analysis		0																	
	Carbonate	mg/L	Lab		Quarterly	0																
			Analysis			Quarterly																
34	Chloride	mg/L	Lab				0	Not scheduled for sampling during reporting period														
			Analysis Lab																			
	Magnesium	mg/L	Analysis					0														
			Lab																			
	Potassium	mg/L	Analysis		0																	
			Lab																			
	Sodium	mg/L	Analysis																		0	
	Culfata	···· ~ /1	Lab		0																	
	Sulfate	mg/L	Analysis		0																	
	Conductivity	μs/cm	In situ		0																	
	рН	рН	In situ		0																	
	SWL	mbtoc	In situ		0																	
35	Bicarbonate	mg/l	Lab	Quarterly	0	Not scheduled for sampling during reporting period																
	Dical Dollate	mg/L	Analysis		200000,																	
	Calcium	mg/L	Lab		0																	
	calcium		Analysis																			



Carl	bonate	mg/L	Lab	0	
Cart	bunate	iiig/L	Analysis		
Ch	nloride	mg/L	Lab	0	
	nonue	ilig/ L	Analysis		
Мал	gnesium	mg/L	Lab	0	
Iviag	gnesium	ilig/L	Analysis		
Pot	tassium	mg/L	Lab	0	
POL	lassium	iiig/ L	Analysis		
50	odium	mg/L	Lab	0	
	Julum	iiig/L	Analysis		
5.	ulfate	mg/L	Lab	0	
50	unate	iiig/L	Analysis		



Table 2 - Pollutant Limits Apply (Water)
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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								
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	rge occurred during sa		10	N/A	SD4		
	рН	рН	In situ		0			6.5- 8.5	N/A				
	TSS	mg/L	Lab Analysis		0							N/A	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	rge occurred during sa		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		Not currently construc	ted.			10	N/A	SD7
	рН	рН	In situ		0						6.5- 8.5	N/A	
24	TDS	mg/L	Lab Analysis	Upon	0						350	N/A	ND1
24	рН	рН	In situ	discharge	0	Namoi aischarge	Namoi discharge point – Not constructed or currently utilised.						NR1
	TSS	mg/L	Lab Analysis		0	0     50     N/A       0     No discharge occurred during sampling period     10						N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0							N/A	SD8
	рН	рН	In situ		0	6.5- N/A 8.5							-



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

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

Note: No monitoring scheduled during sampling period



Figure 1 – EPL 12789 Monitoring Locations





# NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789EPA Website Link: <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>Licensee: Narrabri Coal Operations Pty LtdLicensee Address: Narrabri Mine, 10 Kurrajong Creek Road, BAAN BAA NSW 2390EPL Monitoring Points: See Figure 1 belowSampling Period:June 2022Obtained Date:14/07/2022Publication Date:15/07/2022



## 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	14/06/2022	27/06/2022	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)									
13	Conductivity	μs/cm	In situ	Upon discharge	No discharge occurred during sampling period (SD2)								
15	тос	mg/L	Lab Analysis	(within 12 hours)									
	Conductivity	μs/cm	In situ										
	тос	mg/L	Lab Analysis	Quarterly,									
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	N	o flow events a	nd/or mine disc	harge occurred	l during samplir	ng period (KC1U	'S)		
	рН	рН	In situ	Flow Event									
	TSS	mg/L	Lab Analysis										
	Conductivity	μs/cm	In situ										
	тос	mg/L	Lab Analysis	Quarterly,	rlv.								
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	N	o flow events a	nd/or mine disc	harge occurred	l during samplir	ng period (KC1D	S)		
	рН	рН	In situ	Flow Event	Event								
	TSS	mg/L	Lab Analysis										



	Conductivity	μs/cm	In situ						
	тос	mg/L	Lab Analysis	Quarterly,					
16	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during sampling period (KC2US)				
	рН	рН	In situ	Flow Event					
	TSS	mg/L	Lab Analysis						
	Conductivity	μs/cm	In situ						
	тос	mg/L	Lab Analysis	Quarterly,	No flow events and/or mine discharge occurred during sampling period (KC2DS)				
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during sampling period (KC2DS)				
	рН	рН	In situ	Flow Event					
	TSS	mg/L	Lab Analysis						
10	Conductivity	μs/cm	In Situ	Upon discharge					
18	тос	mg/L	Lab Analysis	(within 12 hours)	Not currently constructed (SD7).				
	Conductivity	μs/cm	In situ						
	тос	mg/L	Lab Analysis	Quarterly,					
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge & Flow Event	No flow events and/or mine discharge occurred during sampling period (KCUS)				
	рН	рН	In situ						
	TSS	mg/L	Lab Analysis						
	Conductivity	μs/cm	In situ						
20	тос	mg/L	Lab Analysis	Quarterly, Upon	No flow events and/or mine discharge occurred during sampling period (KCDS)				
20	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	e &				
	рН	рН	In situ						



	TSS	mg/L	Lab								
	Conductivity	μs/cm	Analysis In situ								
	тос	mg/L	Lab	Quarterly,		No flow quarte and/or mine discharge accurred during campling period (DCa)					
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &		No flow events and/or mine discharge occurred during sampling period (PCa)					
	рН	рН	In situ	Flow Event							
	TSS	mg/L	Lab Analysis								
	Conductivity	μs/cm	In situ								
	тос	mg/L	Lab Analysis	Quarterly,							
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &		No flow events and/or mine discharge occurred during sampling period (PC1)					
	рН	pН	In situ	Flow Event							
	TSS	mg/L	Lab Analysis								
	рН	рН	In situ	Upon	0						
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NR1).					
	рН	рН	In situ	Upon	0						
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRUS).					
	рН	рН	In situ	Upon	0						
26	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRDS).					
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
28	SWL	-	In situ	Quarterly	0	Bore was dry during scheduled sampling					
	Bicarbonate	mg/L	Lab Analysis		0						



	1		1			1					
	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	8/6/2022	20/6/2022	-	-	-	15310
	рН	рН	In situ		1	8/6/2022	20/6/2022	-	-	-	7.26
	SWL	mbtoc	In situ		1	8/6/2022	20/6/2022	-	-	-	4.83
	Bicarbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	566
	Calcium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	97
	Carbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1
29	Chloride	mg/L	Lab Analysis	Quarterly	1	8/6/2022	20/6/2022	-	-	-	4540
	Magnesium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	254
	Potassium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	7
	Sodium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	3230
	Sulfate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	700



	Conductivity	μs/cm	In situ		1	8/6/2022	20/6/2022	-	-	-	21459
	рН	рН	In situ		1	8/6/2022	20/6/2022	-	-	-	7.09
	SWL	mbtoc	In situ		1	8/6/2022	20/6/2022	-	-	-	13.18
	Bicarbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	731
	Calcium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	191
	Carbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1
30	Chloride	mg/L	Lab Analysis	Quarterly	1	8/6/2022	20/6/2022	-	-	-	6330
	Magnesium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	510
	Potassium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	22
	Sodium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	4270
	Sulfate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1480
	Conductivity	μs/cm	In situ		1	8/6/2022	20/6/2022	-	-	-	7190
	рН	рН	In situ		1	8/6/2022	20/6/2022	-	-	-	7.1
	SWL	mbtoc	In situ		1	8/6/2022	20/6/2022	-	-	-	16.93
	Bicarbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	807
31	Calcium	mg/L	Lab Analysis	Quarterly	1	8/6/2022	20/6/2022	-	-	-	97
	Carbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1
	Chloride	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1670
	Magnesium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	186



	Potassium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	14
	Sodium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1320
	Sulfate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	391
	Conductivity	μs/cm	In situ		1	8/6/2022	20/6/2022	-	-	-	1865
	рН	рН	In situ		1	8/6/2022	20/6/2022	-	-	-	8.22
	SWL	mbtoc	In situ		1	8/6/2022	20/6/2022	-	-	-	7.5
	Bicarbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	786
	Calcium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1
	Carbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	91
32	Chloride	mg/L	Lab Analysis	Quarterly	1	8/6/2022	20/6/2022	-	-	-	38
	Magnesium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	5
	Potassium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1
	Sodium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	505
	Sulfate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	57
	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	scheduled sam	npling	
	Calcium	mg/L	Lab Analysis		0						
33	Carbonate	mg/L	Lab Analysis		0						



											1					
	Chloride	mg/L	Lab		0											
		0,	Analysis													
	Magnesium	mg/L	Lab		0											
-	0	0,	Analysis													
	Potassium	mg/L	Lab		0											
i –			Analysis													
	Sodium	mg/L	Lab		0											
-			Analysis													
	Sulfate	mg/L	Lab Analysis		0											
		,	Analysis													
i –	Conductivity	μs/cm	In situ		0											
-	рН	рН	In situ		0											
i L	SWL	mbtoc	In situ		0											
	Bicarbonate	mg/L	Lab		0											
i L		6,	Analysis	Quarterly												
	Calcium	mg/L	Lab		0											
		6,	Analysis													
	Carbonate	mg/L	Lab		0											
		6,	Analysis		_	Bore was dry during scheduled sampling										
34	Chloride	mg/L	Lab		0											
-		0.	Analysis													
	Magnesium	mg/L	Lab		0											
-	0	0.	Analysis													
	Potassium	mg/L	Lab		0											
-		0.	Analysis													
	Sodium	mg/L	Lab		0											
-		0.	Analysis													
	Sulfate	mg/L	Lab		0											
			Analysis		1			[	1	1						
i L	Conductivity	μs/cm	In situ		1	8/6/2022	20/6/2022	-	-	-	11217					
i L	рН	рН	In situ		1	8/6/2022	20/6/2022	-	-	-	6.89					
35	SWL	mbtoc	In situ	Quarterly	1	8/6/2022	20/6/2022	-	-	-	18.72					
i F	Disarkanat		Lab		1	0/6/2022	20/6/2022				5280					
1	Bicarbonate	mg/L	Analysis			8/6/2022	20/6/2022	-	-	-	5280					



Calcium	mg/L	Lab Analysis	1	8/6/2022	20/6/2022	-	-	-	49
Carbonate	mg/L	Lab Analysis	1	8/6/2022	20/6/2022	-	-	-	1
Chloride	mg/L	Lab Analysis	1	8/6/2022	20/6/2022	-	-	-	1130
Magnesium	mg/L	Lab Analysis	1	8/6/2022	20/6/2022	-	-	-	75
Potassium	mg/L	Lab Analysis	1	8/6/2022	20/6/2022	-	-	-	75
Sodium	mg/L	Lab Analysis	1	8/6/2022	20/6/2022	-	-	-	2950
Sulfate	mg/L	Lab Analysis	1	8/6/2022	20/6/2022	-	-	-	94



Table 2 - Pollutant Limits Apply (Water)
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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	N/A		
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	rge occurred during sa		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 discha	rge occurred during sa		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		Not currently construc	ted.			10	N/A	SD7	
	рН	рН	In situ		0						6.5- 8.5	N/A		
24	TDS	mg/L	Lab Analysis	Upon	0						350	N/A	ND1	
24	рН	рН	In situ	discharge	0	Namoi aischarge	Namoi discharge point – Not constructed or currently utilised.						NR1	
	TSS	mg/L	Lab Analysis		0				50	N/A				
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during sampling period 10							SD8	
	рН	рН	In situ		0		6.5- N/ 8.5							



