

Environment Protection Licence Monitoring Data - Water



Project Name:	Coffs Harbour Bypass
Monitoring Period:	Mar-24
EPL Number:	21766
Licensee:	Gamuda Berhad and Ferrovial Agroman (Australia) Pty. Ltd.
Premise Address:	Coffs Harbour NSW 2450
Public Register:	https://epds.epa.nsw.gov.au/epdsapp/Detail.aspx?mstid=21766&ct=21766&option=licence&searchrange=licence&range=POE%20licence&prp=no&status=Issued
Relevant EPL Conditions:	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
			Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results				
B10700R	1	01/03/2024		9.2		NA		7.3		nil	NA	NA	NA	
B11000R	1	01/03/2024		2.8		<2		6.8		nil	NA	NA	NA	
B11450R	1	01/03/2024		15		NA		6.8		nil	NA	NA	NA	
B12600R	1	01/03/2024		8		NA		8.2		nil	NA	NA	NA	
B18250R	1	01/03/2024		18.7		NA		7.3		nil	NA	NA	NA	
B15300R	1	04/03/2024		47		NA		7.05		nil	NA	NA	NA	
B18250R	1	05/03/2024		18		NA		6.8		nil	NA	NA	NA	
B11000R	1	05/03/2024		12.4		NA		7.2		nil	NA	NA	NA	
B18250R	1	05/03/2024		18		23		6.8		nil	NA	NA	NA	
B20750R	1	07/03/2024		12		NA		8		nil	NA	NA	NA	
B21050R	1	11/03/2024		7		NA		7.2		nil	NA	NA	NA	
B18250R	1	12/03/2024		11		NA		6.8		nil	NA	NA	NA	
B21100L	1	12/03/2024		35		NA		7		nil	NA	NA	NA	
B21100L	1	13/03/2024		51		NA		7.6		nil	NA	NA	NA	
B14200R	1	13/03/2024		19		NA		7.83		nil	NA	NA	NA	
B14200R	1	15/03/2024		18.6		NA		7.63		nil	NA	NA	NA	
B20750R	1	19/03/2024		50		NA		8.1		nil	NA	NA	NA	
B14200R	1	19/03/2024		24.2		NA		7.68		nil	NA	NA	NA	
B21100L	1	20/03/2024		54		NA		6.9		nil	NA	NA	NA	
B14200R	1	20/03/2024		25		NA		7.51		nil	NA	NA	NA	
B18250R	1	25/03/2024		9		NA		7.2		nil	NA	NA	NA	
B21050R	1	25/03/2024		45		NA		6.7		nil	NA	NA	NA	
B21100L	1	25/03/2024		49		19		7.2		nil	NA	NA	NA	
B15300R	1	25/03/2024		31.8		5		8.45		nil	NA	NA	NA	
B11000R	1	26/03/2024		5		NA		7.6		nil	NA	NA	NA	
B11450R	1	26/03/2024		8		NA		7.1		nil	NA	NA	NA	

High Efficiency Sediment Basins

(Type B):

Discharge Point	Monitoring Point	Date	Turbidity (NTU)	Total Suspended Solids (mg/L)	pH	Oil & Grease	Monitoring Frequency	Comment
HEB 15000R	4	19/03/2024	4.6	13	6.52	nil	Special Frequency 2	
HEB 17700R	4	19/03/2024	279	60	6.75	nil	Special Frequency 2	
HEB 21750L	4	19/03/2024	147	39	6.46	nil	Special Frequency 2	

Environment Protection Licence Monitoring Data - Air



Project Name: Coffs Harbour Bypass
Monitoring Period: Mar-24
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&pr=no&status=issued>
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	26/02/2024	25/03/2024	8/04/2024	3.1	Monthly	3.06	1.6	
DDG2	26/02/2024	25/03/2024	8/04/2024	2.1	Monthly	3.59	3.9	Driveway works ongoing at Handybin (adjacent to DDG) during exposure period.
DDG3	26/02/2024	25/03/2024	8/04/2024	0.3	Monthly	2.68	0.8	
DDG4	26/02/2024	25/03/2024	8/04/2024	1.5	Monthly	3.25	2	
DDG5	26/02/2024	25/03/2024	8/04/2024	0.2	Monthly	2.91	0.6	
DDG6	26/02/2024	25/03/2024	8/04/2024	0.6	Monthly	2.84	0.6	
DDG7	26/02/2024	25/03/2024	8/04/2024	0.3	Monthly	2.68	1.2	
DDG8	26/02/2024	25/03/2024	8/04/2024	0.3	Monthly	2.87	2.2	
DDG9	26/02/2024	25/03/2024	8/04/2024	0.3	Monthly	2.19	0.8	
DDG10	26/02/2024	25/03/2024	8/04/2024	1.2	Monthly	2.28	1.8	
DDG10.5	26/02/2024	25/03/2024	8/04/2024	0.1	Monthly	2.28	1.8	
DDG11	26/02/2024	25/03/2024	8/04/2024	0.4	Monthly	2.22	1.7	
DDG11.5	26/02/2024	25/03/2024	8/04/2024	0.6	Monthly	2.22	1.7	
DDG12	26/02/2024	25/03/2024	8/04/2024	0.5	Monthly	2.43	1	
DDG13	26/02/2024	25/03/2024	8/04/2024	0.66	Monthly	2.26	1.7	
DDG14	26/02/2024	25/03/2024	8/04/2024	0.6	Monthly	2.45	0.8	
DDG15	26/02/2024	25/03/2024	8/04/2024	0.5	Monthly	2.83	0.7	
DDG16	26/02/2024	25/03/2024	8/04/2024	3.4	Monthly	2.68	1.6	

