

July 2018 Noise Monitoring



Licensee: Laing O'Rourke Australia Construction Pty Ltd

Premises: Woolgoolga to Ballina Pacific Highway Upgrade Project, Harwood NSW 2465

Licence No: 20713

Contractor	Type of Noise Monitoring - Monthly or OOHW	Date of noise monitoring	Time of Noise Monitoring	Location	RBL (for OOHW noise monitoring)	Noise Monitoring Results						Comments
						Laeq	Lafmax	Lzpk	Lafmin	Laf10	Laf90	
BGC	OOHW	3/07/2018	6:05:00	100 Byrons Lane, Tyndale (lot 1001; DP1178034)	33	47.3	76.1	76.9	37.4	48.7		Dominant noise is from existing highway, out of hours works inaudible.
BGC	Monthly	25/07/2018	12:15:00	7 Jubilee Street Townsend	43	59.1	88.7	72	51.5	61.7		No activities on site, noise profiling only. High traffic volume on existing highway and construction activities from other contractor on adjacent highway.
BGC	OOHW	31/07/2018	6:13:00	McIntyres Lane (CH76800-76900)	33	53.6	72.3	79.1	46.5	57.7	49.8	Refuelling activities not audible, main source of noise from existing highway.
BMD	OOHW	23/07/2018	18:52:00	Quarry access north of A25	32	38.2	45.7		45.7	32.5	37.6	Occasional bird/bat call at 44dB; frogs/insects main background noise at 40dB. Construction inaudible
BMD	OOHW	26/07/2018	18:45:00	200m north of A21	32	35.4	42.6		30.3	37.5	35.6	Bat calls up to 40dB; insects main background noise at 35dB. Construction inaudible
BMD	Monthly	25/07/2018	15:16:00	1 Jackybulbin Road, Mororo	42	62	77.8		51.9	63.1	54.8	Dominant noise source: Local traffic on Jackybulbin Road with peaks up to 76.9 dB(A). Noise level from construction works 57 - 65.1dB(A) with peaks of 68.1 dB(A). Pacific Highway traffic reaching 62.5 dB(A). Noise extrapolated at 61dB(A) at resident. Noise coming mainly from drainage works for Jackybulbin Road switch, this activity only has 1-2 weeks to go until completion therefore this is only a short term peak in noise levels. Resident is not home during the day.
BMD	Monthly	25/07/2018	15:43:00	6530 Pacific Highway Jackybulbin	42	71.7	83.1		55.0	76.6	60.4	Dominated mostly by traffic noise from the existing Pacific Highway 77 dB(A) with peaks of 80 dB(A). Dogs from residence barking throughout record 70 dB(A). Grader audible during traffic intermission 60 dB(A). Works happening directly adjacent to resident to prepare the carriageway, a courtesy call will be made to the resident regarding potential noise impacts.
BHAJV	OOHW	12/07/2018	18:37:00	88 Fischer's Lane, Mororo	39	43.3.	50.5			45.2	41.1	Contemporaneous noise from highway. No complaints
CPB	OOHW	7/07/2018	0:00:00	Felspar Trail Rd, 526764 6768766.	50	48.3	54.2		42.1	51.9	45.1	Nil construction noise audible
CPB	OOHW	14/07/2018	0:00:00	CH142100	50	52.7	72.5		46.1	61	48.5	Nil construction noise audible
CPB	OOHW	24/07/2018	0:00:00	CH125020	42	63.7	75.2		47.6	67	51	OOHW Cat E 25m at closest distance as Profiler passed monitoring location. Cat E sensitive receivers temporary relocated.
LendLease	OOHW	9/07/2018		302 Lumley's Lane	42	41						OOHW: D188 Concrete Curing - Predicted Noise Level - OOHW not required
LendLease	Monthly	18/07/2018	13:15:00	NMP08 (55 Whytes Lane West)	41	40.6	53.1	90.7	33.6	43.5	36	Wind: SW @ 1.7m/s. Main contributing noise source: Traffic on Pacific HWY. R2B only audible on one occasion during reading: Truck tipping rock. Other extraneous noise sources: dog barking
LendLease	Monthly	18/07/2018	13:52:00	NMP07 (3 McAndrews Lane)	41	42.1	51.3	80.3	35.0	44.3	38.7	Wind: SW @ 1.7m/s. Main contributing noise source: Pacific HWY. R2B operations observed: Excavator at Laws Rd, Tracks of Excavator tramping, Handtools at Piling site (Whytes Lane). Extraneous Noise Sources: Pacific HWY traffic, birds & insects
LendLease	OOHW	18/07/2018		62 Whytes Lane	42	32						OOHW: Whytes Lane Overpass Pile Welding - Predicted Noise Level
LendLease	Monthly	19/07/2018	12:15:00	NMP04 (1175 Wardell Rd)	41	63.1	74.5	100.8	51.4	66.8	55.3	Wind: NE @ 1m/s. R2B main contributing source. Dump trucks hauling in the area (13 passes), 2 X Excavators operating, water cart, street sweeper, roller, LV's, hand tools an reversing quackers all contributing to the reading. Some minor input from Quickway works area (D06). Extraneous Noise sources: birds and hand tools from resident. Reading was below modelled/approved noise scenario as detailed within the CCNVMP.