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

EPL ID	Date	Measure d Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Weather Compliant Conditions <sup>2</sup>	Compliant (Yes/No)	Date Obtained
		Leq 15min Day	L <sub>eq 15</sub> min Evening	L <sub>eq</sub> 15min Night	LA1 (1 min) Night			(D/E/N)		
	21/06/2022	38	32	27	35	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y/Y/Y	Yes <sup>3</sup>	
N5 <sup>1</sup>	22/06/2022	I/A	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Y/Y/Y	Yes	
	23/06/2022	I/A	I/A	I/A	I/A	<u>L<sub>A1 (1 min</sub>):</u> 45	Night – 1 hr	Y/Y/Y	Yes	
	21/06/2022	I/A	I/A	32	39	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y/Y/N	Yes	
N6	22/06/2022	N/M	30	28	41	35 <u>Night</u>	Evening – 0.5 hrs	Y/Y/N	Yes	
	23/06/2022	N/M	28	29	35	<u>L<sub>A1 (1 min</sub>):</u> 45	Night – 1 hr	Y/Y/Y	Yes	14/07/2022
	21/06/2022	34	30	29	36	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	N/Y/Y	Yes	14/07/2022
N8 <sup>1</sup>	22/06/2022	N/M	I/A	22	24	35 <u>Night</u>	Evening – 0.5 hrs	N/Y/Y	Yes	
	23/06/2022	22	27	27	35	<u>La1 (1 min):</u> 45	Night – 1 hr	Y/N/N	Yes	
	21/06/2022	I/A	I/A	30	35	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y/Y/N	Yes	
N9 <sup>1</sup>	22/06/2022	29	23	24	28	35 <u>Night</u>	Evening – 0.5 hrs	Y/Y/Y	Yes	]
	23/06/2022	32	I/A	21	25	<u>LA1 (1 min):</u> 45	Night – 1 hr	Y/N/Y	Yes	

Note 1: Property is owned by Narrabri Coal Operations

Note 2: Noise levels presented are the highest measured noise level under standard weather conditions over the monitoring period.

Note 3: The Noise Criteria for EPL Monitoring Location N5 (Oakleigh) does not apply as the property is owned by Narrabri Coal and is therefore not a privately owned residence.



Figure 1 – EPL 12789 Monitoring Locations





# NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789EPA Website Link: <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>Licensee: Narrabri Coal Operations Pty LtdLicensee Address: Narrabri Mine, 10 Kurrajong Creek Road, BAAN BAA NSW 2390EPL Monitoring Points: See Figure 1 belowSampling Period:July 2022Obtained Date:28/07/2022Publication Date:01/08/2022



#### 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	14/07/2022	28/07/2022	NA	NA	NA	0.1			
11	Conductivity	μs/cm	In situ	Upon discharge		No	discharge eccu	rrad during car	npling period (S					
11	тос	mg/L	Lab Analysis	(within 12 hours)		NO	uischurge occu	neu uunny sui	nping period (S	D4)				
13	Conductivity	μs/cm	In situ	Upon discharge	2 No discharge occurred during sampling period (SD2)									
15	тос	mg/L	Lab Analysis	(within 12 hours)										
	Conductivity	μs/cm	In situ											
	тос	mg/L	Lab Analysis	Quarterly,										
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during sampling period (KC1US)									
	рН	рН	In situ	Flow Event										
	TSS	mg/L	Lab Analysis											
	Conductivity	μs/cm	In situ											
TOC mg/L Lab Analysis Quarterly,														
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during sampling period (KC1DS)									
	рН	рН	In situ	Flow Event										
	TSS	mg/L	Lab Analysis											



	Conductivity	μs/cm	In situ							
	тос	mg/L	Lab Analysis	Quarterly,						
16	Oil & Grease	mg/L	Lab	Upon discharge &	No flow events and/or mine discharge occurred during sampling period (KC2US)					
	рН	pН	In situ	Flow Event						
	TSS	mg/L	Lab Analysis							
	Conductivity	μs/cm	In situ							
	тос	mg/L	Lab Analysis	Quarterly,	No flow events and/or mine discharge occurred during sampling period (KC2DS)					
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during sampling period (KC2DS)					
	рН	рН	In situ	Flow Event						
	TSS	mg/L	Lab Analysis							
10	Conductivity µs/cm In		In Situ	Upon discharge						
18	тос	mg/L	Lab Analysis	(within 12 hours)	Not currently constructed (SD7).					
	Conductivity	μs/cm	In situ							
	тос	mg/L	Lab Analysis	Quarterly,						
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge & Flow Event	No flow events and/or mine discharge occurred during sampling period (KCUS)					
	рН	рН	In situ							
	TSS	mg/L	Lab Analysis							
	Conductivity	μs/cm	In situ							
20	тос	mg/L	Lab Analysis	Quarterly, Upon	No flow events and/or mine discharge occurred during sampling period (KCDS)					
20	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	&					
	рН	рН	In situ							



	TSS	mg/L	Lab								
			Analysis								
	Conductivity	μs/cm	In situ								
	тос	mg/L	Lab Analysis	Quarterly,	No flow events and/or mine discharge occurred during sampling period (PCa)						
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &		No flow events ana/or mine discharge occurred during sumpling period (FCd)					
	рН	pН	In situ	Flow Event							
	TSS	mg/L	Lab Analysis								
	Conductivity	μs/cm	In situ								
	тос	mg/L	Lab Analysis	Quarterly,							
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	No flow events and/or mine discharge occurred during sampling period (PC1)						
	рН	рН	In situ	Flow Event							
	TSS	mg/L	Lab Analysis								
	рН	рН	In situ	Upon	0						
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NR1).					
	рН	рН	In situ	Upon	0						
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRUS).					
	рН	рН	In situ	Upon	0						
26	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRDS).					
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
28	SWL	-	In situ	Quarterly	0	Not scheduled for sampling during reporting period					
	Bicarbonate	mg/L	Lab Analysis		0						



	<u>г г</u>		<u> </u>		r				
	Calcium	mg/L	Lab		0				
		<u> </u>	Analysis						
	Carbonate	mg/L	Lab		0				
		0,	Analysis						
	Chloride	mg/L	Lab		0				
			Analysis						
	Magnesium	mg/L	Lab		0				
	_		Analysis						
	Potassium	mg/L	Lab		0				
			Analysis						
	Sodium	mg/L	Lab Analysis		0				
	Sulfate	mg/L	Lab		0				
	Sullate	iiig/L	Analysis		0				
	Conductivity	μs/cm	In situ		0				
	рН	pH	In situ		0				
	SWL	mbtoc	In situ		0				
	Bicarbonate	rbonate mg/L	Lab		0				
		_	Analysis						
	Calcium	mg/L	Lab Analysis						l
			Analysis						
	Carbonate	mg/L	Lab Analysis		0				
			Analysis Lab		0				
29	Chloride	mg/L	Lab Analysis	Quarterly	U	Not scheduled for sampling during reporting period			
			Lab		0	4			
	Magnesium	mg/L	Analysis		0				
			Lab		0	1			
	Potassium	mg/L	Analysis		Ŭ				
			Lab		0				
	Sodium	mg/L	Analysis		-				
					0	1			
	Sulfate	mg/L	Lab						
	Sunate		Analysis						
L						1			



	Conductivity	μs/cm	In situ		0	
	рН	pH	In situ		0	
	SWL	mbtoc	In situ		0	
			Lab		0	
	Bicarbonate	mg/L	Analysis			
	Calcium	mg/L	Lab		0	
	Calciulii	iiig/L	Analysis			
	Carbonate	mg/L	Lab		0	
	carbonate	1116/ -	Analysis			
30	Chloride	mg/L	Lab	Quarterly	0	Not scheduled for sampling during reporting period
			Analysis			
	Magnesium	mg/L	Lab		0	
			Analysis Lab		0	
	Potassium	mg/L	Analysis		0	
			Lab		0	
	Sodium	mg/L	Analysis		Ũ	
		//	Lab		0	
	Sulfate	mg/L	Analysis			
	Conductivity	μs/cm	In situ		0	
	-		In situ		0	
	pH SWL	pH mbtoc	In situ		0	
			Lab		0	
	Bicarbonate	mg/L	Analysis		U	
		_	Lab		0	
	Calcium	mg/L	Analysis			
31	Carbarata		Lab	Quarterly	0	Not scheduled for sampling during reporting period
	Carbonate	mg/L	Analysis			
	Chloride	mg/L	Lab		0	
	Chionae	IIIB/ L	Analysis			
	Magnesium	mg/L	Lab		0	
	magnesian		Analysis			
	Potassium	mg/L	Lab		0	
		<u></u> ,	Analysis			



	Sodium	mg/L	Lab Analysis		0		
	Sulfate	mg/L	Lab		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 reporting 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	Bore was dry during scheduled sampling	
33	Carbonate	mg/L	Lab Analysis			0	
	Chloride	mg/L	Lab Analysis		0		



			ا م ا		<u>^</u>		
	Magnesium	mg/L	Lab Analysis		0		
	_		Analysis				
	Potassium	mg/L	Lab		0		
			Analysis				
	Sodium	mg/L	Lab		0		
			Analysis				
	Sulfate	mg/L	Lab		0		
			Analysis				
	Conductivity	μs/cm	In situ		0		
	рН	рН	In situ		0		
	SWL	mbtoc	In situ		0		
	Bicarbonate	mg/L	Lab		0		
	Dicarbonate	iiig/ L	Analysis				
	Calcium	mg/L	Lab		0		
	Calcium	iiig/ L	Analysis				
	Carbonate	mg/L	Lab		0		
	carbonate	iiig/ L	Analysis				
34	Chloride	mg/L	Lab	Quarterly	0	Bore was dry during scheduled sampling	
	enionae	iiig/ L	Analysis				
	Magnesium	mg/L	Lab			0	
	Magnesian	111 <u>6</u> / L	Analysis				
	Potassium	mg/L	Lab		0		
	1 otassiam	111 <u>6</u> / L	Analysis				
	Sodium	mg/L	Lab		0		
	Sourchin	111 <u>6</u> / L	Analysis				
	Sulfate	mg/L	Lab		0		
	Sunate		Analysis				
	Conductivity	μs/cm	In situ		0		
[	рН	рН	In situ		0		
	SWL	mbtoc	In situ		0		
35	Disaula curata		Lab	Quarterly	0	Not scheduled for sampling during reporting period	
	Bicarbonate	mg/L	Analysis				
	Coloium	m g /l	Lab		0		
	Calcium	mg/L	Analysis				



	Carbonate	mg/L	Lab	0	
	Carbonale	iiig/L	Analysis		
	Chloride	mg/L	Lab	0	
	Chionae	ilig/ L	Analysis		
	Magnesium	mg/L	Lab	0	
N	Magnesium	iiig/ L	Analysis		
	Potassium	mg/L	Lab	0	
	Polassium	iiig/ L	Analysis		
	Sodium	mg/L	Lab	0	
	Soulum	iiig/ L	Analysis		
	Sulfate	mg/L	Lab	0	
	Sunate	ilig/L	Analysis		



Table 2 - Pollutant Limits Apply (Water)
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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	N/A	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	No discharge occurred during sampling period						SD4
	рН	рН								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 discha	No discharge occurred during sampling period						SD2
	рН	рН	In situ 0							6.5- 8.5	N/A		
	TSS	mg/L	Lab Analysis		0								
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		Not currently construc	ted.			10	N/A	SD7
	рН	рН	In situ		0						6.5- 8.5	NI/A	
24	TDS	mg/L	Lab Analysis	Upon	0						350	N/A	NR1
24	рН	рН	In situ	discharge	0	Namoi aischarge	Namoi discharge point – Not constructed or currently utilised.						NKT
	TSS	mg/L	Lab Analysis		0								
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during sampling period					10	N/A	SD8
	рН	pH In situ 0							6.5- 8.5	N/A			



