

January 2018 Noise Monitoring



Contractor	Date of noise monitoring	Time of Noise Monitoring	Location	RBL (for OOHW noise monitoring)	Noise Monitoring Results						Comments
					Laeq	Lafmax	Lzpk	Lafmin	Laf10	Laf90	
AFS	22/01/2018	9.35am			65.5	95.4					6 moxie movements 87-95 db, cicadas 6 dB
BMD	11/01/2018	8.43am	Receiver R1256 james Creek rd	45	53.6	62.2		38.1	57.1	41.2	Cicadas constant background influence 56-57dBa; local traffic 53dba. Construction inaudible.
BMD	11/01/2018	9.07am	Receiver 1271 532B Yamba road	45	56.4	72		47.2	59.5	50.1	Traffic on Yamba diversion 60-64dBa Birdcalls 67dBa. Construction inaudible.
BMD	11/01/2018	9.32am	Receiver R1396 Morpeth st Harwood	45	59.5	76.6		50.1	60.3	52.8	Domestic rubbish collection truck 60-74dBa; local traffic 54dBa. Highway traffic constant background influence on record. Construction inaudible.
BMD	11/01/2018	9.52am	Receiver R1283 10 Martins Point rd Harwood	45	52.7	67		47.3	54.5	49.6	Highway traffic on bridge 55-58dBa; Domestic rubbish collection truck 58-63dBa; dogs barking 55dba. Construction inaudible.
BMD	11/01/2018	10.13am	Receiver R1331 petticoat lane Harwood	45	51.1	63.6		44.3	53.4	47.5	Excavator loading trucks 53-58dBa; reversing alarm 49dBa; highway traffic 55dBa.
BMD	11/01/2018	10.45am	R1438 Pacific Hwy, Chatsworth	37	68.1	74.5		37.8	71.9	44.2	Bird calls 45dba; highway traffic 50dBa. Cicadas main influence on record 68-70dBa.
BMD	11/01/2018	11.29am	R1461 Chatsworth Road, Chatsworth	37	56.2	78.2		32.9	51.7	36.6	local traffic main influence on record 74-77dBa. Construction inaudible.
BMD	11/01/2018	12.00pm	Receiver R1523 Iluka rd Wombah	37	54.5	78.7		51.9	44.3	43.7	Residents vehicle 66dBa; Cicadas constant background noise 50dBa; residents talking 51dBa; resident returning wheelie bin along driveway 68dBa. Construction inaudible
BMD	11/01/2018	12.20pm	R1471 Old Pac Hwy	37	65.1	72.8		50.9	68.8	58.2	Excavator audible 62-68dBa; rooster crowing throughout record up to 65dBa. Cicadas constant background noise 70dBa
BMD	11/01/2018	12.46pm	Receiver 1529 Mororo Road	37	51.5	64.8		36.1	55.4	40.5	Farm tractor 60.1dBa; farm ute horn 50dBa; local traffic 46. Construction inaudible.
BMD	11/01/2018	6.15pm	Lot 31 Garretts Lane	39	55.4	63.1		40.1	57.5	44.7	Highway traffic main influence on record 60dBa. Construction inaudible. Works completed at 6.28pm. Construction inaudible. OOHW Lewis Lane Drainage Overrun.
BMD	16/01/2018	6.40pm	Lot 31 Garretts Lane	39	56.5	70.4		48.8	59.7	52.1	Highway noise main influence on record; trucks at 62dBa. OOHW Garretts Lane Sealing Overrun.
BMD	16/01/2018	7.05pm	Lot 506 Banana rd	39	52	85.6		50.1	44	43.6	Cicadas main influence on record 50+ dBa; bird calls at 45dBa; branches falling at 60dBa. Hum of highway traffic audible not registering above background. Construction inaudible. OOHW Banana Road Switch.
BMD	16/01/2018	10.15pm	Lot 506 Banana rd	35	51.3	79		34.4	45.7	38.3	Wind rustling in trees 50dBa; residents vehicle 67-70dba; animal calls up to 48dBa. Construction inaudible. OOHW Banana Road Switch.
BMD	17/01/2018	6.17pm	Lot1 South Arm road	39	44.6	71.1		36	45.6	38	Bird calls 43-56dBa main influence on record. Resident located 620m from works with cane vegetation attenuation. Construction inaudible. OOHW Harwood Diversion Foam Bitumen Overrun.
BMD	18/01/2018	6.44pm	Lot 31 Garretts Lane	39	54.7	66.1		42.8	57.8	48.7	Trucks , traffic on highway up to 63dB. Cicadas in background constant at 50dB. Construction inaudible main influence on record background highway traffic. OOHW - Pacific Median Traffic Barrier Placement
BMD	18/01/2018	10.50pm	Lot 31 Garretts Lane	35	57	74.1		42.4	60.4	46.8	Trucks , traffic on highway up to 64dB occasionally up to 71dB. Cicadas in background constant at 50dB. Occasional hand tool use audible from barriers not registering above back ground traffic. OOHW - Pacific Median Traffic Barrier Placement.

