

Environmental Monitoring Report – Noise Monitoring Data

Talbragar Quarry

August 2024

Date Published: 5th September 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.

| L | ocation | Day (7am to 6pm) | Evening (6p | om to 10pm) |
|----------|-------------------|------------------|----------------|-------------|
| EPL Ref. | Receiver Location | dB LAcq(15min) | dB LAcq(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 |

Noise Criteria

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.

| Date Time (hrs) | Descript | or (dBA re | 20 µPa) | | Description and CBL dBA | |
|-----------------|-----------------|-------------|------------|---------------|-------------------------|--------------------------|
| Date | Date Time (hrs) | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| | | | WD: SW | Traffic 30-34 | | |
| 26/09/2019 | 14:54 | | | Birds 34-58 | | |
| (Day) | 62 | 62 41 | 33 | WS: 1.5m/s | Aircraft 32-53 | |
| | | | | | Rain: Nil | Dogs <32 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <35 |
| | 06:00 | | | | WD: SW | |
| 27/09/2019 | (Moming | 67 | 45 | 40 | WS: 0.1m/s | Birds 39-51 |
| | Shoulder) | | | | Rain: Nil | Traffic 36-47 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | <35 |

Note: Day - the period Pam Tam to Spin Monday to Baturday or Bam to Spin on Bundays and public holidays, Evening - the period Pam Spin to Opin; 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.

| Time (hrs) | | or (objecte | 20 µPa) | | |
|------------|----------------|-------------|-------------|----------------|---|
| | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | WD: W | Traffic 31-68 |
| | 75 | 54 | 54 31 | WS: 1m/s | Wind <32 |
| (Day) | | | | Rain: Nil | Dogs <32 |
| | 15:17 (Day) | 15:17 75 | 15:17 75 54 | 15:17 75 54 31 | WD: W 15:17 75 54 31 WS: 1m/s (Day) |

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

| Dete Terry (here) | T (1-1) | Descript | or (dBA re | 20 µPa) | Meteorology | Denninian and ODL 4DA |
|-------------------|--------------------------------|-------------|-------------|--------------|---------------|--------------------------|
| Date | Date Time (hrs) | LAmax | LAcq | LA90 | | Description and SPL, dBA |
| | • | | | •• | WD: W | Traffic 39-54 |
| | 14:07 | | | | | 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. L 44 49 |
| 27/09/2019 | 9 (Morning 73 48 42 WS: 0.1m/s | WS: 0.1m/s | Birds 41-48 | | | |
| | Shoulder) | | | Rain: Nil | Traffic 38-46 | |
| | Talbrag | ar Quarry L | Acq(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 emaining 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 | esults – Lo | cation P14 | | | |
|-------------|--------------|-------------|-------------|--------------|-------------|--------------------------|------------|-----------------------------|
| Date | Time (hrs) | Descript | tor (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA | | |
| Date | time (nns) | LAmax | LAcq | LA90 | Meteorology | Description and art, dbA | | |
| | - | | | | WD: W | Birds 44-46 | | |
| 05/00/0010 | 14:33 | 76 | 50 | 42 | | Traffic 44-73 | | |
| 26/09/2019 | (Day) | /0 | 52 | 72 | 72 | 72 | 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 | | |
| | | | | 43 | | Traffic 39-68 | | |
| 27/09/2019 | (Morning | 74 | 52 | | WS: 0.1m/s | Livestock 43-56 | | |
| | Shoulder) | | | | Rain: Nil | Dogs <43 | | |
| | Talbrag | ar Quarry L | Acq(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 Time (hrs) | Time (her) | Descript | tor (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
|-----------------|------------|-------------|-------------|--------------|--------------------------|-------------------------------|
| | LAmax | LAcq | LA90 | Meteorology | Description and art, dbA | |
| | | | | | | Dog Bark 38-48 |
| | | | | | | Wind 36-46 |
| | 16:16 | | | | WD: W | Traffic 38-54 |
| 03/10/2019 | | 68 | 49 | 40 | W8: 2.5m/s | Aircraft 4-68 |
| (Day) | (Day) | | | | Rain: Nil | Birds 42-53 |
| | | | | | | Local residential noise 43-67 |
| | | | | | | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <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) | oulder) | | | Rain: Nil | Boral inaudible |

Note: Day - the period itom Tam to Spm Monday to Saturday or Sam to Spm on Sundays and public holidays; Evening - the period itom Spm 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 | Denvirting and ODL HDA | |
|-----------------|----------------------------|-------|------|-------------|------------------------|-----------------------------|
| | Time (nrs) | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| | - | | | | | Wind 42-60 |
| | 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) | Time (here) | Descript | or (dBA re | 20 µPa) | Manager | | | |
|-----------------|-------------|-------------|------------|-----------------|--------------------------|-----------------|------------|-------------------------------|
| | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA | | | |
| | | • | | | | Wind 40-56 | | |
| | | | | | WD: WSW | Traffic 41-48 | | |
| 03/10/2019 | 15:20 | 59 | 40 | 49 | 46 | | WS: 2.5m/s | Local residential noise 40-58 |
| 03/10/2019 | (Day) | 29 | 49 | 70 | Rain: Nil | Birds <44 | | |
| | | | | | Bain: Nil | 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 Epm Monday to Baturday or Bam to Epm on Bundays and public holidays; Evening - the period from Epm to 10pm; Kight - the emaining 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) | Tree (her) | Descript | or (dBA re | 20 µPa) | | |
|-----------------|------------|-------------|------------|--------------|--------------------------|----------------------------|
| | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA | |
| | | | | | | Traffic 46-73 |
| | | | | | WD: W | Birds 43-51 |
| 03/10/2019 | 15:58 | 73 | 53 | 44 | WD: W WS: 1.5m/s | Wind 42-45 |
| (Day) | /3 | 53 | | Rain: Nil | Dog bark 46-50 | |
| | | | | | Nain: Nil | Aircraft 45-69 |
| | | | | | | Boral processing plant <38 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | 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 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <35 |

