

Environment Protection Licence Monitoring Data - Water

Project Name:	Coffs Harbour Bypass
Monitoring Period:	Dec-24
EPL Number:	21766
Licensee:	Gamuda Berhad and Ferrovia Agroman (Australia) Pty. Ltd.
Premise Address:	Coffs Harbour NSW 2450
Public Register:	https://apps.epa.nsw.gov.au/prpoeapp/Detail.aspx?instid=21766&id=21766&option=licence&searchrange=licence&range=POEO%20licence&prp=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				
B14500R	1	03/12/2024	14		NA		8.3		nil	NA	NA	NA	
B14100L	1	03/12/2024	32		NA		7.3		nil	NA	NA	NA	
B20300R	1	03/12/2024	30		NA		8.4		nil	NA	NA	NA	
B21100L	1	03/12/2024	24		NA		8.5		nil	NA	NA	NA	
B11000R	1	04/12/2024	50		NA		7.7		nil	NA	NA	NA	
B11000R	1	09/12/2024	48		NA		7.1		nil	NA	NA	NA	
B11450R	1	09/12/2024	50		NA		7.6		nil	NA	NA	NA	
B12600L	1	09/12/2024	50		NA		7.7		nil	NA	NA	NA	
B21100L	1	09/12/2024	27		NA		8.3		nil	NA	NA	NA	
B16650R	1	09/12/2024	44		NA		7.7		nil	NA	NA	NA	
B11000R	1	11/12/2024	55		NA		7.3		nil	NA	NA	NA	
B12600L	1	11/12/2024	57		NA		7.5		nil	NA	NA	NA	
B12600L	1	12/12/2024	8		NA		8.1		nil	NA	NA	NA	
B15900R	1	13/12/2024	50		NA		7.6		nil	NA	NA	NA	
B11450R	1	13/12/2024	55		NA		7.4		nil	NA	NA	NA	
B11000R	1	16/12/2024	54		NA		7.3		nil	NA	NA	NA	
B11450R	1	16/12/2024	51		NA		7.6		nil	NA	NA	NA	
B11600R	1	16/12/2024	52		NA		7.6		nil	NA	NA	NA	
B12600L	1	16/12/2024	53		NA		7.7		nil	NA	NA	NA	
B13950R	1	16/12/2024	50		NA		7.3		nil	NA	NA	NA	
B14500R	1	16/12/2024	50		NA		8		nil	NA	NA	NA	
B13950R	1	16/12/2024	60		NA		7.3		nil	NA	NA	NA	
B15900R	1	16/12/2024	23		NA		8.3		nil	NA	NA	NA	
B18200R	1	16/12/2024	2		NA		6.8		nil	NA	NA	NA	
B10700R	1	17/12/2024	19		NA		7.5		nil	NA	NA	NA	
B11000R	1	17/12/2024	51		NA		7.3		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	12/01/2024	138	8.05	nil	Special Frequency 2	
HEB 17700R	4	12/01/2024	13	7.99	nil	Special Frequency 2	
HEB18100R	4	12/01/2024	6	7.78	nil	Special Frequency 2	
HEB 18650R	4	12/01/2024	4	7.65	nil	Special Frequency 2	
HEB21750L	4	12/01/2024	13	7.97	nil	Special Frequency 2	
HEB 15000R	4	12/11/2024	28	6.8	nil	Special Frequency 2	
HEB 17700R	4	12/11/2024	10	7	nil	Special Frequency 2	
HEB18100R	4	12/11/2024	7	7.3	nil	Special Frequency 2	
HEB 18650R	4	12/11/2024	9	7.2	nil	Special Frequency 2	
HEB21750L	4	12/11/2024	264	6.7	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)
			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
WTP-01-GN	3	12/09/2024	3	7.6	Nil	<0.012	<0.002	<0.010	<0.010	<0.003	0.005	<0.008	0.091	<0.0001	<0.004	0.003
WTP-01-SN	3	12/13/2024	12	7	Nil	<0.012	<0.002	<0.010	<0.010	<0.003	<0.003	<0.008	<0.002	<0.0001	<0.004	<0.002

