

Environmental Monitoring Report Noise Monitoring

Hall Quarry May 2025

Date Published: 16th May 2025

This monitoring report is to satisfy the requirements of Section 66 (6) of the Protection of the Environment and Operations Act 1997, to make available, within 14 days of obtaining any monitoring data that relates to pollution under an Environment Protection Licence.

The monitoring of pollutants provided in this report is undertaken as per the requirements of Environment Protection Licence 4082 (EPL 4082 – Boral Hall Quarry)

This report provides environmental monitoring data for Hall Quarry for the period November 2017 to May 2025.

	Hall Quarry Information
Premise Details	Boral – Hall Quarry
Address	Kaveneys Rd, Murrumbateman NSW 2582
Licensee	Boral Resources (Country) Pty Ltd
EPL No	4082
EPL Location	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicen ce.aspx?DOCID=183732&SYSUID=1&LICID=4082
Date of dataset update	16/05/2025

Monitoring data in this report relates to the monitoring undertaken for the following environmental pollutants:

• Noise

Noise

Noise monitoring is conducted as per condition L2 of EPL 4082. Noise monitoring is conducted on an annual basis. The noise monitoring results are summarised below.

Qualifications related to Noise:

L2 Noise limits

L2.1 Noise generated by premises must not exceed the limits in the following table during the defined period, where LAeq means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.

Noise from the premises is to be measured at the Manager's Cottage, "Silverwattle", Kaveney's Road to determine compliance with this condition.

Noise Limit LAeq (15 minute)	Period
39 dB(A)	7am to 6pm Monday to Friday
	7am to 1pm Saturday
37 dB(A)	6pm to 10pm Monday to Friday
36 dB(A)	All other times

L2.2 The noise limits identified in Condition L2.1 apply under meteorological conditions of: (a) Wind speed up to 3m/s at 10 metres above ground level; or (b) Temperature inversion conditions of up to 3 degrees C/100m and wind speed up to 2m/s at 10 metres above the ground

NOISE RESULTS

Next round of noise monitoring due April 2026.

April 2025 NOISE MONITORING ASSESSMENT

These results are presented as shown in the Noise Assessment report prepared by Muller Acoustic Consulting.

Date	T:	Descript	or (dBA re	e 20µPa)	EPL		
Date Time (hrs)	LAmax	LAeq	LA90	Limit	Meteorology	Description and SPL, dBA	
30/04/2025						WD: SE	Traffic 41-77
(Morning	06:19	77	57	44	36	WS: 0.5m/s Rain: Nil	Insects <38
			0, 44				Birds 43-52
Shoulder)							Quarry inaudible
	Qu	uarry Site L	Aeq(15min)	Contribut	ion		<34
		14:04 81 54				Traffic 32-81	
0.0000000						WD: SW	Insects 30-35
29/04/2025	14:04		54	54 34	39	WS: 0.5m/s	Birds 32-58
(Day)						Rain: Nil	Thunder 33-45
							Quarry inaudible
	Qu	uarry Site L	Aeq(15min)	Contribut	ion		<24
						WD: SE	Traffic 34-73
29/04/2025	10.10	70					Insects <38
(Evening)	18:19	73	54	40	37	WS: 0.1m/s	Aircraft 40-42
-					Rain: Nil	Quarry inaudible	
	Qu	uarry Site L	Aeq(15min)	Contribut	ion		Site not operating

Note: Meteorological data obtained Canberra Airport MET station or by direct measurement by the operator.

Dete	T: (h)	Descrip	otor (dBA r	e 20µPa)	EPL	Matanata	
Date	Time (hrs)	LAmax	LAeq	LA90	Limit	Meteorology	Description and SPL, dBA
							Traffic 34-82
20/04/2025						WD: S	Insects <30
30/04/2025	06:37	82	54	37	36		Birds 33-47
(Morning	06:37		54	31		WS: 0.5m/s Rain: Nil	Wind in trees 35-37
Shoulder)							Aircraft 40-65
							Quarry inaudible
	(Quarry Site	LAeq(15mi	n) Contribut	ion		<27
							Wind in vegetation 40-64
						WD: SW	Insects 42-45
29/04/2025	14:25	74	54	45	39	WS: 3.5m/s	Traffic 44-74
(Day)	14.20	74	04	54 40	39	Rain: Nil	Birds 46-54
							Thunder 44-50
							Quarry inaudible
	(Quarry Site	LAeq(15mi	n) Contribut	ion		<35
							Insects 30-34
29/04/2025						WD: SE	Aircraft 35-48
	18:37	62	43	33	37	WS: 0.5m/s	Traffic 32-62
(Evening)						Rain: Nil	Residential noise 33-37
							Quarry inaudible
	(Quarry Site	LAeq(15mi	n) Contribut	ion		Site not operating

Note: Meteorological data obtained Canberra Airport MET station or by direct measurement by the operator.

