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Environmental Monitoring Report – Noise Monitoring Data

Talbragar Quarry

September 2025

Date Published: 15th September 2025

The monitoring of pollutants provided in this report is undertaken as per the requirements of Environment Protection Licence 899 (EPL 899 – Boral Talbragar Quarry)

This report provides historical environmental monitoring data for Talbragar Quarry for the period January 2019 to Present day. If there is a gap in data presented in the report this is because there was no monitoring data to present for the relevant period.

Talbragar Quarry Information	
Premise Details	Boral – Talbragar Quarry
Address	Brocklehurst, Dubbo, NSW, 2830
Licensee	Boral Resources (Country) Pty Ltd
EPL No	899
EPL Location	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=170462&SYSUID=1&LICID=899

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

- Noise Monitoring

Noise Monitoring

Noise Monitoring is conducted as per condition M6 of EPL 899. The noise monitoring results for the reporting period are tabled below. All results are in compliance for the current reporting period.

Sample Period: January 2019 – present
Licensee: Talbragar Quarry
Licensee Address: Brocklehurst, Dubbo, NSW 2830
EPL No: 899

Qualifications related to Noise

M6.1 To assess compliance with Condition L4.1, attended noise monitoring must be undertaken in accordance with Conditions L4.5:

- a) at monitoring points 12 and 14 as listed in Condition L4.1;
- b) occur quarterly;
- c) occur between the hours of 6am and 7am during either Road or Railway dispatch activities.

Noise Criteria

Location		Day (7am to 6pm)	Evening (6pm to 10pm)	
EPL Ref.	Receiver Location	dB LAeq(15min)	dB LAeq(15min)	dB LAmax
P3	R1	36	35	45
P4	R2	41	38	48
P5	R3	35	35	45
P6	R4	36	35	45
P7	R5	36	35	45
P8	R6	35	35	45
P9	R7	35	35	45
P10	R8	46	41	55
P11	R9	46	41	45
P12	R10	46	41	45
P14	R11	41	38	48

Note: The above noise limits do not apply at properties where the licensee has a written agreement with the landowner to exceed the noise limits.

Note 1: Noise criteria reproduced from the EPL.

Noise Monitoring Results - Quarter 1 Ending October 2019

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 5.

Table 5 Operator-Attended Noise Survey Results – Location P5						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
26/09/2019	14:54	62	41	33	WD: SW	Traffic 30-34
	(Day)				WS: 1.5m/s	Birds 34-58
					Rain: Nil	Aircraft 32-53
						Dogs <32
		Talbragar Quarry L _{Aeq} (15min) Contribution				<35
27/09/2019	06:00	67	45	40	WD: SW	Birds 39-51
	(Morning				WS: 0.1m/s	Traffic 36-47
	Shoulder)				Rain: Nil	
		Talbragar Quarry L _{Aeq} (15min) Contribution				<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P6						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
26/09/2019	15:17	75	54	31	WD: W	Traffic 31-68
	(Day)				WS: 1m/s	Wind <32
					Rain: Nil	Dogs <32
		Talbragar Quarry L _{Aeq} (15min) Contribution				<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		LAmax	LAeq	LA90		
26/09/2019	14:07	63	45	38	WD: W	Traffic 39-54
	WS: 2m/s				Birds 39-59	
	Rain: Nil				Wind 39-58	
					Livestock <37	
	Talbragar Quarry LAeq(15min) Contribution					<35
27/09/2019	06:44	73	48	42	WD: SW	Birds 41-48
	WS: 0.1m/s				Traffic 38-46	
	Rain: Nil					
	Talbragar Quarry LAeq(15min) Contribution					<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results – Location P14

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
26/09/2019	14:33	76	52	42	WD: W	Birds 44-46
	WS: 1.5m/s				Traffic 44-73	
	Rain: Nil				Local residential noise <44	
					Dogs 41-44	
Talbragar Quarry L _{Aeq} (15min) Contribution						<35
27/09/2019	06:19	74	52	43	WD: SW	Birds 42-55
	WS: 0.1m/s				Traffic 39-68	
	Rain: Nil				Livestock 43-56	
					Dogs <43	
Talbragar Quarry L _{Aeq} (15min) Contribution						<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 2 Ending January 2020

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in Table 5.

Table 5 Operator-Attended Noise Survey Results – Location P4

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
03/10/2019	16:16 (Day)	68	49	40	WD: W WS: 2.5m/s Rain: Nil	Dog Bark 38-48
						Wind 36-46
						Traffic 38-54
						Aircraft 4-68
						Birds 42-53
						Local residential noise 43-67
Boral inaudible						
Talbragar Quarry L _{Aeq} (15min) Contribution						<35
04/10/2019	06:45 (Morning Shoulder)	62	49	43	WD: W WS: 0.5m/s Rain: Nil	Traffic 42-52
						Birds 42-61
						Aircraft 48-62
						Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P10

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
03/10/2019	15:38 (Day)	60	48	41	WD: WSW WS: 2.5m/s Rain: Nil	Wind 42-60
						Traffic 42-48
						Local residential noise <42
						Birds 42-50
						Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
03/10/2019	15:20 (Day)	59	49	46	WD: WSW WS: 2.5m/s Rain: Nil	Wind 40-56
						Traffic 41-48
						Local residential noise 40-58
						Birds <44
						Dog bark <44
Boral inaudible						
Talbragar Quarry L _{Aeq} (15min) Contribution						<35
04/10/2019	06:06 (Morning Shoulder)	62	49	45	WD: W WS: 0.5m/s Rain: Nil	Birds 46-61
						Traffic 48-58
						Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<35

Note: Day - the period from 6am to 6pm Monday to Saturday or 6am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining period.

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results – Location P14											
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA					
		L _{Amax}	L _{Aeq}	L _{A90}							
03/10/2019	15:58 (Day)	73	53	44	WD: W WS: 1.5m/s Rain: Nil	Traffic 46-73					
						Birds 43-51					
						Wind 42-45					
						Dog bark 46-50					
						Aircraft 45-69					
						Talbragar Quarry L _{Aeq} (15min) Contribution					Boral processing plant <38
											38
04/10/2019	06:27 (Morning Shoulder)	62	49	43	WD: W WS: 0.5m/s Rain: Nil	Traffic 46-62					
						Birds 48-53					
						Boral inaudible					
						Talbragar Quarry L _{Aeq} (15min) Contribution					<35

Note: Day - the period from Dawn to Dusk Monday to Saturday or from 6am to 6pm on Sundays and public holidays. Evening - the period from 6pm to 10pm. Night - the remaining period.

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 3 Ending April 2020

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 5.

Table 5 Operator-Attended Noise Survey Results – Location P5

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		LAmax	LAeq	LA90		
18/02/2020	09:46 (Day)	66	45	35	WD: E WS: 1.5m/s Rain: Nil	Birds 32-36
						Traffic 34-66
						Wind 34-38
						Insects <32
						Aircraft 36-48
						Boral inaudible
Talbragar Quarry LAeq(15min) Contribution						<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P6

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀		
18/02/2020	06:45				WD: E	Traffic 36-67
	(Morning	67	47	32	WS: 0.1m/s	Birds 32-45
	Shoulder)				Rain: Nil	Boral inaudible
	Talbragar Quarry LA _{eq} (15min) Contribution					<35
18/02/2020	09:25				WD: ESE	Traffic 36-58
	(Day)	72	52	33	WS: 0.5m/s	Birds 36-44
					Rain: Nil	Local residential noise 36-72
	Talbragar Quarry LA _{eq} (15min) Contribution					<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
18/02/2020	06:09	72	43	34	WD: E	Traffic 38-72
	(Morning Shoulder)				WS: 0.1m/s	Dog 35-40
					Rain: Nil	Birds 34-40
						Aircraft 39-55
						Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<35
18/02/2020	08:36	76	50	43	WD: ESE	Local residential noise 36-48
	(Day)				WS: 0.1m/s	Boral processing 36-42
					Rain: Nil	Birds 39-51
						Traffic 36-76
						Talbragar Quarry L _{Aeq} (15min) Contribution

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results – Location P14

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
18/02/2020	06:28	80	51	39	WD: E	Traffic 39-80
	(Morning Shoulder)				WS: 0.1m/s	Idling traffic 36-38
					Rain: Nil	Rooster 37-44
						Birds 36-42
Talbragar Quarry L _{Aeq} (15min) Contribution						<35
18/02/2020	09:05	75	53	43	WD: ESE	Boral loading (3 secs) <61
	(Day)				WS: 0.1m/s	Boral processing plant 36-42
					Rain: Nil	Traffic 36-74
						Birds 36-44
Talbragar Quarry L _{Aeq} (15min) Contribution						40

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 4 Ending July 2020

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in Table 5.