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) | Tree (here) | Descript | or (dBA re | 20 µPa) | Meteorology | Description and CRL dRA |
|-----------------|-------------|-------------|------------|---------------------|-------------|--------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | | Description and SPL, dBA |
| | | | | | | Birds 32-36 |
| | | | | | WD: E | Traffic 34-66 |
| 09:46 | 66 | 45 | 35 | WD: E WS: 1.5m/s | Wind 34-38 | |
| 18/02/2020 | (Day) | 00 | | 35 | Rain: Nil | Insects <32 |
| | | | | | Nain: Nil | Aircraft 36-48 |
| | | | | | | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | l. | <35 |

Note: Day - the period Rom Tam to Epm Monday to Baturday or Bam to Epm on Bundays and public holidays; Evening - the period Rom 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.

| Table 6 Ope | erator-Attend | ed Noise | Survey R | esults – Lo | cation P6 | |
|-------------|-----------------|----------------------------|------------|----------------|-----------------------|-------------------------------|
| Dette | Date Time (hrs) | Descriptor (dBA re 20 µPa) | | | Meteorology | Description and SPL, dBA |
| Date | | LAmax | LAcq | LA90 | weteorology | Description and and, dox |
| | 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 | 1 | <35 |
| | • | • | | | 1410-505 | Traffic 36-58 |
| 18/02/2020 | 09:25 | 72 | 52 | 33 | WD: ESE WS: 0.5m/s | Birds 36-44 |
| 10/02/2020 | (Day) | 12 | 52 | | Rain: Nil | Local residential noise 36-72 |
| | | | | | Rain: Nil | Boral inaudible |
| | Talbra | gar Quarry | LAcq(15mir |) Contribution | n | <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 () | | Descript | or (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
|--------------|------------|-------------|------------|--------------|-------------|-------------------------------|
| | Time (hrs) | LAmax | LAcq | LA90 | | |
| | - | • | | •• | | 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 | 1 | <35 |
| | | | | | WD: ESE | Local residential noise 36-48 |
| 18/02/2020 | 08:36 | 76 | 50 | 43 | WS: 0.1m/s | Boral processing 36-42 |
| 10/02/2020 | (Day) | 10 | 30 | | Rain: Nil | Birds 39-51 |
| | | | | | Isain: Nil | Traffic 36-76 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | 42 |

Note: Day - the period Pom 7am to Spm Monday to Saturday or Sam to Spm on Sundays and public holidays; Evening - the period Pom Spm 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) | Tree (here) | Descript | tor (dBA re | 20 µPa) | Manager | Description and ODL 4DA |
|-----------------|-------------|-------------|-------------|--------------|--------------------------|------------------------------|
| | LAmax | LAcq | LA90 | Meteorology | Description and SPL, 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 | 1 | <35 |
| | | | | | WD: ESE | Boral loading (3 secs) <61 |
| 18/02/2020 | 09:05 | 75 | 53 | 43 | WS: 0.1m/s | Boral processing plant 36-42 |
| 10/02/2020 | (Day) | 19 | 33 | | Rain: Nil | Traffic 36-74 |
| | | | | Nain: Nil | Birds 36-44 | |

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 (h | T (1-1) | Descriptor (dBA re 20 µPa) | | | Meteorology | Description and SPL, dBA |
|--------------|----------------|----------------------------|------------|----------------|-------------|---------------------------|
| | Time (nrs) | LAmax | LAcq | LAso | Meteorology | Description and ar c, dox |
| | 06:40 | | | | WD. 5 | Traffic 38-56 |
| | | | | WD: E | Birds 38-74 | |
| 19/05/2020 | (Morning | 74 | 54 | 41 | WS: 1m/s | Dogs <40 |
| | Shoulder) | | | | Rain: Nil | Boral processing ~38 |
| | Talbra | gar Quarry | LAcq(15min |) Contribution | n | ~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) |
| | Talbra | gar Quarry | LAcg(15min |) Contribution | n | 39 |