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LendLease	Monthly	19/07/2018	14:15:00	NMP01 (10950 Pacific Highway)	41	48.2	65.1	85	38.9	51.3	41	Wind: NE @1.7m/s. R2B not audible during reading. Extraneous Noise Sources: Agricultural activities.
LendLease	Monthly	19/07/2018	14:45:00	NMP02 (1184 Pacific Highway)	41	52.1	70.2	90.5	43.5	54.4	47.9	Wind: SE @1.7m/s. R2B not audible during reading. Extraneous noise sources: Pacific HWY (330 LVs and 42 trucks).
LendLease	Monthly	19/07/2018	15:04:00	NMP03 (1202 Wardell Rd)	41	56	71.1	89	44.5	59.4	47.5	Wind: NE @ 2m/s. R2B main contributing source. Dump Trucks hauling in the area (11 passes), LVs, grader, excavator operating and tracking, Hand tools. Extraneous Noise sources Traffic on Wardell Rd (11 LVs). Reading was below modelled/approved noise scenario as detailed within the CCNVMP.
LendLease	Monthly	19/07/2018	15:50:00	NMP05 (848 Pimlico Rd)	41	55.4	80.2	101.1	39.1	50.4	42.8	Wind: NE @ 1.2m/s. R2B not audible during reading. Extraneous Noise sources: Traffic on Pacific HWY
LendLease	Monthly	19/07/2018	16:14:00	NMP06 (109 Meridian Drive)	41	45.3	59.3	85.6	37.7	47.1	41.7	Wind- Still. Pac highway main contributing source. R2B only weakly audible during reading with input generator at bridgeworks (Coolgardie). Extraneous noise sources: traffic, birds, domestic household noises
LendLease	Monthly	19/07/2018	16:45:00	NMP09 (151 Uralba Rd)	41	57.2	79.2	93.2	44.0	54.3	47.7	Wind: NE @ 1.3m/s. R2B not audible during reading. Extraneous Noise sources: Traffic on Pacific and Bruxner Highways (15 cars used Uralba Rd) & Birds.
LendLease	OOHW	19/07/2018	18:40:00	NMP09 (151 Uralba Rd)	41	52.2	63.8	86.1	46.8	53.9	49.4	OOHW TS06 works Wind: Still. Main contributing sources are the Bruxner and Pacific Highways. Observed increased amount of B-Doubles using both roads on the way to monitoring location. R2B only audible from bearing 105 when bobcat was tracking and the occasional reversing quacker. Most input was from trucks climbing the hill on Bruxner Highway. Clear night with low temperatures. Reading was below modelled/approved noise scenario as detailed within the CCNVMP.
LendLease	OOHW	31/07/2018	19:08:00	R130	46	55.2	82.2	98.6	40.1	57.3	42.5	OOHW TS05/3 works. Weather Conditions:Clear night with mild temperatures. No wind. Main contributing source was the Pacific Highway. 2 cars used Pimlico Rd during the reading. R2B was only audible from LED lighting plant set up at intersection. Some input from dogs barking and nearby cane farming activities. Reading was below modelled/approved noise scenario as detailed within the CCNVMP.
Quickway	OOHW	5/07/2018	16:00:00	168 Thurgates Lane-, Wardell, NSW	38	50.1	72.3	79.7	33.3	48.2	36.2	Monitoring was undertaken during representative period during work hours. Due to weather, no other works were occurring in vicinity at the time of monitoring, other than running a generator/pump for wet curing (as per OOHW approval). The static noise source (Generator/pump) was running for the entire 15 minute period. LA95 (Noise level for 95% of the 15 minute period) was 35.6dB which is less than RBL (Background Levels), demonstrating the SPL of the source was less than the RBL at the nearest sensitive receiver. An Leq of 50.1 was detected which is less than the NML (Noise Management Level) for the period. Peak noise (LAmx) during monitoring was caused by a flock of resident Guinea Fowl on the property. Noise source was not audible from the residence
AFHJV	Monthly	24/07/2018	12:42:00	1 Petticoat Lane (R1331)	45	55.3	66.6	84.9	47.9	57.2	52.4	Slightly above NML 55dB(A) however below predicted cumulative LAeq 15min of 69dB(A) for transfloor works and 57dB(A) for earthworks within CCNVMP. Works occurring during monitoring were concrete pour at span 35 (50-54dB(A)), RMS designed B3 road construction where a grader, water truck, tip truck and excavator were operating (52-56dB(A)). The pacific highway 54-58dB(A)) and birds (52-63dB(A)) were also dominant noise sources.