Date	T: (1-)	Descrip	tor (dBA re	20µPa)	EPL		
Date Time (firs)	Time (hrs)	LAmax	LAeq	LA90	Limit	Meteorology	Description and SPL, dBA
30/04/2025						WD: S	Traffic 42-84
	06:00	84	67	48	36	WS: 0.8m/s	Wind in trees 41-43
(Morning 06:00 Shoulder)	04 07	67	48	30	Rain: Nil	Birds 43-46	
					Rain, Nii	Quarry inaudible	
	(Quarry Site	LAeq(15min) Contribu	tion		<36
		83 68			WD: SE	Traffic 46-83	
29/04/2025	17.01		60	68 56	20		Wind in trees 47-58
(Day)	17:31		50	39	WS: 3.0m/s	Birds 50-66	
						Rain: Nil	Quarry inaudible
	(Quarry Site	LAeq(15min) Contribu	tion		<39
20/04/2025						WD: SE	Traffic 46-81
29/04/2025	18:00	81	67	54	37	WS: 1.5m/s	Insects <40
(Evening)						Rain: Nil	Quarry inaudible
	(Quarry Site	LAeq(15min) Contribu	tion		Site not operating

Table 7 Operator-Attended Noise Survey Results - Barton Highway (R3)

Note: Meteorological data obtained Canberra Airport MET station or by direct measurement by the operator.

Muller Acoustic Consulting Pty Ltd (MAC) has completed a Noise Monitoring Assessment (NMA) on behalf of Boral Quarries Pty Limited for the Hall Quarry Operations, Jeir, NSW. The assessment was completed to quantify site noise emissions against relevant noise criteria pertaining to quarry operations and traffic noise.

Attended monitoring during Tuesday 29 April 2025 and Wednesday 30 April 2025 identified that operational and road noise emissions generated by the quarry were audible on several occasions however, remained below relevant noise limits specified in the Environmental Protection Licence and Development Consent. These monitoring locations were dominated by extraneous sources such as traffic that predominately masked quarry operations.

Historical results

April 2024 NOISE MONITORING ASSESSMENT

These results are presented as shown in the Noise Assessment report prepared by Muller Acoustic Consulting.

Data	Time (here)	Descript	or (dBA re	e 20µPa)	EPL	Matanalami	Dessription and CDL dDA
Date	Time (hrs)	LAmax	LAeq	LA90	Limit	Meteorology	Description and SPL, dBA
							Traffic 35-80
04/04/2024						WD: SSE	Insects <35
(Morning	06:44	80	62	38	36	WS @10m: 2.4m/s	Birds 35-44
Shoulder)						Rain: Nil	Quarry reverse alarms <39
							(30 seconds)
	Qu	uarry Site L	Aeq(15min)	Contribut	ion		24
							Traffic 38-81
							Insects <38
							Birds 38-46
2/04/2024						WD: NW	Quarry processing 38-40
	15:31	81 5	59	40	39	WS @10m: 5.1m/s	(constant)
(Day)						Rain: Nil	Quarry reverse alarms <38
							(1 minute)
							Quarry tipping 38-40
							(3 seconds)
	Qu	uarry Site L	Aeq(15min)	Contribut	ion		39
							Traffic 31-69
							Insects <31
3/04/2024	10-00	60	54	20	07	WD: WNW	Livestock 31-40
(Evening)	18:02	69	51	33	37	WS @10m: 4.1m/s	Birds 34-42
						Rain: Nil	Aircraft 31-36
							Quarry inaudible
	Qu	uarry Site L	Aeq(15min)	Contribut	ion		Site not operating

Note: Meteorology data obtained Canberra Airport MET station.