Note: Day - the period ifom 7am to Epm Monday to Saturday or Sam to Epm on Sundays and public holidays; Evening - the period ifom Epm 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) | Meteorology | Description and SPL, dBA |
|------------|------------|------------|-------------|----------------|-------------|--------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | | |
| 07:57 | | - | | | WD: E | Birds 38-67 |
| 19/05/2020 | | 67 | 48 | 44 | WS: 0.5m/s | Traffic 36-52 |
| | (Day) | | | | Rain: Nil | Boral processing <36 |
| | Talbra | gar Quarry | LAcq(15mir |) Contribution | n | <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 | Tree (here) | Descriptor (dBA re 20 µPa) | | | Meteorology | Description and SPL, dBA |
|------------|-------------|----------------------------|------------|--------------|-------------|----------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | mercenergy | Description and all C, dbA |
| | 06:02 | | | | WD: E | Wind 35-39 |
| | | 51 | | | | Traffic 34-51 |
| 19/05/2020 | (Morning | 51 | 39 | 36 | WS: 1.5m/s | Industrial hum <35 |
| | Shoulder) | | | | Rain: Nil | Boral processing 34-36 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | 35 |
| | | | | | | Aircraft 42-46 |
| | | | | | WD: E | Birds 42-80 |
| 19/05/2020 | 07:39 | 80 | 54 | 44 | WS: 0.5m/s | Traffic 38-52 |
| | (Day) | | | | Rain: Nil | Boral tipping 38-46 |
| | | | | | | (5 seconds) |
| | Talbrao | ar Quarry L | Aca(15min) | Contribution | | <35 |

Note: Day - the period Pom Tam to Spin Monday to Baturday or Bam to Spin on Bundays and public holidays; Evening - the period Pom 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 | | Descript | or (dBA re | 20 µPa) | | Description and SPL, dBA |
|------------|------------|-------------|------------|--------------|-------------|----------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | Meteorology | |
| | 06:21 | | | | WD: E | Birds 38-56 |
| | | 73 | | 38 | | Traffic 36-72 |
| 19/05/2020 | (Morning | 73 | 50 | 30 | WS: 0.5m/s | Rooster 38-44 |
| | Shoulder) | | | | Rain: Nil | Boral reverse alarms <36 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | <36 |
| | | | | | | Birds 38-54 |
| | | | | | WD: E | Traffic 36-66 |
| 9/05/2020 | 07:18 | 66 | 54 | 47 | WS: 0.5m/s | Boral processing 34-38 |
| | (Day) | | | | Rain: Nil | Boral reverse alarms 38-45 |
| | | | | | | (5 seconds) |
| | Tallacan | ar Ouarry I | Annata | Contribution | | . 36 |

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) | Time (here) | Descript | tor (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
|-----------------|-------------|------------|-------------|----------------|-------------|--------------------------|
| | LAmax | LAcq | LA90 | meteorology | | |
| | | | | | WD: SW | Aircraft 33-60 |
| | 16:29 | ~ | | 33 | | Birds 36-48 |
| 19/10/2020 | (Day) | 60 | 40 | -0 33 | WS: 0.4m/s | Traffic 36-46 |
| | | | | | Rain: Nil | Boral Inaudible |
| | Talbra | gar Quarry | LAcq(15mir |) Contribution | n . | <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 |
| | Talbra | gar Quarry | LAcg(15mir |) Contribution | n | <30 |

Note: Day - the period ihom 75m to 6pm Monday to Saturday or Sam to 6pm on Sundays and public holidays; Evening - the period ihom 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 (here) | Descript | or (dBA re | 20 µPa) | Meteorology | Description and SPL, dB/ |
|------------|-------------|----------|------------|-------------|-------------|---------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | Meteorology | Description and ar E, dow |
| | - | | | | 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) | T (1-1) | Descript | or (dBA re | 20 µPa) | Meteorology | Description and ODL 4DA |
|-----------------|----------------|-------------|------------|--------------|-------------|--------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | | Description and SPL, dBA |
| | - | • | | · · · · · | | Birds 36-66 |
| | | | | | WD: SW | Insects 36-40 |
| 19/10/2020 | 15:52 | 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 | l. | <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 Rom Tam to Epm Monday to Saturday or Sam to Epm on Sundays and public holidays; Evening - the period Rom 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.

| Date | Time (hrs) | Descript | or (dBA re | 20 µPa) | Manager | Description and SPL, dBA |
|------------|------------|-------------|------------|--------------|-------------|-------------------------------|
| | | LAmax | LAcq | LA90 | Meteorology | |
| | | | | | | 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) | | | | Rain: Nil | Traffic 38-73 |
| | | | | | Dog <44 | |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | 35 |
| | 06:26 | | | | WD: SE | Birds 36-44 |
| 20/10/2020 | | ~~ | 49 | 38 | WS: 0.1m/s | Traffic 36-66 |
| 20/10/2020 | (Morning | 66 | -9 | 30 | | Rooster 36-49 |
| | Shoulder) | | | | Rain: Nil | Boral Inaudible |
| | Talbrag | ar Quarry L | Acq(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 (| Time (hrs) | Descript | tor (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
|-------------|------------|-------------|-------------|--------------|-------------|--------------------------|
| Date | | LAmax | LAcq | LA90 | | |
| | | | | | WD: N | Traffic 42-56 |
| 07:00 | | | | | Birds 41-62 | |
| 19/01/2021 | (Day) | 62 | 48 | 44 | WS: 0.1m/s | Quarry tipping 36-45 |
| | (20) | | | | Rain: Nil | (10 seconds) |
| | Talbrag | ar Quarry L | Acg(15min) | Contribution | | <30 |