Environment Protection Licence Monitoring Data - Noise



Project Name: Coffs Harbour Bypass
Monitoring Period: Mar-24
EPL Number: 21766
Licensee: Camuda Behad and Ferroval Agroman (Australia) Pty. Ltd.
Premise Address: Coffs Harbour NSW 2450
Public Register: <https://apps.epa.nsw.gov.au/lorpoapps/Detail.aspx?instid=21766&id=21766&option=licence&searchrange=licence&range=POEO%20licence&pr=no&status=Issued>
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
Approx 30m from portal (noise source)	19	Verification Monitoring	P1.2	Shotcrete on Gatelys North NB Portal	6/03/2024	5:49 PM	Attended	LAeq15min	50 @ 172 WKR	69	69	SPL @ resident calculated at 45dBA.
Front of 498 Pacific Highway	2	Response to Community Complaint	M7.1	Dozer pushing fill material	8/03/2024	8:15AM - 5:00 PM	Unattended	LAeq15min	68	67	67	Noise level compliant with prediction.
KHI (approx. 70m from works)	20	OOH Verification Monitoring	E.2.2	Bridge 19 Reinforced Soil Wall Construction	23/03/2024	7:30 AM	Attended	LAeq15min	69	67	67	Noise levels compliant with predictions.
KHI (approx. 70m from works)	20					8:33 AM	Attended	LAeq15min	69	63	63	
KHI (approx. 255m from works)	23					9:03 AM	Attended	LAeq15min	55	54	52	
Front of 172 West Korora Road	19	Response to Community Complaint	M7.1	D8 Dozer pushing rock	28/03/2024	11:46 AM	Attended	LAeq15min	58	50	50	Noise level below prediction.

Environment Protection Licence Monitoring Data - Blasting (Tunnels)