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

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

Note: No monitoring scheduled during sampling period



Figure 1 – EPL 12789 Monitoring Locations





# NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789EPA Website Link: <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>Licensee: Narrabri Coal Operations Pty LtdLicensee Address: Narrabri Mine, 10 Kurrajong Creek Road, BAAN BAA NSW 2390EPL Monitoring Points: See Figure 1 belowSampling Period:August 2022Obtained Date:5/09/2022Publication Date:6/09/2022



Table 1	– No	Pollutant	Limits	Apply
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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	11/08/2022	31/08/2022	NA	NA	NA	0.3
11	Conductivity	μs/cm	In situ	Upon discharge	1	30/08/2022	5/09/2022	NA	NA	NA	841
	тос	mg/L	Lab Analysis	(within 12 hours)	I	30/08/2022	5/09/2022	NA	NA	NA	9
13	Conductivity	μs/cm	In situ	Upon discharge	2	25/08/2022 30/08/2022	5/09/2022	696	696.5	696.25	697
15	тос	mg/L	Lab Analysis	(within 12 hours)	2	25/08/2022 30/08/2022	5/09/2022	14	16.5	15.25	19
	Conductivity	μs/cm	In situ	In the event	1	5/08/2022	16/08/2022	NA	NA	NA	92
	тос	mg/L	Lab Analysis	of flow during the quarter &	1	5/08/2022	16/08/2022	NA	NA	NA	12
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	1	5/08/2022	16/08/2022	NA	NA	NA	<5
	рН	рН	In situ	discharge	1	5/08/2022	16/08/2022	NA	NA	NA	7.48
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	686
	Conductivity	μs/cm	In situ	In the event	1	5/08/2022	16/08/2022	NA	NA	NA	358
	тос	mg/L	Lab Analysis	of flow during the quarter &	1	5/08/2022	16/08/2022	NA	NA	NA	16
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	1	5/08/2022	16/08/2022	NA	NA	NA	<5
	рН	рН	In situ	discharge	1	5/08/2022	16/08/2022	NA	NA	NA	8.31
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	40



	Conductivity	μs/cm	In situ	In the event	1	5/08/2022	16/08/2022	NA	NA	NA	119
	тос	mg/L	Lab Analysis	of flow during the quarter &	1	5/08/2022	16/08/2022	NA	NA	NA	23
16	Oil & Grease	mg/L	Lab Analysis	after each wet weather	1	5/08/2022	16/08/2022	NA	NA	NA	<5
	рН	pН	In situ	discharge	1	5/08/2022	16/08/2022	NA	NA	NA	6.61
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	48
	Conductivity	μs/cm	In situ	In the event	1	5/08/2022	16/08/2022	NA	NA	NA	69
	тос	mg/L	Lab Analysis	of flow during the quarter &	1	5/08/2022	16/08/2022	NA	NA	NA	17
17	Oil & Grease	mg/L	Lab Analysis	after each wet weather	1	5/08/2022	16/08/2022	NA	NA	NA	<5
	рН	pН	In situ	discharge	1	5/08/2022	16/08/2022	NA	NA	NA	7.94
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	40
4.0	Conductivity	μs/cm	In Situ	Upon discharge							
18	тос	mg/L	Lab Analysis	(within 12 hours)			Not curre	ntly construct	ed (SD7).		
	Conductivity	μs/cm	In situ	In the event	1	5/08/2022	16/08/2022	NA	NA	NA	349
	тос	mg/L	Lab Analysis	of flow during the quarter &	1	5/08/2022	16/08/2022	NA	NA	NA	12
19	Oil & Grease	mg/L	Lab Analysis	after each wet weather discharge	1	5/08/2022	16/08/2022	NA	NA	NA	<5
	рН	рН	In situ	from points	1	5/08/2022	16/08/2022	NA	NA	NA	6.69
	TSS	mg/L	Lab Analysis	11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	434
	Conductivity	μs/cm	In situ	In the event	1	5/08/2022	16/08/2022	NA	NA	NA	103
20	тос	mg/L	Lab Analysis	of flow during the quarter &	1	5/08/2022	16/08/2022	NA	NA	NA	14
20	Oil & Grease	mg/L	Lab Analysis	after each wet weather	1	5/08/2022	16/08/2022	NA	NA	NA	<5
	рН	рН	In situ	discharge	1	5/08/2022	16/08/2022	NA	NA	NA	6.79



	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	170					
	Conductivity	μs/cm	In situ	In the event	0		NA	NA	NA	NA	NA					
	тос	mg/L	Lab Analysis	of flow during the quarter &	0	5/08/2022	NA	NA	NA	NA	NA					
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	Note: no flow was recorded at	NA	NA	NA	NA	NA					
	рН	рН	In situ	discharge	0	site	NA	NA	NA	NA	NA					
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA	NA					
	Conductivity	μs/cm	In situ	In the event	1	5/08/2022	16/08/2022	NA	NA	NA	141					
	тос	mg/L	Lab Analysis	of flow during the quarter &	1	5/08/2022	16/08/2022	NA	NA	NA	18					
22	Oil & Grease	mg/L	Lab Analysis	after each wet weather	1	5/08/2022	16/08/2022	NA	NA	NA	<5					
	рН	рН	In situ	discharge	1	5/08/2022	16/08/2022	NA	NA	NA	7.55					
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	59					
	рН	рН	In situ	Upon	0											
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NR1).										
	рН	рН	In situ	Upon	0											
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRUS).										
26	рН	рН	In situ	Upon	0											
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Nar	noi discharge poi	int – Not const	tructed or curre	ntly utilised (NF	RDS).					
	Conductivity	μs/cm	In situ		0	1										
	рН	рН	In situ	] [	0	]										
28	SWL	mbtoc	In situ	Quarterly	0	]	Not schedu	led for sampliı	ng during repor	ting period						
	Bicarbonate	mg/L	Lab Analysis		0											



					1	
	Calcium	mg/L	Lab		0	
		ů,	Analysis		_	-
	Carbonate	mg/L	Lab		0	
		8,	Analysis		_	-
	Chloride	mg/L	Lab		0	
		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			
	Conductivity	μs/cm	In situ		0	
	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
			Lab		0	-
	Bicarbonate	mg/L	Analysis		Ū	
			Lab		0	
	Calcium	mg/L	Analysis			
			Lab		0	
	Carbonate	mg/L	Analysis		-	
29		<i>.</i>	Lab	Quarterly	0	Not scheduled for sampling during reporting period
29	Chloride	mg/L	Analysis	Quarterry	_	Not scheduled for sumpling during reporting period
		<i>r</i> .	Lab		0	1
	Magnesium	mg/L	Analysis			
			Lab		0	1
	Potassium	mg/L	Analysis			
	C I'		Lab		0	1
	Sodium	mg/L	Analysis			
					0	]
	Sulfate	mg/L	Lab			
		0,	Analysis			
						1



	Conductivity	μs/cm	In situ		0					
	pH	pH	In situ		0					
	SWL	mbtoc	In situ		0					
			Lab		0					
	Bicarbonate	mg/L	Analysis		_					
		//	Lab		0					
	Calcium	mg/L	Analysis							
	Carbonate	mg/L	Lab		0					
	Carbonate	iiig/L	Analysis							
30	Chloride	mg/L	Lab	Quarterly	0	Not scheduled for sampling during reporting period				
	cilionae		Analysis							
	Magnesium	mg/L	Lab		0					
	5	0,	Analysis			-				
	Potassium	mg/L	Lab		0					
			Analysis Lab		0					
	Sodium	mg/L	Analysis	-	0					
			Lab		0					
	Sulfate	mg/L	Analysis							
	Conductivity	μs/cm	In situ		0					
	рН	рН	In situ			4			0	
	SWL	mbtoc	In situ		0					
	Bicarbonate	mg/L	Lab			0				
		<u> </u>	Analysis							
	Calcium	mg/L	Lab		0					
31			Analysis Lab	Quarterly	0	Not scheduled for sampling during reporting period				
	Carbonate	mg/L	Analysis		0					
			Lab		0	1				
	Chloride	mg/L	Analysis		Ŭ					
			Lab		0	1				
	Magnesium	mg/L	Analysis							
	Potassium	mg/L	Lab		0					
	FULASSIUIT	IIIE/L	Analysis							



	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab		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 reporting 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 reporting period
33	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	



	Magnesium	mg/L	Lab		0												
			Analysis														
	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	1											
	Bicarbonate	mg/L	Lab Analysis		0												
	Calcium	mg/L	Lab Analysis		0												
	Carbonate	mg/L	Lab Analysis	-	0												
34	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during reporting 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 reporting period											
	Calcium	mg/L	Lab Analysis		0												



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



Table 2 - Pollutant Limits Apply (Water)
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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		1	30/08/2022	5/08/2022	NA	NA	19	50	N/A	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	1	30/08/2022	5/08/2022	NA	NA	<5	10	N/A	SD4
	рН	рН	In situ		1	30/08/2022	5/08/2022	NA	NA	8.25	6.5- 8.5	N/A	
	TSS	mg/L	Lab Analysis	·	2	25/08/2022, 30/08/2022	5/08/2022	<5	<5	<5	50	N/A	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	2	25/08/2022, 30/08/2022	5/08/2022	<5	<5	<5	10	N/A	SD2
	рН	рН	In situ		2	25/08/2022, 30/08/2022	N/A						
	TSS	mg/L	Lab Analysis		0					. <u></u>	50	N/A	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	Not currently constructed.						N/A	SD7
	рН	рН	In situ		0								
24	TDS	mg/L	Lab Analysis	Upon	0	Normalistada				1	350	N/A	
24	рН	рН	In situ	discharge	0	Namoi discharge point – Not constructed or currently utilised.						N/A	NR1
	TSS	mg/L	Lab Analysis	<u> </u>	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						6.5- 8.5	N/A	



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

EPL	Date	Measure	Measured	Measured	Measured	Limit(s)	Measurement	Weather	Compliant	Date
ID		d 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							
						<u>Day, Evening &amp;</u>	Day – 1.5 hrs			
						<u>Night:</u>				
N5						35	Evening – 0.5			
						<u>Night</u>	hrs			
						LA1 (1 min):				
						45	Night – 1 hr			
						<u>Day, Evening &amp;</u>	Day – 1.5 hrs			
						<u>Night:</u>				
N6						35	Evening – 0.5			
						<u>Night</u>	hrs			
						<u>LA1 (1 min)</u> :				
	Not s	cheduled for n	nonitoring durii	ng reporting p	eriod	45	Night – 1 hr			
						<u>Day, Evening &amp;</u>	Day – 1.5 hrs			
						<u>Night:</u>				
N8						35	Evening – 0.5			
						<u>Night</u>	hrs			
						LA1 (1 min):				
	4					45	Night – 1 hr			
						Day, Evening &	Day – 1.5 hrs			
						Night:				
N9						35	Evening – 0.5			
						<u>Night</u>	hrs			
						LA1 (1 min):	Night 1 kg			
						45	Night – 1 hr			



