

Environment Protection Licence Monitoring Data - Noise



Project Name: Coffs Harbour Bypass
Monitoring Period: Sep-23
EPL Number: 21766
Licensee: Gamuda Berhad and Ferroviol 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: 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
On site on Western Side of Highway (approx. 16-20m from works)	23	OOHW Verification	L6.5	Median Works - Saw Cutting	12/09/2023	9:14 PM	Attended	LAeq15min	71	71	58	Sound Power Level of 104dBA calculated based on monitoring results for saw cutting activity.
On site on Western Side of Highway (approx. 14-20m from works)	23					9:32 PM		LAeq15min	71	75	60	Sound Power Level of 106dBA calculated based on monitoring results for saw cutting activity.
20 Moonlight Crescent	3	Verification of New Activity	P1.2	Mobile Crushing Plant	14/09/2023	12:57 PM	Attended	LAeq15min	46	50	Back ground Pacific Hwy traffic main contributor to event record	Construction activities inaudible over Background Pacific Highway noise levels.
Gatleys Southern Portal (approx. 5m from works)	18/19	Spot Check	P1.2	EWP	15/09/2023	8:42 AM	Attended	LAeq	N/A	69	73	Sound Power Level of 95dBA calculated based on monitoring results for an EWP
Gatleys Southern Portal (approx. 7m from works)		Spot Check	P1.2	Angle Grinder Cutting Mesh	15/09/2023	8:46 AM		LAeq	N/A	65	65	Sound Power Level of 90dBA calculated based on monitoring results for saw cutting activity.
Gatleys Northern Portal (approx. 35m from works)		Verification	P1.2	Portal mesh and strip drain installation	15/09/2023	10:54 AM		LAeq15min	50 @ 171c Mackays Rd	63	40	
Gatleys Northern Portal (approx. 20m from works)		Verification	P1.2	Portal excavation	15/09/2023	10:54 AM		LAeq15min	43 @ cloest receiver	62	42	Sound Power Level of 96dBA calculated based on monitoring results for a 30t excavator.
Below 70 Bruxner Park Rd @ CH 20,950 (approx. 138m from works)	23	Verification / Spot Check	P1.2	Rock Hammering	18/09/2023	8:21 AM	Attended	LAeq	72	65	64	Sound Power Level of 116dBA calculated based on monitoring results for 2 rock hammers and 113dBA for 1 rock hammer operating.
25 Roselands Drive	13	Verification of New Activity	P1.2	Bulk earthworks / Topsoil Strip Coramba Road Nth	20/09/2023	10:37AM	Attended	LAeq15min	59	49	44-52	Project works compliant.
52 Buchannans Lane	10	Verification of New Activity	P1.2	Mobile Crushing Plant	20/09/23	11.05AM	Attended	LAeq15min	57	49	45	Project works compliant.
Mackays Road	19	Verification of New Activity	P1.2	Mackays Rd Moxie Haul	20/09/2023	11.45AM	Attended	LAeq15min	54	54	54	Project works compliant.
20 Moonlight Crescent	3	Verification of New Activity	P1.2	Bridge 1 drilled piling	28/09/2023	11.06AM	Attended	LAeq15min	35	52	Back ground Pacific Hwy traffic main contributor to event record	Project noise unable to be determined due to extraneous traffic noise.
Gatleys Northern Portal (approx. 7m from works)	18 / 19	Spot Check	P1.2	Grout pump/mixer, compressor and generator	29/09/2023	10:13 AM	Attended	LAeq	N/A	77	77	Sound Power Level of 102dBA calculated based on monitoring results for grout pump/mixer running.
Gatleys Northern Portal (approx. 35m from works)	18 / 19	Verification of New Activity	P1.2	Shotcrete application		10:50 AM		LAeq	42 @ cloest receiver	67	52	Sound Power Level of 106dBA calculated based on monitoring results for shotcreting.