Contractor	Date of noise monitoring	Time of Noise Monitoring	Location	RBL (for OOHV noise monitoring)	Noise Monitoring Results						Comments	
					Laeq	Lafmax	Lzpk	Lafmin	Laf10	Laf90		
BMD	22/01/2018	6.52pm	Lot 31 Garretts Lane	39	55.1	80.3		44.4	55.2	47.6	Trucks on highway 65dB; local traffic 78db. Some construction occasionally audible at 47-49dB and tipper at 57db. Highway traffic main influence on record at 55-65dB. OOHV - Pacific Median (Stage 2) - stripping foundation and pavement preparation.	
BMD	22/01/2018	8.25pm	29 Palm lane Harwood	44	72.9	84.7			63	75.2	67.6	Resident agreement; respite offered. OOHV Asphalting.
BMD	22/01/2018	10.20pm	Lot 31 Garretts Lane	35	59.4	69.2			47.3	63.3	50.4	Highway traffic main influence on record at 55-65dB. OOHV - Pacific Median (Stage 2) - stripping foundation and pavement preparation.
BMD	22/01/2018	10.47pm	29 Palm lane Harwood	39	68.7	81.1			53.9	73.1	60.9	Resident agreement; respite offered. OOHV Asphalting.
Pacifico Harwood	11/01/2018	9:00am	40 Morpeth Street, Harwood	45	54.6	65.8	84.2	43.9		58	48.8	<u>Monthly Noise Monitoring</u> Below NML 55dB(A) and predicted cumulative LAeq 15 min of 57dB(A) for earthworks within CCNVMP. Dominant noise source included local traffic and Pacific Highway traffic. Construction works occurring during monitoring were excavation of B2 Drain, including use of water truck and Manitou.
Pacifico Harwood	11/01/2018	10:05am	1 Petticoat Lane, Harwood	45	55.6	72.3	85.2	42.7		59.3	47.1	<u>Monthly Noise Monitoring</u> Just above NML 55dB(A) however below predicted cumulative LAeq 15min of 57dB(A) for earthworks within CCNVMP. Works occurring during monitoring were excavation of B2 drain and use of manitou. The dominant noise source was a number of birds within a Wattle Tree next to monitoring location (52 - 65dB(A)).
Pacifico Harwood	11/01/2018	10:30am	35 James Creek Road Harwood	45	55.5	76.5	85.1	39.5		59.3	43.2	<u>Monthly Noise Monitoring</u> Just above NML 55dB(A). Works occurring during monitoring included Headstock 4 concrete pour and southern abutment embankment earthworks. Monitoring results were below predicted cumulative LAeq 15min of 57dB(A) for Headstock construction within CCNVMP however were above predicted cumulative LAeq 15min of 54dB(A) for earthworks within the CCNVMP.
Pacifico Harwood	11/01/2018	10:56am	8 Martin Point Road, Harwood	45	52.2	65.6	81.8	45.2		54.3	49	<u>Monthly Noise Monitoring</u> Below NML 55dB(A) and predicted cumulative LAeq 15 min of 57dB(A) for headstock construction within CCNVMP. Works occurring during monitoring were transport of headstock scaffolding and column forms by pontoon and work boat. Dominant noise source included local traffic and Pacific Highway traffic.
Pacifico Harwood	11/01/2018	5:30am	526 Yamba Road, Harwood	39	55.3	71.3	84.9	43.3		58.9	48.2	<u>Out of Hours monitoring</u> Headstock 4 concrete pour. Yamba Road Traffic and Highway were the dominant noise sources (53 - 61dB(A)).
Pacifico Harwood	11/01/2018	5:52am	580 Yamba Road, Harwood	39	53.7	70.5	83.3	44.2		57.2	47.8	<u>Out of Hours monitoring</u> - Headstock 4 concrete pour. Yamba road traffic was the dominant noise source (55-60dB(A)). When no traffic, construction noise was measured to be approximately 46-48dB(A) at the monitoring location.
Pacifico Harwood	13/01/2018	5:45am	35 James Creek Road Harwood	39	46	58.3	75.6	39		48.5	42.4	<u>Out of Hours monitoring</u> - Rolling out HSG at Southern Abutment. Highway and Yamba Road traffic were dominant noise sources.
Pacifico Harwood	19/01/2018	6:19am	530 Yamba Road, Harwood	39	65.4	85.2	95	49		68.7	53.1	<u>Out of Hours monitoring</u> - Pier 11 Headstock Concrete Pour. Construction noise was in audible. Yamba Road and Pacific Highway traffic was dominant noise source.