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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 (dB)	Airblast Overpressure Result (dB)	Comments
Gatelys North Portal - NB	4/03/2024	2:24 PM	94 Gatelys Road	5	DNT	115	DNT	Airblast exceedances recorded at 84 Gatelys Road and 172 West Korora Road. Results reported as non-compliant with limits. Monitor not triggered at 94 Gatelys Road due to lack of power source at the device.
			84 Gatelys Road	5	0.41	115	118.7	
			172 West Korora Road (approximated)*	5	0.26	115	117.9	
Gatelys North Portal - SB	5/03/2024	11:52 AM	94 Gatelys Road	5	DNT	115	DNT	Airblast exceedances recorded at 172 West Korora Road. Results reported as non-compliant with limits. Monitor not triggered at 94 Gatelys Road due to lack of power source at the device.
			84 Gatelys Road	5	0.37	115	114.7	
			172 West Korora Road (approximated)*	5	0.24	115	122.9	
Gatelys North Portal - NB	8/03/2024	12:49 PM	94 Gatelys Road	5	DNT	115	DNT	Airblast exceedances recorded at 84 Gatelys Road and 172 West Korora Road. Results reported as non-compliant with limits. Monitor not triggered at 94 Gatelys Road due to lack of power source at the device.
			84 Gatelys Road	5	0.81	115	118	
			172 West Korora Road (approximated)*	5	0.43	115	118.9	
Gatelys North Portal - SB	8/03/2024	4:36 PM	94 Gatelys Road	5	DNT	115	DNT	Airblast exceedances recorded at 84 Gatelys Road and 172 West Korora Road. Results reported as non-compliant with limits. Monitor not triggered at 94 Gatelys Road due to lack of power source at the device.
			84 Gatelys Road	5	0.3	115	117.5	
			172 West Korora Road (approximated)*	5	0.23	115	117.5	
Gatelys North Portal - SB	12/03/2024	4:37 PM	94 Gatelys Road	5	0.59	115	101.7	Airblast exceedances recorded at 84 Gatelys Road and 172 West Korora Road. Results reported as non-compliant with limits. Monitor not triggered at 94 Gatelys Road due to lack of power source at the device.
			84 Gatelys Road	5	0.39	115	120.9	
			172 West Korora Road (approximated)*	5	0.2	115	121.3	
Gatelys North Portal - NB	13/03/2024	3:59 PM	94 Gatelys Road	5	0.11	115	85.5	Airblast exceedances recorded at 84 Gatelys Road and 172 West Korora Road. Results reported as non-compliant with limits. Monitor not triggered at 94 Gatelys Road due to lack of power source at the device.
			84 Gatelys Road	5	0.65	115	126.6	
			172 West Korora Road (approximated)*	5	0.51	115	127.3	
Gatelys North Portal - SB	14/03/2024	2:42 PM	94 Gatelys Road	5	0.63	115	111.9	Airblast exceedances recorded at 84 Gatelys Road and 172 West Korora Road. Results reported as non-compliant with limits. Monitor not triggered at 94 Gatelys Road due to lack of power source at the device.
			84 Gatelys Road	5	0.31	115	120	
			172 West Korora Road (approximated)*	5	0.19	115	126.3	
Gatelys North Portal - NB	19/03/2024	12:29 PM	94 Gatelys Road	5	DNT	115	DNT	Airblast exceedances recorded at 84 Gatelys Road and 172 West Korora Road. Results reported as non-compliant with limits. Monitor not triggered at 94 Gatelys Road due to lack of power source at the device.
			84 Gatelys Road	5	0.72	115	118.8	
			172 West Korora Road (approximated)*	5	0.44	115	121	
Gatelys North Portal - SB	21/03/2024	3:07 PM	94 Gatelys Road	5	DNT	115	DNT	Airblast exceedances recorded at 84 Gatelys Road and 172 West Korora Road. Results reported as non-compliant with limits. Monitor not triggered at 94 Gatelys Road due to lack of power source at the device.
			84 Gatelys Road	5	0.64	115	122.5	
			172 West Korora Road (approximated)*	5	0.3	115	126	
Gatelys North Portal - NB	22/03/2024	1:54 PM	94 Gatelys Road	5	DNT	115	DNT	Airblast exceedances recorded at 84 Gatelys Road and 172 West Korora Road. Results reported as non-compliant with limits. Monitor not triggered at 94 Gatelys Road due to lack of power source at the device.
			84 Gatelys Road	5	0.96	115	127.5	
			172 West Korora Road (approximated)*	5	0.65	115	131.7	
Gatelys North Portal - SB	25/03/2024	11:18 AM	94 Gatelys Road	5	DNT	115	DNT	Airblast exceedances recorded at 84 Gatelys Road and 172 West Korora Road. Results reported as non-compliant with limits. Monitor not triggered at 94 Gatelys Road due to lack of power source at the device.
			84 Gatelys Road	5	0.47	115	122.8	
			172 West Korora Road (approximated)*	5	0.25	115	125.3	
Gatelys North Portal - SB	27/03/2024	10:28 AM	94 Gatelys Road	5	DNT	115	DNT	Airblast exceedances recorded at 84 Gatelys Road and 172 West Korora Road. Results reported as non-compliant with limits. Monitor not triggered at 94 Gatelys Road due to lack of power source at the device.
			84 Gatelys Road	5	0.68	115	127.4	
			172 West Korora Road (approximated)*	5	0.53	115	131.2	

*Note: monitor located at nearby Banana Sheds on West Korora Road. Results are extrapolated from this monitor for the resident at 172 West Korora Road.

Environment Protection Licence Monitoring Data - Blasting (Civil)

Project Name: Coffs Harbour Bypass
Monitoring Period: Mar-24
EPL Number: 21766
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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: 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 4	15	5/03/2024	2:30 PM	52 Buchanans Road	10	7.04	125	115.4	Compliant.
				56 Buchanans Road	10	4.41	125	116.7	Compliant.
				60 Buchanans Road	10	5.52	125	109.7	Compliant.
Cut 14	1	5/03/2024	2:00 PM	171B Mackays Road	10	2.268	125	90.30	Compliant.
				171C Mackays Road	10	1.168	125	104.20	Compliant.
				135D Mackays Road	10	2.508	125	108.40	Compliant.
				135 Mackays Road	10	0.976	125	103.50	Compliant.
				171D Mackays Road	10	2.915	125	90.30	Compliant.
Cut 15A	3	5/03/2024	2:45 PM	191 Mackays Road	25	17.590	125	102.60	Compliant.
				171C Mackays Road	10	1.727	125	112.30	Compliant.
				211 Mackays Road	10	4.695	125	111.50	Compliant.
Cut 4	16	27/03/2024	2:30 PM	52 Buchanans Road	10	3.69	125	112.50	Compliant.
				56 Buchanans Road	10	5.22	125	118.90	Compliant.
				60 Buchanans Road	10	3.53	125	112.60	Compliant.