Table 5 Operator-Attended Noise Survey Results – Location P4						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
19/05/2020	06:40				WD: E	Traffic 38-56
	(Morning Shoulder)	74	54	41	WS: 1m/s	Birds 38-74
					Rain: Nil	Dogs <40
						Boral processing ~38
Talbragar Quarry L _{Aeq} (15min) Contribution						~38
19/05/2020	07:00				WD: E	Birds 38-89
	(Day)	89	56	42	WS: 0.5m/s	Traffic 39-54
					Rain: Nil	Boral processing <40
						Boral tipping 39-52 (10 seconds)
Talbragar Quarry L _{Aeq} (15min) Contribution						39

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P10						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
19/05/2020	07:57	67	48	44	WD: E	Birds 38-67
	(Day)				WS: 0.5m/s	Traffic 36-52
					Rain: Nil	Boral processing <36
	Talbragar Quarry L _{Aeq} (15min) Contribution				<36	

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
19/05/2020	06:02 (Morning Shoulder)	51	39	36	WD: E WS: 1.5m/s Rain: Nil	Wind 35-39 Traffic 34-51 Industrial hum <35 Boral processing 34-36
	Talbragar Quarry L _{Aeq} (15min) Contribution					35
	07:39 (Day)	80	54	44	WD: E WS: 0.5m/s Rain: Nil	Aircraft 42-46 Birds 42-80 Traffic 38-52 Boral tipping 38-46 (5 seconds)
	Talbragar Quarry L _{Aeq} (15min) Contribution					<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results – Location P14

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
19/05/2020	06:21 (Morning Shoulder)	73	50	38	WD: E WS: 0.5m/s Rain: Nil	Birds 38-56 Traffic 36-72 Rooster 38-44 Boral reverse alarms <36
	Talbragar Quarry L _{Aeq} (15min) Contribution					<36
	07:18 (Day)	66	54	47	WD: E WS: 0.5m/s Rain: Nil	Birds 38-54 Traffic 36-66 Boral processing 34-38 Boral reverse alarms 38-45 (5 seconds)
	Talbragar Quarry L _{Aeq} (15min) Contribution					36

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 1 Ending October 2020

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 5.

Table 5 Operator-Attended Noise Survey Results – Location P5

Date	Time (hrs)	Descriptor (dBA re 20 μ Pa)			Meteorology	Description and SPL, dBA	
		LA _{max}	LA _{eq}	LA ₉₀			
19/10/2020	16:29	60	40	33	WD: SW	Aircraft 33-60	
	(Day)				WS: 0.4m/s	Birds 36-48	
					Rain: Nil	Traffic 36-46	
						Boral Inaudible	
Talbragar Quarry LA _{eq} (15min) Contribution						<30	
20/10/2020	06:44	62	42	32	WD: SE	Birds 32-62	
	(Morning				WS: 0.1m/s	Traffic 30-54	
					Shoulder)	Rain: Nil	Boral Inaudible
Talbragar Quarry LA _{eq} (15min) Contribution						<30	

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P6

Date	Time (hrs)	Descriptor (dBA re 20 μ Pa)			Meteorology	Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀		
19/10/2020	16:49	71	53	31	WD: SW	Insects <30
	WS: 0.1m/s				Birds 30-44	
	Rain: Nil				Traffic 30-71	
					Boral Inaudible	
Talbragar Quarry LA _{eq} (15min) Contribution						<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		LAmax	LAeq	LA90		
19/10/2020	15:52 (Day)	67	47	36	WD: SW WS: 0.3m/s Rain: Nil	Birds 36-66
						Insects 36-40
						Traffic 38-48
						Aircraft 36-65
						Boral Inaudible
Talbragar Quarry LAeq(15min) Contribution						<30
20/10/2020	06:07 (Morning Shoulder)	60	44	37	WD: SE WS: 0.1m/s Rain: Nil	Birds 42-58
						Traffic 40-52
						Boral Inaudible
Talbragar Quarry LAeq(15min) Contribution						<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results – Location P14						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
19/10/2020	16:11 (Day)	73	49	40	WD: SW WS: 0.1m/s Rain: Nil	Local residential noise 41-46
						Boral processing 34-38
						Birds 45-53
						Traffic 38-73
						Dog <44
Talbragar Quarry L _{Aeq} (15min) Contribution						35
20/10/2020	06:26 (Morning Shoulder)	66	49	38	WD: SE WS: 0.1m/s Rain: Nil	Birds 36-44
						Traffic 36-66
						Rooster 36-49
						Boral Inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 2 Ending January 2021

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in Table 5.

Table 5 Operator-Attended Noise Survey Results – Location P4

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
19/01/2021	07:00	62	48	44	WD: N	Traffic 42-56
	WS: 0.1m/s				Birds 41-62	
	Rain: Nil				Quarry tipping 36-45	
						(10 seconds)
Talbragar Quarry L _{Aeq} (15min) Contribution						<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P10

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
19/01/2021	08:23 (Day)	75	50	44	WD: N	Traffic 38-48
					WS: 0.1m/s	Birds 38-75
					Rain: Nil	Quarry Screening Plant <38
					Talbragar Quarry L _{Aeq} (15min) Contribution	
19/01/2021	06:04 (Morning Shoulder)	72	53	46	WD: NE	Traffic 46-54
					WS: 0.1m/s	Birds 48-72
					Rain: Nil	Livestock 43-56
						Train 48-62
						Quarry Inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution		<30				

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		LAmax	LAeq	LA90		
19/01/2021	08:03 (Day)	68	48	44	WD: N WS: 0.1m/s Rain: Nil	Traffic 42-50
						Birds 42-49
						Dogs <44
						Local residential noise 42-50
						Aircraft 48-68
						Quarry Mobile Plant <42
Talbragar Quarry LAeq(15min) Contribution						<42
19/01/2021	06:22 (Morning Shoulder)	66	50	45	WD: NE WS: 0.1m/s Rain: Nil	Traffic 43-49
						Birds 47-66
						Quarry Inaudible
Talbragar Quarry LAeq(15min) Contribution						<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at

Table 8 Operator-Attended Noise Survey Results – Location P14

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		LAmax	LAeq	LA90		
19/01/2021	08:41 (Day)	76	52	42	WD: N WS: 0.1m/s Rain: Nil	Insects 44-46
						Traffic 44-76
						Birds 46-52
						Aircraft 44-50
						Quarry Screening Plant 36-44
Talbragar Quarry LAeq(15min) Contribution						40
19/01/2021	06:43 (Morning Shoulder)	71	50	44	WD: N WS: 0.1m/s Rain: Nil	Birds 46-58
						Traffic 46-71
						Quarry Screening Plant <36
						Quarry Mobile Plant 36-48 (30 seconds)
						Talbragar Quarry LAeq(15min) Contribution

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 3 Ending April 2021

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 5.

Table 5 Operator-Attended Noise Survey Results – Location P5						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀		
12/04/2021	16:35 (Day)	60	43	38	WD: SW WS: 0.4m/s Rain: Nil	Boral Water Cart (10 seconds) 39-41
						Boral Front End Loader (30 seconds) 39-43
						Birds 35-60
						Traffic 39-48
						Insects <39
Talbragar Quarry LA _{eq} (15min) Contribution						30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P6						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀		
12/04/2021	16:55 (Day)	70	51	39	WD: SW WS: 0.3m/s Rain: Nil	Traffic 39-70
						Birds 39-44
						Insects <39
						Agriculture 39-42
						Local residential noise 38-65
						Aircraft 38-57
						Quarry Inaudible
Talbragar Quarry LA _{eq} (15min) Contribution						<30
13/04/2021	06:39 (Morning Shoulder)	73	53	41	WD: SE WS: 0.1m/s Rain: Nil	Traffic 40-73
						Birds 40-61
						Local residential noise 40-64
						Quarry Inaudible
Talbragar Quarry LA _{eq} (15min) Contribution						<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
12/04/2021	15:59	68	50	41	WD: SW	Birds 38-49
	WS: 0.4m/s				Traffic 38-44	
	Rain: Nil				Aircraft 39-68	
					Quarry Inaudible	
Talbragar Quarry L _{Aeq} (15min) Contribution						<30
13/04/2021	06:01	70	49	43	WD: SE	Traffic 39-66
	WS: 0.1m/s				Birds 41-70	
	Rain: Nil				Dogs <44	
					Quarry Inaudible	
Talbragar Quarry L _{Aeq} (15min) Contribution						<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R11) for the NMA are presented in Table 8

Table 8 Operator-Attended Noise Survey Results – Location P14

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
12/04/2021	16:16 (Day)	73	50	40	WD: SW	Birds 44-48
					WS: 0.3m/s	Traffic 41-73
					Rain: Nil	Boral Hammering (5 seconds) 39-43
						Dogs 39-42
						Livestock 37-39
Talbragar Quarry L _{Aeq} (15min) Contribution						<30
13/04/2021	06:19	70	52	46	WD: SE	Birds 39-70
	(Morning Shoulder)				WS: 0.1m/s	Traffic 39-58
					Rain: Nil	Quarry Inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 4 Ending July 2021

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R3) for the NMA are presented in Table 5.