Note: Day - the period Pom 7am to Epm Monday to Saturday or Bam to Epm on Sundays and public holidays; Evening - the period Pom Epm 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 | erator-Attende | ed Noise S | Survey Re | sults – Loc | ation P10 | | |
|-------------|----------------|----------------------------|------------|--------------|----------------|----------------------------|-------------|
| Date | Time (hrs) | Descriptor (dBA re 20 µPa) | | | Meteorology | Description and SPL, dBA | |
| but in | time (nns) | LAmax | LAcq | LA90 | inclusion sigy | bescription and or e, dow | |
| | 08:23 | | | | WD: N | Traffic 38-48 | |
| 19/01/2021 | | | 75 | 50 | 44 | WS: 0.1m/s | Birds 38-75 |
| | (Day) | | | | Rain: Nil | Quarry Screening Plant <38 | |
| | 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 | |
| | Talbrag | gar Quarry L | Acq(15min) | Contribution | | <30 | |

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 | Tree (her) | Descript | or (dBA re | 20 µPa) | Material | Description and CRL dRA |
|------------|------------|-------------|-------------|--------------|-------------|-------------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Traffic 42-50 |
| | | WD: N | Birds 42-49 | | | |
| 19/01/2021 | 08:03 | | 48 | | | Dogs <44 |
| (Day) | (Day) | 00 | 70 | | Rain: Nil | Local residential noise 42-50 |
| | | | | | Rain: Nil | Aircraft 48-68 |
| | | | | | | Quarry Mobile Plant <42 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <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 |

Note: Day - the period Rom 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period Rom 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 | tor (dBA re | 20 µPa) | Material | Description and CRL dRA |
|------------|------------|-------------|-------------|--------------|-------------|-----------------------------|
| Date | | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Insects 44-46 |
| | 08:41 | | | | WD: N | Traffic 44-76 |
| 19/01/2021 | 76 | 52 | 42 | 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 | | 40 |
| | | | | | | Birds 46-58 |
| | 06:43 | | | | WD: N | Traffic 46-71 |
| 19/01/2021 | (Morning | 71 | 50 | 44 | WS: 0.1m/s | Quarry Screening Plant <36 |
| | Shoulder) | | | | Rain: Nil | Quarry Mobile Plant 36-48 |
| | | | | | | (30 seconds) |
| | Talbrag | ar Quarry L | Acg(15min) | Contribution | | 35 |

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) | Descript | tor (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
|---------------------------------------|------------|-------------|-------------|--------------|-------------|--------------------------|
| · · · · · · · · · · · · · · · · · · · | LAmax | LAcq | LA90 | Meteorology | | |
| | | | | | | Boral Water Cart |
| | | | | | | (10 seconds) 39-41 |
| 16:35 12/04/2021 | 16.35 | | | | WD: SW | Boral Front End Loader |
| | | 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 | l. | 30 |

Note: Day - the period Rom Tam to Spm Monday to Saturday or Bam to Spm on Sundays and public holidays; Evening - the period Rom Spm 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 (1-1) | Descript | tor (dBA re | 20 µPa) | Manager | Description and CBL dBA |
|------------|----------------|--------------|-------------|--------------|----------------------|------------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Traffic 39-70 |
| | | | | | | Birds 39-44 |
| | | | | | WD: SW | Insects <39 |
| 12/04/2021 | 16:55 | 70 | 51 | 39 | WS: 0.3m/s | Agriculture 39-42 |
| | (Day) | | | | Rain: Nil | Local residential noise 38-6 |
| | | | | | | Aircraft 38-57 |
| | | | | | | Quarry Inaudible |
| | Talbrag | gar Quarry L | Acq(15min) | Contribution | | <30 |
| | 06:39 | | | • | WD: SE | Traffic 40-73 |
| 13/04/2021 | | 73 | 53 | 41 | WD: 8E WS: 0.1m/s | Birds 40-61 |
| 13/04/2021 | (Morning | 15 | | - | | Local residential noise 40-6 |
| | Shoulder) | | | | Rain: Nil | Quarry Inaudible |
| | Talbrag | gar Quarry L | Acg(15min) | Contribution | | <30 |

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 (1-1) | Descript | or (dBA re | 20 µPa) | | |
|-----------------|----------------|-------------|------------|--------------|--------------------------|------------------|
| | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA | |
| | | | | | | Birds 38-49 |
| | 15:59 | | | | WD: SW | Traffic 38-44 |
| 12/04/2021 | (Day) | 68 | 50 | 41 | WS: 0.4m/s | Aircraft 39-68 |
| | | | | | Rain: Nil | Quarry Inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <30 |
| | | | | | | Traffic 39-66 |
| | 06:01 | | | | WD: SE | Birds 41-70 |
| 13/04/2021 | (Morning | 70 | 49 | 43 | WS: 0.1m/s | Dogs <44 |
| | Shoulder) | | | | Rain: Nil | Quarry Inaudible |
| | Talbrag | ar Quarry L | Aca(15min) | Contribution | | <30 |

Note: Day - the period itom 7am to Epm Monday to Saturday or Sam to Epm on Sundays and public holidays; Evening - the period itom 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 P12 (R11) for the NMA are presented in Table 8

| Date | Time (hrs) | Descript | or (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
|------------------------------|------------|-------------|------------|--------------|----------------------|--------------------------|
| Date | | LAmax | LAcq | LA90 | | |
| | | | | | | Birds 44-48 |
| | | | | 40 | WD: SW WS: 0.3m/s | Traffic 41-73 |
| 16:16 12/04/2021 (Day) | 16:16 | 73 | 50 | | | Boral Hammering |
| | (Day) | 73 | 50 | | Rain: Nil | (5 seconds) 39-43 |
| | | | | | isan, ni | Dogs 39-42 |
| | | | | | | Livestock 37-39 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | <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 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | <30 |