Date	Time (hrs)	Descrip	otor (dBA r	e 20µPa)	EPL	Matanalami	Description and CDL dD
Date	Time (nrs)	LAmax	LAeq	LA90	Limit	Meteorology	Description and SPL, dB
							Traffic 29-72
04/04/2024						WD: SSE	Insects <29
(Morning	06:24	72	47	32	36	WS @10m: 1.9m/s	Birds 29-36
Shoulder)						Rain: Nil	Residential noise 50-70
							Quarry inaudible
	(Quarry Site	LAeq(15mi	n) Contribut	ion		<22
							Wind in vegetation 39-4
							Insects 39-40
03/04/2024							Traffic 39-57
	16:07	57 45				WD: NNW	Birds 40-48
(Day)			45	41	39	WS @10m: 5.4m/s Rain: Nil	Residential noise 40-48
							Livestock 39-42
							Aircraft 41-45
							Quarry inaudible
	(Quarry Site	LAeq(15mi	n) Contribut	ion		<31
							Insects <37
03/04/2024						WD: NNW	Birds 37-46
	18:25	61	45	40	37	WS @10m: 4.6m/s	Traffic 37-58
(Evening)						Rain: Nil	Residential noise 37-61
							Quarry inaudible
	(Quarry Site	LAeg(15mi	n) Contribut	ion		Site not operating

Note: Meteorology data obtained Canberra Airport MET station.

Table 7 Ope	rator-Attend	ed Noise	Survey R	esults – I	Barton H	lighway (R3)	
Date	Time (hm)	Descrip	tor (dBA re	20µPa)	EPL	Meteorology	Description and SPL, dBA
Date	Time (hrs)	LAmax	LAeq	LA90	Limit	Meteorology	Description and SPL, dBA
04/04/2024						WD: SSE	T
(Morning	06:00	81	67	67 53	53 36	WS @10m: 1.6m/s	Traffic 40-81
Shoulder)						Rain: Nil	Quarry inaudible
	(Quarry Site	LAeq(15min) Contribu	tion		<36
						WD: NNW	Traffic 48-83
03/04/2024	10.00	16:38 83 6	60	i9 55	39	WS @10m: 5.1m/s Rain: Nil	Insects <48
(Day)	16:38		69 55	55			Birds <48
							Quarry inaudible
	(Quarry Site	LAeq(15min) Contribu	tion		<39
03/04/2024						WD: NNW	Traffic 40-81
	18:49	81	67	49	37	WS @10m: 4.1m/s	Insects <40
(Evening)						Rain: Nil	Quarry inaudible
	(Quarry Site	LAeq(15min) Contribu	tion		Site not operating

Note: Meteorology data obtained Canberra Airport MET station.

Muller Acoustic Consulting Pty Ltd (MAC) has completed a Noise Monitoring Assessment (NMA) on behalf of Boral Quarries Pty Limited for the Hall Quarry Operations, Jeir, NSW. The assessment was completed to quantify site noise emissions against relevant noise criteria pertaining to quarry operations and traffic noise.

Attended monitoring during Wednesday 3 April 2024 and Thursday 4 April 2024 identified that operational and road noise emissions generated by the quarry were audible on several occasions however, remained below relevant noise limits specified in the Environmental Protection Licence and Development Consent. These monitoring locations were dominated by extraneous sources such as traffic that predominately masked quarry operations.

April 2023 NOISE MONITORING ASSESSMENT

These results are presented as shown in the Noise Assessment report prepared by Muller Acoustic Consulting.

Date	Trees (here)	Descript	or (dBA re	e 20 µPa)	EPL	Matanala	Description and CDL dDA
Date Inne (Ins)	Time (hrs)	LAmax	LAeq	LA90	Limit	Meteorology	Description and SPL, dBA
05/04/2023 (Morning Shoulder)	06:19	84	62	44	36	WD: N WS @10m: 1.9m/s Rain: Nil	Traffic 39-84 Birds 39-46 Insects <39 Quarry inaudible
	Qu	uarry Site L	Aeq(15min)) Contribut	ion		<34
04/04/2023 (Day)	14:01	82	60	37	39	WD: E WS @10m: 2.4m/s Rain: Nil	Birds 36-46 Aircraft <38 Insects <34 Traffic 36-82 Boral mobile plant 34-40
	Qu	uarry Site L	Aeq(15min)) Contribut	ion		36
04/04/2023 (Evening)	18:45	69	47	36	37	WD: E WS @10m: 4.1m/s Rain: Nil	Traffic 33-69 Insects <33 Quarry inaudible
	Qu	uarry Site L	Aeq(15min)) Contribut	ion		Site not operating

Table 5 Operator-Attended Noise Survey Results - Manager's Cottage (R1)

Note: Meteorology data obtained Canberra Airport MET station.

