

Environment Protection Licence Monitoring Data - Water



Project Name:	Coffs Harbour Bypass
Monitoring Period:	Sep-24
EPL Number:	21766
Licencee:	Gamuda Berhad and Ferrovial Agroman (Australia) Pty. Ltd.
Premise Address:	Coffs Harbour NSW 2450
Public Register:	https://apps.epa.nsw.gov.au/proposalop/Detail.aspx?netid=21766&d=21766&option=licence&searchrange=licence&range=POEO%20licence&pr=no&status=Issued
Relevant EPL Condition/s:	L2.4, M2.3, M2.4

Sediment Basins (Type D):

Discharge Point	Monitoring Point	Date	Turbidity (NTU)	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	Results				
B14200R	1	2/9/2024	49		NA		6.7		nil	NA	NA	NA	
B11000R	1	9/9/2024	50		NA		6.9		nil	NA	NA	NA	
B11000R	1	9/19/2024	42.3		NA		7.14		nil	NA	NA	NA	
B11000R	1	9/24/2024	23.4		NA		7.2		nil	NA	NA	NA	
B15300R	1	9/24/2024	19		NA		7.8		nil	NA	NA	NA	
B15900R	1	9/24/2024	52		NA		7.9		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
HEB 15000R	4	9/13/2024	<2	7.6	nil	Special Frequency 2	
HEB 17700R	4	9/13/2024	4	7.5	nil	Special Frequency 2	
HEB21750L	4	9/13/2024	6	7.7	nil	Special Frequency 2	
HEB 15000R	4	9/27/2024	150	7.48	nil	Special Frequency 2	
HEB 17700R	4	9/27/2024	125	7.83	nil	Special Frequency 2	
HEB18100R	4	9/27/2024	66	7.81	nil	Special Frequency 2	
HEB21750R	4	9/27/2024	109	7.77	nil	Special Frequency 2	
HEB 15000R	4	9/28/2024	41	6.84	nil	Special Frequency 2	
HEB 17700R	4	9/28/2024	121	6.53	nil	Special Frequency 2	
HEB18100R	4	9/28/2024	40	7.43	nil	Special Frequency 2	
HEB 18650R	4	9/28/2024	96	7.23	nil	Special Frequency 2	
HEB21750L	4	9/28/2024	239	6.56	nil	Special Frequency 2	

Water Treatment Plants:

Discharge point	Monitoring Point	Date	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	0.05	0.014	0.07	0.15	0.04	1.5	0.03	2.5	0.0007	0.2	0.15	N/A	N/A
WTP-01-GN	3	8/20/2024	6	7.5	nil	<0.012	<0.002	0.036	0.016	0.004	0.064	<0.008	0.13	<0.1	<0.004	0.003	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	22-08-24	20-09-24	2-10-24	0.7	Monthly	3.06	1.2	
DDG2	22-08-24	20-09-24	2-10-24	3.4	Monthly	3.59	2.9	
DDG3	22-08-24	20-09-24	2-10-24	0.7	Monthly	2.68	0.8	
DDG4	22-08-24	20-09-24	2-10-24	1.7	Monthly	3.25	1.5	
DDG5	22-08-24	20-09-24	2-10-24	0.5	Monthly	2.91	0.5	
DDG6	22-08-24	20-09-24	2-10-24	0.8	Monthly	2.84	0.5	
DDG7	22-08-24	20-09-24	2-10-24	1.5	Monthly	2.68	1.5	
DDG8	22-08-24	20-09-24	2-10-24	1.1	Monthly	2.87	1.0	
DDG9	22-08-24	20-09-24	2-10-24	0.5	Monthly	2.19	0.9	
DDG10	22-08-24	20-09-24	2-10-24	1.4	Monthly	2.28	1.8	
DDG10.5	22-08-24	20-09-24	2-10-24	0.8	Monthly	2.28	1.1	
DDG11	22-08-24	20-09-24	2-10-24	1.5	Monthly	2.22	1.4	
DDG11.5	22-08-24	20-09-24	2-10-24	1.2	Monthly	2.22	1.2	
DDG12	22-08-24	20-09-24	2-10-24	13.9*	Monthly	2.43	0.8	*Result is inconsistent with other nearby gauges in the DDG network, including DDG 13 (0.8g/m2/month, ~450m away). Result has therefore been ruled an anomaly and it is not included in the annual rolling average.
DDG13	22-08-24	20-09-24	2-10-24	0.8	Monthly	2.26	1.2	
DDG14	22-08-24	20-09-24	2-10-24	1	Monthly	2.45	1	
DDG15	22-08-24	20-09-24	2-10-24	0.6	Monthly	2.83	0.7	
DDG16	22-08-24	20-09-24	2-10-24	2.2	Monthly	2.68	2.7	

Environment Protection Licence Monitoring Data - Noise



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Relevant EPL Condition/s: M4.1 - M4.4

Monitoring Location	NCA	Purpose	Relevant EPL Clause	Works Monitored	Date	Time	Attended or Unattended	Parameter	Goal / Target (dBA)	Measured (dBA)	Esimated Construction Contribution (dBA)	Comment
63 Rovere Drive	16	Verification	P1.2	Pile pours Bridge 12	9/09/2024	8:10 PM	Attended	LAeq15min	50	50	49	Compliant with prediction.
						8:29 PM				51	49	

Environment Protection Licence Monitoring Data - Blasting (Tunnels)

Project Name: [C251 Tunnel System](#)
 Monitoring Point: [101020](#)
 EPA Number: [7310](#)
 Licence: [Controlled Method and Essential Activities \(Subclass\) Pty Ltd](#)
 Licence Number: [101020](#)
 Public Register: [http://www.epa.gov.au/licences/101020](#)
 EPL Number: [101020](#)