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.

| Date | Tree (here) | Descript | or (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
|------------|-------------|-------------|--------------|--------------|-------------|--------------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | weteorology | |
| | | | | | | Birds 45-66 |
| | | | | | WD: SE | Local residential noise 45-54 |
| 06/07/2021 | 07:10 | 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 |
| 06/07/2021 | (Morning | 61 | 45 | 41 | WS: 0.1m/s | Birds 39-61 |
| | Shoulder) | | | | Rain: Nil | Traffic 39-46 |

Note: Day - the period if on Tam to Epm Monday to Estunday or Bam to Epm on Bundays and public holidays; Evening - the period if on Epm to 10pm; Hight - the emaining 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 T | Time (hrs) | Descriptor (dBA re 20 µPa) | | | Meteorology | Description and SPL, dBA |
|------------|-------------|----------------------------|-----------|-------------------------------|----------------------|---------------------------|
| Date | Time (rins) | LAmax | LAcq | LA90 | Meteorology | Description and or E, dbk |
| | • | - | | | WD: SE | Traffic 56-85 |
| 08:16 | 08:16 | 8:16 | | WD: SE | Industrial hum 56-63 | |
| 06/07/2021 | (Day) | 85 | 65 | 56 | WS: 0.1m/s | Aircraft 55-64 |
| (Bay) | | | Rain: Nil | Boral Tipping (1 minute) 55-6 | | |

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 Tim | Time (hrs) | Descript | or (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
|------------|------------|-------------|------------|--------------|-------------|---------------------------|
| | Time (nrs) | LAmax | LAcq | LA90 | | Description and or E, dow |
| | 08:40 | | | | WD: SE | Traffic 48-65 |
| 06/07/2021 | 021 | 65 | 48 | 42 | WS: 0.1m/s | Birds 48-54 |
| (Day) | (Day) | | | | Rain: Nil | Boral Inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | <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 | ar Quarry L | Acq(15min) | Contribution | | <35 |

Note: Day - the period Pom Tam to Epm Monday to Baturday or Bam to Epm on Bundays and public holidays; Evening - the period Pom 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 P12 (R11) for the NMA are presented in Table 8

| Date | T (has) | Descript | or (dBA re | 20 µPa) | Meteorology | Description and ODL dDA |
|------------|----------------|-------------|--------------|----------------|-------------|---------------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | | Description and SPL, dBA |
| | - | | | | WD: SE | Birds 45-61 |
| 06/07/2021 | 07:50 | 61 | 49 | 45 | WS: 0.1m/s | Traffic 45-48 |
| 06/07/2021 | (Day) | | | Dog bark 45-51 | | |
| | | | | | rain: Nil | Boral Tipping (5 seconds) 45-50 |
| | 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 |
| | | | | 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 (hrs) | Time (here) | Descript | or (dBA re | 20 µPa) | | D |
|-----------------|--------------------|-------------|------------|--------------|--------------------------|---------------------|
| | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA | |
| | | | | 14/D. F | Wind in trees 42-64 | |
| 12/10/2021 | 11:34 | 71 | 54 | 47 | WD: E | Birds 42-71 |
| 12/10/2021 | (Day) | /1 | | | WS: 2.5m/s Rain: Nil | Traffic 42-58 |
| | | | | | Rain. Nii | Boral Inaudible |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | l. | <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 |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | 1 | <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 | | |
| Date | - | LAmax | LAeq | LA90 | Meteorology | - | | |
| 11:57 | | | | WD: E | Traffic 52-68 | | | |
| 12/10/2021 | | 78 | 63 | 56 | WS: 2.8m/s | Wind in trees 54-78 | | |
| | (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) | Descriptor (dBA re 20 µPa) | | | | |
|------------------------------|------------|----------------------------|------------|--------------|---------------------|--------------------------|
| | | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Traffic 48-63 |
| 10:21 12/10/2021 (Day) | | | | WD: E | Birds 48-67 | |
| | 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 | | 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 horn 52-56 |
| | | | | | | Boral Inaudible |

Note: Day - the period from 7am to 8pm Monday to Seturday or 8am to 8pm on Sundays and public holdays; Evening - the period from 8pm 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

| Date Time () | Tree (ber) | Descript | or (dBA re | 20 µPa) | Meteorology | |
|--------------|------------|-------------|------------|--------------|-------------------|--------------------------|
| | time (nrs) | LAmax | LAcq | LA90 | | Description and SPL, dBA |
| | | | | | WD 5 | Birds 52-72 |
| 12/10/2021 | 11:16 | 72 | 58 | | WD: E WS: 2m/s | Wind in trees 52-65 |
| 12/10/2021 | (Day) | 12 | | 20 | | Traffic 52-68 |
| | | | | | Rain: Nil | Boral processing <41 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | ~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 | | 34 |

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**.