	Time (here)	Descriptor (dBA re 20 µPa)			EPL	Matageologic	Description and CDL dDA
Date	Time (hrs)	LAmax	LAeq	LA90	Limit	Meteorology	Description and SPL, dB4
05/04/2023						WD: N	T
(Morning	06:38	84	71	58	36	WS @10m: 0.0m/s	Traffic 53-84
Shoulder)						Rain: Nil	Quarry inaudible
	(Quarry Site	LAeq(15min) Contribut	ion		<36
04/04/2023						WD: W	Traffic 42-83
	14:48	83	67	46	39	WS @10m: 1.9m/s	Insects <42
(Day)						Rain: Nil	Quarry inaudible
	(Quarry Site	LAeq(15min) Contribut	tion		<36
04/04/2023						WD: ESE	Traffic 53-96
	18:25	96	71	55	37	WS @10m: 5.0m/s	Insects <53
(Evening)						Rain: Nil	Quarry inaudible
	(Quarry Site	LAeg(15min) Contribut	tion		Site not operating

Note: Meteorology data obtained Canberra Airport MET station.

Date	Time (her)	Descrip	tor (dBA re	e 20 µPa)	EPL	Matagralage	Description and CDL - DL
Date	Time (hrs)	LAmax	LAeq	LA90	Limit	Meteorology	Description and SPL, dB/
							Insects 30-32
05/04/2023						WD: NNE	Birds 34-38
(Morning	06:00	63	41	33	36	WS @10m: 1.6m/s	Traffic 46-63
Shoulder)						Rain: Nil	Livestock 30-38
							Quarry inaudible
	(Quarry Site	LAeq(15mi	n) Contribut	ion		<23
							Insects 37-39
04/04/2023						WD: N	Birds 37-44
	(Day) 14:22	59	43	38	39	WS @10m: 1.6m/s	Traffic 37-59
(Day)						Rain: Nil	Aircraft <38
							Quarry processing 37-40
	(Quarry Site	LAeq(15mi	n) Contribut	ion		38
							Insects <40
							Traffic 40-52
04/04/2023						WD: E	Aircraft 41-58
	19:04	58	44	42	37	WS @10m: 3.5m/s	Livestock 41-50
(Evening)						Rain: Nil	Wind in vegetation 41-44
							Birds 40-44
							Quarry inaudible
	(Quarry Site	LAeq(15mi	n) Contribut	ion		Site not operating

Table 6 Operator-Attended Noise Survey Results - Silverwattle (R2)

Note: Meteorology data obtained Canberra Airport MET station.

Muller Acoustic Consulting Pty Ltd (MAC) has completed a Noise Monitoring Assessment (NMA) on behalf of Boral for their Hall Quarry, Jeir, NSW. The assessment was completed to quantify site noise emissions against relevant noise criteria pertaining to quarry operations and traffic noise.

Attended monitoring during Tuesday 4 April 2023 and Wednesday 5 April 2023 identified that operational and road noise emissions generated by the quarry were audible during the day periods at the Managers Cottage (R1) and Silverwattle (R2), however, remained below relevant noise limits.

Quarry noise remained inaudible during all other measurements, and therefore satisfies specified noise limits in the Environmental Protection Licence and Development Consent. These monitoring locations were dominated by extraneous sources such as traffic that predominately masked quarry operations.

MAY 2022 NOISE MONITORING ASSESSMENT

These results are presented as shown in the Noise Assessment report prepared by Muller Acoustic Consulting.

