

Environmental Monitoring Report – Noise Monitoring Data

Talbragar Quarry

March 2024

Date Published: 2nd April 2024

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.as px?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

| Lo | ocation | Day (7am to 6pm) | Evening (6p | m to 10pm) |
|----------|-------------------|------------------|----------------|----------------------|
| EPL Ref. | Receiver Location | dB LAcq(15min) | dB LAcq(15min) | dB LA _{max} |
| 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 Recruser 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.

| Date Time (hrs) | Time (bas) | Descript | or (dBA re | 20 μPa) | Materials | Description and COL HRA |
|---------------------|------------|-------------|------------|--------------|--------------------------|-------------------------|
| | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dB/ | |
| | | | | | WD: SW | Traffic 30-34 |
| | 14:54 | | | | WD: 5W WS: 1.5m/s | Birds 34-58 |
| 26/09/2019 (Day) | 62 | 41 | 33 | | Aircraft 32-53 | |
| | | | | | Rain: Nil | Dogs <32 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <35 |
| | 06:00 | | | | WD: SW | 51 . 50 51 |
| 27/09/2019 | (Morning | 67 | 45 | 40 | WS: 0.1m/s | |
| | Shoulder) | | | | Rain: Nil | Traffic 36-47 |
| | | ar Quarry I | Aca(15min) | Contribution | | <35 |

Note: Day - the period from 7am to 6pm Monday to Saturday or Sam 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.

| Data Time (has) | Descriptor (dBA re 20 µPa) | | | Matanasia | D 14 100 101 | |
|-----------------|----------------------------|-------|------|-----------|---------------|--------------------------|
| Date | ate Time (hrs) | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| 45.47 | | | | WD: W | Traffic 31-68 | |
| 26/09/2019 | 15:17 | 75 | 54 | 31 | WS: 1m/s | Wind <32 |
| | (Day) | | | | Rain: Nil | Dogs <32 |

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

| Date Time (hrs) | T (b) | Descript | or (dBA re | 20 μPa) | Matanasia | December and CDL alBA |
|---------------------|-----------|-------------|------------|--------------|--------------------------|-----------------------|
| | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dB/ | |
| | | | | | WD: W | Traffic 39-54 |
| | 14:07 | 63 | 4- | | | Birds 39-59 |
| 26/09/2019 (Day) | 63 | 45 | 38 | WS: 2m/s | Wind 39-58 | |
| | | | | | Rain: Nil | Livestock <37 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <35 |
| | 06:44 | | | | WD: SW | 5: 1 44 45 |
| | (Morning | 73 | 48 | 42 | WS: 0.1m/s | Birds 41-48 |
| | Shoulder) | | | | Rain: Nil | Traffic 38-46 |

Note: Day - the period Form 7am to Spin Wonday to Saturday or Sam to Spin on Sundays and public holidays; Evening - the period Form Spin 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.

| Date Time (hrs) | Torra (boss) | Descript | or (dBA re | 20 μPa) | Matazzalani | Description and CRI Labor |
|-----------------|--------------------------|-------------|------------|--------------|--------------------------|-----------------------------|
| | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA | |
| | | | | | | Birds 44-46 |
| 0510010040 | 14:33 5/09/2019 (Day) | | | 40 | WD: W | Traffic 44-73 |
| 26/09/2019 | | 76 | 52 | 42 | WS: 1.5m/s | Local residential noise <44 |
| | | | Rain: Nil | Dogs 41-44 | | |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <35 |
| | 06:19 | | | | WD: SW | Birds 42-55 |
| | | | 52 | | | Traffic 39-68 |
| 27/09/2019 | (Morning | 74 | | 43 | WS: 0.1m/s | Livestock 43-56 |
| | Shoulder) | Shoulder) | | | Rain: Nil | Dogs <43 |
| | Talbran | ar Quarry L | Aca(15min) | Contribution | 1 | <35 |

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.

| Date Ti | Time (hrs) | Descript | tor (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
|------------------|------------|-------------|-------------|--------------|-------------|------------------------------|
| Date | | LAmax | LAcq | LA90 | Meteorology | . Description and SrL, dbA |
| | | | | | | Dog Bark 38-48 |
| | | | | | | Wind 36-46 |
| 03/10/2019 (Day) | 15.15 | | | | WD: W | Traffic 38-54 |
| | | 68 | 49 | 40 | WS: 2.5m/s | Aircraft 4-68 |
| | (Day) | | | | Rain: Nil | Birds 42-53 |
| | | | | | | Local residential noise 43-6 |
| | | | | | | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | ı | <35 |
| | 06:45 | | | | WD: W | Traffic 42-52 |
| | - | | | | | Birds 42-61 |
| 04/10/2019 | (Morning | 62 | 49 | 43 | WS: 0.5m/s | Aircraft 48-62 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <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.

| Date Time (hrs) | T (b) | Descript | or (dBA re | 20 μPa) | Matanalani | Description and CDL alba |
|-----------------|-------|----------|------------|-------------|--------------------------|-----------------------------|
| | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA | |
| | | | | | | Wind 42-60 |
| 45.20 | 15:38 | | | | WD: WSW | Traffic 42-48 |
| 03/10/2019 | | 60 | 48 | 41 | WS: 2.5m/s | Local residential noise <42 |
| | (Day) | | | | Rain: Nil | Birds 42-50 |
| | | | | | | Boral inaudible |

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

| Date Time (hrs) | T (1) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and CRI HRA |
|---------------------------|-----------------|-------------|------------|-----------------------|-------------------------------|--------------------------|
| Date | Date Time (ris) | LAmax | LAcq | LA90 | Melebrology | Description and SPL, dBA |
| | | | | | | Wind 40-56 |
| 15:20 03/10/2019 (Day) | 59 | | | | Traffic 41-48 | |
| | | 49 | 46 | WD: WSW WS: 2.5m/s | Local residential noise 40-58 | |
| | 39 | 73 | 40 | Rain: Nil | Birds <44 | |
| | | | | | Nam. rei | Dog bark <44 |
| | | | | | | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <35 |
| | 06:06 | | | | WD: W | Birds 46-61 |
| 04/10/2019 | (Morning | 62 | 49 | 45 | WS: 0.5m/s | Traffic 48-58 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <35 |

Note: Day - the period from 7am to Spm Monday to Saturday or Sam to Spm on Sundays and public holidays; Evening - the period from Spm to 10pm; Night - the mmaining 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.

| Date Time (hrs) | Torra (born) | Descrip | tor (dBA re | 20 μPa) | Mataradani | D |
|------------------|--------------|-------------|-------------|--------------|--------------------------|-----------------------------|
| | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA | |
| | | | | | | Traffic 46-73 |
| 03/10/2019 (Day) | | | | WD: W | Birds 43-51 | |
| | | | | WS: 1.5m/s | Wind 42-45 | |
| | 73 | 53 | 44 | | Dog bark 46-50 | |
| | | | | | Rain: Nil | Aircraft 45-69 |
| | | | | | | Boral processing plant < 38 |
| | Talbrag | ar Quarry I | Acq(15min) | Contribution | | 38 |
| | 06:27 | | | | WD: W | Traffic 46-62 |
| 04/10/2019 | (Morning | 62 | 49 | 43 | WS: 0.5m/s | Birds 48-53 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |

Note: Day - the period from Tam to 6pm Monday to Saturday or Sam 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.

| Date Time (hrs) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA | |
|-----------------|----------|-------------|------------|--------------|---------------------------|-----------------|
| | LAmax | LAcq | LA90 | Meleorology | Description and ar E, dbA | |
| | | | | | | Birds 32-36 |
| 09:46 | | | | WD: E | Traffic 34-66 | |
| | | 45 | 35 | | Wind 34-38 | |
| 18/02/2020 | (Day) | 66 | 45 | 35 | WS: 1.5m/s Rain: Nil | Insects <32 |
| | | | | Rain: Nii | Aircraft 36-48 | |
| | | | | | | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | <35 |

Note: Day - the period from 7am to Epm Monday to Saturday or Sam to Epm on Sundays and public holidays, Evening - the period from Epm 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.

| Data | T (b) | Descript | or (dBA re | 20 μPa) | Matanalana | Description and ODL alBA |
|-----------------|-----------|------------|------------|----------------|--------------------------|------------------------------|
| Date Time (hrs) | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA | |
| | 06:45 | | | | WD: E | Traffic 36-67 |
| 18/02/2020 | (Morning | 67 | 47 | 32 | WS: 0.1m/s | Birds 32-45 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbra | gar Quarry | LAcq(15mir |) Contribution | ı | <35 |
| | • | | | | WD: ESE | Traffic 36-58 |
| 18/02/2020 | 09:25 | 72 | 52 | 33 | WS: 0.5m/s | Birds 36-44 |
| 10/02/2020 | (Day) | /2 | 32 | 33 | Rain: Nil | Local residential noise 36-7 |
| | | | | | Nam. Nii | Boral inaudible |
| | | | | | | |