Figure 1 – EPL 12789 Monitoring Locations





# NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

 EPL No: 12789

 EPA Website Link: <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>

 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 2022

 Obtained Date:
 12/10/2022

 Publication Date:
 17/10/2022



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	13/09/2022	28/09/2022	NA	NA	NA	0.4
11	Conductivity	μs/cm	In situ	Upon discharge	2	5/09/2022, 16/09/2022	30/09/2022	463	703	703	943
11	тос	mg/L	Lab Analysis	(within 12 hours)	2	5/09/2022, 16/09/2022	30/09/2022	8	10	10	12
13	Conductivity	μs/cm	In situ	Upon discharge	1	16/09/2022	30/09/2022	NA	NA	NA	353
13	тос	mg/L	Lab Analysis	(within 12 hours)	1	16/09/2022	30/09/2022	NA	NA	NA	10
	Conductivity	μs/cm	In situ	In the event	3			77	96	77	121
	тос	mg/L	Lab Analysis	of flow during the quarter &	3	F (00 (0000		8	11	12	14
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	3	5/09/2022 16/09/2022 22/09/2022	30/09/2022	<5	<5	<5	<5
	рН	рН	In situ	discharge	3	22/09/2022		6.74	7.32	7.29	7.49
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	3			29	53	58	71
	Conductivity	μs/cm	In situ	In the event	3			112	317	133	707
	тос	mg/L	Lab Analysis	In the event of flow during the quarter &	3	5/09/2022 16/09/2022 22/09/2022		9	11	11	12
15	Oil & Grease	mg/L	Lab Analysis	after each         wet weather         discharge         from points         11, 13, 18,27	3		30/09/2022	<5	<5	<5	<5
	рН	рН	In situ		3		22	7.29	7.72	7.51	8.35
	TSS	mg/L	Lab Analysis		3			30	102	99	177



	Conductivity	μs/cm	In situ	In the event	2			49	53	53	57
	тос	mg/L	Lab Analysis	of flow during the quarter &	2	16/09/2022 22/09/2022		8	8.5	8.5	9
16	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2	Note: no flow	30/09/2022	<5	<5	<5	<5
	рН	рН	In situ	discharge	2	was recorded		7.1	7.15	7.15	7.2
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2	on 5/09/2022		59	71.5	71.5	84
	Conductivity	μs/cm	In situ	In the event	3			105	210	221	304
	тос	mg/L	Lab Analysis	of flow during the quarter &	3	F (00 (2022		9	11	10	14
17	Oil & Grease	mg/L	Lab Analysis	after each wet weather	3	5/09/2022 16/09/2022	30/09/2022	<5	<5	<5	<5
	рН	рН	In situ	discharge	3	22/09/2022		6.8	7.26	7.49	7.49
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	3			6	26	28	43
18	Conductivity	μs/cm	In Situ	Upon discharge	2	16/09/2022 22/09/2022	30/09/2022	61	76.5	76.5	92
18	тос	mg/L	Lab Analysis	(within 12 hours)	2	16/09/2022 22/09/2022	30/09/2022	3	6	6	9
	Conductivity	μs/cm	In situ	In the event	3			96	264	183	513
	тос	mg/L	Lab Analysis	of flow during the quarter & after each	3	5/09/2022		8	10	9	12
19	Oil & Grease	mg/L	Lab Analysis	wet weather discharge	3	16/09/2022 22/09/2022	30/09/2022	<5	<5	<5	<5
	рН	pН	In situ	from points	3			7.13	7.31	7.25	7.54
	TSS	mg/L	Lab Analysis	11, 13, 18,27	3			26	106	139	153
	Conductivity	μs/cm	In situ	In the event	2	16/09/2022		108	111	111	114
20	тос	mg/L	Lab Analysis	of flow during the quarter &	2	22/09/2022	30/09/2022	7	8.5	8.5	10
20	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2	Note: no flow was recorded	30/09/2022	<5	6.5	6.5	8
	рН	рН	In situ	discharge	2	on 5/09/2022		6.63	6.97	6.97	7.31



	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			88	103	103	118				
	Conductivity	μs/cm	In situ	In the event	1			NA	NA	NA	141				
	тос	mg/L	Lab Analysis	of flow during the quarter &	1	5/09/2022		NA	NA	NA	12				
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	1	Note: sample site was not accessible on	30/09/2022	NA	NA	NA	<5				
	рН	рН	In situ	discharge	1	16/09/2022 &		NA	NA	NA	7.58				
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	1	22/09/2022		NA	NA	NA	28				
	Conductivity	μs/cm	In situ	In the event	3			77	108	77	156				
	тос	mg/L	Lab Analysis	of flow during the quarter &	3	F /00 /2022		7	9	8	12				
22	Oil & Grease	mg/L	Lab Analysis	after each wet weather	3	5/09/2022 16/09/2022	30/09/2022	<5	<5	<5	<5				
	рН	рН	In situ	discharge	3	22/09/2022		7.22	7.29	7.3	7.35				
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	3			25	81	83	135				
	рН	рН	In situ	Upon	0										
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Na	Namoi discharge point – Not constructed or currently utilised (NR1).								
	рН	рН	In situ	Upon	0										
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Nan	noi discharge po	oint – Not cons	tructed or curre	ntly utilised (NF	(US).				
26	рН	рН	In situ	Upon	0	0 Namoi discharge point – Not constructed or currently utilised (NRDS).									
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0										
	Conductivity	μs/cm	In situ		0										
	рН	pН	In situ		0	]									
28	SWL	mbtoc	In situ	Quarterly	arterly 0 Bore was dry during samplin					riod					
	Bicarbonate	mg/L	Lab Analysis	Quarteriy	0										



	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab		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	14/09/22	23/09/2022	NA	NA	NA	19484
	рН	рН	In situ		1	14/09/22	23/09/2022	NA	NA	NA	7.87
	SWL	mbtoc	In situ		1	14/09/22	23/09/2022	NA	NA	NA	4.83
	Bicarbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	536
	Calcium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	136
	Carbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	<1
29	Chloride	mg/L	Lab Analysis	Quarterly	1	14/09/22	23/09/2022	NA	NA	NA	5540
	Magnesium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	297
	Potassium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	8
	Sodium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	3220
	Sulfate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	734



	Conductivity	μs/cm	In situ		1	14/09/22	23/09/2022	NA	NA	NA	19727
	рН	рН	In situ		1	14/09/22	23/09/2022	NA	NA	NA	7.29
	SWL	mbtoc	In situ		1	14/09/22	23/09/2022	NA	NA	NA	13.36
	Bicarbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	757
	Calcium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	153
	Carbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	<1
30	Chloride	mg/L	Lab Analysis	Quarterly	1	14/09/22	23/09/2022	NA	NA	NA	5320
	Magnesium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	361
	Potassium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	18
	Sodium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	3190
	Sulfate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	1160
	Conductivity	μs/cm	In situ		1	14/09/22	23/09/2022	NA	NA	NA	8052
	рН	рН	In situ		1	14/09/22	23/09/2022	NA	NA	NA	7.70
	SWL	mbtoc	In situ		1	14/09/22	23/09/2022	NA	NA	NA	16.90
	Bicarbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	911
21	Calcium	mg/L	Lab Analysis	Quartarly	1	14/09/22	23/09/2022	NA	NA	NA	106
31	Carbonate	mg/L	Lab Analysis	Quarterly	1	14/09/22	23/09/2022	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	1710
	Magnesium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	168
	Potassium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	14



					1		1					
	Sodium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	1190	
	Sulfate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	340	
	Conductivity	μs/cm	In situ		1	14/09/22	23/09/2022	NA	NA	NA	1982	
	рН	pН	In situ		1	14/09/22	23/09/2022	NA	NA	NA	8.84	
	SWL	mbtoc	In situ		1	14/09/22	23/09/2022	NA	NA	NA	7.75	
	Bicarbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	887	
	Calcium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	<1	
	Carbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	67	
32	Chloride	mg/L	Lab Analysis	Quarterly	1	14/09/22	23/09/2022	NA	NA	NA	36	
	Magnesium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	4	
	Potassium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	<1	
	Sodium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	442	
	Sulfate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	56	
	Conductivity	μs/cm	In situ		0							
	рН	рН	In situ		0							
	SWL	mbtoc	In situ		0							
	Bicarbonate	mg/L	Lab Analysis		0	Bore was dry during sampling period						
	Calcium	mg/L	Lab Analysis	Quarterly	0							
33	Carbonate mg/L Lab Analysis			0								
	Chloride	mg/L	Lab Analysis		0							



	Magnesium	mg/L	Lab		0						
		8/ =	Analysis			_					
	Potassium	mg/L	Lab		0						
	i otassiam		Analysis			4					
	Sodium	mg/L	Lab		0						
		8/ =	Analysis			_					
	Sulfate	mg/L	Lab		0						
			Analysis								
	Conductivity	μs/cm	In situ		0						
	рН	pН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/l	Lab		0						
	Bicarbonate	mg/L	Analysis								
	Calcium	mg/L	Lab		0						
	Calcium	ilig/L	Analysis								
	Carbonate	mg/L	Lab		0						
	Carbonate	ilig/L	Analysis								
34	Chloride	mg/L	Lab	Quarterly	0		Bore	e was dry durii	ng sampling pe	riod	
	Chionae	ilig/ L	Analysis								
	Magnesium	mg/L	Lab		0						
	Magnesian	1116/ E	Analysis								
	Potassium	mg/L	Lab		0						
	1 otassiam	1116/ E	Analysis								
	Sodium	mg/L	Lab		0						
	30010111	1116/ 2	Analysis								
	Sulfate	mg/L	Lab		0						
	Sunate	1116/ 2	Analysis		-				•	-	-
	Conductivity	μs/cm	In situ		1	14/09/22	23/09/2022	NA	NA	NA	12446
	рН	рН	In situ		1	14/09/22	23/09/2022	NA	NA	NA	7.22
	SWL	mbtoc	In situ		1	14/09/22	23/09/2022	NA	NA	NA	18.99
35	Disarbanata	m a /I	Lab	Quarterly	1	14/00/22	22/00/2022	NIA	NA	NA	4050
	Bicarbonate	mg/L	Analysis		1	14/09/22	23/09/2022	NA	NA	NA	4950
	Calcium	mall	Lab		1	14/00/22	22/00/2022	ΝΑ	NA	NA	42
	Calcium	mg/L	Analysis		1	14/09/22	23/09/2022	NA	NA	NA	43



Carbonate	mg/L	Lab Analysis	1	14/09/22	23/09/2022	NA	NA	NA	<1
Chloride	mg/L	Lab Analysis	1	14/09/22	23/09/2022	NA	NA	NA	1230
Magnesium	mg/L	Lab Analysis	1	14/09/22	23/09/2022	NA	NA	NA	68
Potassium	mg/L	Lab Analysis	1	14/09/22	23/09/2022	NA	NA	NA	70
Sodium	mg/L	Lab Analysis	1	14/09/22	23/09/2022	NA	NA	NA	2770
Sulfate	mg/L	Lab Analysis	1	14/09/22	23/09/2022	NA	NA	NA	89

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		2	5/09/2022, 16/09/2022	30/09/2022	27	126	225	50	No <sup>1</sup>	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	2	5/09/2022, 16/09/2022	30/09/2022	<5	<5	<5	10	No	SD4
	рН	рН	In situ		2	5/09/2022, 16/09/2022	30/09/2022	8.36	8.4	8.44	6.5- 8.5	No	
	TSS	mg/L	Lab Analysis		1	16/09/2022	30/09/2022	NA	NA	18	50	No	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	1	16/09/2022	30/09/2022	NA	NA	<5	10	No	SD2
	рН	рН	In situ		1	16/09/2022	30/09/2022	NA	NA	7.75	6.5- 8.5	No	
10	TSS	mg/L	Lab Analysis	Upon	2	16/09/2022, 22/09/2022	30/09/2022	1040	1385	1730	50	No <sup>1</sup>	507
18	Oil & Grease	mg/L	Lab Analysis	discharge	2	16/09/2022, 22/09/2022	30/09/2022	<5	<5	<5	10	No	SD7



	рН	рН	In situ		2	16/09/2022, 22/09/2022	30/09/2022	7.93	8.12	8.31	6.5- 8.5	No	
24	TDS	mg/L	Lab Analysis	Upon	0	Namaidiasharaa	noint Not constructo	d or ourror		d	350	N/A	ND1
24	рН	рН	In situ	discharge	0	Namoi aischarge	point – Not constructed	a or currer	itiy utilise	20.	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						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 3 Sept 2022, 15 Sept 2022 and 22 Sept 2022)



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

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	Co Coi	Veath omplia nditio D/E/N	ant ns <sup>2</sup>	Compliant (Yes/No)	Date Obtained
	12/09/2022 <sup>3</sup>	N/M	25	I/A	I/A	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Υ	Ν	Y	Y	
N5 <sup>1</sup>	13/09/2022 <sup>3</sup>	I/A	27	N/M	N/M	35 <u>Night</u>	Evening – 0.5 hrs	Y	N	Y	Y	
	14/09/2022 <sup>3</sup>	37	34	32	40	L <sub>A1 (1 min)</sub> : 45	Night – 1 hr	Y	Υ	Υ	Y	
	12/09/2022 <sup>3</sup>	<25	32	N/M	N/M	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y	N	Ν	Y	
N6	13/09/2022 <sup>3</sup>	I/A	I/A	N/M	N/M	35 Night	Evening – 0.5 hrs	Y	Υ	Ν	Y	
	14/09/2022 <sup>3</sup>	I/A	I/A	N/M	N/M	<u>L<sub>A1 (1 min</sub>):</u> 45	Night – 1 hr	Y	Υ	Y	Y	12/10/2022
	12/09/2022 <sup>3</sup>	N/M	I/A	I/A	I/A	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	γ	Ν	Y	Y	12/10/2022
N8 <sup>1</sup>	13/09/2022 <sup>3</sup>	28	37	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Y	Υ	Y	Y	
	14/09/2022 <sup>3</sup>	37	N/M	35	40	<u>L<sub>A1 (1 min</sub>):</u> 45	Night – 1 hr	Y	Ν	Y	Y	
	12/09/2022 <sup>3</sup>	N/M	28	28	33	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y	N	Ν	Y	
N9 <sup>1</sup>	13/09/2022 <sup>3</sup>	I/A	I/A	25	27	35 <u>Night</u>	Evening – 0.5 hrs	Y	Y	Ν	Y	
	14/09/2022 <sup>3</sup>	I/A	I/A	I/A	I/A	<u>La1 (1 min):</u> 45	Night – 1 hr	Υ	Υ	Y	Y	

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

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

Note 2: Noise levels presented are the highest measured noise level under standard weather conditions over the monitoring period.

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



Figure 1 – EPL 12789 Monitoring Locations





# NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789EPA Website Link: <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>Licensee: Narrabri Coal Operations Pty LtdLicensee Address: Narrabri Mine, 10 Kurrajong Creek Road, BAAN BAA NSW 2390EPL Monitoring Points: See Figure 1 belowSampling Period:October 2022Obtained Date:28/10/2022Publication Date:11/11/2022



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	11/10/2022	25/10/2022	NA	NA	NA	0.2
11	Conductivity	μs/cm	In situ	Upon discharge	1	21/10/2022	28/10/2022	NA	NA	NA	698
11	тос	mg/L	Lab Analysis	(within 12 hours)	1	21/10/2022	28/10/2022	NA	NA	NA	6
13	Conductivity	μs/cm	In situ	Upon discharge	1	21/10/2022	28/10/2022	NA	NA	NA	444
13	тос	mg/l Lab (w	(within 12 hours)	1	21/10/2022	28/10/2022	NA	NA	NA	9	
	Conductivity	μs/cm	In situ	In the event	2	9/10/2022 21/10/2022		56	94.5	NA	133
	тос	mg/L	Lab Analysis	of flow during the quarter &	2			7	10.5	NA	14
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2		28/10/2022	<5	<5	NA	<5
	рН	рН	In situ	discharge	2			7.28	7.76	NA	8.27
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			46	86	NA	126
	Conductivity	μs/cm	In situ	In the event	2			86	125.5	NA	165
	тос	mg/L	Lab Analysis	of flow during the quarter &	2			8	9.5	NA	11
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2	9/10/2022 21/10/2022	28/10/2022	<5	<5	NA	<5
	рН	рН	In situ	discharge	2			7.22	7.23	NA	7.23
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			274	358	NA	442



	Conductivity	μs/cm	In situ	In the event	2			34	52.5	NA	71
	тос	mg/L	Lab Analysis	of flow during the quarter &	2			6	10	NA	14
16	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2	9/10/2022 21/10/2022	28/10/2022	<5	<5	NA	<5
	рН	рН	In situ	discharge	2			7.23	7.27	NA	7.31
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			48	50	NA	52
	Conductivity	μs/cm	In situ	In the event	2			48	69.5	NA	91
	тос	mg/L	Lab Analysis	of flow during the quarter &	2			8	10.5	NA	13
17	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2	9/10/2022 21/10/2022	28/10/2022	<5	<5	NA	<5
	рН	pН	In situ	discharge	2			7.3	7.56	NA	7.81
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			52	195	NA	338
18	Conductivity	μs/cm	In Situ	Upon discharge	2	9/10/2022 21/10/2022	28/10/2022	17	85	NA	153
18	тос	mg/L	Lab Analysis	(within 12 hours)	2	9/10/2022 21/10/2022	28/10/2022	6	8	NA	10
	Conductivity	μs/cm	In situ	In the event	2			40	158	NA	276
	тос	mg/L	Lab Analysis	of flow during the quarter & after each	2	0/10/2022		6	9	NA	12
19	Oil & Grease	mg/L	Lab Analysis	wet weather discharge	2	9/10/2022 21/10/2022	28/10/2022	<5	<5	NA	<5
	рН	рН	In situ	from points	2			7.25	7.3	NA	7.35
	TSS	mg/L	Lab Analysis	11, 13, 18,27	2			60	69	NA	78
	Conductivity	μs/cm	In situ	In the event	2			65	144	NA	223
20	тос	mg/L	Lab Analysis	of flow during the quarter &	2	9/10/2022	28/10/2022	8	10	NA	12
20	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2	21/10/2022	28/10/2022	<5	<5	NA	<5
	рН	рН	In situ	discharge	2			7.04	7.06	NA	7.08



	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			51	96.5	NA	142		
	Conductivity	μs/cm	In situ	In the event	1			NA	NA	NA	120		
	тос	mg/L	Lab Analysis	of flow during the quarter &	1			NA	NA	NA	15		
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	1	9/10/2022	13/10/2022	NA	NA	NA	<5		
	рН	рН	In situ	discharge	1	Note: sample		NA	NA	NA	6.51		
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	1	site was not accessible on 21/10/2022		NA	NA	NA	26		
	Conductivity	μs/cm	In situ	In the event	2			29	77	NA	125		
	тос	mg/L	Lab Analysis	of flow during the quarter &	2			6	7.5	NA	9		
22	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2	9/10/2022 21/10/2022	28/10/2022	<5	<5	NA	<5		
	рН	рН	In situ	discharge	2			7.06	7.28	NA	7.5		
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			24	27	NA	30		
	рН	рН	In situ	Upon	0	Namoi discharge point – Not constructed or currently utilised (NR1).							
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0								
	рН	рН	In situ	Upon	0								
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Nar	noi discharge po	oint – Not consi	tructed or curre	ntiy utilised (NF	(US).		
26	рН	рН	In situ	Upon	0								
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Nar	noi discharge po	oint – Not cons	tructed or curre	ntly utilised (NF	RDS).		
	Conductivity	μs/cm	In situ		0								
	рН	pН	In situ		0	]							
28	SWL	mbtoc	In situ	Quarterly	0	]	Not schedu	uled for sampli	ng during repor	ting period			
	Bicarbonate	mg/L	Lab Analysis		0								



	Г					
	Calcium	mg/L	Lab		0	
		<u> </u>	Analysis			-
	Carbonate	mg/L	Lab		0	
			Analysis			
	Chloride	mg/L	Lab		0	
			Analysis			
	Magnesium	mg/L	Lab		0	
	Widghesidin	1116/ L	Analysis		0	
	Potassium	mg/L	Lab		0	
	Potassium	iiig/L	Analysis		0	
	Sodium	mg/L	Lab		0	
	Souluin	ilig/L	Analysis		0	
	Sulfate		Lab		0	
	Suitate	mg/L	Analysis		0	
	Conductivity	μs/cm	In situ		0	
	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab		0	
	Bical Donate	iiig/L	Analysis			
	Calaium	m g /l	Lab		0	
	Calcium	mg/L	Analysis			
	Carls areasta		Lab		0	
	Carbonate	mg/L	Analysis			
29	Chileriala		Lab	Quarterly	0	Not scheduled for sampling during reporting period
	Chloride	mg/L	Analysis	Quarterry		
			Lab		0	1
	Magnesium	mg/L	Analysis			
			Lab		0	1
	Potassium	mg/L	Analysis			
			Lab		0	1
	Sodium	mg/L	Analysis		_	
					0	
	Sulfate	fate mg/L Lab				
	Sunate	IIIE/L	Analysis			



	Conductivity	μs/cm	In situ		0																	
	pH	pH	In situ		0	-																
	SWL	mbtoc	In situ		0	-																
		motoc	Lab		0																	
	Bicarbonate	mg/L	Analysis		Ū																	
			Lab		0	-																
	Calcium	mg/L	Analysis		C C																	
			Lab		0																	
	Carbonate	mg/L	Analysis																			
30	Chloride	mg/L	Lab	Quarterly	0	Not scheduled for sampling during reporting period																
	Chionae	iiig/ L	Analysis																			
	Magnesium	mg/L	Lab		0																	
	Magnesium	1118/ L	Analysis																			
	Potassium	mg/L	Lab		0																	
			Analysis			_																
	Sodium	mg/L	Lab		0																	
		_	Analysis			-																
	Sulfate	mg/L	Lab Analysis		0																	
					0																	
	Conductivity	μs/cm	In situ		0																	
	рН	pН	In situ		l	l			l	l	l	l									0	
	SWL	mbtoc	In situ		0																	
	Bicarbonate	mg/L	Lab		0																	
	Bical Dollate	iiig/ L	Analysis																			
	Calcium	mg/L	Lab		0																	
31	calcium		Analysis	Quarterly		Not scheduled for sampling during reporting period																
	Carbonate	mg/L	Lab	Quarterry	0	not seleculed for sumpling during reporting period																
			Analysis			-																
	Chloride	mg/L	Lab		0																	
		<u>.</u>	Analysis			4																
	Magnesium	mg/L	Lab		0																	
			Analysis		0	4																
	Potassium	mg/L	Lab Analysis		U																	
			Analysis																			