Date Time (hra)		Descript	or (dBA re	20 µP5)	EPL	Meteorology	
	Line: (hra)	LAmax	LAcq	LA:so	Limit		Description and SPL, dBA
28/04/2022						WD: SE	Birda 35-64
							Traffic 34-83
(Morning	06:45	83	61	38	36	WS @10m: 0.1m/s	Inaccta <34
Shoulder)					Rain: Nil	Quarry insudible	
	G.	any Site L	Acq(15min)	Contribut	ion		<28
							Birds 41-54
							Traffic 37-74
27/04/2022						WD: SE	Aircraft 39-54
(Day)	16:27	74	55	40	39	WS @10m: 0.1m/s	Local residential noise 44-60
						Rain: Nil	Inaccta <38
							Quarry insudible
	0.	any Site L	Acq(15min)	Contribut	ion		<30
							Traffic 34-86
27/04/2022						WD: SE	Inaccta <30
(Evening)	18:44	86	60	35	37	WS @10m: 2.4m/s	Aircraft 32-38
						Rain: Nil	Quarry inaudible

Note: Meteorology data obtained Canberrs Airport MET station.

Table 5 Ope	erator-Attende	ed Noise S	Survey Re	esults – S	Silverwat	tle (R2)	
Date	Time (hra)	Descriptor (dBA re 20 µPs)			EPL	Mataorology	Description and SPL, dBA
UGIC	time (real)	LAmax	LAcq	LAso	Limit	inclusion and gy	
							Insects <35
28/04/2022						WD: SE	Birds 35-60
(Moming	06:29	60	44	37	36	WS @10m: 0.1m/s	Traffic 36-52
Shoulder)						Rain: Nil	Quarry crushing 35-42
							(6 minutes)
	0	Ruany Site L	Acq(13min)	Contributio	m		36
						WD: SSE	Birds 41-70
27/04/2022	16:03	70	47	41	39	WS @10m: 2.4m/a	Traffic 39-43
(Day)	10.00			-	~	Rain: Nil	Livestock 42-46
						1.201.150	Quarry crushing 35-42
	0	luany Site L	Acq(15min)	Contributio	n		38
						WD: SE	haceta <33
27/04/2022	18-25	57	41	37	37	WS @10m: 0.1m/s	Livestock 33-39
(Evening)	10.20		-	-11	-0	Rain: Nil	Traffic 36-57
						Raint: Mil	Quarry insudible
	(Ruany Site L	Acq(15min)	Contributio	m		Site not operating

Note: Meteorology data obtained Canberrs Airport MET station.

	_	Descriptor (dBA re 20 µPa)			EPL.			
Date	Time (hra)	LAmax	LAcq	LAso	Limit	Meteorology nit	Description and SPL, dB/	
28/04/2022						WD: SSE	Traffic 43-94	
(Morning	06:08	94	78	57	36	WS @10m: 1.1m/a		
Shoulder)						Rain: Nil	Quarry inaudible	
	(Ruarry Site	LAcg(13min) Contribu	tion		<36	
27/04/2022						WD: SSE	Traffic 54-94	
	15:42	15:42	94	79	64	39	WS @10m: 2.3m/s	
(Day)						Rain: Nil	Quarry inaudible	
	(Ruany Site	LAcq(13min) Contribu	tion		<39	
27/04/2022						WD: SE	Traffic 50-94	
	18:03	94	79	60	37	WS @10m: 1.1m/s		
(Evening)						Rain: Nil	Quarry insudible	
	(Ruarry Site	LAcg(15min) Contribu	tion		Site not operating	

Note: Meteorology data obtained Carberrs Airport MET station.

Muller Acoustic Consulting Pty Ltd (MAC) has completed a Noise Monitoring Assessment (NMA) on behalf of Boral for their Hall Quarry, Jeir, NSW. The assessment was completed to quantify site noise emissions against relevant noise criteria pertaining to quarry operations and traffic noise.

Attended monitoring during Wednesday 27 April 2022 and Thursday 28 April 2022 identified that operational and road noise emissions generated by the quarry were audible during the morning shoulder and day periods at the Silverwattle (R2), however, remained below relevant noise limits.

Quarry noise remained inaudible at both Manager's Cottage (R1) and Barton Highway (R3) locations, and therefore satisfies specified noise limits in the Environmental Protection Licence and Development Consent. These monitoring locations were dominated by extraneous sources that predominately masked quarry operations.