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

| Date | Time (hrs) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------|------------|-------------|------------|--------------|-------------|------------------------------|
| Date | Time (nrs) | LAmax | LAcq | LA90 | Meteorology | |
| | • | • | | | | Traffic 38-72 |
| | 06:09 | | | | WD: E | Dog 35-40 |
| 18/02/2020 | (Morning | 72 | 43 | 34 | WS: 0.1m/s | Birds 34-40 |
| | Shoulder) | | | | Rain: Nil | Aircraft 39-55 |
| | | | | | | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | <35 |
| | | | | | WD: ESE | Local residential noise 36-4 |
| 18/02/2020 | 08:36 | 76 | 50 | 43 | WS: 0.1m/s | Boral processing 36-42 |
| 10/02/2020 | (Day) | 76 | 50 | 43 | | Birds 39-51 |
| | | | | | Rain: Nil | Traffic 36-76 |

Note: Day - the period from 7am to 6pm Monday to Saturday or Sam 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.

| Date | Time (hrs) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------|------------|-------------|------------|--------------|-----------------|-----------------------------|
| Date | Time (nrs) | LAmax | LAcq | LA90 | Meteorology | . Description and SFE, dbA |
| | | | | | | Traffic 39-80 |
| | 06:28 | | | | WD: E | Idling traffic 36-38 |
| 18/02/2020 | (Morning | 80 | 51 | 39 | WS: 0.1m/s | Rooster 37-44 |
| | Shoulder) | | | | Rain: Nil | Birds 36-42 |
| | | | | | Boral inaudible | |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | ı | <35 |
| | | | | | WD: ESE | Boral loading (3 secs) <61 |
| 18/02/2020 | 09:05 | 75 | 53 | 43 | WS: 0.1m/s | Boral processing plant 36-4 |
| 10/02/2020 | (Day) | | 43 | Rain: Nil | Traffic 36-74 | |
| | | | | Rain: Nii | Birds 36-44 | |
| | Talbrag | ar Quarry L | Aca(15min) | Contribution | 1 | 40 |

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.

| Date | Time (hrs) | Descript | tor (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------|------------|-------------------|-------------|-----------|----------------------|--------------------------|
| Date | Time (ris) | LAmax | LAcq | LA90 | incico dogy | |
| | 05.40 | | | | WD. 5 | Traffic 38-56 |
| | 06:40 | 74 54 41 WS: 1m/s | | WD: E | Birds 38-74 | |
| 19/05/2020 | (Morning | | | Dogs <40 | | |
| Shoulder) | | | | Rain: Nil | Boral processing ~38 | |
| | Talbra | ~38 | | | | |
| | | | | | | Birds 38-89 |
| | | | | | WD: E | Traffic 39-54 |
| 19/05/2020 | 07:00 | 89 | 56 | 42 | WS: 0.5m/s | Boral processing <40 |
| | (Day) | | | | Rain: Nil | Boral tipping 39-52 |
| | | | | | | (10 seconds) |

Note: Day - the period from 7am to 6pm Monday to Zoturday or Sam 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 Ope | rator-Attend | ed Noise | Survey R | esults – Lo | cation P10 | |
|-------------|--------------|------------|------------|----------------|-------------|---------------------------|
| Date | Time (hee) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dB |
| Date | Time (hrs) | LAmax | LAcq | LA90 | Meteorology | Description and or E, dox |
| | | | | WD: E | Birds 38-67 | |
| 19/05/2020 | 07:57 | 67 | 48 | 44 | WS: 0.5m/s | Traffic 36-52 |
| | (Day) | | | | Rain: Nil | Boral processing <36 |
| | Talbra | gar Quarry | LAcq(15mir |) Contribution | 1 | <36 |

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

| Date | Time (hear) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------|-------------|-------------------------|---------------|--------------------|-------------|--------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | Meleorology | |
| | 05.00 | | | | | Wind 35-39 |
| | 06:02 | ing 51 39 36 WS: 1.5m/s | Traffic 34-51 | | | |
| 19/05/2020 | (Morning | | | Industrial hum <35 | | |
| | Shoulder) | | | | Rain: Nil | Boral processing 34-36 |
| | Talbrag | 35 | | | | |
| | • | | | | | Aircraft 42-46 |
| | | | 54 | | WD: E | Birds 42-80 |
| 19/05/2020 | 07:39 | 80 | | 44 | WS: 0.5m/s | Traffic 38-52 |
| | (Day) | | | | Rain: Nil | Boral tipping 38-46 |
| | | | | | | (5 seconds) |
| | Talbran | ar Quarry I | Aca(15min) | Contribution | | <35 |

Note: Day - the period from 7am to 6pm Monday to Saturday or Sam 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.

| Date | Time (hrs) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------|------------|----------|------------|---------|-------------|----------------------------|
| Date | Time (nrs) | LAmax | LAcq | LA90 | Meleurology | |
| | 05.04 | | | | WD. F | Birds 38-56 |
| 0.05.0000 | 06:21 | | | | WD: E | Traffic 36-72 |
| 19/05/2020 | (Morning | 73 | 50 | 38 | WS: 0.5m/s | Rooster 38-44 |
| Shoulder) | Shoulder) | | | | Rain: Nil | Boral reverse alarms <36 |
| | Talbrag | <36 | | | | |
| | | | | | | Birds 38-54 |
| | | | | | WD: E | Traffic 36-66 |
| 19/05/2020 | 07:18 | 66 | 54 | 47 | WS: 0.5m/s | Boral processing 34-38 |
| | (Day) | | | | Rain: Nil | Boral reverse alarms 38-45 |
| | | | | | | (5 seconds) |

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.

| Date | Time (hrs) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------|-------------------|------------|------------|----------------|-----------------|--------------------------|
| | Time (nrs) | LAmax | LAcq | LA90 | Meteorology | |
| | | | | | WD: SW | Aircraft 33-60 |
| 10/10/2022 | 16:29 /10/2020 | 50 | 60 40 | 33 | WS: 0.4m/s | Birds 36-48 |
| (Day) | 60 | 40 | -0 33 | | Traffic 36-46 | |
| | | | | Rain: Nil | Boral Inaudible | |
| | Talbra | gar Quarry | LAcq(15min |) Contribution | 1 | <30 |
| | 06:44 | | | | WD: SE | Birds 32-62 |
| 20/10/2020 | (Morning | 62 | 42 | 32 | WS: 0.1m/s | Traffic 30-54 |
| | Shoulder) | | | | Rain: Nil | Boral Inaudible |

Note: Day - the period from Tam to 6pm Monday to Saturday or Sam 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.

| Date | T (b) | Descript | or (dBA re | 20 μPa) | Matazzalani | Description and SPL, dB/ |
|------------|------------|---------------|------------|---------------|-----------------|---------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | Meteorology | bescription and or E, db. |
| | • | | | | WD: SW | Insects <30 |
| 16:49 | | | | | Birds 30-44 | |
| 19/10/2020 | (Day) | 71 53 31) | WS: 0.1m/s | Traffic 30-71 | | |
| | | | | Rain: Nil | Boral Inaudible | |

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

| Date | Time (hrs) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------|------------|-------------|------------|--------------|-------------|---------------------------|
| Date Time | Time (nrs) | LAmax | LAcq | LA90 | | Description and at E, dbA |
| | | • | | | | Birds 36-66 |
| | 15:52 | | | | WD: SW | Insects 36-40 |
| 19/10/2020 | | 67 | 47 | 36 | WS: 0.3m/s | Traffic 38-48 |
| (Day) | (Day) | | | | Rain: Nil | Aircraft 36-65 |
| | | | | | | Boral Inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | ı | <30 |
| | 06:07 | | | | WD: SE | Birds 42-58 |
| 20/10/2020 | (Morning | 60 | 44 | 37 | WS: 0.1m/s | Traffic 40-52 |
| | Shoulder) | | | | Rain: Nil | Boral Inaudible |
| | Talbrag | ar Quarry L | Acq(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.

| Date | Tiese (bee) | Descript | or (dBA re | 20 μPa) | Meteorology | D |
|------------|-------------|-------------|------------|--------------|-------------|-------------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | Meleorology | Description and SPL, dBA |
| | | | | | | Local residential noise 41-46 |
| | 16:11 | | | | WD: SW | Boral processing 34-38 |
| 19/10/2020 | | 73 | 49 | 40 | WS: 0.1m/s | Birds 45-53 |
| (Day) | (Day) | | | | Rain: Nil | Traffic 38-73 |
| | | | | | Dog <44 | |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | ı | 35 |
| | 06:26 | | | | WD: SE | Birds 36-44 |
| | | | 40 | 20 | | Traffic 36-66 |
| 20/10/2020 | (Morning | 66 | 49 | 38 | WS: 0.1m/s | Rooster 36-49 |
| | Shoulder) | | | | Rain: Nil | Boral Inaudible |
| | Talbrao | ar Quarry L | Aca(15min) | Contribution | 1 | <30 |