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	20-11-24	20-10-24	18-12-24	1.1	Monthly	3.06	1.2	
DDG2	20-11-24	20-10-24	18-12-24	1.6	Monthly	3.59	3.3	
DDG3	20-11-24	20-10-24	18-12-24	0.51	Monthly	2.68	1.1	
DDG4	20-11-24	20-10-24	18-12-24	0.57	Monthly	3.25	1.3	
DDG5	20-11-24	20-10-24	18-12-24	0.17	Monthly	2.91	0.5	
DDG6	20-11-24	20-10-24	18-12-24	0.1	Monthly	2.84	0.5	
DDG7	20-11-24	20-10-24	18-12-24	0.33	Monthly	2.68	1.6	
DDG8	20-11-24	20-10-24	18-12-24	0.1	Monthly	2.87	1.0	
DDG9	20-11-24	20-10-24	18-12-24	0.33	Monthly	2.19	0.9	
DDG10	20-11-24	20-10-24	18-12-24	1.6	Monthly	2.28	2	
DDG10.5	20-11-24	20-10-24	18-12-24	0.62	Monthly	2.28	0.6	
DDG11	20-11-24	20-10-24	18-12-24	0.61	Monthly	2.22	1.3	
DDG11.5	20-11-24	20-10-24	18-12-24	0.1	Monthly	2.22	1.1	
DDG12	20-11-24	20-10-24	18-12-24	0.1	Monthly	2.43	1.3	
DDG13	20-11-24	20-10-24	18-12-24	0.2	Monthly	2.26	1.2	
DDG14	20-11-24	20-10-24	18-12-24	0.3	Monthly	2.45	1.5	
DDG15	20-11-24	20-10-24	18-12-24	0.1	Monthly	2.83	0.9	
DDG16	20-11-24	20-10-24	18-12-24	2.4	Monthly	3.59	3	

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)	Estimated Construction Contribution (dBA)	Comment
94 Gatleys Rd	N/A	Response to Community Complaint	M7.7	Tunnelling	13/12/2024 - 17/12/2024	2:25 PM - 8:30 AM	Unattended	LAEQ	N/A	<35dBA	<35dBA	No construction noise audible on audio recordings during periods of rock hammering. Works compliant.

Tunnel	Portal	Start Date	Start Time	7755 Max Airflow (dBS) - 172 WGR	7755 Max Airflow (Banana Shelf) (dBS)	7755 Max Vibration (Banana Shelf) (mm/s)	7819 Max Airflow (dBS): 84 Gatelys Road	7889 Airflow (dBS): 1718 Mackays Road	7889 Vibration (mm/s): 1718 Mackays Road	7737 Airflow (dBS): 173C Mackays Road	7737 Vibration (mm/s): 173C Mackays Road	7704 Airflow (dBS): 135 Mackays Road	7704 Vibration (mm/s): 135 Mackays Road	Comments
GAT	S	2/12/2024	17:35	N/A	N/A	N/A	N/A	100.2	0.31		0.4	N/A	N/A	
GAT	N	6/12/2024	12:50	N/A	126.9	1.25	126	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	N	9/12/2024	12:34	N/A	121.4	0.7	122.7	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	15/12/2024	10:15	N/A	N/A	N/A	N/A	114.3	0.38	118.4	0.42	N/A	N/A	

Tunnel	Portal	Blast Date	Blast Time	260 Shephards Lane 7750 Ashburst (dB)	260 Shephards Lane 7755 Vibration (mm/s)	270 Shephards Lane 7820 Ashburst (dB)	270 Shephards Lane 7825 Vibration (mm/s)	266 Shephards Lane 7461 Ashburst (dB)	266 Shephards Lane 7461 Vibration (mm/s)	Reverse Dr 7726 Ashburst (dB)	Reverse Dr 7726 Vibration (mm/s)	Comments
SHEP	S	2/12/2024	17:34	115.3	0.12	112.9	0.06	112.9	0.06	107.4	0.18	
SHEP	S	3/12/2024	18:07	121.9	0.81	113.8	0.06	113.8	0.06	108.1	0.26	
SHEP	S	4/12/2024	15:45	120	0.76	115.5	0.13	115.5	0.13	112.6	0.2	
SHEP	S	7/12/2024	9:30	121.2	0.61	110.4	0.06	110.4	0.06	107.4	0.09	
SHEP	S	9/12/2024	15:52	115.7	0.23	111	0.08	111	0.08	117.4	0.22	
SHEP	S	11/12/2024	12:27	112.7	0.16	114.1	0.06	114.1	0.06	107.7	0.1	
SHEP	S	12/12/2024	14:13	120.9	0.13	112.1	0.06	112.1	0.06	106.2	0.11	
SHEP	S	17/11/2024	12:03	117.8	0.27	116.1	0.16	116.1	0.16	107.7	0.17	

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 11	Blast 1	6/12/2024	2:00	Rover Drive Residence	25	16.52	125	109.50	
Cut 5B	Blast 11	17/12/2024	2:15	15A Nelson Street	25	9.61	125	113.4	
				15B Nelson Street	15	3.939	125	115.2	
				15 & 15C Nelson Street	25	3.42	125	110.9	
				353C Coramba Road	15	2.336	125	102.0	
				52 Buchanans Road	10	4.396	125	110.6	