APRIL 2021 NOISE MONITORING ASSESSMENT

The monitoring and assessment results are presented in individual tables for each monitoring location.

The results of the attended noise measurements at location R1 for the April 2021 survey period are summarised in **Table 4** with relevant EPL limits, the calculated quarry noise contribution and prevailing meteorology conditions at the time of each measurement.

Date Time (hrs)	Descriptor (dBA re 20 µPa)			EPL	Matanalari	Description and CDL - IDA	
Date	Time (hrs)	LAmax LA _{eq} LA90 Limit	Meteorology	Description and SPL, dBA			
23/04/2021 (Morning Shoulder)	06:39	77	60	48	36	WD: W WS: 0.5m/s Rain: Nil	Traffic 45-77 Birds 45-51 Quarry Crushing 45-56 (constant)
	Qua	rry Site LA	eq(15min) C	ontribution	n		46
22/04/2021 (Day)	11:17	75	54	43	39	WD: SSW WS: 2.7m/s Rain: Nil	Traffic 43-75 Wind in trees 41-46 Quarry Mobile Plant <36 (only audible during breaks in traffic)
	Qua	rry Site LA	eq(15min) C	ontribution	ı		<36
22/04/2021 (Evening)	18:50	66	41	27	37	WD:NW WS:0.1m/s Rain:Nil	Traffic 25-66 Insects 25-36 Aircraft 28-42 Quarry Inaudible
	Qua	Site Not Operating					

Note: Meteorology data obtained from direct measurement by the operator.

The results of the attended noise measurements at location R2 for the April 2021 survey period are summarised in **Table 5** with relevant EPL limits, the calculated quarry noise contribution and prevailing meteorology conditions at the time of each measurement.

Table 5 Ope	erator-Attende	ed Noise S	Survey Re	sults – Sil	verwattle	(R2)	
Date	Time (hrs)	Descript	tor (dBA re	20 µPa)	EPL	Meteorology	Description and SPL, dBA
Date	nine (nis)	LAmax	LAeq	LA90	Limit	weteorology	Description and SFE, dBA
23/04/2021 (Morning Shoulder)	06:20	60	41	28	36	WD:W WS:0.1m/s Rain:Nil	Birds 28-51 Traffic 28-60 Agriculture 36-42 Quarry Inaudible
	Qu	arry Site LA	eq(15min) C	ontribution			<35
22/04/2021 (Day)	11:55	68	52	43	39	WD: SSW WS: 2.5m/s Rain: Nil	Traffic 37-68 Wind in trees 37-56 Quarry Inaudible
	Qu	arry Site LA	eq(15min) C	ontribution			<35
22/04/2021 (Evening)	19:09	62	41	19	37	WD: NW WS: 0.1m/s Rain: Nil	Insects <26 Traffic 20-62 Aircraft 26-46 Dog bark 26-38 Livestock 28-38 Quarry Inaudible
	Qu	Site Not Operating					

Note: Meteorology data obtained from direct measurement by the operator.

The results of the attended noise measurements at location R3 for the April 2021 survey period are summarised in **Table 6** with relevant EPL limits, the calculated quarry noise contribution and prevailing meteorology conditions at the time of each measurement.

Table 6 Ope	erator-Attend	ed Noise	Survey R	esults – E	Barton Hi	ghway (R3)	
	Time (her)	Descript	tor (dBA re	20 µPa)	EPL	Mataanalaani	Description and SPL dDA
Date	Time (hrs)	LAmax	LAeq	LA90	Limit	Meteorology	Description and SPL, dBA
23/04/2021						WD: W	T
(Morning	06:00	86	72	56	36	WS: 0.1m/s	Traffic 48-86
Shoulder)						Rain: Nil	Quarry Inaudible
	Qua	arry Site LA	eq(15min) C	ontribution			<35
22/04/2024					•	WD: SSW	Traffic 43-84
22/04/2021	12:21 84	84	84 68	49	39	WS: 2.5m/s	Insects <43
(Day)						Rain: Nil	Quarry Inaudible
	Qua	arry Site LA	eq(15min) C	ontribution			<35
22/24/2224	•			•	•	WD: NW	T. (
22/04/2021 18:31	18:31	83	70	54	37	WS: 0.1m/s	Traffic 45-83
(Evening)						Rain: Nil	Quarry Inaudible
	Qua	Site Not Operating					

Note: Meteorology data obtained from direct measurement by the operator.