Table 5 Operator-Attended Noise Survey Results – Location P4						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
06/07/2021	07:10 (Day)	74	54	47	WD: SE WS: 0.1m/s Rain: Nil	Birds 45-66
						Local residential noise 45-54
						Traffic 45-74
						Boral Train Idle 37-39
						Boral Tipping 43-52 (5 seconds)
Talbragar Quarry L _{Aeq} (15min) Contribution						<37
06/07/2021	06:05 (Morning Shoulder)	61	45	41	WD: SE WS: 0.1m/s Rain: Nil	Boral Train Idle 37-39
						Birds 39-61
						Traffic 39-46
						Talbragar Quarry L _{Aeq} (15min) Contribution

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R4) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P10						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
06/07/2021	08:16 (Day)	85	65	56	WD: SE	Traffic 56-85
					WS: 0.1m/s	Industrial hum 56-63
					Rain: Nil	Aircraft 55-64
						Boral Tipping (1 minute) 55-64
Talbragar Quarry L _{Aeq} (15min) Contribution						41

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12

Date	Time (hrs)	Descriptor (dBA re 20 μ Pa)			Meteorology	Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀		
06/07/2021	08:40 (Day)	65	48	42	WD: SE	Traffic 48-65
					WS: 0.1m/s	Birds 48-54
					Rain: Nil	Boral Inaudible
					Talbragar Quarry LA _{eq} (15min) Contribution	
06/07/2021	06:43 (Morning Shoulder)	64	49	44	WD: SE	Traffic 41-58
					WS: 0.1m/s	Birds 41-64
					Rain: Nil	Boral Inaudible
					Talbragar Quarry LA _{eq} (15min) Contribution	

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R11) for the NMA are presented in Table 8

Table 8 Operator-Attended Noise Survey Results – Location P14

Date	Time (hrs)	Descriptor (dBA re 20 μ Pa)			Meteorology	Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀		
06/07/2021	07:50 (Day)	61	49	45	WD: SE	Birds 45-61
					WS: 0.1m/s	Traffic 45-48
					Rain: Nil	Dog bark 45-51
					Boral Tipping (5 seconds) 45-50	
06/07/2021	06:23 (Morning Shoulder)	73	51	43	Talbragar Quarry LA _{eq} (15min) Contribution	
					35	
					Roosters 39-58	
					WD: SE	Traffic 39-62
					WS: 0.1m/s	Birds 39-42
					Rain: Nil	Operator vehicle 73
06/07/2021	06:23 (Morning Shoulder)	73	51	43	Boral Train Idle <39	
					Talbragar Quarry LA _{eq} (15min) Contribution	
06/07/2021	06:23 (Morning Shoulder)	73	51	43	<37	

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 1 Ending October 2021

4.1 Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 5.

Table 5 Operator-Attended Noise Survey Results – Location P5						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
12/10/2021	11:34	71	54	47	WD: E	Wind in trees 42-64
	WS: 2.5m/s				Birds 42-71	
	Rain: Nil				Traffic 42-58	
					Boral Inaudible	
Talbragar Quarry L _{Aeq} (15min) Contribution						<35
12/10/2021	06:38 ¹	72	47	38	WD: SE	Wind in trees 34-44
	WS: 1.4m/s				Traffic 34-42	
	Rain: Nil				Birds 34-48	
					Operator 45-72	
Talbragar Quarry L _{Aeq} (15min) Contribution						<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.
Note 1: Five minutes of the 15 minute assessment period were excluded due to adverse meteorological conditions.

4.2 Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P6						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
12/10/2021	11:57				WD: E	Traffic 52-68
	(Day)	78	63	56	WS: 2.8m/s	Wind in trees 54-78
					Rain: Nil	Boral Inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
12/10/2021	10:21 (Day)	67	52	50	WD: E WS: 0.8m/s Rain: Nil	Traffic 48-63 Birds 48-67 Wind in trees 48-63 Boral Loading 48-54 (2 minutes)
						Talbragar Quarry L _{Aeq} (15min) Contribution
						41
12/10/2021	06:00 (Morning Shoulder)	60	45	37	WD: SE WS: 0.1m/s Rain: Nil	Traffic 34-54 Birds 34-60 Dog bark 44-49 Train horn 52-56 Boral Inaudible
						Talbragar Quarry L _{Aeq} (15min) Contribution
						<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R11) for the NMA are presented in Table 8

Table 8 Operator-Attended Noise Survey Results – Location P14

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
12/10/2021	11:16 (Day)	72	58	55	WD: E WS: 2m/s Rain: Nil	Birds 52-72 Wind in trees 52-65 Traffic 52-68 Boral processing <41
						Talbragar Quarry L _{Aeq} (15min) Contribution
						<41
12/10/2021	06:17 (Morning Shoulder)	74	54	44	WD: SE WS: 0.6m/s Rain: Nil	Traffic 43-68 Birds 43-56 Train passby 43-74 Boral Impacts 40-44 (4 minutes)
						Talbragar Quarry L _{Aeq} (15min) Contribution
						34

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 2 Ending January 2022

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in Table 5.

Table 5 Operator-Attended Noise Survey Results – Location P4

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
18/10/2022	07:18	75	51	42	WD: S	Birds 39-54
	(Day)				WS: 0.4m/s	Traffic 39-75
					Rain: Nil	Insects 39-41
Talbragar Quarry L _{Aeq} (15min) Contribution						<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P10

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA				
		L _A max	L _A eq	L _A 90						
18/10/2022	07:37 (Day)	72	52	42	WD: S	Birds 40-49				
					WS: 0.2m/s	Traffic 40-64				
						Insects <40				
						Aircraft 40-72				
						Boral reverse alarms <40 (2 minutes)				
					Talbragar Quarry L _A eq(15min) Contribution					33
18/10/2022	06:38 (Morning Shoulder)	59	43	38	WD: S	Traffic 39-59				
					WS: 0.3m/s	Insects 36-38				
						Birds 42-56				
						Boral inaudible				
						Talbragar Quarry L _A eq(15min) Contribution				

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
18/10/2022	08:37	91	71	43	WD: S	Council slashing 49-91
	(Day)				WS: 1.4m/s	Dogs 43-46
					Rain: Nil	Traffic 43-50
						Boral inaudible
						Talbragar Quarry L _{Aeq} (15min) Contribution
18/10/2022	06:19	75	49	42	WD: S	Insects <39
	(Morning Shoulder)				WS: 0.4m/s	Birds 39-75
					Rain: Nil	Traffic 39-56
						Boral inaudible
						Talbragar Quarry L _{Aeq} (15min) Contribution

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results – Location P14						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
18/10/2022	07:00 (Day)	76	51	40	WD: S	Insects <37
					WS: 0.4m/s	Traffic 40-76
					Rain: Nil	Birds 37-46
						Boral reverse alarms <37 (3 minutes)
Talbragar Quarry L _{Aeq} (15min) Contribution						30
18/10/2022	06:00 (Morning Shoulder)	64	46	39	WD: S	Insects 36-40
					WS: 0.6m/s	Birds 36-56
					Rain: Nil	Traffic 36-64
						Rooster 36-49
						Dogs 40-51
						Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 3 Ending April 2022

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in **Table 5**.

Table 5 Operator-Attended Noise Survey Results – Location P5						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
05/04/2022	07:10 (Day)	65	46	43		Traffic 41-51
					WD: SE	Birds 44-65
					WS: 0.1m/s	Livestock <41
					Rain: Nil	Train 43-46
						Boral FEL barely perceptible
Talbragar Quarry L _{Aeq} (15min) Contribution						<33

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in **Table 6**.

Table 6 Operator-Attended Noise Survey Results – Location P6						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
05/04/2022	07:31 (Day)	98	68	43	WD: SE	Traffic 40-64
					WS: 0.1m/s	Birds 40-54
					Rain: Nil	Train 49-98
						Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<33
05/04/2022	06:45 (Morning Shoulder)	73	51	43	WD: SE	Birds 39-59
					WS: 0.3m/s	Traffic 42-73
					Rain: Nil	Local residential noise 39-54
						Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<33

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12					
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}	
05/04/2022	08:10 (Day)	74	49	40	WD: SE WS: 0.1m/s Rain: Nil Traffic 37-52 Birds 37-74 Industrial noise <42 Boral inaudible
	Talbragar Quarry L _{Aeq} (15min) Contribution				<35
05/04/2022	06:28 (Morning Shoulder)	69	51	46	WD: SE WS: 0.1m/s Rain: Nil Birds 47-56 Traffic 47-53 Aircraft 50-69 Dog bark <47 Boral inaudible
	Talbragar Quarry L _{Aeq} (15min) Contribution				<36

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results – Location P14					
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}	
05/04/2022	07:50 (Day)	72	53	47	WD: SE WS: 0.1m/s Rain: Nil Traffic 40-72 Birds 40-54 Boral processing 38-40
	Talbragar Quarry L _{Aeq} (15min) Contribution				39
05/04/2022	06:08 (Morning Shoulder)	69	52	43	WD: SE WS: 0.1m/s Rain: Nil Birds 45-64 Traffic 42-69 Rooster 44-58 Boral inaudible
	Talbragar Quarry L _{Aeq} (15min) Contribution				<33

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 4 Ending July 2022

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in **Table 5**.

Table 5 Operator-Attended Noise Survey Results – Location P4

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
07/06/2022	07:03	69	50	44	WD: NW	Traffic 41-58
	(Day)				WS: 0.1m/s	Birds 41-69
					Rain: Nil	Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<34
07/06/2022	06:45	67	50	44	WD: NW	Birds 38-67
	(Morning				WS: 0.1m/s	Traffic 48-54
	Shoulder)				Rain: Nil	Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<34

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in **Table 6**.

Table 6 Operator-Attended Noise Survey Results – Location P10

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
07/06/2022	08:00	72	55	44	WD: NW	Traffic 36-58
	(Day)				WS: 0.1m/s	Birds 38-63
					Rain: Nil	Aircraft 36-72
						Boral inaudible
						Talbragar Quarry L _{Aeq} (15min) Contribution

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
07/06/2022	07:42	72	50	43	WD: NW	Birds 36-72
	(Day)				WS: 0.1m/s	Traffic 36-58
					Rain: Nil	Boral inaudible
					Talbragar Quarry L _{Aeq} (15min) Contribution	
07/06/2022	06:27	74	54	42	WD: NW	Traffic 40-64
	(Morning Shoulder)				WS: 0.1m/s	Birds 38-48
					Rain: Nil	Aircraft 36-74
					Talbragar Quarry L _{Aeq} (15min) Contribution	

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results – Location P14

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		LAmax	LAeq	LA90		
07/06/2022	07:21 (Day)	79	57	47	WD: NW	Birds 46-54
					WS: 0.1m/s	Traffic 42-79
					Rain: Nil	Rooster 46-54
					Boral inaudible	
Talbragar Quarry LAeq(15min) Contribution						<37
07/06/2022	06:07 (Morning Shoulder)	66	50	41	WD: NW	Traffic 37-66
					WS: 0.1m/s	Rooster 38-44
					Rain: Nil	Birds 37-46
					Boral inaudible	
Talbragar Quarry LAeq(15min) Contribution						<31

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 1 Ending October 2022

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in **Table 5**.

Table 5 Operator-Attended Noise Survey Results – Location P5

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
12/09/2022	17:08	54	43	40	WD: SW	Birds 37-54
	WS: 0.3m/s				Traffic 37-46	
	Rain: Nil				Boral inaudible	
Talbragar Quarry L _{Aeq} (15min) Contribution						<30
13/09/2022	06:43	70	47	42	WD: NE	Traffic 42-56
	WS: 0.1m/s				Birds 43-70	
	Rain: Nil				Boral reverse alarms <43	
Talbragar Quarry L _{Aeq} (15min) Contribution						<20

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in **Table 6**.

Table 6 Operator-Attended Noise Survey Results – Location P6

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
12/09/2022	17:30	66	50	37	WD: SW	Birds 34-51
	(Day)				WS: 0.2m/s	Traffic 33-66
					Rain: Nil	Livestock 36-46
						Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<27

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀		
12/09/2022	16:45 (Day)	62	49	46	WD: SW	Traffic 43-62
					WS: 0.3m/s	Birds 46-58
					Rain: Nil	Aircraft 44-54
						Boral inaudible
Talbragar Quarry LA _{eq} (15min) Contribution						<36
13/09/2022	06:21 (Morning Shoulder)	68	51	47	WD: NE	Birds 40-68
					WS: 0.1m/s	Traffic 44-58
					Rain: Nil	Aircraft 46-54
						Industrial noise <46
Talbragar Quarry LA _{eq} (15min) Contribution						<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results – Location P14						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀		
12/09/2022	16:27 (Day)	79	54	46		Birds 48-62
					WD: SW	Traffic 44-79
					WS: 0.2m/s	Dog bark 46-54
					Rain: Nil	Aircraft 42-56
						Boral processing <41
Talbragar Quarry LA _{eq} (15min) Contribution						<41
13/09/2022	06:01 (Morning Shoulder)	67	48	43		Birds 40-67
					WD: NE	Traffic 42-50
					WS: 0.2m/s	Rooster 40-58
					Rain: Nil	Boral inaudible
Talbragar Quarry LA _{eq} (15min) Contribution						<33

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 2 Ending January 2023

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in **Table 5**.

Table 5 Operator-Attended Noise Survey Results – Location P4

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
15/12/2022	12:10 (Day)	65	47	40	WD: W WS: 1m/s Rain: Nil	Traffic 38-54
						Birds 38-56
						Livestock 37-46
						Local residential noise <37
						Aircraft 37-65
						Boral tipping 36-40 (10 seconds)
Talbragar Quarry L _{Aeq} (15min) Contribution						<20

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in **Table 6**.

Table 6 Operator-Attended Noise Survey Results – Location P10

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
15/12/2022	11:34 (Day)	63	44	40	WD: W WS: 1.8m/s Rain: Nil	Traffic 39-48
						Insects 39-44
						Wind in vegetation 40-44
						Birds 40-50
						Construction noise 40-63
						Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<30
16/12/2022	06:20	78	55	42	WD: S	Birds 39-59
	(Morning				WS: 0.1m/s	Traffic 39-78
	Shoulder)				Rain: Nil	Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<32

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in **Table 7**.

Table 7 Operator-Attended Noise Survey Results – Location P12						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
15/12/2022	11:16 (Day)	67	46	38	WD: W WS: 1.2m/s Rain: Nil	Birds 38-48
						Traffic 36-44
						Wind in vegetation 36-40
						Insects 36-55
						Dog bark 40-52
						Aircraft 46-67
						Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution						<28
16/12/2022	06:37 (Morning Shoulder)	68	47	42	WD: S WS: 0.1m/s Rain: Nil	Birds 40-68
						Traffic 39-48
						Dog bark 39-44
						Boral inaudible
						Talbragar Quarry L _{Aeq} (15min) Contribution

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in **Table 8**.

Table 8 Operator-Attended Noise Survey Results – Location P14						
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}		
15/12/2022	11:53 (Day)	71	52	41	WD: W WS: 1m/s Rain: Nil	Traffic 39-71
						Insects <39
						Birds 39-52
						Wind in vegetation 39-46
						Boral processing 38-40 (5 minutes)
Talbragar Quarry L _{Aeq} (15min) Contribution						35
16/12/2022	06:01 (Morning Shoulder)	77	55	45	WD: S WS: 0.1m/s Rain: Nil	Birds 44-58
						Traffic 42-77
						Dog bark 48-60
						Boral reverse alarms 44-48 (2 minutes)
						Boral processing 34-40
Talbragar Quarry L _{Aeq} (15min) Contribution						37

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 3 Ending April 2023

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P5

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
23/02/2023	12:20 (Day)	61	47	41	WD: E	WD: NE	Wind in vegetation 37-61
					WS: 7.5m/s	WS: 2.6m/s	Insects <37
					Rain: Nil	Rain: Nil	Birds 38-44
							Boral haul trucks 35-46 (3 minutes)
					Talbragar Quarry LAeq(15min) Contribution		
24/02/2023	06:41 (Morning Shoulder)	66	46	34	WD: SE	WD: N	Dog bark 59-66
					WS: 4.6m/s	WS: 0.2m/s	Insects <30
					Rain: Nil	Rain: Nil	Traffic 32-39
							Other industrial noise 30-34
						Birds 36-54	
						Boral haul trucks <37 (1 minute)	
Talbragar Quarry LAeq(15min) Contribution						<25	

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P6

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
23/02/2023	12:41 (Day)	71	54	48	WD: ENE	WD: NE	Wind in vegetation 39-54
					WS: 6.5m/s	WS: 2.3m/s	Birds <39
					Rain: Nil	Rain: Nil	Traffic 42-71
							Aircraft 40-67
							Boral inaudible
Talbragar Quarry LAeq(15min) Contribution							<36

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results – Location P12

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
23/02/2023	11:32 (Day)	61	51	49	WD: E	WD: NE	Wind in vegetation 46-61
					WS: 8.1m/s	WS: 2.2m/s	Insects <46
					Rain: Nil	Rain: Nil	Birds <46
							Traffic 46-52
							Boral inaudible
Talbragar Quarry LAeq(15min) Contribution							<39
24/02/2023	06:20 (Morning Shoulder)	67	48	39	WD: SE	WD: N	Other industrial noise 38-46
					WS: 3.5m/s	WS: 0.1m/s	Insects 38-41
					Rain: Nil	Rain: Nil	Birds 51-57
							Traffic <44
							Aircraft 41-67
							Dog bark 42-49
Talbragar Quarry LAeq(15min) Contribution							<29

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 9.

Table 9 Operator-Attended Noise Survey Results – Location P14

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		L _{Amax}	L _{Aeq}	L _{A90}			
					BoM 065070	Operator	
23/02/2023	12:00 (Day)	73	54	48	WD: ESE	WD: NE	Wind in vegetation 45-54
					WS: 8.1m/s	WS: 2m/s	Traffic 45-73
					Rain: Nil	Rain: Nil	Insects 45-49
							Birds 46-52
							Boral processing 43-50 (5 minutes)
Talbragar Quarry L _{Aeq} (15min) Contribution							40
24/02/2023	06:00 (Morning Shoulder)	66	46	41	WD: SE	WD: N	Traffic 39-66
					WS: 4.6m/s	WS: 0.1m/s	Insects 39-42
					Rain: Nil	Rain: Nil	Birds 46-51
							Other industrial noise 40-50
							Rooster 40-46
Talbragar Quarry L _{Aeq} (15min) Contribution							<31

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 4 Ending July 2023

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P4

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
07/06/2023	12:28 (Day)	66	47	42	WD: NNW	WD: N	Birds 43-53
					WS: 7.6m/s	WS: 2.0m/s	Dog bark 43-52
					Rain: Nil	Rain: Nil	Traffic 44-66
							Livestock 41-46
							Local residential noise 45-48
							Boral processing 39-43 (10 seconds)
Talbragar Quarry LAeq(15min) Contribution							22
08/06/2023	06:07 (Morning Shoulder)	53	37	30	WD: E	WD: NE	Traffic 33-53
					WS: 2.4m/s	WS: 0.5m/s	Birds 33-39
					Rain: Nil	Rain: Nil	Livestock <35
							Insects 35-42
							Boral inaudible
							<20

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P10

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
07/06/2023	12:50 (Day)	65	47	39	WD: NNW WS: 5.1m/s Rain: Nil	WD: N WS: 1.2m/s Rain: Nil	Traffic 40-48
							Birds 46-54
							Aircraft 40-65
							Boral processing 38-42
							(constant)
							Boral reverse alarms 37-42
							(5 minutes)
Talbragar Quarry LAeq(15min) Contribution							40

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results – Location P12

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
07/06/2023	12:53 (Day)	68	50	44	WD: NNW	WD: N	Wind in trees 49-52
					WS: 5.1m/s	WS: 2.0m/s	Traffic 44-47
					Rain: Nil	Rain: Nil	Aircraft 48-68
							Birds 42-54
							Boral processing 41-46
							(5 minutes)
Talbragar Quarry LAeq(15min) Contribution							38
08/06/2023	06:28 (Morning Shoulder)	75	49	37	WD: ENE	WD: NE	Traffic 40-75
					WS: 1.9m/s	WS: 0.5m/s	Birds 39-53
					Rain: Nil	Rain: Nil	Dog bark 35-38
							Boral inaudible
Talbragar Quarry LAeq(15min) Contribution							<27

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 9.

Table 9 Operator-Attended Noise Survey Results – Location P14

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
07/06/2023	12:12 (Day)	75	53	44	WD: NNW	WD: N	Wind in trees 43-52
					WS: 8.9m/s	WS: 2.0m/s	Traffic 43-75
					Rain: Nil	Rain: Nil	Birds 44-56
							Boral truck movements <41
							Boral reverse alarms <41
							Boral tipping 47-56 (3 seconds)
					Talbragar Quarry LAeq(15min) Contribution		
08/06/2023	06:00 (Morning Shoulder)	72	46	30	WD: ENE	WD: W	Traffic 42-72
					WS: 2.9m/s	WS: 0.2m/s	Livestock 30-32
					Rain: Nil	Rain: Nil	Rooster 28-36
							Boral inaudible
					Talbragar Quarry LAeq(15min) Contribution		

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 1 Ending October 2023

Assessment Results - Location P5 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 6.

Table 6 Operator-Attended Noise Survey Results – Location P5

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀			
					BoM 065070	Operator	
21/09/2023	11:16 (Day)	61	46	41	WD: S	WD: SW	Wind in vegetation 42-48
					WS: 4.6m/s	WS: 4.5m/s	Aircraft 43-61
					Rain: Nil	Rain: Nil	Traffic 40-50
							Birds 41-51
							Boral haul trucks 38-43
							(3 minutes)
							Impact (2 seconds) 50
							Reverse alarm 43
							(20 seconds)
Talbragar Quarry LA _{eq} (15min) Contribution							35
22/09/2023	06:42 (Morning Shoulder)	59	43	35	WD: SSE	WD: SE	Traffic 31-46
					WS: 4.6m/s	WS: 0.5m/s	Birds 33-59
					Rain: Nil	Rain: Nil	Boral trucks 36-49
							(2 minutes)
							Reverse alarm 37
							(15 seconds)
Talbragar Quarry LA _{eq} (15min) Contribution							34

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P6 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P6

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀			
					BoM 065070	Operator	
21/09/2023	10:52 (Day)	83	58	38	WD: S	WD: SW	Wind in vegetation 32-38
					WS: 5.9m/s	WS: 4.0m/s	Birds 36-71
					Rain: Nil	Rain: Nil	Traffic 40-83
							Aircraft 33-60
							Boral inaudible
Talbragar Quarry LA _{eq} (15min) Contribution							<28

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results – Location P12

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀			
					BoM 065070	Operator	
21/09/2023	11:56 (Day)	57	43	39	WD: SSW	WD: SW	Wind in vegetation 38-40
					WS: 5.9m/s	WS: 3.5m/s	Birds 40-51
					Rain: Nil	Rain: Nil	Traffic 38-57
							Boral haul trucks 39-45
							(8 minutes)
							Reverse alarm 43 (15 seconds)
Talbragar Quarry LA _{eq} (15min) Contribution							40
22/09/2023	06:00 (Morning Shoulder)	64	45	38	WD: SSE	WD: SE	Other industrial noise 43-45
					WS: 5.1m/s	WS: 0.3m/s	Birds 35-64
					Rain: Nil	Rain: Nil	Traffic 36-57
							Dog bark <38
							Boral inaudible
					Talbragar Quarry LA _{eq} (15min) Contribution		

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 9.

Table 9 Operator-Attended Noise Survey Results – Location P14

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀			
					BoM 065070	Operator	
21/09/2023	16:40 (Day)	68	48	43	WD: SSW	WD: SE	Traffic 41-59
					WS: 4.6m/s	WS: 3.5m/s	Dogs barking 46-48
					Rain: Nil	Rain: Nil	Birds 42-54
							Boral processing 38-41
							(1 minute)
							Reverse alarm 40-50
							(30 seconds)
							Boral tipper 68
							(1 seconds)
Talbragar Quarry LA _{eq} (15min) Contribution							39
22/09/2023	06:22 (Morning Shoulder)	74	54	41	WD: SSE	WD: SE	Traffic 42-74
					WS: 5.1m/s	WS: 0.5m/s	Birds 41-62
					Rain: Nil	Rain: Nil	Aircraft 45-65
							Boral inaudible
Talbragar Quarry LA _{eq} (15min) Contribution							<31

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 2 Ending February 2024

Assessment Results - Location P4 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in **Table 6**.

Table 6 Operator-Attended Noise Survey Results - Location P4

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
08/02/2024	17:43 (Day)	65	46	39			Wind in vegetation 39-48
							Traffic 40-50
					WD: E	WD: E	Birds 40-58
					WS: 7.0m/s	WS: 2.5m/s	Aircraft 42-65
					Rain: Nil	Rain: Nil	Livestock 42-54
							Boral processing 40-42 (4 minutes)
Talbragar Quarry LAeq(15min) Contribution							38
09/02/2024	06:37 (Morning Shoulder)	67	47	41			Insects 37-41
							Birds 42-52
					WD: ESE	WD: SE	Traffic 40-51
					WS: 4.6m/s	WS: 0.5 m/s	Dogs barking 45-67
					Rain: Nil	Rain: Nil	Aircraft 43-63
							Boral general noise 36-40 (5 minutes)
Talbragar Quarry LAeq(15min) Contribution							38

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P10 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in **Table 7**.

Table 7 Operator-Attended Noise Survey Results - Location P10

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
08/02/2024	11:54 (Day)	60	45	42			Traffic 43-60
							Wind in vegetation 42-45
							Birds 44-52
					WD: E	WD: E	Offsite impact 45-48
					WS: 6.5m/s	WS: 1.8m/s	Dogs barking 40-42
					Rain: Nil	Rain: Nil	Boral reverse alarm 44-47 (<30 seconds)
							Boral processing 38-47 (13 minutes)
Talbragar Quarry LAeq(15min) Contribution							42

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in **Table 8**.

Table 8 Operator-Attended Noise Survey Results - Location P12

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA						
		LAmax	LAeq	LA90									
					BoM 065070	Operator							
08/02/2024	12:12 (Day)	67	48	44	WD: E WS: 5.9m/s Rain: Nil	WD: E WS: 1.5m/s Rain: Nil	Wind in vegetation 42-47						
							Birds 44-53						
							Traffic 43-51						
							Insects 41-44						
							Industrial noise 44-48						
							Aircraft 45-67						
							Boral processing 41-45						
							(14 minutes)						
							Talbragar Quarry LAeq(15min) Contribution						
							43						
09/02/2024	06:18 (Morning Shoulder)	60	41	38	WD: ESE WS: 5.1 m/s Rain: Nil	WD: E WS: 0.5m/s Rain: Nil	Birds 42-60						
							Industrial noise 39-42						
							Traffic 38-40						
							Dogs barking 38-39						
							Insects 36-38						
							Boral general noise <35						
							Talbragar Quarry LAeq(15min) Contribution						
<35													

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in **Table 9**.

Table 9 Operator-Attended Noise Survey Results - Location P14

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA							
		LA _{max}	LA _{eq}	LA ₉₀										
					BoM 065070	Operator								
08/02/2024	17:18 (Day)	68	53	42	WD: ESE WS: 7.6m/s Rain: Nil	WD: E WS: 3.5m/s Rain: Nil	Wind in vegetation 39-45							
							Birds 44-53							
							Traffic 43-68							
							Aircraft 41-50							
							Livestock 46-55							
							Insects 39-68							
							Boral processing 35-42 (<4 minutes)							
							Talbragar Quarry LA _{eq} (15min) Contribution						38	
							09/02/2024	06:00 (Morning Shoulder)	69	50	38	WD: ESE WS: 4.1m/s Rain: Nil	WD: SE WS: 0.5m/s Rain: Nil	Birds 36-52
														Traffic 37-69
Insects 35-38														
Dogs barking 39-44														
Industrial noise 37-40														
Boral inaudible														
Talbragar Quarry LA _{eq} (15min) Contribution						<28								

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 3 Ending August 2024

4.1.1 Assessment Results - Location P4 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in **Table 6**.

Table 6 Operator-Attended Noise Survey Results - Location P4													
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA						
		LAmax	LAeq	LA90									
					BoM 065070	Operator							
25/06/2024	14:50 (Day)	74	66	44	WD: NNW WS: 7.6m/s Rain: Nil	WD: W WS: 3.5m/s Rain: Nil	Local residential noise 48-74						
							Traffic 41-48						
							Birds 42-60						
							Dogs barking 60-64						
							Residential generator 39-41						
							Boral processing 39-40						
							(4 minutes)						
							Boral impact (3 Seconds) 47						
							Talbragar Quarry LAeq(15min) Contribution						38
							25/06/2024	18:16 (Evening)	68	45	36	WD: NE WS: 3.0m/s Rain: Nil	WD: N WS: 0.5 m/s Rain: Nil
Traffic 31-55													
Dogs barking 33-68													
Aircraft 38-51													
Livestock 39-42													
Quarry inaudible													
Talbragar Quarry LAeq(15min) Contribution						<33							

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

4.1.2 Assessment Results - Location P10 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in **Table 7**.

Table 7 Operator-Attended Noise Survey Results - Location P10							
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀			
					BoM 065070	Operator	
25/06/2024	14:07 (Day)	68	50	44	WD: N	WD: W	Traffic 44-51
					WS: 6.5m/s	WS: 4.0m/s	Birds 45-68
					Rain: Nil	Rain: Nil	Aircraft 46-61
							Wind in vegetation 43-60
							Boral reverse alarm 45-47
							(<30 seconds)
							Boral processing 40-46
							(8 minutes)
							Boral impact 52-57
							(3 seconds)
Talbragar Quarry LA _{eq} (15min) Contribution							43
25/06/2024	18:51 (Evening)	67	43	32	WD: ENE	WD: N	Traffic 26-57
					WS: 1.9m/s	WS: 0.4 m/s	Dogs barking 36-41
					Rain: Nil	Rain: Nil	Aircraft 35-40
							Quarry inaudible
Talbragar Quarry LA _{eq} (15min) Contribution							<36

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

4.1.3 Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in **Table 8**.

Table 8 Operator-Attended Noise Survey Results - Location P12							
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀			
					BoM 065070	Operator	
25/06/2024	13:48 (Day)	75	53	45	WD: N	WD: W	Wind in vegetation 44-54
					WS: 5.1m/s	WS: 3.5m/s	Birds 46-57
					Rain: Nil	Rain: Nil	Traffic 43-75
							Local residential noise 51-60
							Aircraft 45-53
							Boral processing <43 (8 minutes)
							Boral trucks 44 (1 minute)
Talbragar Quarry LA _{eq} (15min) Contribution							43
25/06/2024	18:35 (Evening)	54	41	33	WD: NE	WD: N	Traffic 28-54
					WS: 2.4 m/s	WS: 0.4m/s	Boral inaudible
					Rain: Nil	Rain: Nil	
Talbragar Quarry LA _{eq} (15min) Contribution							<36
Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining period							

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

4.1.4 Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in **Table 9**.

Table 9 Operator-Attended Noise Survey Results - Location P14														
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA							
		LA _{max}	LA _{eq}	LA ₉₀										
					BoM 065070	Operator								
25/06/2024	14:25 (Day)	73	51	44	WD: NNW WS: 6.5m/s Rain: Nil	WD: W WS: 4.0m/s Rain: Nil	Wind in vegetation 40-48							
							Dogs Barking 44-64							
							Traffic 40-73							
							Aircraft 45-65							
							Livestock 43-55							
							Boral processing 39-41 (10 min)							
							Talbragar Quarry LA _{eq} (15min) Contribution	41						
							25/06/2024	18:00 (Evening)	66	51	40	WD: N WS: 3.5m/s Rain: Nil	WD: N WS: 0.2m/s Rain: Nil	Traffic 37-66
														Dogs barking 38-63
														Boral inaudible
Talbragar Quarry LA _{eq} (15min) Contribution	<37													
Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining period														

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 4 Ending November 2024

4.1.1 Assessment Results - Location P5 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in **Table 6**.

Table 6 Operator-Attended Noise Survey Results – Location P5							
Date	Time (hrs)	Descriptor			Meteorology		Description and SPL, dBA
		(dBA re 20 µPa)			BoM 065070	Operator	
		LAmax	LAeq	LA90			
24/10/2024	10:50 (Day)	51	42	39	WD: SE	WD: NE	Aircraft 43-48
					WS: 4.1m/s	WS: 3.4m/s	Traffic 40-46
					Rain: Nil	Rain: Nil	Birds 39-51
							Insects 38-40
							Wind in vegetation 40-43
							Emergency vehicle 35-48
							Boral operations <35
							(5 minutes)
Talbragar Quarry LAeq(15min) Contribution							30
24/10/2024	18:40 (Evening)	58	41	36	WD: SW	WD: SW	Traffic 34-46
					WS: 5.1m/s	WS: 1.8m/s	Birds 32-58
					Rain: Nil	Rain: Nil	Dogs barking 36-52
							Boral inaudible
Talbragar Quarry LAeq(15min) Contribution							<26

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

4.1.2 Assessment Results - Location P6 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in **Table 7**.

Table 7 Operator-Attended Noise Survey Results – Location P6							
Date	Time (hrs)	Descriptor			Meteorology		Description and SPL, dBA
		(dBA re 20 µPa)			BoM 065070	Operator	
		L _{Amax}	L _{Aeq}	L _{A90}			
24/10/2024	10:28 (Day)	76	57	36	WD: S	WD: SE	Aircraft 38-46
					WS: 3.5m/s	WS: 3.2m/s	Traffic 37-76
					Rain: Nil	Rain: Nil	Birds 34-49
							Insects 32-35
							Wind in vegetation 33-42
							Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution							<26
24/10/2024	18:21 (Evening)	76	56	37	WD: SW	WD: SW	Traffic 33-76
					WS: 6.5m/s	WS: 0.8m/s	Birds 34-54
					Rain: Nil	Rain: Nil	Wind in vegetation 32-35
							Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution							<26

4.1.3 Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in **Table 8**.