| Data Time (her | Time (hes) | Descript | or (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
|----------------|------------|-------------|------------|--------------|---------------------|--------------------------|
| Date | Time (hrs) | LAmax | LAeq | LA90 | | Description and SPL, dBA |
| | - | | | | WD: S | Birds 39-54 |
| | 07:18 | | | 42 | WD: 5 WS: 0.4m/s | Traffic 39-75 |
| 18/10/2022 | (Day) | 75 | 51 | | | Insects 39-41 |
| | (_ 0)) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | 1 | |

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 Ope | erator-Attende | ed Noise S | Survey Re | esults – Loc | ation P10 | |
|-------------|----------------|------------------------------------|-------------|--------------|-------------------------|---------------------------|
| Date | Time (here) | Descript | tor (dBA re | 20 µPa) | Meteorology | Departmention and SPL dRA |
| Date | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Birds 40-49 |
| | | | | | WD. C | Traffic 40-64 |
| 18/10/2022 | 07:37 | WD: S 07:37 72 52 42 WS: 0.2m/s | Insects <40 | | | |
| 16/10/2022 | (Day) | 12 | 12 52 | 42 | | Aircraft 40-72 |
| | | | | | Rain: Nil | Boral reverse alarms <40 |
| | | | | | | (2 minutes) |
| | Talbrag | ar Quarry I | Aeq(15min) | Contribution | | 33 |
| | 06:38 | | | | WD: S | Traffic 39-59 |
| 18/10/2022 | | 59 | 12 | 38 | | Insects 36-38 |
| 10/10/2022 | (Morning | 58 | 43 | - 30 | WS: 0.3m/s Rain: Nil | Birds 42-56 |
| | Shoulder) | | | | rtain: Nil | Boral inaudible |
| | Talbrag | <30 | | | | |

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 | T | Descript | tor (dBA re | 20 µPa) | Meteorology | Description and CBL 484 |
|-----------------|------------|-------------|-------------|--------------|------------------------|--------------------------|
| Date Time (nrs) | Time (hrs) | LAmax | LAcq | LA90 | | Description and SPL, dBA |
| | | | | | Council slashing 49-91 | |
| 18/10/2022 | 08:37 | | | 1 43 | WD: S | Dogs 43-46 |
| 18/10/2022 | (Day) | 91 | 71 | | WS: 1.4m/s | Traffic 43-50 |
| | | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <35 |
| | 06:19 | | 49 | 42 | WD: S | Insects <39 |
| | | | | | | Birds 39-75 |
| 18/10/2022 | (Morning | | | | WS: 0.4m/s | Traffic 39-56 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | < 30 | | | | |

Note: Day - the period from 7am to 5pm Monday to Saturday or Dam to 5pm on Sundays and public holdays; 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) | Material | Description and ODL HDA |
|------------|------------|-------------|------------|--------------|-------------|--------------------------|
| Date | time (nns) | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Insects <37 |
| | | | | | WD: S | Traffic 40-76 |
| 18/10/2022 | 07:00 | 76 | 76 51 | 40 | WS: 0.4m/s | Birds 37-46 |
| | (Day) | | | | Rain: Nil | Boral reverse alarms <37 |
| | | | | | | (3 minutes) |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | I. | 30 |
| | | | | | | Insects 36-40 |
| | | | | | WD: S | Birds 36-56 |
| | 06:00 | | | | | 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 |
| | Talhean | ar Quarry I | Angele | 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**.

| Table 5 Operator-Attended Noise Survey Results – Location P5 | | | | | | | | |
|--|-----------------|-------------|------------|--------------|-------------|------------------------------|--|--|
| Date | Time (hre) | Descript | or (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA | | |
| Date | Date Time (hrs) | LAmax | LAeq | LA90 | | | | |
| | - | | | | | 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 | | |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | l. | <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**.

| | _ | Descriptor (dBA re 20 µPa) | | | | Description and ODL HDA |
|---------------------|------------|----------------------------|-------------|--------------|-------------------------------|--------------------------|
| Date Time (hrs) | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| | | | - | | WD. 05 | Traffic 40-64 |
| 0.510.4100.000 | 07:31 | WD: SE | Birds 40-54 | | | |
| 05/04/2022 | (Day) | 98 | 68 | 43 | WS: 0.1m/s | Train 49-98 |
| | | | | Rain: Nil | Boral inaudible | |
| | Talbrag | gar Quarry I | Aeq(15min) | Contribution | | <33 |
| | 00.45 | | | | WD. 05 | Birds 39-59 |
| | 06:45 | | | | WD: SE | Traffic 42-73 |
| 05/04/2022 (Morning | . 2 | 73 51 | 43 | WS: 0.3m/s | Local residential noise 39-54 | |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | <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 Ti | | Descript | or (dBA re | 20 µPa) | Meteorology | Description and ODL 404 |
|------------|------------|--|----------------------|--------------|-----------------|--------------------------|
| | Time (hrs) | LAmax | LAcq | LA90 | | Description and SPL, dBA |
| | | WD: SE 74 49 40 WS: 0.1m/s Rain: Nil | | | WD. CE | Traffic 37-52 |
| 05/04/2022 | 08:10 | | | Birds 37-74 | | |
| 03/04/2022 | (Day) | | Industrial noise <42 | | | |
| | | | | rvain: Nil | Boral inaudible | |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <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 |
| | Talbrao | ar Quarry L | Aca(15min) | Contribution | 1 | <36 |