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.

| Date Time (h | Time (hrs) | Descript | or (dBA re | 20 μPa) | Materialism | Danadadan and CDL JDA |
|--------------|------------|----------|------------|--------------|-------------|--------------------------|
| Date | time (hrs) | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| 07:00 | | | | | WP. N | Traffic 42-56 |
| | 07:00 | | | | WD: N | Birds 41-62 |
| 19/01/2021 | (Day) | 62 | 48 | 44 | WS: 0.1m/s | Quarry tipping 36-45 |
| (==)/ | | | Rain: Nil | (10 seconds) | | |

Note: Day - the period from 7am to 6pm Monday to Saturday or Sam 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.

| Date | T (b) | Descript | tor (dBA re | 20 µPa) | Matanalani | Description and SPL, dBA |
|------------|------------|--------------|-------------|--------------|-------------|----------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | Meteorology | Description and or E, dbA |
| | 09-03 | | | | WD: N | Traffic 38-48 |
| 19/01/2021 | 08:23 | 75 | 50 | 44 | WS: 0.1m/s | Birds 38-75 |
| | (Day) | | | | Rain: Nil | Quarry Screening Plant < 3 |
| | Talbrag | <38 | | | | |
| | • | | | | | Traffic 46-54 |
| | 06:04 | | | | WD: NE | Birds 48-72 |
| 19/01/2021 | (Morning | 72 | 53 | 46 | WS: 0.1m/s | Livestock 43-56 |
| | Shoulder) | | | | Rain: Nil | Train 48-62 |
| | | | | | | Quarry Inaudible |
| | Talbrac | gar Quarry L | Acq(15min) | Contribution | | <30 |

Note: Day - the period from Tam to Spm Monday to Saturday or Sam to Spm on Sundays and public holidays; Evening - the period from Spm to 10pm; Night - the remaining periods.

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

| Date | | Descript | tor (dBA re | 20 μPa) | Materialian | Description and SPL, dBA |
|------------|------------|-------------|-------------|--------------|-------------|------------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | Meteorology | |
| | | | | | | Traffic 42-50 |
| 19/01/2021 | | | 40 | | WD: N | Birds 42-49 |
| | 08:03 | | | 44 | | Dogs <44 |
| | (Day) | 68 | 48 | - | WS: 0.1m/s | Local residential noise 42-5 |
| | | | | | Rain: Nil | Aircraft 48-68 |
| | | | | | | Quarry Mobile Plant <42 |
| | Talbrag | ar Quarry I | Acq(15min) | Contribution | ı | <42 |
| | 06:22 | | | | WD: NE | Traffic 43-49 |
| 19/01/2021 | (Morning | 66 | 50 | 45 | WS: 0.1m/s | Birds 47-66 |
| | Shoulder) | | | | Rain: Nil | Quarry Inaudible |
| | Talbrao | ar Quarry L | Aca(15min) | Contribution | | <30 |

Talbragar Quarry LAcq(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

| Date | Time (hrs) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------|------------|-------------|------------|--------------|-------------|-----------------------------|
| Date | | LAmax | LAcq | LA90 | | |
| | | | | | | Insects 44-46 |
| 19/01/2021 | 08:41 | | 52 | 42 | WD: N | Traffic 44-76 |
| | | 76 | | | WS: 0.1m/s | Birds 46-52 |
| | (Day) | | | | Rain: Nil | Aircraft 44-50 |
| | | | | | | Quarry Screening Plant 36-4 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | ı | 40 |
| | | | | | | Birds 46-58 |
| | 06:43 | | | | WD: N | Traffic 46-71 |
| 9/01/2021 | (Morning | 71 | 50 | 44 | WS: 0.1m/s | Quarry Screening Plant <3 |
| | Shoulder) | | | | Rain: Nil | Quarry Mobile Plant 36-48 |
| | | | | | | (30 seconds) |

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**.

| Date Time (hrs) | Tiere (bee) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|-----------------|-------------|-------------|------------|--------------|-------------|--------------------------|
| | Time (ris) | LAmax | LAcq | LA90 | | |
| | | | | | | Boral Water Cart |
| | | | | | | (10 seconds) 39-41 |
| | 45.35 | | | | WD: SW | Boral Front End Loader |
| 12/04/2021 | 16:35 | 60 | 43 | 38 | WS: 0.4m/s | (30 seconds) 39-43 |
| | (Day) | | | | Rain: Nil | Birds 35-60 |
| | | | | | | Traffic 39-48 |
| | | | | | | Insects <39 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | 30 |

Note: Day - the period from 7am to 6pm Monday to Zoturday or Zom 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**.

| Date | Time (hrs) | Descrip | tor (dBA re | 20 μPa) | Matazzalani | Description and OBL ARA |
|------------|------------|--------------|-------------|--------------|-------------|-----------------------------|
| Date | | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Traffic 39-70 |
| 12/04/2021 | | | | | | Birds 39-44 |
| | 16:55 | | 70 51 | | WD: SW | Insects <39 |
| | | 70 | | 39 | WS: 0.3m/s | Agriculture 39-42 |
| | (Day) | | | | Rain: Nil | Local residential noise 38- |
| | | | | | | Aircraft 38-57 |
| | | | | | | Quarry Inaudible |
| | Talbrag | gar Quarry L | Acq(15min) | Contribution | | <30 |
| | 06:39 | | | | WD: SE | Traffic 40-73 |
| 13/04/2021 | | 73 | | 41 | WS: 0.1m/s | Birds 40-61 |
| 13/04/2021 | (Morning | 73 | 53 | 71 | | Local residential noise 40- |
| | Shoulder) | | | | Rain: Nil | 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 periods.

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

| Time (hea) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------|-------------|--|--|--|--|
| Time (nrs) | LAmax | LAcq | LA90 | | |
| • | | • | | WD: SW | Birds 38-49 |
| 15:59 | | 50 | 44 | | Traffic 38-44 |
| (Day) | 60 | 30 | 71 | | Aircraft 39-68 |
| | | | | Rain: Nii | Quarry Inaudible |
| Talbrag | ar Quarry L | Acq(15min) | Contribution | ı | <30 |
| 06:01 | | | 43 | WD- SE | Traffic 39-66 |
| | 70 | 40 | | | Birds 41-70 |
| | | | | | Dogs <44 |
| anouider) | | | | rvain. Wil | Quarry Inaudible |
| | (Day) | Time (hrs) LAmax 15:59 68 (Day) Talbragar Quarry L 06:01 (Moming 70 | Time (hrs) LAmax L | 15:59 68 50 41 Talbragar Quarry LAcq(15min) Contribution 06:01 (Morning 70 49 43 | Time (hrs) LAmax LAsq LA90 Meteorology |

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

| | Time (hrs) | Descript | tor (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------|------------|-------------|-------------|--------------|----------------------|--------------------------|
| Date | | LAmax | LAcq | LA90 | | |
| | | | | | | Birds 44-48 |
| 12/04/2021 | | | | 40 | WD: SW WS: 0.3m/s | Traffic 41-73 |
| | 16:16 | 73 | 50 | | | Boral Hammering |
| | (Day) | /3 | 50 | 40 | Rain: Nil | (5 seconds) 39-43 |
| | | | | | Nam. Na | Dogs 39-42 |
| | | | | | | Livestock 37-39 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | ı | <30 |
| | 06:19 | | | | WD: SE | Birds 39-70 |
| 13/04/2021 | (Morning | 70 | 52 | 46 | WS: 0.1m/s | Traffic 39-58 |
| | Shoulder) | | | | Rain: Nil | 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 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.

| Time (hea) | Descript | or (dBA re | 20 µPa) | Meteorology | Description and ODL ADA |
|------------|-------------------|---|---|---|--------------------------------|
| Time (nis) | LAmax | LAcq | LA90 | | Description and SPL, dBA |
| | | | | | Birds 45-66 |
| | | | | WD: SE | Local residential noise 45-54 |
| | 74 | 54 | 47 | WS: 0.1m/s | Traffic 45-74 |
| (Day) | | | | Rain: Nil | Boral Train Idle 37-39 |
| | | | | | Boral Tipping 43-52 (5 seconds |
| Talbraga | r Quarry L/ | Acq(15min) (| Contribution | | <37 |
| 06:05 | | | | WD: SE | Boral Train Idle 37-39 |
| (Morning | 61 | 45 | 41 | WS: 0.1m/s | Birds 39-61 |
| Shoulder) | | | | Rain: Nil | Traffic 39-46 |
| | 06:05 (Morning | 74 (Day) Talbragar Quarry LA 06:05 (Morning 61 | 74 54 Talbragar Quarry LAcq(15min) (06:05 (Morning 61 45 | 07:10 74 54 47 (Day) Talbragar Quarry LAcq(15min) Contribution 06:05 (Morning 61 45 41 | Time (hrs) |