APRIL 2020 NOISE MONITORING ASSESSMENT

The monitoring and assessment results are presented in individual tables for each monitoring location.

The results of the 15 minute attended noise measurements for Tuesday 21 April 2020 and Wednesday 22 April 2020 for R1 are summarised in **Table 4**.

Table 4 Ope	rator-Attend	ed Noise	Survey Res	sults – Man	ager's Cottage (R1)
Date	Time (hrs)	Primary Noise Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		LAmax	LAeq	LA90		,
22/04/2020	06:23 (Morning Shoulder)	79	60	40	WS: <0.5m/s WD: W Rain: Nil	Local Traffic 40-79 Highway Traffic <35-40 Birds 38-51 Site Vehicles/Loading <30-40
	•	Quarry Si	te LAeq(15mi	n) Contributio	on	<36
22/04/2020	08:17 (Day)	76	60	40	WS: 1.0m/s WD: NW Rain: Nil	Local Traffic 40-76 Highway Traffic <32-40 Birds 37-63 Site Vehicles/Loading 32-38 Site Impacts 38-40 Site Hum <32-34
		Quarry Si	te LAeq(15mi	n) Contributio	on	37
21/04/2020	19:57 (Evening)	77	52	22	WS: <0.1m/s WD: W Rain: Nil	Local Traffic 30-77 Highway traffic 20-43
		Quarry Si	te LAeq(15mi	n) Contributio	on	Site Not Operating

The results of the 15 minute attended noise measurements for Tuesday 21 April 2020 and Wednesday 22 April 2020 for R2 are summarised in **Table 5**.

Table 5 Ope	rator-Attend	ed Noise	Survey Res	sults – Silve	erwattle (R2)	
		Primary	Noise Descr	iptor (dBA		
Date	Time (hrs)	re 20 µPa)			Meteorology	Description and SPL, dBA
	-	LAmax	LAeq	LA90	-	
	-					Birds 34-63
	06:43				WS: <0.5m/s	Traffic 35-78
22/04/2020	(Morning	78	57	37	WD: W	Residential Noise 38-40
	Shoulder)				Rain: Nil	Site Vehicles/Loading 30-38
						Site Hum 30-33
		Quarry Si	te LAeq(15mi	n) Contributio	on	34
						Birds 35-57
	08:37				WS: 1.0m/s	Traffic 40-79
22/04/2020	(Day)	79	55	38	WD: W	Site Vehicles/Loading 35-38
	(Day)				Rain: Nil	Site Impacts 35-40
						Site Hum <33
		Quarry Si	te LAeq(15mi	n) Contributio	on	35
	20:27				WS: <0.1m/s	Insects 20-33
21/04/2020		73	50	14	WD: W	Birds 20-28
	(Evening)				Rain: Nil	Traffic 20-73
	•	Quarry Si	te LAeq(15mi	n) Contributio	on	Site Not Operating

The results of the 15 minute attended noise measurements for Tuesday 21 April 2020 and Wednesday 22 April 2020 for R3 are summarised in **Table 6**.

		Primary	Noise Descr	iptor (dBA		
Date	Time (hrs)		re 20 µPa)		Meteorology	Description and SPL, dBA
	-	LAmax	LAeq	LA90	-	
	06:00			-	WS: <0.1m/s	T //
22/04/2020	(Morning	81	66	47	WD: W	Traffic 41-81 Site Not Audible
	Shouder)				Rain: Nil	
		Quarry Sit	e LAeq(15mi	n) Contributio	 on	<36
		80	66		WS: <0.1m/s	Traffic 37-80
22/04/2020	07:57			43	WD: W	Birds 35-42
	(Day)				Rain: Nil	Site Not Audible
	•	Quarry Sit	e LAeq(15mi	n) Contributio	on .	<39
21/04/2020	40:27				WS: 0.5m/s	T#- 25.94
	19:37	81 62	62	35	WD: W	Traffic 25-81
	(Evening)				Rain: Nil	Insects <25
Quarry Site LAeq(15min) Contribution						Site Not Operating

Hall Quarry Noise Monitoring Locations