Note: Day - the period from 7am to 5pm Wonday 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.

| Date Tim | | Descript | or (dBA re | 20 µPa) | | |
|------------|------------|-------------|------------|--------------|------------------------|--------------------------|
| | Time (hrs) | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| | | | 53 | | WD: SE | Traffic 40-72 |
| 05/04/2022 | 07:50 | 72 | | 47 | WS: 0.1m/s | Birds 40-54 |
| (Day) | | | | Rain: Nil | Boral processing 38-40 | |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | n | 39 |
| | | | | | | Birds 45-64 |
| | 06:08 | ~ | | 43 | WD: SE | Traffic 42-69 |
| 05/04/2022 | (Morning | 69 | 69 52 | | WS: 0.1m/s | Rooster 44-58 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <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**.

| Data | Time (here) | Descript | or (dBA re | 20 µPa) | Matanalami | Description and CDL alDA |
|------------------------------|-------------|-------------|------------|--------------|---------------|--------------------------|
| Date Tim | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| 07:03 07/06/2022 (Day) | | | | WD: NW | Traffic 41-58 | |
| | 69 50 | 50 | 44 | WS: 0.1m/s | Birds 41-69 | |
| | (Day) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | | <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 | <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 Ope | erator-Attende | ed Noise S | Survey Re | esults – Lo | cation P10 | |
|-------------|----------------|------------|-------------|-------------|----------------------|--------------------------|
| Date | Time (hrs) | Descript | tor (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
| Date | | LAmax | LAeq | LA90 | Meteorology | |
| 08:00 | | | | | WD: NW WS: 0.1m/s | Traffic 36-58 |
| | 08:00 | | | 44 | | Birds 38-63 |
| 07/06/2022 | (Day) | 72 | 55 | | | Aircraft 36-72 |
| | | | | Rain: Nil | Boral inaudible | |
| | Talbrag | <34 | | | | |

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 | Tree (her) | Descriptor (dBA re 20 µPa) | | | Manager | Description and OBL 4BA | |
|----------------|------------|----------------------------|------|------|-------------|--------------------------|---------------|
| Date Time (ms) | Time (hrs) | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA | |
| 07:42 | 07-42 | | | | WD: NW | Birds 36-72 | |
| 07/06/2022 | | | 72 | 50 | 43 | WS: 0.1m/s | Traffic 36-58 |
| | | | | | Rain: Nil | Boral inaudible | |
| | Talbrag | <33 | | | | | |
| | 06:27 | | | | WD: NW | Traffic 40-64 | |
| | | | | | | Birds 38-48 | |
| 07/06/2022 | (Morning | 74 | 54 | 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 8am 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 CRL dRA |
|------------|-------------|-------------|-------------|--------------|-------------|--------------------------|
| Date | time (rins) | LAmax | LAcq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | WD: NW | Birds 46-54 | |
| | 07:21 | 79 5 | 57 | 47 | | Traffic 42-79 |
| 07/06/2022 | (Day) | | | | WS: 0.1m/s | Rooster 46-54 |
| | | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <37 |
| | | | | | | Traffic 37-66 |
| | 06:07 | | | 41 | WD: NW | Rooster 38-44 |
| 07/06/2022 | (Morning | 66 | 50 | | WS: 0.1m/s | Birds 37-46 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <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**.

| | | Descript | or (dBA re | 20 µPa) | | |
|------------|------------|-------------|------------|--------------|-------------|--------------------------|
| Date | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| 47-00 | | | | WD: SW | Birds 37-54 | |
| 12/09/2022 | 17:08 | 54 | 43 | 40 | WS: 0.3m/s | Traffic 37-46 |
| | (Day) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | ar Quarry L | Aeq(15min) | Contribution | I. | <30 |
| | 00.42 | | | | | Traffic 42-56 |
| / / | 06:43 | | | | WD: NE | Birds 43-70 |
| 13/09/2022 | (Morning | 70 | 47 | 42 | WS: 0.1m/s | Boral reverse alarms <43 |
| | Shoulder) | | | | Rain: Nil | (5 seconds) |
| | Talbrag | ar 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**.

| Data | T : (1) | Descript | or (dBA re | 20 µPa) | | |
|------------|-----------------|----------|------------|---------|-----------------------------------|--------------------------|
| Date | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | 50 37 | WD: SW WS: 0.2m/s Rain: Nil | Birds 34-51 |
| | 17:30 | 66 50 | | | | Traffic 33-66 |
| 12/09/2022 | (Day) | | 50 | | | Livestock 36-46 |
| | | | | | | 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 | Tree (her) | Descript | or (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
|------------|-----------------------|-------------|-------------|--------------|-----------------|--------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | Meteorology | |
| | | | 49 | 46 | | Traffic 43-62 |
| | 16:45 022 (Day) | | | | WD: SW | Birds 46-58 |
| 12/09/2022 | | 62 | | | WS: 0.3m/s | Aircraft 44-54 |
| (23) | (Bay) | | | | Rain: Nil | |
| | | | | | Boral inaudible | |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | | <36 |
| | | | | | | Birds 40-68 |
| | 06:21 | | | | WD: NE | Traffic 44-58 |
| 13/09/2022 | (Morning | 68 | 51 | 47 | WS: 0.1m/s | Aircraft 46-54 |
| | Shoulder) | | | | Rain: Nil | Industrial noise <46 |
| | | | | | | Boral inaudible |
| | Talbrao | ar Quarry I | Aca(1Serie) | Contribution | | <35 |