Tunnel	Point	Start Date	Start Time	7310 Max Ambient (dB) - 120 WdB	7310 Max Ambient (dB) - 120 WdB	7310 Max Vibration (mm/s) - 200	7310 Max Vibration (mm/s) - 200	7400 Max Ambient (dB) - 84 Gndly	7400 Ambient (dB) - 170A	7400 Vibration (mm/s) - 170A	7400 Ambient (dB) - 170C	7400 Vibration (mm/s) - 170C	7400 Ambient (dB) - 170E	7400 Vibration (mm/s) - 170E	Comments
GAT	N	10/01/2014	00:00	NA	NA	NA	NA	117.0	NA	0.18	120.0	0.1	NA	NA	Minor impact in 90% P100 (Gndly) only
GAT	N	10/01/2014	00:06	110	110	0.8	0.8	116.0	NA	NA	NA	NA	NA	NA	
GAT	N	10/01/2014	00:09	110	110	0.86	0.86	117	NA	NA	NA	NA	NA	NA	
GAT	N	10/01/2014	00:16	110	110	0.99	0.99	116.0	NA	0.17	117.0	0.15	118.0	0.15	
GAT	N	10/01/2014	00:26	110	110	0.89	0.89	116.0	NA	NA	NA	NA	NA	NA	
GAT	N	10/01/2014	00:33	110	110	0.85	0.85	116.0	NA	0.27	120.0	0.27	122.0	0.28	
GAT	N	10/01/2014	00:38	110	110	0.85	0.85	116.0	NA	0.18	120.0	0.18	116.7	0.18	
GAT	N	10/01/2014	00:47	110	110	0.92	0.92	116.0	NA	NA	NA	NA	NA	NA	
GAT	N	10/01/2014	00:59	110	110	0.99	0.99	117	NA	NA	NA	NA	NA	NA	
GAT	N	10/01/2014	01:06	110	110	0.95	0.95	117.0	NA	0.19	120.0	0.19	122.0	0.19	
GAT	N	10/01/2014	01:17	110	110	0.89	0.89	117	NA	NA	NA	NA	NA	NA	
GAT	N	10/01/2014	01:25	110	110	0.85	0.85	116.0	NA	0.18	120.0	0.18	116.0	0.18	
GAT	N	10/01/2014	01:31	110	110	0.81	0.81	117	NA	NA	NA	NA	NA	NA	
GAT	N	10/01/2014	01:35	110	110	0.81	0.81	117.0	NA	0.18	120.0	0.18	116.0	0.18	
GAT	N	10/01/2014	01:42	110	110	0.85	0.85	117.0	NA	0.1	118.0	0.19	122.0	0.19	
GAT	N	10/01/2014	01:50	110	110	0.92	0.92	117.0	NA	NA	NA	NA	NA	NA	
GAT	N	10/01/2014	01:58	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	02:03	110	110	0.85	0.85	116.0	NA	NA	NA	NA	NA	NA	
GAT	N	10/01/2014	02:10	110	110	0.83	0.83	116.0	NA	NA	NA	NA	NA	NA	
GAT	N	10/01/2014	02:18	110	110	0.86	0.86	116.0	NA	0.18	120.0	0.18	118.0	0.18	
GAT	N	10/01/2014	02:26	110	110	0.86	0.86	117.0	NA	NA	NA	NA	NA	NA	
GAT	N	10/01/2014	02:33	110	110	0.86	0.86	117	NA	NA	NA	NA	NA	NA	
GAT	N	10/01/2014	02:40	110	110	0.86	0.86	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	02:48	110	110	0.85	0.85	116.0	NA	0.18	120.0	0.18	118.0	0.18	
GAT	N	10/01/2014	02:55	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	03:02	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	03:10	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	03:17	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	03:25	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	03:32	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	03:40	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	03:47	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	03:55	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	04:02	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	04:10	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	04:17	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	04:25	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	04:32	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	04:40	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	04:47	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	04:55	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	05:02	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	05:10	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	05:17	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	05:25	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	05:32	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	05:40	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	05:47	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	05:55	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	06:02	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	06:10	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	06:17	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	06:25	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	06:32	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	06:40	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	06:47	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	06:55	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	07:02	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	07:10	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	07:17	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	07:25	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	07:32	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	07:40	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	07:47	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	07:55	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	08:02	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	08:10	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	08:17	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	08:25	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	08:32	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	08:40	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	08:47	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	08:55	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	09:02	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	09:10	110	110	0.85	0.85	116.0	NA	0.17	120.0	0.17	118.0	0.17	
GAT	N	10/01/2014	09:17</												

Environment Protection Licence Monitoring Data - Blasting (Civil)

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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 5B	Blast 9	9/9/2024	2:15	15A Nelson Street	25.000	23.970	125.00	120.20	
				15B Nelson Street	25.000	8.372	125.00	88.20	
				15 & 15C Nelson Street	25.000	14.720	125.00	114.60	
				353C Coramba Road	25.000	3.700	125.00	112.30	
				52 Buchanans Road	25.000	2.469	125.00	101.00	
Cut 5B	Blast 10	9/18/2024	2:15	15A Nelson Street	25.000	19.62	125.00	119.30	
				15B Nelson Street	25.000	19.61	125.00	112.70	
				15 & 15C Nelson Street	25.000	1.40	125.00	114.20	
				353C Coramba Road	25.000	1.61	125.00	106.50	
				52 Buchanans Road	25.000	12.47	125.00	108.40	