	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 reporting 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 reporting period
33	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	



1	1									
	Magnesium	mg/L	Lab		0					
ŀ	5	<u>,</u>	Analysis			-				
	Potassium	mg/L	Lab		0					
ļ		- iS	Analysis							
	Sodium	mg/L	Lab		0					
ļ			Analysis							
	Sulfate	mg/L	Lab		0					
			Analysis							
_	Conductivity	μs/cm	In situ		0					
	рН	рН	In situ		0					
	SWL	mbtoc	In situ		0					
Γ	Picarbonato	mg/1	Lab		0					
	Bicarbonate	mg/L	Analysis							
ſ	Calcium	mg/L	Lab		0					
	Calciulii	iiig/L	Analysis							
	Carbonate	mg/L	Lab		0					
	Carbonate	iiig/ L	Analysis							
34	Chloride	mg/L	Lab	Quarterly	0	Not scheduled for sampling during reporting period				
	Chionae		Analysis							
	Magnesium	mg/L	Lab		0					
	Magnesium	····6/ ⊑	Analysis							
	Potassium	mg/L	Lab		0					
Ļ	10003510111	1116/ L	Analysis							
	Sodium	mg/L	Lab		0					
Ļ	Source	····b/ =	Analysis							
	Sulfate	mg/L	Lab		0					
			Analysis							
	Conductivity	μs/cm	In situ		0					
	рН	рН	In situ		0					
	SWL	mbtoc	In situ		0					
35	Picarbonata		Lab	Quarterly	0	Not scheduled for sampling during reporting period				
	Bicarbonate	mg/L	Analysis							
ſ	Calcium	mg/L	Lab		0					
	Calcium	iiig/ L	Analysis							



Carbo	onato	mg/I	Lab	0	-
Carbo	onate	mg/L	Analysis		
Chic	oride	mg/L	Lab	0	
	onue	IIIg/L	Analysis		
Magn	nesium	mg/L	Lab	0	
Iviagii	lesium	iiig/L	Analysis		
Pota	ssium	mg/L	Lab	0	
FOLds	5510111	ilig/L	Analysis		
Sod	dium	mg/L	Lab	0	
500	aium	iiig/L	Analysis		
Sul	fate	mg/L	Lab	0	
Suit	late	ilig/L	Analysis		



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		1	21/10/2022	28/10/2022	NA	NA	53	50	No <sup>1</sup>	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	1	21/10/2022	28/10/2022	NA	NA	<5	10	No	SD4
	рН	рН	In situ		1	21/10/2022	28/10/2022	NA	NA	7.9	6.5- 8.5	No	
	TSS	mg/L	Lab Analysis		1	21/10/2022	28/10/2022	NA	NA	128	50	No <sup>1</sup>	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	1	21/10/2022	28/10/2022	NA	NA	<5	10	No	SD2
	рН	рН	In situ	0-	1	21/10/2022	28/10/2022	NA	NA	8.3	6.5- 8.5	No	
	TSS	mg/L	Lab Analysis		2	9/10/2022 21/10/2022	28/10/2022	953	2717	4480	50	No <sup>1</sup>	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	2	9/10/2022 21/10/2022	28/10/2022	<5	<5	<5	10	No	SD7
	рН	рН	In situ		2	9/10/2022 21/10/2022	28/10/2022	8.4	8.5	8.5	6.5- 8.5	No	
24	TDS	mg/L	Lab Analysis	Upon	0	Namaidiasharra			+l+ili-	- d	350	N/A	NR1
24	рН	рН	In situ	discharge	0	Namoi aischarge <sub>i</sub>	point – Not constructe	ea or currer	itiy utilise	20.	6.5- 8.5	N/A	NKI
	TSS	mg/L	Lab Analysis								50	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						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 8/10/2022 and 20/10/2022)



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

EPL ID	Date	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Weat Comp Conditi	liant ions <sup>2</sup>	Compliant (Yes/No)	Date Obtained
		Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA1 (1 min) Night			(D/E,	/N)		
N5						Day, Evening & <u>Night:</u> 35 <u>Night</u> LA1 (1 min): 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr				
						Day, Evening & <u>Night:</u> 35	Day – 1.5 hrs Evening – 0.5				
N6						<u>Night</u> LA1 (1 min): 45	hrs				
	Not	scheduled for n	nonitoring durii	ng reporting pe	eriod	45 <u>Day, Evening &amp;</u> <u>Night:</u>	Night – 1 hr Day – 1.5 hrs				
N8						35 <u>Night</u> L <sub>A1 (1 min)</sub> :	Evening – 0.5 hrs				
						45 Day, Evening &	Night – 1 hr Day – 1.5 hrs				
						<u>Night:</u> 35	Evening – 0.5				
N9						Night	hrs				
						<u>LA1 (1 min):</u> 45	Night – 1 hr				



Figure 1 – EPL 12789 Monitoring Locations





# NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789EPA Website Link: <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>Licensee: Narrabri Coal Operations Pty LtdLicensee Address: Narrabri Mine, 10 Kurrajong Creek Road, BAAN BAA NSW 2390EPL Monitoring Points: See Figure 1 belowSampling Period:November 2022Obtained Date:25/11/2022Publication Date:13/12/2022



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	10/11/2022	25/11/2022	NA	NA	NA	0.2
11 -	Conductivity	μs/cm	In situ	Upon discharge	2	1/11/2022 14/11/2022	18/11/2022	608	653.5	653.5	699
11	тос	mg/L	Lab Analysis	(within 12 hours)	2	1/11/2022 14/11/2022	18/11/2022	7	8.5	8.5	10
10	Conductivity	μs/cm	In situ	Upon discharge	2	1/11/2022 14/11/2022	18/11/2022	453	522.5	522.5	592
13	тос	mg/L	Lab Analysis	(within 12 hours)	2	1/11/2022 14/11/2022	18/11/2022	11	12.5	12.5	14
	Conductivity	μs/cm	In situ	In the event	2			88	96.5	96.5	105
	тос	mg/L	Lab Analysis	of flow during the quarter &	2			14	15	15	16
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2	1/11/2022 14/11/2022	18/11/2022	<5	<5	<5	<5
	рН	рН	In situ	discharge	2			6.93	7.1	7.1	7.29
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			40	40	40	40
	Conductivity	μs/cm	In situ	In the event	2			117	131.5	131.5	146
	тос	mg/L	Lab Analysis	of flow during the quarter &	2			11	13.5	13.5	16
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2	1/11/2022 14/11/2022	18/11/2022	<5	<5	<5	<5
	рН	рН	In situ	discharge	2	]		7.94	8	8	8.06
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			214	270.5	270.5	327

### Table 1 – No Pollutant Limits Apply



	Conductivity	μs/cm	In situ	In the event	2			62	67.5	67.5	73
	тос	mg/L	Lab Analysis	of flow during the quarter &	2			10	13.5	13.5	17
16	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2	1/11/2022 14/11/2022	18/11/2022	<5	<5	<5	<5
	рН	рН	In situ	discharge	2	-		6.47	6.79	6.79	7.11
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			20	32	32	44
	Conductivity	µs/cm	In situ	In the event	2			66	70	70	74
	тос	mg/L	Lab Analysis	of flow during the quarter &	2			11	14	14	17
17	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2	1/11/2022 14/11/2022	18/11/2022	<5	<5	<5	<5
	рН	pН	In situ	discharge	2			6.93	7.1	7.1	7.26
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			40	40	40	40
18	Conductivity	μs/cm	In Situ	Upon discharge	2	1/11/2022 14/11/2022	18/11/2022	118	198.5	198.5	279
18	тос	mg/L	Lab Analysis	(within 12 hours)	2	1/11/2022 14/11/2022	18/11/2022	8	11	11	14
	Conductivity	μs/cm	In situ	In the event	2			100	108	108	116
	тос	mg/L	Lab Analysis	of flow during the quarter & after each	2	1/11/2022		11	12.5	12.5	14
19	Oil & Grease	mg/L	Lab Analysis	wet weather discharge	2	14/11/2022	18/11/2022	<5	<5	<5	<5
	рН	рН	In situ	from points	2			6.78	6.89	6.89	6.99
	TSS	mg/L	Lab Analysis	11, 13, 18,27	2			94	121	121	148
	Conductivity	μs/cm	In situ	In the event	2			100	122	122	144
20	тос	mg/L	Lab Analysis	of flow during the quarter &	2	1/11/2022	18/11/2022	10	13	13	16
20	Oil & Grease	mg/L	Lab Analysis	after each wet weather	2	14/11/2022	18/11/2022	<5	<5	<5	<5
	рН	рН	In situ	discharge	2			6.31	6.74	6.74	7.16



	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			55	67.5	67.5	80		
	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		
21	Oil & Grease	mg/L	Lab Analysis	after each wet weather	0	accessible o	e site was not n 1/11/2022	NA	NA	NA	NA		
	рН	pН	In situ	discharge	0	and 14/	11/2022	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	2			100	100	100	100		
	тос	mg/L	Lab Analysis	of flow during the quarter &	2	1/11/2022		10	11.5	11.5	13		
22	2 Oil & Grease mg/L Lab Analysis	after each wet weather	after each 2		18/11/2022	<5	<5	<5	<5				
	рН	рН	In situ	discharge	2			6.6	6.94	6.94	7.28		
	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			58	66	66	74		
	рН	рН	In situ	Upon	0								
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NR1).							
25	рН	рН	In situ	Upon	0								
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Nan	noi discharge po	point – Not constructed or currently utilised (NRUS).					
26	рН	рН	In situ	Upon	0								
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Nan	noi discharge p	oint – Not cons	tructed or curre	ently utilised (NF	RDS).		
	Conductivity	μs/cm	In situ		0	0							
	рН	рН	In situ	] [	0	]							
28	SWL	mbtoc	In situ	Quarterly	0	]	Not sched	uled for sampli	ng during repor	ting period			
	Bicarbonate	mg/L	Lab Analysis		0								