Note: Day - the period Pom 7am to Epm Monday to Saturday or Bam to Epm on Sundays and public holidays; Evening - the period Pom 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.

| Date | - | Descript | or (dBA re | 20 µPa) | Meteorology | Description and SPL, dBA |
|------------------------------|------------|-------------|------------|--------------|-------------|--------------------------|
| Date | Time (hrs) | LAmax | LAcq | LA90 | Meteorology | |
| | | | | | | Birds 48-62 |
| 16:27 12/09/2022 (Day) | 15.07 | 79 | | 46 | WD: SW | Traffic 44-79 |
| | | | 54 | | WS: 0.2m/s | Dog bark 46-54 |
| | (Day) | | | | Rain: Nil | Aircraft 42-56 |
| | | | | | | Boral processing <41 |
| | Talbrag | ar Quarry L | Acq(15min) | Contribution | 1 | <41 |
| | 06:01 | | | | WD: NE | Birds 40-67 |
| | | | | | | Traffic 42-50 |
| 13/09/2022 | (Morning | 67 | 48 | 43 | WS: 0.2m/s | Rooster 40-58 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbrao | ar Quarry L | Aca(15min) | Contribution | 1 | <33 |

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

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

location P4 (R2) for the NMA are presented in Table 5.

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**.

| Data | Time (here) | Descript | tor (dBA re | 20 µPa) | Mataaniaa | Description and CDL alD/ |
|------------|-------------|--------------|-------------|--------------|---------------------|--------------------------|
| Date | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Traffic 39-48 |
| | 11:34 | | | | WD: W WS: 1.8m/s | Insects 39-44 |
| 15/12/2022 | | 63 | 44 | 40 | | Wind in vegetation 40-44 |
| | (Day) | 05 | | -10 | Rain: Nil | Birds 40-50 |
| | | | | | rvant, rvn | Construction noise 40-63 |
| | | | | | | Boral inaudible |
| | Talbrag | gar Quarry L | .Aeq(15min) | Contribution | | <30 |
| | 06:20 | | | | WD: S | Birds 39-59 |
| 16/12/2022 | (Morning | 78 | 55 | 42 | WS: 0.1m/s | Traffic 39-78 |
| | Shoulder) | | | | Rain: Nil | Boral inaudible |
| | Talbrag | gar Quarry L | Aeq(15min) | Contribution | | <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**.

| Data | T | Descript | or (dBA re | 20 µPa) | Matanala | Description and ODL HDA |
|------------------|------------|-------------|------------|--------------|---------------|--------------------------|
| Date | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Birds 38-48 |
| | | | | | | Traffic 36-44 |
| | 11:16 | | | | WD: W | Wind in vegetation 36-40 |
| 15/12/2022 (Day) | 67 | 46 | 38 | 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 |
| | 06:37 | | | | WD: S | Birds 40-68 |
| 16/12/2022 | | 69 | 47 | 42 | WD: 5 | Traffic 39-48 |
| 10/12/2022 | (Morning | 68 | 47 | 42 | | Dog bark 39-44 |
| | 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.

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 | Time (here) | Descript | or (dBA re | 20 µPa) | Matanalaa | Description and CDL dDA |
|------------|-------------|-------------|------------|--------------|-------------|----------------------------|
| Date | Time (hrs) | LAmax | LAeq | LA90 | Meteorology | Description and SPL, dBA |
| | | | | | | Traffic 39-71 |
| | | | | | | Insects <39 |
| | 11:53 | | 52 | | WD: W | Birds 39-52 |
| 15/12/2022 | (Day) | 71 | | 41 | 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 |
| 40/40/2022 | | 77 | | 15 | | Dog bark 48-60 |
| 16/12/2022 | (Morning | 77 | 55 | 45 | WS: 0.1m/s | Boral reverse alarms 44-48 |
| | Shoulder) | | | | Rain: Nil | (2 minutes) |
| | | | | | | Boral processing 34-40 |
| | Talbrag | ar Quarry L | Aea(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.

| | | D | escriptor | r | | | |
|------------|-----------------------|------------|-----------|-----------|----------------------|------------|------------------------------|
| Date | Time (hrs) | (dBA | λ re 20 μ | Pa) | Meteo | rology | Description and SPL, dBA |
| | | LAmax | LAeq | LA90 | BoM 065070 | Operator | - |
| | | 11 | | | | 1 | Wind in vegetation 37-61 |
| | 10:00 | | | | WD: E | WD: NE | Insects <37 |
| 23/02/2023 | 12:20 | 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) |
| | Talbra | gar Quarŋ | / LAeq(1 | 5min) Coi | ntribution | | 35 |
| | | | | | | | Dog bark 59-66 |
| | | | | | | | Insects <30 |
| | 06.41 | | | | WD: SE | WD: N | Traffic 32-39 |
| 24/02/2023 | (Morning | 66 | 46 | 34 | WD: 3E 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) | | | | Naill, Inii | Nain. Nii | Birds 36-54 |
| | | | | | | | