

Environment Protection Licence Monitoring Data - Water



Project Name:	Coffs Harbour Bypass
Monitoring Period:	Apr-24
EPL Number:	21766
Licencee:	Glennis Barham and Ferenczi Agronom (Australia) Pty Ltd
Premise Address:	Coffs Harbour NSW 2450
Public Register:	https://apps.epa.nsw.gov.au/protection/Detail.aspx?instid=21766&id=21766&option=licence&searchrange=licence&no=0&date=16/04/24
Relevant EPL Conditions:	L2.4, M2.3, M2.4

Sediment Basins (Type D):

Discharge Point	Monitoring Point	Date	TSS (mg/L)		pH		Oil & Grease		Aluminium (mg/L)	Iron (mg/L)	Conductivity (µS/cm)	Comment
			Results	Licence Limit	Results	Licence Limit	Results	Licence Limit				
B1480R	1	3/04/2024	22.8	12	8.16	nil	nil	NA	NA	NA		
B1480R	1	4/04/2024	35.6	NA	8.12	nil	nil	NA	NA	NA		
B1825R	1	4/04/2024	29	NA	7.7	nil	nil	NA	NA	NA		
B1500R	1	8/04/2024	43.5	NA	7.89	nil	nil	NA	NA	NA		
B2100L	1	9/04/2024	29.8	NA	6.5	nil	nil	NA	NA	NA		
B1070R	1	10/04/2024	35.2	NA	8.3	nil	nil	NA	NA	NA		
B1300R	1	10/04/2024	6.2	NA	7.3	nil	nil	NA	NA	NA		
B1145R	1	10/04/2024	4.2	NA	7.4	nil	nil	NA	NA	NA		
B2155R	1	10/04/2024	40	NA	6.8	nil	nil	NA	NA	NA		
B2075R	1	11/04/2024	50	NA	7.6	nil	nil	NA	NA	NA		
B1830R	1	11/04/2024	24	NA	7	nil	nil	NA	NA	NA		
B1825R	1	11/04/2024	30	NA	7.6	nil	nil	NA	NA	NA		
B1480R	1	11/04/2024	52.8	NA	7.65	nil	nil	NA	NA	NA		
B1450R	1	11/04/2024	3.4	NA	7.47	nil	nil	NA	NA	NA		
B1410L	1	12/04/2024	32.3	NA	7.5	nil	nil	NA	NA	NA		
B1420R	1	12/04/2024	24.3	NA	7.96	nil	nil	NA	NA	NA		
B1395R	1	12/04/2024	6	NA	8.15	nil	nil	NA	NA	NA		
B1530R	1	12/04/2024	55.2	NA	7.39	nil	nil	NA	NA	NA		
B1825R	1	12/04/2024	34	NA	7.1	nil	nil	NA	NA	NA		
B1835R	1	12/04/2024	27	NA	8.2	nil	nil	NA	NA	NA		
B1225R	1	15/04/2024	0.9	NA	7.29	nil	nil	NA	NA	NA		
B1420R	1	15/04/2024	1.6	NA	7.63	nil	nil	NA	NA	NA		
B1610R	1	16/04/2024	44.2	NA	7.21	nil	nil	NA	NA	NA		
B1590R	1	14/04/2024	58	NA	7.9	nil	nil	NA	NA	NA		
B2100L	1	23/04/2024	57	NA	7.6	nil	nil	NA	NA	NA		
B2105R	1	24/04/2024	22	NA	7	nil	nil	NA	NA	NA		
B2100L	1	24/04/2024	50	NA	6.5	nil	nil	NA	NA	NA		
B1860R	1	24/04/2024	7.9	NA	6.66	nil	nil	NA	NA	NA		
B1836R	1	24/04/2024	32.8	NA	7.5	nil	nil	NA	NA	NA		
B1420R	1	24/04/2024	10.5	NA	6.83	nil	nil	NA	NA	NA		
B1450R	1	24/04/2024	0.9	NA	6.79	nil	nil	NA	NA	NA		
B1480R	1	26/04/2024	40	NA	7.7	nil	nil	NA	NA	NA		
B1660R	1	26/04/2024	45	NA	8.4	nil	nil	NA	NA	NA		
B1825R	1	29/04/2024	42	NA	8.4	nil	nil	NA	NA	NA		
B2125R	1	29/04/2024	24	NA	7.4	nil	nil	NA	NA	NA		
B2030R	1	29/04/2024	27	NA	7.2	nil	nil	NA	NA	NA		
B1100R	1	30/04/2024	8	NA	7.3	nil	nil	NA	NA	NA		
B1145R	1	30/04/2024	22	NA	7.1	nil	nil	NA	NA	NA		
B1070R	1	30/04/2024	35	NA	7.2	nil	nil	NA	NA	NA		
B1225R	1	27/04/2024	22	NA	7.1	nil	nil	NA	NA	NA		
B1610R	1	30/04/2024	40	NA	7.7	nil	nil	NA	NA	NA		
B1530R	1	30/04/2024	45	NA	7.7	nil	nil	NA	NA	NA		