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AFHJV	Monthly	24/07/2018	12:20:00	8 Martin Road (R1283)	45	51.6	61.4	81.2	42.4	54	47.8	Below NML 55dB(A) and the predicted cumulative LAeq 15 min of 55dB(A) for trans floor construction scenario within CCNVMP. The dominant noise source during monitoring was the pacific highway and existing bridge (50-55dB(A)). Construction works were not audible.
AFHJV	Monthly	24/07/2018	11:55:00	40 Morpeth Street (R1396)	45	53	75.8	82.6	44.6	59.7	47.5	Below NML 55dB(A) and the predicted cumulative LAeq 15 min of 55dB(A) for trans floor construction scenario within CCNVMP. The dominant noise source was the Pacific Highway traffic (50-57(dB(A)). Construction works occurring during monitoring were parapet construction (46-50dB(A)) and construction of RMS designed B3 works where a grader and water truck were operating (46-49dB(A))
AFHJV	Monthly	25/07/2018	13:44:00	35 James Creek Road (R1256)	45	47.6	69	77.2	39.4	48.8	43.2	Below NML 55dB(A) and predicted cumulative LAeq 15min of 55dB(A) for trans floor works within CCNVMP. Local traffic and Highway were the dominant noise sources (46-51dB(A)). Construction works were not audible during monitoring. SEE Civil were also working on Portion B within southern abutment area (46-51dB(A)). Birds also contributed to noise levels (46-54dB(A)).
AFHJV	OOHW	14/07/2018	6:15:00	526 Yamba Street	39	56.8	67.6	86.4	45.8	64.4	49.5	Out of hours monitoring for Water truck and pipe jacking works. Construction noise was inaudible and out of sight to monitoring location. The existing pacific highway and local traffic were the dominant noise source (48 -67dB(A)).
AFHJV	OOHW	14/07/2018	6:30:00	56 Morpeth Road	39	58.3	70.2	87.9	48.0	65.7	49.3	Out of hours monitoring for water cart release at Sediment Basin 2. Water cart inaudible, Pacific Highway produced dominant noise in the range of 52-67dB(A).
AFHJV	OOHW	29/07/2018	9:00:00	5 Petticoat Lane	39	N/A	N/A	N/A	N/A	N/A	N/A	Water Cart (130m away) was not auditable over existing Pacific Highway at aprox 100m away.
LendLease	Monthly	19/07/2018	10:06:00	NMP01 (9810 P Hway, Broadwater)	45	66	86.3	101.7	46.2	69.4	55.4	RRB not audible during reading. Traffic main source of noise. Approx. 217 cars, 30 trucks. Birds in trees and a dog barking.
LendLease	Monthly	19/07/2018	8:49:00	NMP02 (2-4 P Hway, Broadwater)	45	61.3	72.7	95.5	44.8	68.3	52	RRB not audible during reading. Traffic main source of noise. Approx. 132 cars, 40 trucks. Birds were constant through reading.
LendLease	Monthly	19/07/2018	8:24:00	NMP03 (85 E Head Rd, Broadwater)	45	60.1	76.6	98.2	45.1	64.2	47.9	RRB not audible during reading. Traffic main source of noise. Approx. 36 cars, 1 trucks. Birds were constant through reading. Construction heard from Portion C such as water carts, reversing alarms and light vehicles entering compound.
Georgiou Group	OOHW	11/07/2018	6:15:00	83 Smith Drive	54.7	51.2	77.6	111.2	41.3	51	43	OOHW Works - Monthly
Georgiou Group	OOHW	11/07/2018	6:35:00	55 Pimlico road	51	49.2	67.3	105.4	39.2	48	40	OOHW Works - Monthly
Georgiou Group	OOHW	14/07/2018	14:15:00	83 Smith Drive	62.8	60.6	83.2	122.4	46.2	59	47	OOHW Works - Monthly
Georgiou Group	OOHW	14/07/2018	14:45:00	55 Pimlico road	58.3	55.6	77.3	117.1	39.4	56	41	OOHW Works - Monthly
Georgiou Group	Monthly	23/07/2018	11:10:00	55 Pimlico road	58.3	57.1	81.9	116.7	41.6	57	45	Monthly monitoring
Georgiou Group	Monthly	23/07/2018	11:45:00	83 Smith Drive	62.8	59.8	83.4	119.6	45.2	60	46	Monthly monitoring