Table 8 Operator-Attended Noise Survey Results – Location P12							
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		L _A max	L _A eq	L _A 90	BoM 065070	Operator	
24/10/2024	11:15 (Day)	69	52	41	WD: SE	WD: SE	Insects <38
					WS: 3.5m/s	WS: 3.5m/s	Wind in vegetation <40
					Rain: Nil	Rain: Nil	Traffic 39-49
							Aircraft 44-63
							Birds 38-70
							Boral inaudible
Talbragar Quarry L _A eq(15min) Contribution							<31
24/10/2024	18:02 (Evening)	64	50	45	WD: SW	WD: SW	Wind in vegetation 40-52
					WS: 7.0m/s	WS: 3.5m/s	Birds 44-64
					Rain: Nil	Rain: Nil	Traffic 42-59
							Dog bark 45-52
							Boral inaudible
Talbragar Quarry L _A eq(15min) Contribution							<35

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

4.1.4 Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in **Table 9**.

Table 9 Operator-Attended Noise Survey Results – Location P14							
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		L _A max	L _A eq	L _A 90	BoM 065070	Operator	
24/10/2024	13:04 (Day)	69	50	42	WD: S	WD: W	Traffic 37-69
					WS: 7.0m/s	WS: 0.4m/s	Birds 40-55
					Rain: Nil	Rain: Nil	Aircraft 40-51
							Boral processing 37-39
							(1 minute)
							Boral reverse alarm <37
Talbragar Quarry L _A eq(15min) Contribution							(25 seconds) <35
24/10/2024	18:59 (Evening)	66	45	39	WD: SW	WD: SW	Traffic 38-45
					WS: 4.6m/s	WS: 1.5m/s	Local residential noise 39-45
					Rain: Nil	Rain: Nil	Birds 39-66
							Insects 36-38
							Dogs barking 40-51
							Boral inaudible
Talbragar Quarry L _A eq(15min) Contribution							<29

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 1 Ending February 2025

4.1.1 Assessment Results - Location P4 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in **Table 6**.

Table 6 Operator-Attended Noise Survey Results - Location P4

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
23/01/2025	11:44 (Day)	67	56	50	WD: E	WD: E	Insects 48-61
					WS: 7.6m/s	WS: 4.0m/s	Birds 55-67
					Rain: Nil	Rain: Nil	Traffic 50-63
							Wind in vegetation 48-59
							Aircraft 52-62
							Boral processing audible
							during lulls <41
Talbragar Quarry LAeq(15min) Contribution							<41
23/01/2025	18:54 (Evening)	63	39	34	WD: ENE	WD: E	Birds 35-30
					WS: 2.4m/s	WS: 0.5 m/s	Traffic 33-50
					Rain: Nil	Rain: Nil	Dogs barking 34-62
							Aircraft 37-63
							Insects 32-38
							Quarry inaudible
Talbragar Quarry LAeq(15min) Contribution							<24

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

4.1.2 Assessment Results - Location P10 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in **Table 7**.

Table 7 Operator-Attended Noise Survey Results - Location P10

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA				
		LAmax	LAeq	LA90							
					BoM 065070	Operator					
23/01/2025	10:40 (Day)	67	55	53	WD: E	WD: E	Birds 53-63				
					WS: 8.9m/s	WS: 4.0m/s	Insects 51-58				
					Rain: Nil	Rain: Nil	Aircraft 54-67				
							Traffic 50-61				
							Wind in vegetaion 50-56				
							Quarry inaudible				
					Talbragar Quarry LAeq(15min) Contribution						<43
23/01/2025	18:35 (Evening)	57	36	30	WD: E	WD: E	Traffic 30-41				
					WS: 3.0m/s	WS: 0.5 m/s	Insects 27-34				
					Rain: Nil	Rain: Nil	Birds 32-57				
							Aircraft 34-38				
							Quarry inaudible				
					Talbragar Quarry LAeq(15min) Contribution						<20

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

4.1.3 Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in **Table 8**.

Table 8 Operator-Attended Noise Survey Results - Location P12							
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
23/01/2025	10:58 (Day)	70	61	59	WD: E	WD: E	Wind in vegetation <54
					WS: 9.3m/s	WS: 4.0m/s	Birds 57-66
					Rain: Nil	Rain: Nil	Traffic 59-70
							Other industrial noise <55
							Quarry Inaudible
Talbragar Quarry LAeq(15min) Contribution							<46
23/01/2025	18:19 (Evening)	79	49	33	WD: ESE	WD: E	Traffic <32
					WS: 1.9 m/s	WS: 0.5m/s	Insects 32-40
					Rain: Nil	Rain: Nil	Dogs barking <38
							Other industrial 37-46
							Birds 34-79
Talbragar Quarry LAeq(15min) Contribution							<36
							Aircraft 40-56
							Quarry inaudible

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining period

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

4.1.4 Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in **Table 9**.

Table 9 Operator-Attended Noise Survey Results - Location P14											
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA				
		LAmax	LAeq	LA90							
					BoM 065070	Operator					
23/01/2025	11:21 (Day)	73	57	53	WD: E	WD: E	Wind in vegetation 52-59				
					WS: 9.3m/s	WS: 4.0m/s	Dogs Barking 54-70				
					Rain: Nil	Rain: Nil	Traffic 54-73				
							Insects 51-61				
							Birds 50-65				
							Boral processing audible during lulls <41				
							Boral reverse alarm <45 (15 seconds)				
					Talbragar Quarry LAeq(15min) Contribution						<41
23/01/2025	18:00 (Evening)	62	50	49	WD: ENE	WD: E	Traffic 48-53				
					WS: 3.0m/s	WS: 0.5m/s	Dogs barking 52-55				
					Rain: Nil	Rain: Nil	Birds 50-62				
							Insects 47-57				
					Talbragar Quarry LAeq(15min) Contribution						<38

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 2 Ending May 2025

4.1.1 Assessment Results - Location P5 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in **Table 6**.

Table 6 Operator-Attended Noise Survey Results – Location P5

Date	Time (hrs)	Descriptor			Meteorology		Description and SPL, dBA
		(dBA re 20 µPa)			BoM 065070	Operator	
		L _{Amax}	L _{Aeq}	L _{A90}			
10/04/2025	11:03 (Day)	58	42	33	WD: NNW	WD: N	Aircraft 33-58
					WS: 4.6m/s	WS: 2.0m/s	Traffic 29-46
					Rain: Nil	Rain: Nil	Birds 28-55
							Wind in vegetation 28-31
							Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution							<30
10/04/2025	18:36 (Evening)	71	44	32	WD: ENE	WD: NE	Traffic 32-71
					WS: 3.6m/s	WS: 0.5m/s	Insects 29-35
					Rain: Nil	Rain: Nil	Dogs barking 33-37
							Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution							<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

4.1.2 Assessment Results - Location P6 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in **Table 7**.

Table 7 Operator-Attended Noise Survey Results – Location P6

Date	Time (hrs)	Descriptor			Meteorology		Description and SPL, dBA
		(dBA re 20 µPa)			BoM 065070	Operator	
		L _{Amax}	L _{Aeq}	L _{A90}			
10/04/2025	10:43 (Day)	76	55	30	WD: N	WD: NE	Aircraft 32-59
					WS: 4.1m/s	WS: 0.5m/s	Traffic 28-76
					Rain: Nil	Rain: Nil	Birds 24-67
							Insects 24-27
							Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution							<30
10/04/2025	18:55 (Evening)	76	49	38	WD: NE	WD: NE	Traffic 37-70
					WS: 2.4m/s	WS: 0.5m/s	Insects 35-39
					Rain: Nil	Rain: Nil	Boral inaudible
Talbragar Quarry L _{Aeq} (15min) Contribution							<30

4.1.3 Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in **Table 8**.

Table 8 Operator-Attended Noise Survey Results – Location P12							
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		L _A max	L _A eq	L _A 90	BoM 065070	Operator	
10/04/2025	10:23 (Day)	67	48	31	WD: NW	WD: NE	Insects <34
					WS: 3.5m/s	WS: 0.5m/s	Wind in vegetation <33
					Rain: Nil	Rain: Nil	Traffic 34-49
							Aircraft 37-67
							Birds 35-62
							Boral operations 40-42 (1 minute)
Talbragar Quarry L _A eq(15min) Contribution							<35
10/04/2025	18:00 (Evening)	60	42	35	WD: ENE	WD: E	Birds 34-60
					WS: 4.1m/s	WS: 0.5m/s	Traffic 33-45
					Rain: Nil	Rain: Nil	Insects 32-47
							Dogs barking 36-51
							Boral inaudible
Talbragar Quarry L _A eq(15min) Contribution							<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

4.1.4 Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in **Table 9**.

