

Environment Protection Licence Monitoring Data - Water



Project Name:	Coffs Harbour Bypass
Monitoring Period:	May-25
EPL Number:	21766
Licensee:	Gamuda Berhad and Ferrovial Agroman (Australia) Pty. Ltd.
Premise Address:	Coffs Harbour NSW 2450
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:	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	Licence Limit				
B15900R	1	7/05/2025	30		NA		8.4		nil		NA	NA	NA	
B15500R	1	7/05/2025	50		NA		8.3		nil		NA	NA	NA	
B10700R	1	8/05/2025	55		NA		7.6		nil		NA	NA	NA	
B18200R	1	9/05/2025	37		7		7.3		nil		NA	NA	NA	
B14100L	1	12/05/2025	50		NA		8.3		nil		NA	NA	NA	
B9850R	1	16/05/2025	56		NA		7.7		nil		NA	NA	NA	
B14500R	1	19/05/2025	34		NA		8.3		nil		NA	NA	NA	
B15900R	1	19/05/2025	32		NA		7.7		nil		NA	NA	NA	
B15500R	1	19/05/2025	34		NA		7.7		nil		NA	NA	NA	
B10700R	1	26/05/2025	49		NA		7.9		nil		NA	NA	NA	
B11000R	1	26/05/2025	48		NA		7.7		nil		NA	NA	NA	
B18200R	1	27/05/2025	39		NA		6.6		nil		NA	NA	NA	
B9850R	1	28/05/2025	44		NA		6.7		nil		NA	NA	NA	
B12600L	1	29/05/2025	57		NA		7.1		nil		NA	NA	NA	
B11000R	1	29/05/2025	42		NA		7		nil		NA	NA	NA	
B15900R	1	30/05/2025	30		NA		8.1		nil		NA	NA	NA	
B18250R	1	30/05/2025	37		NA		7		nil		NA	NA	NA	
B12600L	1	30/05/2025	55		NA		7.3		nil		NA	NA	NA	
B11000R	1	30/05/2025	40		NA		7.2		nil		NA	NA	NA	
									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 In	4	5/05/2025	485	7.00	nil	Special Frequency 2	
HEB 15000R out	4	5/05/2025	10	6.70	nil	Special Frequency 2	
HEB 17700R In	4	5/05/2025	6490	10.40	nil	Special Frequency 2	
HEB 17700R out	4	5/05/2025	32	7.70	nil	Special Frequency 2	
HEB18100R In	4	5/05/2025	406	7.40	nil	Special Frequency 2	
HEB18100R out	4	5/05/2025	2	7.80	nil	Special Frequency 2	
HEB 18650R in	4	5/05/2025	146	7.30	nil	Special Frequency 2	
HEB 18650R out	4	5/05/2025	36	7.20	nil	Special Frequency 2	
HEB 15000R In	4	10/05/2025	139	5.50	nil	Special Frequency 2	
HEB 15000R out	4	10/05/2025	23	5.20	nil	Special Frequency 2	
HEB 17700R In	4	10/05/2025	52	6.10	nil	Special Frequency 2	
HEB 17700R out	4	10/05/2025	13	5.90	nil	Special Frequency 2	
HEB18100R In	4	10/05/2025	6	5.50	nil	Special Frequency 2	
HEB18100R out	4	10/05/2025	15	5.50	nil	Special Frequency 2	
HEB 18650R in	4	10/05/2025	11	6.20	nil	Special Frequency 2	
HEB 18650R out	4	10/05/2025	8	6.00	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)
Shep-S	3	1/05/2025	2	7.8	Nil	<0.012	<0.002	0.004	<0.01	<0.003	<0.003	<0.008	0.01	<0.0001	<0.004	0.047
Rob-S	3	1/05/2025	3	7.8	Nil	<0.012	<0.002	<0.002	<0.01	<0.003	0.078	<0.008	0.021	<0.0001	<0.004	0.01
Shep-N	3	5/05/2025	2	7	Nil	<0.012	<0.002	<0.010	<0.010	<0.003	0.005	<0.008	0.037	<0.0001	<0.004	0.019
Rob-S	3	15/05/2025	2	7.8	Nil	<0.012	<0.002	<0.010	<0.010	<0.006	<0.003	<0.008	0.006	<0.0003	<0.004	0.002
Shep-S	3	15/05/2025	2	7.9	Nil	<0.015	<0.002	<0.010	<0.010	<0.009	<0.003	<0.008	0.01	<0.0006	<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	19/04/2025	19/05/2025	4/06/2025	0.11	Monthly	3.06	0.9	
DDG2	19/04/2025	19/05/2025	4/06/2025	0.25	Monthly	3.59	3.2	
DDG3	19/04/2025	19/05/2025	4/06/2025	0.29	Monthly	2.68	1.4	
DDG4	19/04/2025	19/05/2025	4/06/2025	0.35	Monthly	3.25	1.1	
DDG5	19/04/2025	19/05/2025	4/06/2025	0.3	Monthly	2.91	0.5	
DDG6	19/04/2025	19/05/2025	4/06/2025	0.32	Monthly	2.84	0.5	
DDG7	19/04/2025	19/05/2025	4/06/2025	0.35	Monthly	2.68	2.1	
DDG8	19/04/2025	19/05/2025	4/06/2025	0.36	Monthly	2.87	0.6	
DDG9	19/04/2025	19/05/2025	4/06/2025	0.42	Monthly	2.19	1.6	
DDG10	19/04/2025	19/05/2025	4/06/2025	0.49	Monthly	2.28	2	
DDG10.5	19/04/2025	19/05/2025	4/06/2025	0.44	Monthly	2.28	0.7	
DDG11	19/04/2025	19/05/2025	4/06/2025	Sample Jar broken	Monthly	2.22	1.6	
DDG11.5	19/04/2025	19/05/2025	4/06/2025	0.32	Monthly	2.22	1.3	
DDG12	19/04/2025	19/05/2025	4/06/2025	0.38	Monthly	2.43	2	
DDG13	19/04/2025	19/05/2025	4/06/2025	0.17	Monthly	2.26	1.3	
DDG14	19/04/2025	19/05/2025	4/06/2025	0.27	Monthly	2.45	1.6	
DDG15	19/04/2025	19/05/2025	4/06/2025	0.34	Monthly	2.83	1.2	
DDG16	19/04/2025	19/05/2025	4/06/2025	0.33	Monthly	3.59	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
Shephards portal South - @58.5m away from tunnel	N/A	Verification for tunnelling	P1.2	Shephards South portal, spraying shotcrete inside southbound, doors open for ag's. Northbound hammering near northern end, doors closed.	1/05/2025	12:04 AM	Attended	L _{Aeq}	NA	65	N/A	Verification of noise from tunnels. EMM to check report.