		Lah			
Calcium	mg/L			0	
Carbonate	mg/L	Analysis		0	
Chlarida	ma /1	Lab		0	
Chionde	ing/L	Analysis		0	
Magnesium	mg/I			0	
magnesium				•	
Potassium	mg/L			0	
Sodium	mg/L	Analysis		0	
Sulfate	mg/L			0	
				0	
Conductivity	μs/cm	In situ		0	
рН	pН	In situ		0	
SWL	mbtoc	In situ		0	
Picarbonato	mg/I	Lab		0	
Bicarbonate	ing/L	Analysis			
Calcium	mg/I			0	
calcium	···6/ -				
Carbonate	mg/L			0	
	0,				
Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during reporting period
Magnocium	m a /I	Lab		0	
iviagnesium	mg/L	Analysis			
Potassium	mg/l	Lab		0	
i otassium	1116/ L	Analysis			
Sodium	mg/L		-	0	
		Allalysis		0	4
Sulfate	mg/L	Lab Analysis		U	
	Carbonate Chloride Magnesium Potassium Sodium Sulfate Conductivity pH SWL Bicarbonate Calcium Calcium Carbonate Chloride Magnesium Potassium	Carbonatemg/LChloridemg/LMagnesiummg/LPotassiummg/LSodiummg/LSulfatemg/LConductivityµs/cmpHpHSWLmbtocBicarbonatemg/LCalciummg/LCalciummg/LChloridemg/LMagnesiummg/LSodiummg/LSodiummg/L	Carbonatemg/LLab AnalysisCarbonatemg/LLab AnalysisChloridemg/LLab AnalysisMagnesiummg/LLab AnalysisPotassiummg/LLab AnalysisSodiummg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab AnalysisConductivityµs/cmIn situBicarbonatemg/LLab AnalysisCalciummg/LLab AnalysisChloridemg/LLab AnalysisChloridemg/LLab AnalysisMagnesiummg/LLab AnalysisPotassiummg/LLab AnalysisSodiummg/LLab AnalysisSulfatemg/LLab AnalysisMagnesiummg/LLab AnalysisSodiummg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab Analysis	Calciummg/LAnalysisCarbonatemg/LLab AnalysisChloridemg/LLab AnalysisMagnesiummg/LLab AnalysisPotassiummg/LLab AnalysisSodiummg/LLab AnalysisSulfatemg/LLab AnalysisConductivityµs/cmIn situPHpHIn situSWLmg/LLab AnalysisCalciummg/LLab AnalysisCalciummg/LLab AnalysisCarbonatemg/LLab AnalysisChloridemg/LLab AnalysisMagnesiummg/LLab AnalysisPotassiummg/LLab AnalysisMagnesiummg/LLab AnalysisPotassiummg/LLab AnalysisSodiummg/LLab AnalysisSodiummg/LLab AnalysisSulfatamg/LLab Analysis	Calciummg/LAnalysis Lab Analysis0Carbonatemg/LLab Analysis0Chloridemg/LLab Analysis0Magnesiummg/LLab Analysis0Potassiummg/LLab Analysis0Sodiummg/LLab Analysis0Sulfatemg/LLab Analysis0Conductivity $\mu$ s/cmIn situ0PHpHIn situ0SWLmbtocIn situ0Bicarbonatemg/LLab Analysis0Calciummg/LLab Analysis0Calciummg/LLab Analysis0Chloridemg/LLab Analysis0Chloridemg/LLab Analysis0Magnesiummg/LLab Analysis0Magnesiummg/LLab Analysis0Potassiummg/LLab Analysis0Sodiummg/LLab Analysis0Sulfatamg/LLab Analysis0Sodiummg/LLab Analysis0Sulfatamg/LLab Analysis0



		1			0				
	Conductivity	μs/cm	In situ		0	4			
	рН	рН	In situ		0				
	SWL	mbtoc	In situ		0				
	Bicarbonate	mg/L	Lab		0				
	Dicarbonate	1116/ L	Analysis						
	Calcium	mg/L	Lab		0				
	calcium	116/ -	Analysis						
	Carbonate	mg/L	Lab		0				
	carbonate	1116/ L	Analysis						
30	Chloride	mg/L	Lab	Quarterly	0	Not scheduled for sampling during reporting period			
	Chionae	IIIg/ L	Analysis						
	Magnesium	mg/L	Lab		0				
	Magnesian	1116/ L	Analysis						
	Potassium	mg/L	Lab		0				
	i otassium	1116/ L	Analysis						
	Sodium	mg/L	Lab		0				
	Sourchin	1116/ L	Analysis						
	Sulfate	mg/L	Lab		0				
	Sunate	1116/ L	Analysis						
	Conductivity	μs/cm	In situ		0				
	рН	рН	In situ	1				0	
	SWL	mbtoc	In situ		0				
			Lab		0				
	Bicarbonate	mg/L	Analysis		-				
			Lab		0				
	Calcium	mg/L	Analysis						
31			Lab	Quarterly	0	Not scheduled for sampling during reporting period			
	Carbonate	mg/L	Analysis						
			Lab		0	1			
	Chloride	mg/L	Analysis						
			Lab		0				
	Magnesium	mg/L	Analysis						
	Potassium	mg/L	Lab		0				
	i otassium	ш <u>в</u> / L	Analysis						



	Sodium	mg/L	Lab Analysis		0		
	Sulfate	mg/L	Lab		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		
32	Chloride	mg/L	Lab Analysis		0	Not scheduled for sampling during reporting 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 reporting period	
33	Carbonate	mg/L	Lab Analysis		0		
	Chloride	mg/L	Lab Analysis		0		



					-	
	Magnesium	mg/L	Lab		0	
			Analysis			4
	Potassium	mg/L	Lab		0	
			Analysis			4
	Sodium	mg/L	Lab		0	
	-	З,	Analysis			4
	Sulfate	mg/L	Lab		0	
			Analysis			
	Conductivity	μs/cm	In situ		0	
	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab		0	
	Dicarbonate	1116/ L	Analysis	_		
	Calcium	mg/L	Lab		0	
	Calcium	1116/ L	Analysis			
	Carbonate	mg/L	Lab		0	
	carbonate	1116/ L	Analysis	_		
34	Chloride	mg/L	Lab	Quarterly	0	Not scheduled for sampling during reporting period
	emeride		Analysis			
	Magnesium	mg/L	Lab		0	
	magnesium		Analysis			
	Potassium	mg/L	Lab		0	
			Analysis			4
	Sodium	mg/L	Lab		0	
			Analysis			4
	Sulfate	mg/L	Lab		0	
			Analysis			
	Conductivity	μs/cm	In situ		0	
	рН	рН	In situ		0	
	SWL	mbtoc	In situ		0	
35	Bicarbonate	mg/L	Lab	Quarterly	0	Not scheduled for sampling during reporting period
	Bicai DUllate	iiig/L	Analysis			
	Calcium	mg/L	Lab		0	
	Calcium	1118/ 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 (Wat
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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		2	1/11/2022 14/11/2022	18/11/2022	122	271.5	421	50	No <sup>1</sup>	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	2	1/11/2022 14/11/2022	18/11/2022	<5	<5	<5	10	No	SD4
	рН	рН	In situ		2	1/11/2022 14/11/2022	18/11/2022	8.07	8.2	8.32	6.5- 8.5	No	
	TSS	mg/L	Lab Analysis		2	1/11/2022 14/11/2022	18/11/2022	64	102	176	50	No <sup>1</sup>	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	2	1/11/2022 14/11/2022	18/11/2022	<5	<5	<5	10	No	SD2
	рН	рН	In situ		2	1/11/2022 14/11/2022	18/11/2022	7.43	7.83	8.23	6.5- 8.5	No	
	TSS	mg/L	Lab Analysis		2	1/11/2022 14/11/2022	18/11/2022	595	2148	3700	50	No <sup>1</sup>	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	2	1/11/2022 14/11/2022	18/11/2022	<5	<5	<5	10	No	SD7
	рН	рН	In situ		2	1/11/2022 14/11/2022	18/11/2022	7.51	7.86	8.2	6.5- 8.5	No	
24	TDS	mg/L	Lab Analysis	Upon	0	Namaidiadamaa	noint Nationation			- d	350	N/A	NR1
24	рН	рН	In situ	discharge	0	Namoi discharge point – Not constructed or currently utilised.						N/A	NKI
	TSS	mg/L	Lab Analysis		0							N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	rge occurred during r	eporting pe	riod		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 1/11/2022 and 14/11/2022)



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

Q4 Attended noise monitoring was conducted in November, results will be included in the December EPL report.

EPL ID	Date	Measured Levels – dB(A) L <sub>eq 15min Day</sub>	Measured Levels – dB(A) L <sub>eq 15min</sub> Evening	Measured Levels — dB(A) L <sub>eq 15min Night</sub>	Measured Levels — dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions <sup>2</sup> (D/E/N)	Compliant (Yes/No)	Date Obtained
N5						Day, Evening & Night: 35 <u>Night</u> LA1 (1 min): 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr			
N6						<u>Day, Evening &amp;</u> <u>Night:</u> 35 <u>Night</u> <u>La1 (1 min):</u> 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr			
N8						Day, Evening & Night: 35 <u>Night</u> LA1 (1 min): 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr			
N9						<u>Day, Evening &amp;</u> <u>Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr			



Figure 1 – EPL 12789 Monitoring Locations





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Site Information

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Table 1 -	- No	Pollutant	Limits	Apply
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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	12/12/2023	22/12/2022	NA	NA	NA	1.8		
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	uischurge occu	irea aaring san	nping period (S	04)			
13	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									
	тос	mg/L	Lab Analysis	of flow during the quarter &									
14	Oil & Grease	mg/L	Lab Analysis	after each wet weather	N	No flow events and/or mine discharge occurred during sampling period (KC1US)							
	pН	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 &									
15	Oil & Grease	mg/L	Lab Analysis	after each wet weather	No flow events and/or mine discharae occurred during sampling period (K(1))						95)		
	рН	рН	In situ	discharge	pints								
	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	
	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 &	
19	Oil & Grease	mg/L	Lab Analysis	after each 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	In the event of flow during the quarter & after each wet weather discharge	
20	Oil & Grease	mg/L	Lab Analysis		No flow events and/or mine discharge occurred during sampling period (KCDS)
	рН	рН	In situ		



			Lab	from points							
	TSS	mg/L	Analysis	11, 13, 18,27							
	Conductivity	μs/cm	In situ	In the event							
	тос	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)					
			Analysis	wet weather		· · · · · · · · · · · · · · · · · · ·					
·	рН	рН	In situ	discharge from points							
	TSS	mg/L	Lab	11, 13, 18,27							
	Conductivity		Analysis In situ								
·	Conductivity	μs/cm	Lab	In the event							
	тос	mg/L	Analysis	of flow during the quarter &							
·			Lab	after each							
22	Oil & Grease	mg/L	Analysis	wet weather	/	No flow events and/or mine discharge occurred during sampling period (PC1)					
	рН	рН	In situ	discharge							
	TSS	mg/L	Lab	from points							
	155	IIIg/L	Analysis	11, 13, 18,27							
	рН	рН	In situ	Upon							
24		-	Lab	Discharge		Namoi discharge point – Not constructed or currently utilised (NR1).					
	TDS	mg/L	Analysis	(within 4 hrs)							
			·								
25	рН	рН	In situ	Upon Discharge		Namei discharge point Net constructed or surrently utilized (NDUC)					
25	TDS	mg/L	Lab	(within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRUS).					
			Analysis	· · · ·							
26	рН	рН	In situ	Upon							
	TDS	mg/L	Lab	Discharge (within 4 hrs)		Namoi discharge point – Not constructed or currently utilised (NRDS).					
	Conductivity		Analysis								
	Conductivity	μs/cm	In situ		0						
28	pH SWL	pH mbtoc	In situ In situ	Quarterly	0	Bore was dry during sampling period					
20	SVVL	mbtoc		Quarterry	0	bore was ary during sampling period					
	Bicarbonate mg/L	mg/L	mg/L Lab Analysis		0						
		<u> </u>	71101333								