Contractor	Date of noise monitoring	Time of Noise Monitoring	Location	RBL (for OOHW noise monitoring)	Noise Monitoring Results						Comments
					Laeq	Lafmax	Lzpk	Lafmin	Laf10	Laf90	
Pacifico Harwood	19/01/2018	6:40am	580 Yamba Road, Harwood	39	61.7	80.5	91.3	49.6	65.6	52.2	Out of Hours monitoring - Pier 11 Headstock Concrete Pour Construction noise was in audible. Yamba Road and Pacific Highway traffic was dominant noise source. Construction noise (concrete vibrators) were audible if little traffic (52dB(A)).
Pacifico Harwood	20/01/2018	6:26am	16 River Street, Harwood	39	60.3	76.2	89.9	51.6	63	55.1	Out of Hours monitoring - Pile cap 21 Concrete Pour Construction noise, which included the concrete pump and agitators were the dominant noise source (56-61dB(A)). However trucks on the Pacific Highway were the dominant noise when passing the monitoring location (62-66dB(A)).
Lendlease	11/01/2018	8:05am	RRB-NMP01	42	63.1					49.3	Very still conditions. Traffic and insects main source of noise. RRB not audible during reading.
Lendlease	11/01/2018	7:45am	RRB-NMP02	42	60.6					48.3	Very still conditions. Traffic and insects main source of noise. RRB not audible during reading.
Lendlease	11/01/2018	7:20am	RRB-NMP03	42	59.1					52.2	Very still, Cicadas main source of background noise. Some traffic and road works near by. RRB not audible during reading.
Lendlease	11/01/2018	8:55:00 AM	NMP01		64.8					49.6	R2B not audible during reading. Noise source: Traffic with some input from insects and birds.
Lendlease	11/01/2018	8:30:00 AM	NMP02		64.7					53.8	R2B not audible during reading. Noise source: Traffic with some input from insects and birds.
Lendlease	11/01/2018	10:35:00 AM	NMP03		58					50.8	R2B main contributing source. Equipment viewed operating in the area north of Wardell Rd- Excavator, dozer and a roller. South of Wardell Rd- Roller, grader backhoe, 4 large dumptrucks operating under larger excavator, water cart and water pump at fill point, scraper, fuel cart and wheeled dozer. Horn being used to kick out DTs.
Lendlease	11/01/2018	12:00:00 PM	NMP04		58.7					51.5	R2B main contributing source. Equipment viewed operating in the area north of Wardell Rd. Excavator digging drainage, excavator tracking through site, dozer maintaining a topsoil stockpile. Local traffic contributing some noise also two flights went over head during reading.
Lendlease	11/01/2018	11:10:00 AM	NMP05		50.2					39.5	R2B not audible during reading. Noise source: Traffic with some input from insects and birds.
Lendlease	11/01/2018	11:30:00 AM	NMP06		47.7					38.1	R2B not audible during reading. Noise source: Traffic with some input from insects and birds.
Lendlease	11/01/2018	12:20:00 PM	NMP07		48					41.5	R2B not audible during reading. Noise source: Traffic with some input from insects and birds.
Lendlease	11/01/2018	12:40:00 PM	NMP08		48.2					42.8	R2B not audible during reading. Noise source: Traffic with some input from insects and birds.
Lendlease	11/01/2018	1:15:00 PM	NMP09		63.1					43.4	R2B not audible during reading. Noise source: Traffic with some input from insects and birds.
Georgiou	16/01/2018	6:15pm	55 Pimlico road	58.3	58.1	85.6	110.6	43.7	58	45	OOHW Works - Monthly
Georgiou	16/01/2018	6:40pm	83 Smith Drive	62.8	61.8	89.8	121.4	47.6	60	48	OOHW Works - Monthly

Contractor	Date of noise monitoring	Time of Noise Monitoring	Location	RBL (for OOHW noise monitoring)	Noise Monitoring Results						Comments
					Laeq	Lafmax	Lzpk	Lafmin	Laf10	Laf90	
Georgiou	17/01/2018	6:15am	83 Smith Drive	54.7	52.1	74.6	104.6	41.2	51	42	OOHW Works - Monthly
Georgiou	17/01/2018	6:40am	55 Pimlico road	51	49.3	58.2	99.6	39.8	48	40	OOHW Works - Monthly
Georgiou	19/01/2018	6:15pm	55 Pimlico road	58.3	57.6	79.5	109.2	41.6	57	41	OOHW Works - Monthly
Georgiou	19/01/2018	6:40pm	83 Smith Drive	62.8	62.7	91.4	121.6	45.8	62	45	OOHW Works - Monthly
Georgiou	20/01/2018	2:00pm	83 Smith Drive	62.8	59.4	88.2	106.8	43.8	58	46	OOHW Works - Monthly
Georgiou	20/01/2018	2:25pm	55 Pimlico road	58.3	57.3	70.9	101.3	42.4	56	45	OOHW Works - Monthly
Georgiou	23/01/2018	10:28am	83 Smith Drive	62.8	62.8	83	122.9	40.9	64	43	Monthly monitoring
Georgiou	23/01/2018	10:53am	55 Pimlico Road	58.3	57.7	83.2	121.3	36.5	57	43	Monthly monitoring