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Monitoring Location	Purpose	Relevant EPL Clause	Works Monitored	Date	Time	Attended or Unattended	Parameter	Vibration Criteria	Maximum Vibration Measured	Comment
No Monitoring undertaken										

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Tunnel	Portal	Blast Date	Blast Time	7225 Airblast (dB) - 260 Shepherds Lane	7275 Vibration (mm/s) - 260 Shepherds Lane	7292 Airblast (dB) - 270 Shepherds Lane	7292 Vibration (mm/s) - 270 Shepherds Lane	7641 Airblast (dB) - 266 Shepherds Lane	7641 Vibration (mm/s) - 266 Shepherds Lane	7728 Airblast (dB) - Rovers Drive	7726 Vibration (mm/s) - Rovers Drive	Comments
SHEP	S	1/06/2025	13:08	123.8	0.79	120.3	0.24	NA	NA	130.2	0.37	
SHEP	S	5/06/2025	8:03	116.6	0.94	112.1	0.21	NA	NA	111.6	0.42	
SHEP	S	8/06/2025	7:02	136.3	2.05	130.5	0.67	NA	NA	132.2	0.74	
SHEP	S	21/06/2025	7:07	108.8	0.17	107.5	0.28	NA	NA	NA	NA	
SHEP	S	23/06/2025	13:46	113.3	0.3	110.6	0.08	NA	NA	NA	NA	
SHEP	S	24/06/2025	10:28	115.4	0.08	110.4	0.06	109.7	0.1	NA	NA	