Calcium		Lab		1																						
culcium	mg/L	Analysis		0																						
Carbonate	mg/l	Lab		0	1																					
Carbonate	ilig/L	Analysis		0	_																					
Chloride	mg/L	1		0																						
					-																					
Magnesium	mg/L	1		0																						
Deteccium		Lab		0	-																					
Potassium	mg/L	Analysis		0																						
Sodium	mg/L	Lab		0																						
	0,				_																					
Sulfate	mg/L	Lab Analysis		0																						
Conductivity	μs/cm	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	19661																
рН	рН	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	7.02																
SWL	mbtoc	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	4.33																
Bicarbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	587																
Calcium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	191																
Carbonate	mg/L	Lab		1	20/12/2022	6/01/2023	NA	NA	NA	<1																
Chloride	mg/L	Lab	Quarterly	1	20/12/2022	6/01/2023	NA	NA	NA	7620																
Magnesium	mg/L	Lab		1	20/12/2022	6/01/2023	NA	NA	NA	494																
<b>U</b>	5,		-		-	-	-	-	F	-		-			-	-	-			1		, ,				
Potassium	mg/L	Analysis			20/12/2022	6/01/2023	NA	NA	NA	8																
Sodium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	4100																
Sulfate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	914																
	Magnesium Potassium Sodium Sulfate Conductivity PH SWL Bicarbonate Calcium Calcium Carbonate Chloride Magnesium Potassium	Chloridemg/LMagnesiummg/LPotassiummg/LSodiummg/LSulfatemg/LConductivityµs/cmpHpHSWLmbtocBicarbonatemg/LCalciummg/LCarbonatemg/LMagnesiummg/LMagnesiummg/LSodiummg/LMagnesiummg/LSodiummg/L	Carbonatemg/LAnalysisChloridemg/LLab AnalysisMagnesiummg/LLab AnalysisPotassiummg/LLab AnalysisSodiummg/LLab AnalysisSodiummg/LLab AnalysisSulfatemg/LLab AnalysisConductivityµs/cmIn situpHpHIn situSWLmbtocIn situBicarbonatemg/LLab AnalysisCalciummg/LLab AnalysisChloridemg/LLab AnalysisMagnesiummg/LLab AnalysisPotassiummg/LLab AnalysisPotassiummg/LLab AnalysisSodiummg/LLab AnalysisSodiummg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab Analysis	Carbonatemg/LAnalysisChloridemg/LLab AnalysisMagnesiummg/LLab AnalysisPotassiummg/LLab AnalysisSodiummg/LLab 	Carbonatemg/LAnalysis0Chloridemg/LLab Analysis0Magnesiummg/LLab Analysis0Potassiummg/LLab 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Analysis0Sodiummg/LLab Analysis0Sulfatemg/LLab Analysis0Sulfatemg/LLab Analysis0Sulfatemg/LLab Analysis0Sulfatemg/LLab Analysis1Determine120/12/20226/01/2023PHpHIn situBicarbonatemg/LLab AnalysisCalciummg/LLab AnalysisCarbonatemg/LLab AnalysisCarbonatemg/LLab AnalysisChloridemg/LLab AnalysisMagnesiummg/LLab AnalysisPotassiummg/LLab AnalysisPotassiummg/LLab AnalysisSodiummg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab AnalysisSodiummg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab AnalysisPotassiummg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/LLab AnalysisSulfatemg/L <td< td=""><td>Carbonatemg/LAnalysis Lab Analysis0Chloridemg/LLab Analysis0Magnesiummg/LLab Analysis0Potassiummg/LLab Analysis0Sodiummg/LLab Analysis0Sulfatemg/LLab Analysis0Conductivity<math>\mu</math>s/cmIn situPHpHIn situSWLmbccIn situBicarbonatemg/LLab AnalysisCalciummg/LLab AnalysisCalciummg/LLab AnalysisChloridemg/LLab AnalysisCarbonatemg/LLab 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situBicarbonatemg/LLab AnalysisCalciummg/LLab AnalysisCalciummg/LLab AnalysisCalciummg/LLab AnalysisCalciummg/LLab AnalysisCalciummg/LLab AnalysisCalciummg/LLab AnalysisCalciummg/LLab AnalysisChloridemg/LLab AnalysisChloridemg/LLab AnalysisChloridemg/LLab AnalysisPotassiummg/LLab AnalysisPotassiummg/LLab AnalysisSodiummg/LLab AnalysisPotassiummg/LLab AnalysisSodiummg/LLab AnalysisSulfatemg/LLab AnalysisChloridemg/LLab AnalysisMagnesiummg/LLab AnalysisMagnesiummg/LLab AnalysisPotassiummg/LLab AnalysisMagnesiummg/LLab AnalysisPotassiummg/LLab AnalysisPotassi	Larbonatemg/LAnalysis Lab Analysis0Chloridemg/LLab AnalysisMagnesiummg/LLab AnalysisPotassiummg/LLab AnalysisSodiummg/LLab AnalysisSulfatemg/LLab AnalysisGoductivity $\mu_{S/Cm}$ Image: Lab AnalysisLab AnalysisSulfatemg/LIn situ AnalysisDetassiummg/LIn situ AnalysisGoductivity $\mu_{S/Cm}$ In situ AnalysisPHPHIn situ AnalysisSWLmbccIn situ AnalysisGalciummg/LLab AnalysisCarbonatemg/LLab AnalysisCarbonatemg/LLab 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	Conductivity	μs/cm	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	17343
	рН	рН	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	6.81
	SWL	mbtoc	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	12.85
	Bicarbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	895
	Calcium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	125
	Carbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	<1
30	Chloride	mg/L	Lab Analysis	Quarterly	1	20/12/2022	6/01/2023	NA	NA	NA	5550
	Magnesium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	371
	Potassium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	17
	Sodium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	3200
	Sulfate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	1180
	Conductivity	μs/cm	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	7235
	рН	рН	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	6.86
	SWL	mbtoc	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	16.76
	Bicarbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	920
21	Calcium	mg/L	Lab Analysis	Quantanlu	1	20/12/2022	6/01/2023	NA	NA	NA	113
31	Carbonate	mg/L	Lab Analysis	Quarterly	1	20/12/2022	6/01/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	1750
	Magnesium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	197
	Potassium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	16



	Sodium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	1200		
	Sulfate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	354		
	Conductivity	μs/cm	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	3332		
	рН	pН	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	7.2		
	SWL	mbtoc	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	7.98		
	Bicarbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	746		
	Calcium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	3		
	Carbonate	mg/L	Lab Analysis	Quarterly	1	20/12/2022	6/01/2023	NA	NA	NA	51		
32	Chloride	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	615		
	Magnesium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	12		
	Potassium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	<1		
	Sodium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	747		
	Sulfate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	113		
	Conductivity	μs/cm	In situ		0					1			
	рН	pН	In situ		0	7							
	SWL	mbtoc	In situ		0								
	Bicarbonate	mg/L	Lab Analysis		0								
	Calcium	mg/L	Lab Analysis	Quarterly	0		Bor	e was dry durii	ng sampling per	riod			
33	Carbonate	mg/L	Lab Analysis		0								
	Chloride	mg/L	Lab Analysis		0								



	Magnesium	mg/L	Lab		0											
	Widghestun	1116/ 5	Analysis													
	Potassium	mg/L	Lab		0											
	10003510111	1116/ 5	Analysis			_										
	Sodium	mg/L	Lab		0											
	30010111	116/ -	Analysis													
	Sulfate	mg/L	Lab		0											
			Analysis	]												
	Conductivity	μs/cm	In situ		0											
	рН	рН	In situ		0											
	SWL	mbtoc	In situ		0											
	Bicarbonate mg/L		Lab		0											
	Bicarbonate	ilig/L	Analysis													
	Calcium	mg/L	Lab		0											
	Calcium	ilig/L	Analysis													
	Carbonate	mg/L	Lab		0											
	Carbonate	ilig/L	Analysis													
34	Chloride	mg/L	Lab	Quarterly	0		Bor	re was dry durir	ng sampling per	riod						
	Chionae	ing/L	Analysis			_										
	Magnesium	mg/L	Lab		0											
	Magnesian	1116/ 5	Analysis			_										
	Potassium	mg/L	Lab		0											
	10003510111	1116/ 5	Analysis													
	Sodium	mg/L	Lab		0											
	Sodiam	····6/ -	Analysis													
	Sulfate	mg/L	Lab		0											
			Analysis	]					1	1						
	Conductivity	μs/cm	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	11353					
	рН	pН	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	6.84					
	SWL	mbtoc	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	18.42					
35	Bicarbonate	mg/l	Lab	Quarterly	1	20/12/2022	6/01/2023	NA	NA	NA	4850					
	Dical Dollate	mg/L	Analysis			20/12/2022	0/01/2023				4650					
	Calcium	mg/L	Lab	1	1	20/12/2022	6/01/2023	NA	NA	NA	36					
	Calcium	ш <u>в</u> / с	Analysis			20/12/2022	0/01/2023		INA.	NA NA	50					



Carbonate	mg/L	Lab Analysis	1	20/12/2022	6/01/2023	NA	NA	NA	<1
Chloride	mg/L	Lab Analysis	1	20/12/2022	6/01/2023	NA	NA	NA	1280
Magnesium	mg/L	Lab Analysis	1	20/12/2022	6/01/2023	NA	NA	NA	71
Potassium	mg/L	Lab Analysis	1	20/12/2022	6/01/2023	NA	NA	NA	76
Sodium	mg/L	Lab Analysis	1	20/12/2022	6/01/2023	NA	NA	NA	2910
Sulfate	mg/L	Lab Analysis	1	20/12/2022	6/01/2023	NA	NA	NA	97



### 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			N			50	No	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	rge occurred during sa		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	rge occurred during sa		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 discha	rge occurred during sa	mpling per	riod		10	No	SD7
	рН	рН	In situ		0						6.5- 8.5	No	
	TDS	mg/L	Lab Analysis	Upon	0						350	N/A	
24	рН	рН	In situ	discharge	0	Namoi discharge	point – Not constructe	?d.	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						N/A	SD8
	рН	рН	In situ		0				6.5- 8.5	N/A	<u> </u>		



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

EPL ID	Date	Measured Levels — dB(A) L <sub>eq 15min Day</sub>	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	Veath omplia nditio D/E/N	ant ns <sup>2</sup>	Compliant (Yes/No)	Date Obtained
	21/11/2022 <sup>3</sup>	I/A	28	I/A	I/A	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y	Y	N	Y	
N5 <sup>1</sup>	22/11/2022 <sup>3</sup>	I/A	28	26	35	35 <u>Night</u>	Evening – 0.5 hrs	Y	Y	N	Υ	
	23/11/2022 <sup>3</sup>	I/A	26	<25	25	<u>La1 (1 min):</u> 45	Night – 1 hr	Y	N	Y	Υ	
	22/11/2022	N/M	28	33	44	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y	Y	Y	Y	
N6	23/11/2022	N/M	31	34	41	35 <u>Night</u>	Evening – 0.5 hrs	Υ	N	Y	Y	
	24/11/2022	I/A	31	32	41	<u>LA1 (1 min):</u> 45	Night – 1 hr	Υ	N	Ν	Y	22/12/2022
	22/11/2022	N/M	I/A	I/A	I/A	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Υ	Y	N	Υ	22/12/2022
N8 <sup>1</sup>	23/11/2022	N/M	28	N/M	N/M	35 <u>Night</u>	Evening – 0.5 hrs	Y	N	Ν	Υ	
	24/11/2022	N/M	30	I/A	I/A	<u>L<sub>A1 (1 min</sub>):</u> 45	Night – 1 hr	Y	N	Y	Y	
	21/11/2022 <sup>3</sup>	28	26	29	39	<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs	Y	Y	N	Y	
N9 <sup>1</sup>	22/11/2022 <sup>3</sup>	N.M	25	25	28	35 <u>Night</u>	Evening – 0.5 hrs	Υ	Y	Y	Y	
	23/11/2022 <sup>3</sup>	29	N/M	26	30	<u>La1 (1 min):</u> 45	Night – 1 hr	Υ	Υ	Y	Y	

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: Noise levels presented are the highest measured noise level under standard weather conditions over the monitoring period

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



Figure 1 – EPL 12789 Monitoring Locations