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	Comment
DDG1	8/24/2023	9/25/2023	10/6/2023	1.7	Monthly	
DDG2	8/24/2023	9/25/2023	10/6/2023	3.5	Monthly	FGJV earthworks occurring nearby.
DDG3	8/24/2023	9/25/2023	10/6/2023	1.1	Monthly	
DDG4	8/24/2023	9/25/2023	10/6/2023	3	Monthly	FGJV works occurring nearby. Note: DDG is located directly adjacent to non-project related dam construction, which may be contributing to the overall result.
DDG5	8/24/2023	9/25/2023	10/6/2023	0.6	Monthly	
DDG6	8/24/2023	9/25/2023	10/6/2023	0.5	Monthly	
DDG7	8/24/2023	9/25/2023	10/6/2023	0.6	Monthly	
DDG8	8/24/2023	9/25/2023	10/6/2023	0.8	Monthly	
DDG9	8/24/2023	9/25/2023	10/6/2023	0.6	Monthly	
DDG10	8/24/2023	9/25/2023	10/6/2023	2.5	Monthly	FGJV earthworks occurring nearby.
DDG11	8/24/2023	9/25/2023	10/6/2023	2.2	Monthly	
DDG12	8/24/2023	9/25/2023	10/6/2023	2.7	Monthly	No FGJV works have commenced within the area. Non FGJV project related works have been completed during the reporting period and may have contributed to the elevated dust level.
DDG13	8/24/2023	9/25/2023	10/6/2023	1.3	Monthly	
DDG14	8/24/2023	9/25/2023	10/6/2023	0.8	Monthly	
DDG15	8/24/2023	9/25/2023	10/6/2023	0.4	Monthly	

Environment Protection Licence Monitoring Data - Blasting

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Relevant EPL: 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
Cut 4	9/5/2023	14:30	52 Buchanans Road	10	2.74	120	112	Compliant.
			56 Buchanans Road	25	5.86	125	118.7	Community agreement obtained from resident to allow for increased ground vibration and airblast overpressure limits. PPV and dBL compliant with agreed limits.
			60 Buchanans Road	10	6.17	120	113.5	Compliant.
Cut 16	9/12/2023	14:15	53 Bruxner Park Road	10	3.114	120	95.7	Compliant.
			15 Bruxner Park Road	10	1.502	120	94.9	Compliant.
			108 West Korora Road	25	5.144	125	114.3	Community agreement obtained from resident to allow for increased ground vibration and airblast overpressure limits. PPV and dBL compliant with agreed limits.
Cut 4	9/14/2023	14:30	52 Buchanans Road	10	2.68	120	111.5	Compliant.
			56 Buchanans Road	25	4.43	125	116.7	Community agreement obtained from resident to allow for increased ground vibration and airblast overpressure limits. PPV and dBL compliant with agreed limits.
			60 Buchanans Road	10	2.35	120	112.7	Compliant.
Cut 16	9/15/2023	14:15	53 Bruxner Park Road	10	2.492	120	99.4	Compliant.
			15 Bruxner Park Road	10	2.463	120	108.4	Compliant.
			108 West Korora Road	25	2.728	125	109.6	Community agreement obtained from resident to allow for increased ground vibration and airblast overpressure limits. PPV and dBL compliant with agreed limits.
Cut 4	9/22/2023	14:30	52 Buchanans Road	10	3.73	120	112.3	Compliant.
			56 Buchanans Road	25	7.86	125	115.4	Community agreement obtained from resident to allow for increased ground vibration and airblast overpressure limits. PPV and dBL compliant with agreed limits.
			60 Buchanans Road	10	2.76	120	115.1	Compliant.
Cut 15B	9/25/2023	14:15	172 West Korora Road	10	1.943	120	101	Compliant.
			77 Gatelys Road	10	3.067	120	111	Compliant.
			84 Gatelys Road	10	4.94	120	97.3	Compliant.
			94 Gatelys Road	10	7.69	120	105	Compliant.
			15 Bruxner Park Road	10	0.26	120	79.6	Compliant.
Cut 16	9/26/2023	14:15	53 Bruxner Park Road	10	2.067	120	104.9	Compliant.
			15 Bruxner Park Road	10	3.299	120	98.2	Compliant.
			108 West Korora Road	25	2.834	125	110.6	Community agreement obtained from resident to allow for increased ground vibration and airblast overpressure limits. PPV and dBL compliant with agreed limits.