	Portal	Blast Date	Blast Time	56 Buchanan RD 7008 Airblast (dB)	56 Buchanan RD 7008 Vibration (mm/s)	52 Buchanan RD 7165 Airblast (dB)	52 Buchanan RD 7165 Vibration (mm/s)	60 Buchanan RD 7270 Airblast (dB)	60 Buchanan RD 7270 Vibration (mm/s)	Comments
ROB	5	1/06/2025	17:20	126	0.47	120.8	1.55	121.5	0.56	
ROB	5	2/06/2025	7:29	127	0.7	120.1	3.95	122.7	1.78	
ROB	5	3/05/2025	9:26	128.5	0.7	128.1	2.62	122.6	1.23	
ROB	5	5/05/2025	12:27	122.7	0.62	124.6	4.69	120.1	0.99	
ROB	5	6/06/2025	7:03	127.5	0.88	126.6	3.17	122.7	1.22	
ROB	5	7/06/2025	14:37	127.7	1.14	124.6	6.88	122.5	2.08	
ROB	5	9/06/2025	7:08	121	0.54	119.3	2.85	117	0.67	
ROB	5	10/06/2025	10:03	125.5	0.85	122.9	4.41	121	1.33	
ROB	5	10/06/2025	10:03	125.5	0.85	122.9	4.41	121	1.33	
ROB	5	12/06/2025	7:09	123.3	0.57	123.8	3.58	121.5	0.91	
ROB	5	45789	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
ROB	5	13/06/2025	10:39	120.5	0.65	119.7	3.49	119.4	1.33	
ROB	5	13/06/2025	16:28	123.7	0.59	121.7	4.77	119.1	1.46	
ROB	5	15/06/2025	7:18	122.2	0.36	120.9	2.8	112.7	0.77	
ROB	5	15/06/2025	7:19	126.1	0.65	122.7	3.85	122.5	1.3	
ROB	5	16/06/2025	7:06	125.3	0.7	121.8	4.61	119.9	1.46	
ROB	5	17/06/2025	9:12	120.8	0.36	116.4	3.26	119.8	1.01	
ROB	5	17/06/2025	12:18	118.5	0.57	117.2	3.11	116.6	0.72	
ROB	5	18/06/2025	7:01	122.6	0.78	117.2	4.77	117.3	1.17	
ROB	5	18/06/2025	7:01	122.6	0.78	117.2	4.77	117.3	1.17	
ROB	5	20/06/2025	12:30	125.8	0.65	118.8	4.17	121.4	1.09	
ROB	5	20/06/2025	16:36	126.3	0.47	116.8	2.46	120.6	0.96	
ROB	5	23/06/2025	16:01	122.8	0.49	111.2	4.64	117.9	0.91	
ROB	5	24/06/2025	9:09	123.5	0.47	114.7	1.63	107	0.34	
ROB	5	26/06/2025	7:05	127.7	1.11	116.6	7.19	120.7	1.78	
ROB	5	26/06/2025	7:05	127.7	1.11	116.6	7.19	120.7	1.78	
ROB	5	27/06/2025	7:15	125.2	0.52	112.3	4.3	118.2	1.41	
ROB	5	27/06/2025	16:41	125.8	0.54	114.4	4.19	120.2	1.12	
ROB	5	28/06/2025	7:13	124.3	0.7	115.8	3.47	121.2	1.49	
ROB	5	29/06/2025	7:14	124.3	0.72	117	4.82	118.9	1.73	
ROB	5	29/06/2025	7:14	124.3	0.72	117	4.82	118.9	1.73	
ROB	5	31/06/2025	10:08	121.8	0.85	115.6	7.34	120.9	1.81	
ROB	5	31/06/2025	10:08	121.8	0.85	115.6	7.34	120.9	1.81	

COFFS HARBOUR BYPASS **team**

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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
No Blasting									