Note: Day - the period from 7am to 6pm Monday to Saturday or Sam 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.

| Date Time (hrs) | | Descriptor (dBA re 20 µPa) | | | Matanadan | Danadadan and CDL ARA |
|-----------------|-------|----------------------------|------|-------------|--------------------------|---------------------------------------|
| | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA | |
| 06/07/2021 | • | • | | | MD. 05 | Traffic 56-85 |
| | 08:16 | | 65 | 56 | WD: SE WS: 0.1m/s | Industrial hum 56-63 |
| | (Day) | 85 | | | | Aircraft 55-64 |
| | | | | | Rain: Nil | n: Nil Boral Tipping (1 minute) 5: |

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

| Date | Time (hrs) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------|------------|----------|------------|---------|-------------|--------------------------|
| | (2) | LAmax | LAcq | LA90 | | |
| | 08:40 | | | | WD: SE | Traffic 48-65 |
| 06/07/2021 | | 65 | 48 | 42 | WS: 0.1m/s | Birds 48-54 |
| | (Day) | | | | Rain: Nil | Boral Inaudible |
| | Talbrag | <35 | | | | |
| | 06:43 | | | | WD: SE | Traffic 41-58 |
| 06/07/2021 | (Morning | 64 | 49 | 44 | WS: 0.1m/s | Birds 41-64 |
| | Shoulder) | | | | Rain: Nil | Boral Inaudible |
| | Talbrag | <35 | | | | |

Note: Day - the period Pom Tam to Spm Monday to Saturday or Sam to Spm on Sundays and public holidays, Evening - the period Pom Spm to Rpm to

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

| Date | Time (hrs) | Descript | or (dBA re | 20 µPa) | Meteorology | 0 10 100 104 |
|---------------------------|------------|-------------|--------------|--------------|-------------|--------------------------------|
| Date | | LAmax | LAcq | LA90 | | Description and SPL, dBA |
| 07:50 06/07/2021 (Day) | • | | • | 45 | WD: SE | Birds 45-61 |
| | 07:50 | 61 4 | 49 | | | Traffic 45-48 |
| | (Day) | 01 | 49 | 45 | WS: 0.1m/s | Dog bark 45-51 |
| | | | | | Rain: Nil | Boral Tipping (5 seconds) 45-5 |
| | Talbraga | r Quarry LA | Acq(15min) | Contribution | | 35 |
| | | | | | | Roosters 39-58 |
| | 06:23 | | | | WD: SE | Traffic 39-62 |
| 06/07/2021 | (Morning | 73 | 51 | 43 | WS: 0.1m/s | Birds 39-42 |
| | Shoulder) | | | | Rain: Nil | Operator vehicle 73 |
| | | | | | | Boral Train Idle <39 |
| | Talbraga | r Quarry L/ | Aca(15min) (| Contribution | | <37 |

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**.

| Date | Time (bus) | Descript | or (dBA re | 20 µPa) | Matagoriani | Description and CDL alBA |
|---------------------------|--------------------|----------|------------|-------------------------|---------------|--------------------------|
| Date Time (113) | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| 11:34 12/10/2021 (Day) | | | | | | Wind in trees 42-64 |
| | 74 | 71 54 | | WD: E | Birds 42-71 | |
| | 71 | | 47 | WS: 2.5m/s Rain: Nil | Traffic 42-58 | |
| | | | | | Rain: Nii | Boral Inaudible |
| | Talbrag | <35 | | | | |
| | | | | | | Wind in trees 34-44 |
| | 06:38 ¹ | | | | WD: SE | Traffic 34-42 |
| 12/10/2021 | (Morning | 72 | 47 | 38 | WS: 1.4m/s | Birds 34-48 |
| | Shoulder) | | | | Rain: Nil | Operator 45-72 |
| | | | | | | Boral 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 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 Ope | erator-Attende | ed Noise S | Survey Re | sults – Loc | ation P6 | |
|-----------------|----------------|--------------|-------------|--------------|--------------------------|--------------------------|
| Date Time (hrs) | Time (hus) | Descript | tor (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
| | LAmax | LAeq | LA90 | Meteorology | bescription and SFE, dbA | |
| 44-1 | 11:57 | | | - | WD: E | Traffic 52-68 |
| 12/10/2021 | | 78 | 63 | 56 | WS: 2.8m/s | Wind in trees 54-78 |
| (Day) | (Day) | | | Rain: Nil | Boral Inaudible | |
| | Talbrag | gar Quarry L | Aeq(15min) | Contribution | | <35 |

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

| Date Time (hrs.) | T (b) | Descript | or (dBA re | 20 μPa) | Matanadana | Description and SPL, dBA |
|------------------|-----------|-------------|------------|--------------|---------------------------|--------------------------|
| | LAmax | LAcq | LA90 | Meteorology | Description and or E, dox | |
| | | | | | | Traffic 48-63 |
| 10:21 | 40.04 | | | | WD: E | Birds 48-67 |
| 12/10/2021 | | 67 | 52 | 50 | WS: 0.8m/s | Wind in trees 48-63 |
| | (Day) | | | | Rain: Nil | Boral Loading 48-54 |
| | | | | | (2 minutes) | |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | 41 |
| | | | | | | Traffic 34-54 |
| | 06:00 | | | | WD: SE | Birds 34-60 |
| 12/10/2021 | (Morning | 60 | 45 | 37 | WS: 0.1m/s | Dog bark 44-49 |
| | Shoulder) | | | | Rain: Nil | Train hom 52-56 |
| | | | | | | Boral Inaudible |
| | | | | Contribution | | <30 |

Note: Day - the region from Zern in Som Monries in Settential or Sem in Som on Services and registry buildess: September - the region from Som in Other Monte, the registry of settings.

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

| Date | Date Time (hrs) | Descript | or (dBA re | 20 μPa) | Materialism | Description and SPL, dBA |
|------------|-----------------|-------------|------------|--------------|-------------------|--------------------------|
| Date | | LAmax | LAcq | LA90 | Meteorology | |
| | • | | | | WD: E | Birds 52-72 |
| 11: | 11:16 | 72 | 58 | 55 | WD: E WS: 2m/s | Wind in trees 52-65 |
| 12/10/2021 | (Day) | 12 | 30 | 33 | | Traffic 52-68 |
| | | | | | Rain: Nil | Boral processing <41 |
| | Talbrag | <41 | | | | |
| | | | | | | Traffic 43-68 |
| | 06:17 | | | | WD: SE | Birds 43-56 |
| 12/10/2021 | (Morning | 74 | 54 | 44 | WS: 0.6m/s | Train passby 43-74 |
| | Shoulder) | | | | Rain: Nil | Boral Impacts 40-44 |
| | | | | | | (4 minutes) |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | 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**.

| D-4- | Ti (b) | Descriptor (dBA re 20 μPa) | | | Matanalam | Description and CDL alDA |
|------------|------------|----------------------------|------|-----------|-----------------|--------------------------|
| Date | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | WD: 6 | Birds 39-54 |
| | 07:18 | | | | WD: S | Traffic 39-75 |
| 18/10/2022 | (Day) | 75 | 51 | 42 | WS: 0.4m/s | Insects 39-41 |
| (Bdy) | | | | Rain: Nil | Boral 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 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.

| Date | Time (hrs) | Descript | tor (dBA re | 20 μPa) | Matagralagi | Description and SPL, dB |
|------------|-----------------------|-------------|-------------|--------------|----------------------------|-------------------------|
| - | LAmax | LAeq | LA90 | Meteorology | - Description and SPE, GDA | |
| | | | | | | Birds 40-49 |
| 18/10/2022 | | | | WD: S | WD: S | Traffic 40-64 |
| | 07:37 | 72 | 52 | | | Insects <40 |
| | (Day) | 12 | 52 | 42 | | Aircraft 40-72 |
| | | | | | Rain: Nil | Boral reverse alarms <4 |
| | | | | | | (2 minutes) |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | | 33 |
| | 06:38 | | | | WD: S | Traffic 39-59 |
| 18/10/2022 | | 59 | 43 | 38 | | Insects 36-38 |
| 10/10/2022 | (Morning Shoulder) | 58 | 43 | 30 | WS: 0.3m/s Rain: Nil | Birds 42-56 |
| | Srioulder) | | | | Rain. Nii | Boral 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 periods.

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

| Date Time | Torra (born) | Descript | or (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------------------------|--------------|-------------|------------|--------------|-----------------|--------------------------|
| | Time (hrs) | LAmax | LAcq | LA90 | | |
| | | | | | WD: S | Council slashing 49-91 |
| 08:37 18/10/2022 (Day) | 08:37 | 91 | 71 | 43 | | Dogs 43-46 |
| | (Day) | 91 | | 43 | WS: 1.4m/s | Traffic 43-50 |
| | | | | Rain: Nil | Boral inaudible | |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | ı | <35 |
| | 06:19 | | | | WD: S | Insects <39 |
| 8/10/2022 | | 75 | | 42 | | Birds 39-75 |
| 10/10/2022 | (Morning | | 49 | 42 | WS: 0.4m/s | Traffic 39-56 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | ı | <30 |

Note: Day - the period from 7am to 5pm Monday to Saturday or 0am to 5pm on Sundays and public holidays; Elvening - the period from 5pm 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.

| Date | Time (hrs) | Descript | tor (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|------------|------------|-------------|-------------|--------------|-------------|---------------------------|
| Date | Time (nis) | LAmax | LAcq | LA90 | meteorology | Description and art, dos |
| | | | | | | Insects <37 |
| | 07.00 | 76 | 76 51 | 40 | WD: S | Traffic 40-76 |
| 18/10/2022 | 07:00 | | | | WS: 0.4m/s | Birds 37-46 |
| | (Day) | | | | Rain: Nil | Boral reverse alarms < 37 |
| | | | | | | (3 minutes) |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | 30 |
| | • | | | | | Insects 36-40 |
| | 06:00 | | | | WD: S | Birds 36-56 |
| | | | | | | Traffic 36-64 |
| 18/10/2022 | (Morning | 64 | 46 | 39 | WS: 0.6m/s | Rooster 36-49 |
| | Shoulder) | | | | Rain: Nil | Dogs 40-51 |
| | | | | | | Boral inaudible |
| | 7.11 | | | Contribution | | <30 |

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**.

| Date Time (hrs) | Time (bus) | Descriptor (dBA re 20 µPa) | | | Meteorology | Description and SPL, dBA |
|-----------------|------------|----------------------------|------|-------------|--------------------------|------------------------------|
| | LAmax | LAeq | LA90 | Meteorology | Description and SFL, dbA | |
| | | | | | | Traffic 41-51 |
| 07:10 | | | | WD: SE | Birds 44-65 | |
| 05/04/2022 | | 65 | 46 | 43 | WS: 0.1m/s | Livestock <41 |
| | (Day) | | | | Rain: Nil | Train 43-46 |
| | | | | | | Boral FEL barely perceptible |

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**.

| | | Descrip | tor (dBA re | 20 μPa) | | 5 |
|------------|-----------------|--------------|-------------|--------------|-------------|-------------------------------|
| Date | Date Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | WD: SE | Traffic 40-64 |
| 05/04/2022 | 07:31 | 98 68 | 68 | 43 | WS: 0.1m/s | Birds 40-54 |
| 05/04/2022 | (Day) | 90 | 60 | 43 | | Train 49-98 |
| | | | | | Rain: Nil | Boral inaudible |
| | Talbrag | gar Quarry I | Aeq(15min) | Contribution | | <33 |
| | 06:45 | | | | WD: SE | Birds 39-59 |
| 05/04/0000 | | 70 | | 40 | | Traffic 42-73 |
| 05/04/2022 | (Morning | 73 | 51 | 43 | WS: 0.3m/s | Local residential noise 39-54 |
| | Shoulder) | ·) | | | Rain: Nil | Boral inaudible |
| | Talbrag | gar Quarry I | _Aeq(15min) | Contribution | | <33 |

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

| Date Time (hrs | T (1) | Descript | tor (dBA re | 20 μPa) | Meteorology | Description and SPL, dBA |
|----------------|------------|-------------|-------------|--------------|-------------|--------------------------|
| | Time (nns) | LAmax | LAcq | LA90 | meteorology | |
| | | | | | WD: SE | Traffic 37-52 |
| | 08:10 | | | | | Birds 37-74 |
| 05/04/2022 | (Day) | 74 | 49 | 40 | WS: 0.1m/s | Industrial noise <42 |
| | | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | <35 |
| | | | | | | Birds 47-56 |
| | 06:28 | | | | WD: SE | Traffic 47-53 |
| 05/04/2022 | (Morning | 69 | 51 | 46 | WS: 0.1m/s | Aircraft 50-69 |
| | Shoulder) | | | | Rain: Nil | Dog bark <47 |
| | | | | | | Boral inaudible |
| | Tallacan | ar Quarrel | A (45 1-) | Contribution | | <36 |

Note: Day - the period from 7am to 5pm Monday to Saturday or 8am to 5pm on Sundays and public holidays; Evening - the period from 5pm 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.

| Data | Date Time (hrs) | Descript | or (dBA re | 20 μPa) | | B 12 100 100 |
|------------|-----------------|-------------|------------|--------------|-------------------------|--------------------------|
| Date | | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| 07:50 | | | | | WD: SE | Traffic 40-72 |
| 05/04/2022 | | 72 | 53 | 47 | WS: 0.1m/s | Birds 40-54 |
| | | | | | Rain: Nil | Boral processing 38-40 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | 39 |
| | 06:08 | | | | WD. 05 | Birds 45-64 |
| 05/04/0000 | | | | | WD: SE | Traffic 42-69 |
| 05/04/2022 | (Morning | 69 | 52 | 43 | WS: 0.1m/s Rain: Nil | Rooster 44-58 |
| | Snoulder) | Shoulder) | | | Rain: Nii | Boral inaudible |
| | Talbrao | ar Quarry L | Aca(15min) | Contribution | | <33 |

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**.

| Date Time (hrs) | Ti (b) | Descript | or (dBA re | 20 µPa) | Matanalam | Description and CDL alDA |
|-----------------|-----------|-------------|------------|--------------|--------------------------|--------------------------|
| | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA | |
| | 07:03 | | | | WD: NW | Traffic 41-58 |
| 07/06/2022 | | 69 | 50 | 44 | WS: 0.1m/s | Birds 41-69 |
| (Day) | | | | Rain: Nil | Boral inaudible | |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | ı | <34 |
| | 06:45 | | | | WD: NW | Birds 38-67 |
| 07/06/2022 | (Morning | 67 | 50 | 44 | WS: 0.1m/s | Traffic 48-54 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | ı | <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**.

| Date | Time (hrs) | Descriptor (dBA re 20 μPa) | | | Meteorology | Description and SPL, dBA |
|------------|------------|----------------------------|------|-----------|-----------------|--------------------------|
| Date | | LAmax | LAeq | LA90 | Meleorology | Description and SPL, dbA |
| | | | | | WD- NIW | Traffic 36-58 |
| | 08:00 | | | | WD: NW | Birds 38-63 |
| 07/06/2022 | (Day) | 72 | 55 | 44 | WS: 0.1m/s | Aircraft 36-72 |
| (==2/ | | | | Rain: Nil | Boral inaudible | |

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

| Date | Time (hrs) | Descriptor (dBA re 20 μPa) | | | Matazzelezzo | B 1.7 188 184 |
|------------------------------|------------|----------------------------|------------|--------------|---------------|--------------------------|
| Date | | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| 07:42 07/06/2022 (Day) | 07-40 | | | | WD: NW | Birds 36-72 |
| | 72 | 50 | 43 | WS: 0.1m/s | Traffic 36-58 | |
| | (Day) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | ı | <33 |
| | 06:27 | | | | WD: NW | Traffic 40-64 |
| | | | | | | Birds 38-48 |
| 07/06/2022 | (Moming | 74 | 4 54 4 | 42 | WS: 0.1m/s | Aircraft 36-74 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | <32 | | | | |

Note: Day - the period from 7am to 5pm Monday to Saturday or 6am to 5pm on Sundays and public holidays; Evening - the period from 5pm 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.

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

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**.

| Date Time | T: (1) | Descript | or (dBA re | 20 µPa) | Matanalana | Description and CDL ADA |
|------------|-----------------------|-------------|------------|--------------|-----------------|--------------------------|
| | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| 17:08 | | | | WD: SW | Birds 37-54 | |
| 2/09/2022 | /2022 | 54 | 43 | 40 | WS: 0.3m/s | Traffic 37-46 |
| | (Day) | | | Rain: Nil | Boral inaudible | |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | | <30 |
| | | | | | WD NE | Traffic 42-56 |
| | 06:43 | | | | WD: NE | Birds 43-70 |
| 13/09/2022 | (Morning Shoulder) | 70 | 47 | 42 | WS: 0.1m/s | Boral reverse alarms <43 |
| | | | | | Rain: Nil | Doral reverse alaims 443 |

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**.

| T: // \ | Descriptor (dBA re 20 µPa) | | | | |
|-----------------|----------------------------|----------|-----------------|----------------------------|--|
| Date Time (hrs) | LAmax | LAeq | LA90 | Weteorology | Description and SPL, dBA |
| | | WD. CW | WD. CW | Birds 34-51 | |
| 17:30 | | | | | Traffic 33-66 |
| (Day) | ьь | | Livestock 36-46 | | |
| | | | | Rain: Nil | Boral inaudible |
| | | 17:30 66 | 17:30 66 50 | Time (hrs) LAmax LAeq LA90 | Time (hrs) LAmax LAeq LA90 WD: SW 17:30 66 50 37 WS: 0.2m/s |

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

| Date | Time (hrs) | Descript | or (dBA re | 20 μPa) | Matanalani | Description and SPL, dBA |
|------------------------------|------------|-------------|------------|--------------|----------------|--------------------------|
| Date | | LAmax | LAcq | LA90 | Meteorology | |
| 16:45 12/09/2022 (Day) | | | | | W.S. 6W | Traffic 43-62 |
| | 16:45 | | | | WD: SW | Birds 46-58 |
| | 62 | 49 | 46 | WS: 0.3m/s | Aircraft 44-54 | |
| | | | | | Rain: Nil | Boral inaudible |
| | Talbrag | <36 | | | | |
| | | | | | | Birds 40-68 |
| | 06:21 | | | | WD: NE | Traffic 44-58 |
| 13/09/2022 | (Moming | 68 | 51 | 47 | WS: 0.1m/s | Aircraft 46-54 |
| 8 | Shoulder) | | | | Rain: Nil | Industrial noise <46 |
| | | | | | | Boral inaudible |
| | Talbrao | ar Quarry L | Aca(15min) | Contribution | 1 | <35 |

Note: Day - the period from Tam to Epm Monday to Saturday or Sam to Epm on Sundays and public holidays; Evening - the period from Epm 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.

| Description and SPL, dBA |
|--------------------------|
| |
| 4-79 |
| 46-54 |
| 12-56 |
| sing <41 |
| |
| 0-67 |
| Traffic 42-50 |
| 40-58 |
| udible |
| |

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**.

| Date | T | Descriptor (dBA re 20 µPa) | | | Matanalani | Description and CDL alDA |
|------------|----------------|----------------------------|------------|--------------|-------------|----------------------------|
| Date Time | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Traffic 38-54 |
| | | | | | | Birds 38-56 |
| | 42-40 | 65 | | | WD: W | Livestock 37-46 |
| 15/12/2022 | 12:10 (Day) | | 47 | 40 | WS: 1m/s | Local residential noise <3 |
| | (Day) | | | Rain: Nil | Rain: Nil | Aircraft 37-65 |
| | | | | | | Boral tipping 36-40 |
| | | | | | | (10 seconds) |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | ı | <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**.

| | | Descript | tor (dBA re | 20 µPa) | | |
|------------|----------------|-------------|-------------|--------------|--------------------------|--------------------------|
| Date | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Traffic 39-48 |
| 15/12/2022 | | | | | WD· W | Insects 39-44 |
| | 11:34 (Day) | 63 44 40 | 40 | WS: 1.8m/s | Wind in vegetation 40-44 | |
| | | 63 | 44 | 40 | Rain: Nil | Birds 40-50 |
| | | | | | | Construction noise 40-63 |
| | | | | | | Boral inaudible |
| | Talbrag | ar Quarry L | .Aeq(15min) | Contribution | | <30 |
| | 06:20 | | | | WD: S | Birds 39-59 |
| 16/12/2022 | (Moming | 78 | 55 | 42 | WS: 0.1m/s | Traffic 39-78 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar 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.

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

| Date | Time (hue) | Descript | or (dBA re | 20 μPa) | Matanalami | Description and SDL dBA |
|---------------------------|------------|-------------|------------|--------------|-------------|--------------------------|
| Date | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Birds 38-48 |
| | | | | | | Traffic 36-44 |
| 11:16 15/12/2022 (Day) | 44.40 | | 67 46 | 38 | WD: W | Wind in vegetation 36-40 |
| | | 67 | | | WS: 1.2m/s | Insects 36-55 |
| | (Day) | | | | Rain: Nil | Dog bark 40-52 |
| | | | | | | Aircraft 46-67 |
| | | | | | | Boral inaudible |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | | <28 |
| | 06:27 | | | | WD: S | Birds 40-68 |
| | 06:37 | | 47 | 42 | | Traffic 39-48 |
| 6/12/2022 | (Morning | 68 | 47 | 42 | WS: 0.1m/s | Dog bark 39-44 |
| | Shoulder) | | | | Rain: Nil | Boral 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 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 Ope | rator-Attend | ed Noise | Survey R | Results – Lo | ocation P14 | |
|-------------|--------------|-------------|-------------|--------------|--------------------------|----------------------------|
| Date | Time (hrs) | Descript | tor (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
| Date | () | | LA90 | Meteorology | Description and SPL, dbA | |
| | | | | | | Traffic 39-71 |
| | | | WB.W | Insects <39 | | |
| 45/40/0000 | 11:53 | 74 | | | WD: W | Birds 39-52 |
| 15/12/2022 | (Day) | 71 | 52 | | WS: 1m/s | Wind in vegetation 39-46 |
| | | | | | Rain: Nil | Boral processing 38-40 |
| | | | | | (5 minutes) | |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | | 35 |
| | | | | | | Birds 44-58 |
| | 06:01 | | | | WD: S | Traffic 42-77 |
| 16/12/2022 | | 77 | 55 | 45 | WS: 0.1m/s | Dog bark 48-60 |
| 16/12/2022 | (Morning | 11 | 55 | 40 | | Boral reverse alarms 44-48 |
| | Shoulder) | | | | Rain: Nil | (2 minutes) |
| | | | | | | Boral processing 34-40 |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | | 37 |

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.

| | | De | escriptor | r | | | |
|---|---------------------------------|------|-----------|-----|------------|------------|------------------------------|
| Date | Time (hrs) | (dBA | λ re 20 μ | Pa) | Meteo | rology | Description and SPL, dBA |
| | LAmax LAeq LA90 — BoM 065070 Op | | Operator | | | | |
| | | | | | | | Wind in vegetation 37-61 |
| | 12:20 | | | | WD: E | WD: NE | Insects <37 |
| 23/02/2023 | (Day) | 61 | 47 | 41 | WS: 7.5m/s | WS: 2.6m/s | Birds 38-44 |
| | (Day) | | | | Rain: Nil | Rain: Nil | Boral haul trucks 35-46 |
| | | | | | | | (3 minutes) |
| Talbragar Quarry LAeq(15min) Contribution | | | | | | | 35 |
| | | | | | | | Dog bark 59-66 |
| | | | | | | | Insects <30 |
| | 06:41 | | | | WD: SE | WD- N | Traffic 32-39 |
| 24/02/2023 | | 66 | 46 | 34 | WS: 4.6m/s | WS: 0.2m/s | Other industrial noise 30-34 |
| 24/02/2023 | (Morning Shoulder) | 00 | 40 | 34 | Rain: Nil | Rain: Nil | Aircraft 30-52 |
| | Shoulder) | | | | raiii. Nii | raiii. Nii | Birds 36-54 |
| | | | | | | | Boral haul trucks <37 |
| | | | | | | | (1 minute) |
| | Talbra | <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.

| | | | Descripto | r | | | |
|-----------------------|-------|-----------------|-----------|-------------|--------------|--------------------------|--------------------------|
| Time Date (hrs) | | (dBA re 20 μPa) | | Meteor - | rology | Description and SPL, dBA | |
| | (/ | LAmax | LAeq | LA90 | BoM 065070 | Operator | |
| | | | | | | | Wind in vegetation 39-54 |
| | 10:44 | 244 | | | WD: ENE | WD: NE | Birds <39 |
| 23/02/2023 | 12:41 | 71 | 54 | 48 | WS: 6.5m/s | WS: 2.3m/s | Traffic 42-71 |
| | (Day) | ay) | | | Rain: Nil | Rain: Nil | Aircraft 40-67 |
| | | | | | | | Boral inaudible |
| | Та | lbragar Qu | uarry LAe | eq(15min) C | Contribution | | <36 |

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

| | | De | escriptor | - | | | |
|------------|------------|------------|-----------|-----------|------------|------------|-----------------------------|
| Date | T (1) | (dBA | re 20 µ | Pa) | Meteo | rology | Description and SPL, dBA |
| Date | Time (hrs) | LAmax | LAeq | LA90 | BoM 065070 | Operator | |
| | | | | | | | Wind in vegetation 46-61 |
| | 44-20 | | | | WD: E | WD: NE | Insects <46 |
| 23/02/2023 | 11:32 | 61 | 51 | 49 | WS: 8.1m/s | WS: 2.2m/s | Birds <46 |
| | (Day) | | | | Rain: Nil | Rain: Nil | Traffic 46-52 |
| | | | | | | | Boral inaudible |
| | Talbra | gar Quarry | / LAeq(1 | 5min) Coi | ntribution | | <39 |
| | | | | | | | Other industrial noise 38-4 |
| | | | | | | | Insects 38-41 |
| | 06:20 | | | | WD: SE | WD: N | Birds 51-57 |
| 24/02/2023 | (Morning | 67 | 48 | 39 | WS: 3.5m/s | WS: 0.1m/s | Traffic <44 |
| | Shoulder) | | | | Rain: Nil | Rain: Nil | Aircraft 41-67 |
| | | | | | | | Dog bark 42-49 |
| | | | | | | | Boral 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 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 Ope | rator-Attend | ed Noise | Surve | y Resul | ts – Location f | P14 | |
|-------------|--------------------------------|------------|------------------------|-----------|------------------------------------|----------------------------------|---|
| 5. | T 4) | | escriptor \ re 20 µ | | Meteo | rology | D : (: 100) IDA |
| Date | Time (hrs) | LAmax | LAeq | LA90 | BoM 065070 | Operator | Description and SPL, dBA |
| 23/02/2023 | 12:00 (Day) | 73 | 54 | 48 | WD: ESE WS: 8.1m/s Rain: Nil | WD: NE WS: 2m/s Rain: Nil | Wind in vegetation 45-54 Traffic 45-73 Insects 45-49 Birds 46-52 Boral processing 43-50 (5 minutes) |
| | Talbra | gar Quarry | / LAeq(1 | 5min) Coi | ntribution | | 40 |
| 24/02/2023 | 06:00 (Morning Shoulder) | 66 | 46 | 41 | WD: SE WS: 4.6m/s Rain: Nil | WD: N WS: 0.1m/s Rain: Nil | Traffic 39-66 Insects 39-42 Birds 46-51 Other industrial noise 40-50 Rooster 40-46 Boral inaudible |
| | Talbra | gar Quarry | / LAeq(15 | 5min) Coi | ntribution | | <31 |

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 Ope | erator-Attend | ed Noise | Surve | y Resul | ts – Location F | P4 | |
|-------------|---------------|------------|-----------|-----------|-----------------|------------|-------------------------------|
| | | De | escriptor | | | | |
| Date | Time (hrs) | (dBA | re 20 μ | Pa) | Meteo | rology | Description and SPL, dBA |
| Date | Time (tills) | LAmax | LAea | LA90 | | | - Description and of E, ab. |
| | | L) (IIIdx | D teq | L) (30 | BoM 065070 | Operator | |
| | | | | | | | Birds 43-53 |
| | | | | | | | Dog bark 43-52 |
| | 12:28 | | | | WD: NNW | WD: N | Traffic 44-66 |
| 07/06/2023 | | 66 | 47 | 42 | WS: 7.6m/s | WS: 2.0m/s | Livestock 41-46 |
| | (Day) | | | | Rain: Nil | Rain: Nil | Local residential noise 45-48 |
| | | | | | | | Boral processing 39-43 |
| | | | | | | | (10 seconds) |
| | Talbra | gar Quarry | / LAeq(15 | 5min) Coi | ntribution | | 22 |
| | | | | | | | Traffic 33-53 |
| | 06:07 | | | | WD: E | WD: NE | Birds 33-39 |
| 08/06/2023 | (Morning | 53 | 37 | 30 | WS: 2.4m/s | WS: 0.5m/s | Livestock <35 |
| | Shoulder) | | | | Rain: Nil | Rain: Nil | Insects 35-42 |
| | | | | | | | Boral inaudible |
| | Talbra | gar Quarry | / LAeq(15 | 5min) Coi | ntribution | | <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 Ope | rator-Att | ended N | oise Su | rvey Res | ults – Location | P10 | |
|-------------|-----------|-----------|-----------|-------------|-----------------|------------|----------------------------|
| | | [| Descripto | or | | | |
| Date | Time | (dB | A re 20 μ | ıPa) | Meteor. | rology | Description and SPL, dBA |
| 2410 | (hrs) | LAmax | LAeg | LA90 | | | - |
| | | | | | BoM 065070 | Operator | |
| | | | | | | | Traffic 40-48 |
| | | | | | | | Birds 46-54 |
| | 12:50 | | | | WD: NNW | WD: N | Aircraft 40-65 |
| 07/06/2023 | (Day) | 65 | 47 | 39 | WS: 5.1m/s | WS: 1.2m/s | Boral processing 38-42 |
| | (Day) | | | | Rain: Nil | Rain: Nil | (constant) |
| | | | | | | | Boral reverse alarms 37-42 |
| | | | | | | | (5 minutes) |
| | Та | lbragar Q | uarry LA | eq(15min) C | Contribution | | 40 |

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 Ope | rator-Attend | ed Noise | Surve | y Resul | ts – Location f | P12 | |
|-------------|--------------------------------|-----------|-------------------------------|-----------|------------------------------------|-----------------------------------|---|
| Date | Time (hrs) | | escripto λ re 20 μ LAeq | | Meteo | rology | Description and SPL, dBA |
| 07/06/2023 | 12:53 (Day) | 68 | 50 | 44 | WD: NNW WS: 5.1m/s Rain: Nil | WD: N WS: 2.0m/s Rain: Nil | Wind in trees 49-52 Traffic 44-47 Aircraft 48-68 Birds 42-54 Boral processing 41-46 (5 minutes) |
| | Talbra | gar Quarn | / LAeq(1 | 5min) Coi | ntribution | | 38 |
| 08/06/2023 | 06:28 (Morning Shoulder) | 75 | 49 | 37 | WD: ENE WS: 1.9m/s Rain: Nil | WD: NE WS: 0.5m/s Rain: Nil | Traffic 40-75 Birds 39-53 Dog bark 35-38 Boral inaudible |
| | Talbra | gar Quarn | / LAeq(1 | 5min) Coi | ntribution | | <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 Ope | rator-Attend | ed Noise | Surve | y Resul | ts – Location F | P14 | |
|-------------|-------------------|------------|---------------------|-----------|-----------------------|---------------------|---------------------------------------|
| Data | Date Time (hrs) | | escripto re 20 µ | | Meteo | rology | Description and SPL, dBA |
| Date | Time (tils) | LAmax | LAeq | LA90 | BoM 065070 | Operator | |
| | | | | | | | Wind in trees 43-52 Traffic 43-75 |
| 07/06/2023 | 12:12 | 75 | 53 | 44 | WD: NNW WS: 8.9m/s | WD: N WS: 2.0m/s | Birds 44-56 Boral truck movements <41 |
| | (Day) | | | | Rain: Nil | Rain: Nil | Boral reverse alarms <41 |
| | | | | | | | Boral tipping 47-56 (3 seconds) |
| | Talbra | gar Quarry | / LAeq(1 | 5min) Coi | ntribution | | <41 |
| 08/06/2023 | 06:00 (Morning | 72 | 46 | 30 | WD: ENE WS: 2.9m/s | WD: W WS: 0.2m/s | Traffic 42-72 Livestock 30-32 |
| 00/00/2023 | Shoulder) | 12 | 70 | 30 | Rain: Nil | Rain: Nil | Rooster 28-36 Boral inaudible |
| | Talbra | gar Quarry | / LAeq(1 | 5min) Coi | ntribution | | <20 |

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.

| | | De | escripto | r | | | |
|------------|------------|------------|-----------|-----------|------------|------------|----------------------------|
| Date | Time (hrs) | (dBA | l re 20 μ | Pa) | Meteo | rology | Description and SPL, dBA |
| Date | Time (ma) | LAmax | LAeq | LA90 | | | bescription and of 2, db/(|
| | | | | | BoM 065070 | Operator | |
| | | | | | | | Wind in vegetation 42-48 |
| | | | | | | | Aircraft 43-61 |
| | | | | | | | Traffic 40-50 |
| | | | | | WD: S | WD: SW | Birds 41-51 |
| 21/09/2023 | 11:16 | 61 | 46 | 41 | WS: 4.6m/s | WS: 4.5m/s | Boral haul trucks 38-43 |
| | (Day) | | | | Rain: Nil | Rain: Nil | (3 minutes) |
| | | | | | | | Impact (2 seconds) 50 |
| | | | | | | | Reverse alarm 43 |
| | | | | | | | (20 seconds) |
| | Talbra | gar Quarry | / LAeq(1 | ōmin) Coi | ntribution | | 35 |
| | | | | | | | Traffic 31-46 |
| | 00.40 | | | | WD: SSE | WD: SE | Birds 33-59 |
| 00/00/0000 | 06:42 | | 40 | | | | Boral trucks 36-49 |
| 22/09/2023 | (Morning | 59 | 43 | 35 | WS: 4.6m/s | WS: 0.5m/s | (2 minutes) |
| | Shoulder) | | | | Rain: Nil | Rain: Nil | Reverse alarm 37 |
| | | | | | | | (15 seconds) |
| | Talbra | gar Quarry | / LAeg(1 | 5min) Cor | ntribution | | 34 |

Note: Day - the period from 7am to 5pm Monday to Saturday or 8am to 5pm 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.

| Date | Time | | Descripto A re 20 μ | | Meteor | ology | Description and SPL, dBA |
|------------|-------|------------|------------------------|-------------|-------------|------------|--------------------------|
| Date | (hrs) | LAmax | LAeq | LA90 | BoM 065070 | Operator | |
| | | | | | | | Wind in vegetation 32-38 |
| | | | | | WD: S | WD: SW | Birds 36-71 |
| 21/09/2023 | 10:52 | 83 | 58 | 38 | WS: 5.9m/s | WS: 4.0m/s | Traffic 40-83 |
| | (Day) | | | | Rain: Nil | Rain: Nil | Aircraft 33-60 |
| | | | | | | | Boral inaudible |
| | Ta | lbragar Qı | uarry LAe | eq(15min) C | ontribution | | <28 |

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

| | | De | escriptor | | | | |
|------------|-------------|-----------------|-----------|-----------|------------|------------|-----------------------------|
| Date | Time (hrs) | (dBA re 20 µPa) | | | Meteo | rology | Description and SPL, dBA |
| Date | Time (III3) | LAmax | LAeq | LA90 | | | |
| | | | | | BoM 065070 | Operator | |
| | | | | | | | Wind in vegetation 38-40 |
| | | | | | | | Birds 40-51 |
| | 11:56 | | | | WD: SSW | WD: SW | Traffic 38-57 |
| 21/09/2023 | | 57 | 43 | 39 | WS: 5.9m/s | WS: 3.5m/s | Boral haul trucks 39-45 |
| | (Day) | | | | Rain: Nil | Rain: Nil | (8 minutes) |
| | | | | | | | Reverse alarm 43 |
| | | | | | | | (15 seconds) |
| | Talbra | gar Quarry | LAeq(15 | imin) Cor | ntribution | | 40 |
| | | | | | | | Other industrial noise 43-4 |
| | 06:00 | | | | WD: SSE | WD: SE | Birds 35-64 |
| 22/09/2023 | (Morning | 64 | 45 | 38 | WS: 5.1m/s | WS: 0.3m/s | Traffic 36-57 |
| | Shoulder) | | | | Rain: Nil | Rain: Nil | Dog bark <38 |
| | | | | | | | Boral 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 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.

| Date Time (hrs | Time (hrs) | | escripto λ re 20 μ | | Meteo | rology | Description and SPL, dBA |
|----------------|------------|------------|-----------------------|-----------|--------------|-------------|--------------------------|
| Date | Time (ms) | LAmax | LAeq | LA90 | BoM 065070 | Operator | |
| | | | | | | | Traffic 41-59 |
| | | | | | | | Dogs barking 46-48 |
| | | | | | | | Birds 42-54 |
| | 16:40 | | | | WD: SSW | WD: SE | Boral processing 38-41 |
| 21/09/2023 | (Day) | 68 | 48 | 43 | WS: 4.6m/s | WS: 3.5m/s | (1 minute) |
| | (Day) | | | | Rain: Nil | Rain: Nil | Reverse alarm 40-50 |
| | | | | | | | (30 seconds) |
| | | | | | | | Boral tipper 68 |
| | | | | | | | (1 seconds) |
| | Talbra | gar Quarry | / LAeq(1 | 5min) Coi | ntribution | | 39 |
| | 06:22 | | | | WD: SSE | WD: SE | Traffic 42-74 |
| 22/09/2023 | (Morning | 74 | 54 | 41 | WS: 5.1m/s | WS: 0.5m/s | Birds 41-62 |
| 22/03/2023 | Shoulder) | 74 | 94 | 71 | Rain: Nil | Rain: Nil | Aircraft 45-65 |
| | Shoulder) | | | | rvairi. IVII | rvain. IVII | Boral inaudible |
| | Talbra | gar Quarry | / LAeq(1 | 5min) Coi | ntribution | - | <31 |

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.

| | | D | escriptor | - | | | |
|-----------------|------------|-----------------|-------------|------------|------------|-------------|---------------------------|
| Date Time (hrs) | | (dBA re 20 µPa) | | | Meteo | rology | |
| | Time (hrs) | | | | • | | Description and SPL, dBA |
| | | LAmax | LAeq LA90 - | BoM 065070 | Operator | | |
| | | | | | | | Wind in vegetation 39-48 |
| | | | | | | | Traffic 40-50 |
| | 17-10 | | | | WD: E | WD: E | Birds 40-58 |
| 08/02/2024 | 17:43 | 65 | 46 | 39 | WS: 7.0m/s | WS: 2.5m/s | Aircraft 42-65 |
| | (Day) | | | | Rain: Nil | Rain: Nil | Livestock 42-54 |
| | | | | | | | Boral processing 40-42 |
| | | | | | | | (4 minutes) |
| | Talbra | gar Quarry | / LAeq(15 | Smin) Cor | ntribution | | 38 |
| | | | | | | | Insects 37-41 |
| | | | | | | | Birds 42-52 |
| | 06:37 | | | | WD: ESE | WD: SE | Traffic 40-51 |
| 09/02/2024 | (Morning | 67 | 47 | 41 | WS: 4.6m/s | WS: 0.5 m/s | Dogs barking 45-67 |
| | Shoulder) | | | | Rain: Nil | Rain: Nil | Aircraft 43-63 |
| | | | | | | | Boral general noise 36-40 |
| | | | | | | | (5 minutes) |

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.

| | | [| Descripto | r | | | |
|--------------|-------|-----------|-----------|-------------|--------------|------------|---------------------------|
| Time Date | | (dB | A re 20 μ | ıPa) | Meteor | rology | Description and SPL, dBA |
| Date | (hrs) | LAmax | LAeg | LA90 | | | Description and Gr E, dar |
| | | Er times | 2 124 | L 150 | BoM 065070 | Operator | |
| | | | | | | | Traffic 43-60 |
| | | | | | | | Wind in vegetation 42-45 |
| | | | | | | | Birds 44-52 |
| | 11:54 | | | | WD: E | WD: E | Offsite impact 45-48 |
| 08/02/2024 | | 60 | 45 | 42 | WS: 6.5m/s | WS: 1.8m/s | Dogs barking 40-42 |
| | (Day) | | | | Rain: Nil | Rain: Nil | Boral reverse alarm 44-47 |
| | | | | | | | (<30 seconds) |
| | | | | | | | Boral processing 38-47 |
| | | | | | | | (13 minutes) |
| | Ta | lbragar Q | uarry LA | eq(15min) C | Contribution | | 42 |

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

| | | De | escriptor | | | | |
|---|--------------------------------|-----------------|-----------|------|-------------------------------------|----------------------------------|----------------------------|
| Date | Time (hrs) | (dBA re 20 µPa) | | | Meteorology | | Description and SPL, dBA |
| | | LAmax | LAeq | LA90 | | | Description and Gr.E, dis- |
| | | | | | 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 |
| | | | | | | | Birds 42-60 |
| 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 | Industrial noise 39-42 |
| | | | | | | | Traffic 38-40 |
| | | | | | | | Dogs barking 38-39 |
| | | | | | | | Insects 36-38 |
| | | | | | | | Boral general noise <35 |
| | <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**.

| Date | Time (hrs) | Descriptor (dBA re 20 µPa) | | | Meteorology | | Description and SPL, dB/ |
|------------|--------------------------------|-------------------------------|-----------|-----------|------------------------------------|-----------------------------------|---|
| | | LAmax | LAeq | LA90 | 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) |
| | Talbra | gar Quarry | / LAeq(15 | 5min) Cor | ntribution | | 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 |
| | Tallass | gar Quarry | . I. A | 0 | | | <28 |

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 | | | |
| | | | | | | | | | |
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