Table 9 Operator-Attended Noise Survey Results – Location P14							
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		L _A max	L _A eq	L _A 90	BoM 065070	Operator	
10/04/2025	10:04 (Day)	76	51	39	WD: N	WD: NE	Traffic 35-76
					WS: 4.6m/s	WS: 0.5m/s	Birds 37-58
					Rain: Nil	Rain: Nil	Dogs barking 38-55
							Insects 34-39
							Boral processing 37-41 (8 minutes)
Talbragar Quarry L _A eq(15min) Contribution							39
10/04/2025	18:18 (Evening)	69	49	40	WD: ENE	WD: NE	Traffic 38-69
					WS: 2.4m/s	WS: 0.5m/s	Insects 36-40
					Rain: Nil	Rain: Nil	Dogs barking 39-55
							Aircraft 42-58
							Boral inaudible
Talbragar Quarry L _A eq(15min) Contribution							<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Noise Monitoring Results - Quarter 3 Ending August 2025

4.1.1 Assessment Results - Location P4 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in **Table 6**.

Table 6 Operator-Attended Noise Survey Results - Location P4

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LA _{max}	LA _{eq}	LA ₉₀			
					BoM 065070	Operator	
07/08/2025	10:21 (Day)	61	43	35	WD: SSE	WD: SE	Birds 33-61
					WS: 5.1m/s	WS: 0.5m/s	Traffic 32-55
					Rain: Nil	Rain: Nil	Boral reverse alarm 35-38 (1 minute)
							Boral mobile plant 35-44 (6 minutes)
							Boral Impact 37-47
Talbragar Quarry LA _{eq} (15min) Contribution							40
07/08/2025	18:53 (Evening)	56	37	34	WD: ESE	WD: SE	Birds <37
					WS: 4.1m/s	WS: 0.6 m/s	Traffic <37
					Rain: Nil	Rain: Nil	Dogs barking 35-43
							Insects/ frogs 31-38
							Operator 54-56
Talbragar Quarry LA _{eq} (15min) Contribution							<24

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

4.1.2 Assessment Results - Location P10 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in **Table 7**.

Table 7 Operator-Attended Noise Survey Results - Location P10

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA					
		LAmax	LAeq	LA90								
					BoM 065070	Operator						
07/08/2025	10:40 (Day)	58	42	38	WD: SSE	WD: SE	Birds 36-53					
					WS: 5.1m/s	WS: 0.5m/s	Aircraft 38-58					
					Rain: Nil	Rain: Nil	Traffic 35-49					
							Other industrial 37-40					
							Wind in vegetation <35					
							Dogs barking 37-45					
							Quarry inaudible					
Talbragar Quarry LAeq(15min) Contribution							<28					
07/08/2025	18:17 (Evening)	52	42	38	WD: ESE	WD: SE	Traffic 35-48					
					WS: 3.5m/s	WS: 0.6 m/s	Birds 36-38					
					Rain: Nil	Rain: Nil	Wind in vegetation <35					
							Aircraft 38-52					
							Quarry inaudible					
					Talbragar Quarry LAeq(15min) Contribution							<28

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

4.1.3 Assessment Results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in **Table 8**.

Table 8 Operator-Attended Noise Survey Results - Location P12							
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
07/08/2025	10:58 (Day)	58	43	39	WD: SE	WD: SE	Wind in vegetation 34-38
					WS: 5.1m/s	WS: 0.5m/s	Birds 35-58
					Rain: Nil	Rain: Nil	Traffic 35-47
							Other industrial noise 35-43
							Dogs barking 37-43
							Quarry Inaudible
Talbragar Quarry LAeq(15min) Contribution							<29
07/08/2025	18:00 (Evening)	78	49	38	WD: ESE	WD: SE	Traffic 37-78
					WS: 4.6 m/s	WS: 0.7m/s	Insects <36
					Rain: Nil	Rain: Nil	Wind in vegetation 35-37
							Quarry inaudible
Talbragar Quarry LAeq(15min) Contribution							<28

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

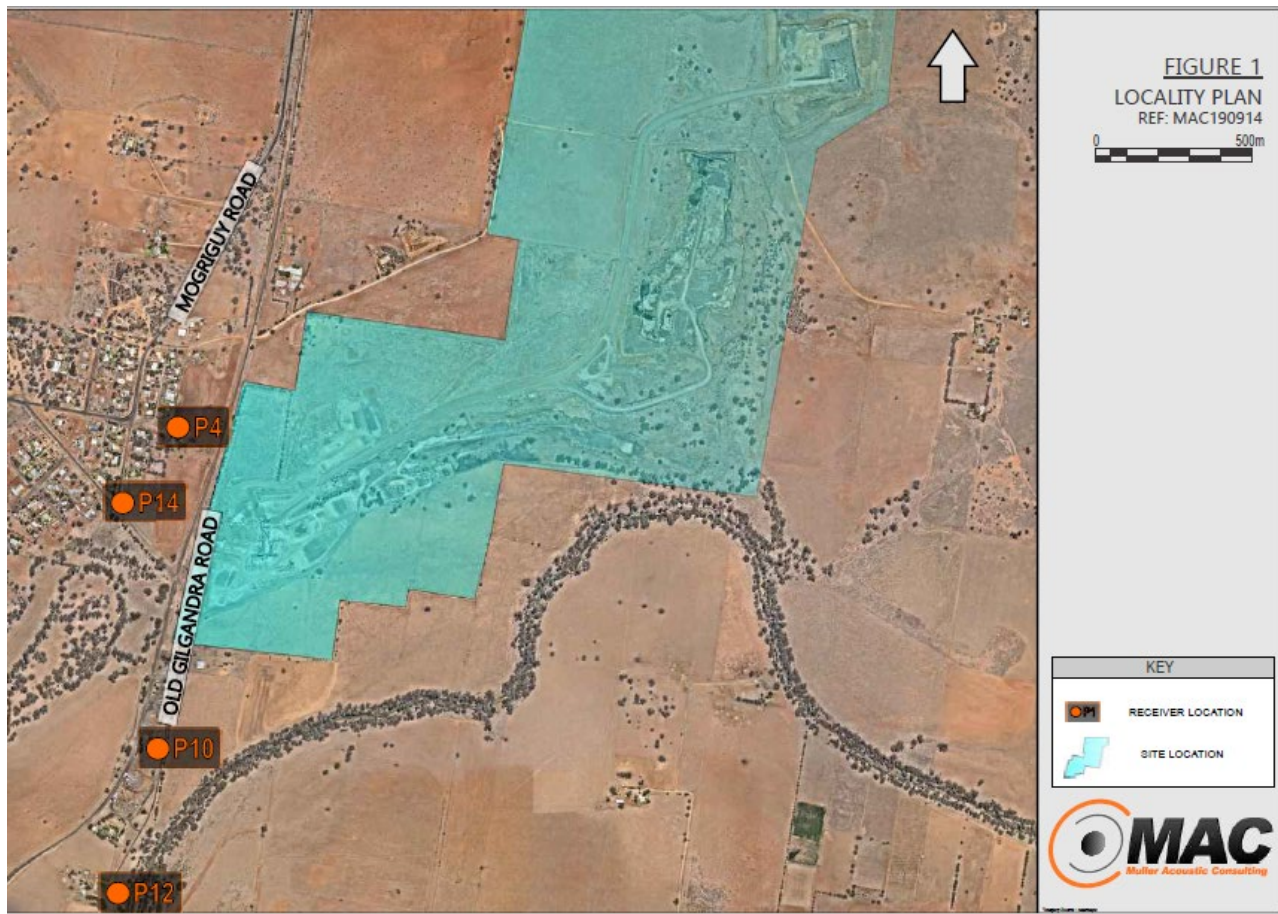
4.1.4 Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in **Table 9**.

Table 9 Operator-Attended Noise Survey Results - Location P14							
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology		Description and SPL, dBA
		LAmax	LAeq	LA90			
					BoM 065070	Operator	
07/08/2025	10:04 (Day)	66	49	37	WD: SSE	WD: SE	Dogs barking 36-60
					WS: 5.4m/s	WS: 0.5m/s	Traffic 35-66
					Rain: Nil	Rain: Nil	Birds 33-35
							Aircraft 38-57
							Boral impact <38
							Boral reverse alarm 37-41 (90 seconds)
							Boral mobile plant 36-43 (2 minutes)
					Talbragar Quarry LAeq(15min) Contribution		
07/08/2025	18:36 (Evening)	65	46	34	WD: ESE	WD: SE	Traffic 32-65
					WS: 4.1m/s	WS: 0.6m/s	Dogs barking 37-65
					Rain: Nil	Rain: Nil	Birds 35-43
							Insects 31-33
							Aircraft 38-62
							Quarry inaudible
					Talbragar Quarry LAeq(15min) Contribution		

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Talbragar Quarry Noise Monitoring Locations



Noise Monitoring Results - Corrections Log

Details of corrections made to published data due to incorrect or misleading data^{3.7.7}

Date of data (sample date)	Old published data	Correct updated data	Reason for Update/Correction	Update Person	Date corrected data published	Comments