High Efficiency Sediment Basins (Type B):

Discharge Point	Monitoring Point	Date	Total Suspended Solids (mg/L)	pH	Oil & Grease	Monitoring Frequency	Comment
HEB1500R	4	5/04/2024	9	7.01	nil	Special Frequency 2	
HEB1770R	4	5/04/2024	52	7.05	nil	Special Frequency 2	
HEB2125L	4	5/04/2024	73	6.86	nil	Special Frequency 2	
HEB1500R	4	8/04/2024	9	7	nil	Special Frequency 2	
HEB1770R	4	8/04/2024	85	6.87	nil	Special Frequency 2	
HEB1810R	4	8/04/2024	123	6.98	nil	Special Frequency 2	
HEB1860R	4	8/04/2024	138	6.80	nil	Special Frequency 2	
HEB2125L	4	8/04/2024	76	6.33	nil	Special Frequency 2	
HEB1500R	4	22/04/2024	5	7.2	nil	Special Frequency 2	
HEB1770R	4	22/04/2024	63	7.3	nil	Special Frequency 2	
HEB1810R	4	22/04/2024	180	7.3	nil	Special Frequency 2	
HEB2125L	4	22/04/2024	5	7.5	nil	Special Frequency 2	
HEB1500R	4	26/04/2024	23	7.5	nil	Special Frequency 2	
HEB1770R	4	26/04/2024	64	7.4	nil	Special Frequency 2	
HEB1810R	4	26/04/2024	109	7.4	nil	Special Frequency 2	
HEB2125L	4	26/04/2024	17	7.1	nil	Special Frequency 2	

Water Treatment Plants:

Discharge Point	Monitoring Point	Date Sampled	TSS (mg/L)			pH	Oil & Grease	Arsenic (mg/L)	Cadmium (mg/L)	Chromium VI (mg/L)	Chromium III (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Monitoring Frequency	Comment
			50	6.5 to 8.5	None Visible															
GWTP-1	3	3/04/2024	1	7.03	nil	<0.002	<0.002	<0.004	<0.004	0.01	<0.005	<0.001	<0.001	0.063	<0.0005	<0.001	<0.045	Special Frequency 1		
GWTP-1	3	3/04/2024	1	7.14	nil	<0.001	<0.003	<0.004	0.005	<0.001	<0.005	<0.001	<0.001	0.134	<0.0005	<0.001	0.023	Special Frequency 1	WTP commissioned 12/04/2024	
GWTP-1	3	3/04/2024	1	7.25	nil	<0.004	<0.004	0.005	0.019	<0.001	<0.005	<0.001	<0.001	0.061	<0.0005	<0.001	0.121	Special Frequency 1		
GWTP-1	3	17/04/2024	9	7.23	nil	<0.001	<0.001	0.018	<0.001	0.007	<0.005	<0.001	<0.001	0.079	<0.0005	0.006	0.09	Special Frequency 1		
GWTP-1	3	17/04/2024	17	7.15	nil	<0.001	<0.001	0.014	<0.001	0.012	<0.005	<0.001	<0.001	0.1	<0.0005	0.064	0.322	Special Frequency 1	Eluvial zinc, however other 2 duplicate samples are compliant with EPA limit.	
GWTP-1	3	17/04/2024	32	7.4	nil	<0.001	<0.001	0.028	<0.001	0.003	<0.005	<0.001	<0.001	0.072	<0.0005	0.002	0.033	Special Frequency 1		

Environment Protection Licence Monitoring Data - Air

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Relevant EPL Condition/s: M2.2

Monitoring Point	Start Date	End Date	Date Data Obtained	Solid Particles (g/m ³ /month)	Monitoring Frequency	Rolling Average Criteria	Annual Rolling Average	Comment
DDG1	25/03/2024	23/04/2024	3/05/2024	0.1	Monthly	3.06	1.5	
DDG2	25/03/2024	23/04/2024	3/05/2024	1.7	Monthly	3.59	3.8	
DDG3	25/03/2024	23/04/2024	3/05/2024	0	Monthly	2.68	0.8	
DDG4	25/03/2024	23/04/2024	3/05/2024	0	Monthly	3.25	1.9	
DDG5	25/03/2024	23/04/2024	3/05/2024	0	Monthly	2.91	0.5	
DDG6	25/03/2024	23/04/2024	3/05/2024	0	Monthly	2.84	0.5	
DDG7	25/03/2024	23/04/2024	3/05/2024	0.1	Monthly	2.68	0.8	
DDG8	25/03/2024	23/04/2024	3/05/2024	0	Monthly	2.87	3.0	
DDG9	25/03/2024	23/04/2024	3/05/2024	2.4	Monthly	2.19	0.3	
DDG10	25/03/2024	23/04/2024	3/05/2024	0.3	Monthly	2.28	0.4	
DDG10.5	25/03/2024	23/04/2024	3/05/2024	0.1	Monthly	2.28	0.4	
DDG11	25/03/2024	23/04/2024	3/05/2024	1	Monthly	2.22	0.5	
DDG11.5	25/03/2024	23/04/2024	3/05/2024	0.4	Monthly	2.22	0.5	
DDG12	25/03/2024	23/04/2024	3/05/2024	0.2	Monthly	2.43	0.6	
DDG13	25/03/2024	23/04/2024	3/05/2024	0.5	Monthly	2.26	0.4	
DDG14	25/03/2024	23/04/2024	3/05/2024	0.7	Monthly	2.45	0.4	
DDG15	25/03/2024	23/04/2024	3/05/2024	0	Monthly	2.83	0.3	
DDG16	25/03/2024	23/04/2024	3/05/2024	4.7	Monthly	2.68	2	FGJV Earthworks ongoing at Englands Road Interchange within proximity to gauge.

Environment Protection Licence Monitoring Data - Noise



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Public Register: <https://apps.epa.nsw.gov.au/orpoeoapp/Detail.aspx?instid=21766&id=21766&option=licence&searchrange=licence&range=POEO%20licence&pr=no&status=Issued>
Relevant EPL Conditions: M4.1 - M4.4

Monitoring Location	NCA	Purpose	Relevant EPL Clause	Works Monitored	Date	Time	Attended or Unattended	Parameter	Goal / Target (dBA)	Measured (dBA)	Estimated Construction Contribution (dBA)	Comment
Gatelys North Portal Compound (various distances from generator)	19	Verification Monitoring	P1.2	Generator for tunnelling activities with noise mats	4/04/2024	8:45 AM	Attended	L _{Aeq}	82 @ 7m	SWL = 100dBA	100dBA	SWL of 100 dBA calculated based on spot check for 1250KVA generator after noise mats.
498e Pacific Highway	2	OOH Verification	E2.2	Vegetation removal	17/04/2024	10:20 PM	Attended	L _{Aeq}	55	56	56	Harvestor inaudible from monitoring location - traffic control main source of noise. Recorded levels compliant with prediction.
						10:30 PM				56	56	

Environment Protection Licence Monitoring Data - Blasting (Tunnels)

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EPL Number: 21766
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Relevant EPL Condition: L5.1-L5.4

Blast Location	Date	Time	Monitoring Location	Vibration Limit (mm/s)	Ground Vibration Result (mm/s)	Airblast Overpressure Limit (dBL)	Airblast Overpressure Result (dBL)	Comments
Gatelys North Portal - NB	9/04/2024	10:44 AM	94 Gatelys Road	5	0.96	115	105.5	Airblast exceedance recorded at 172 West Korora Road and 84 Gatelys Road.
			84 Gatelys Road	5	0.5	115	123.7	
			172 West Korora Road	5	0.39	115	121	
Gatelys North Portal - NB	19/04/2024	4:27 PM	94 Gatelys Road	5	0.68	115	96.3	Compliant.
			84 Gatelys Road	5	0.32	115	112.7	
			172 West Korora Road	5	0.32	115	110	
Gatelys North Portal - SB	24/04/2024	5:20 PM	94 Gatelys Road	5	0.45	115	117.7	Airblast exceedance recorded at 172 West Korora Road. Exceedance of limit 1 recorded at 84 Gatelys Road.
			84 Gatelys Road	5	0.43	115	124	
			172 West Korora Road	5	0.32	115	116.7	
Gatelys North Portal - SB	29/04/2024	1:06 PM	94 Gatelys Road	5	0.1	115	115.8	Airblast exceedances of limit 1 recorded at 172 West Korora Road, 84 Gatelys Road and 94 Gatelys Road.
			84 Gatelys Road	5	0.43	115	115.8	
			172 West Korora Road	5	0.32	115	116.7	

Environment Protection Licence Monitoring Data - Blasting (Civil)

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Public Register: <https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21766&id=21766&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued>
Relevant EPL Condition/s: L5.1-L5.4

Blast Location	Blast Ref	Date	Time	Monitoring Location	Vibration Limit (mm/s)	Ground Vibration Result (mm/s)	Airblast Overpressure Limit (dBL)	Airblast Overpressure Result (dBL)	Comments
Cut 16	17	19/04/2024	2:15 PM	53 Bruxner Park Road	10	2.439	125	104.90	Compliant.
				15 Bruxner Park Road	10	4.607	125	97.50	Compliant.
				108 West Korora Road	25	4.675	125	104.90	Compliant.
Cut 4	99	24/04/2024	2:30 PM	52 Buchanans Road	10	0.97	125	114.60	Compliant.
				56 Buchanans Road	10	1.12	125	115.90	Compliant.
				60 Buchanans Road	10	DNT	125	DNT	Compliant.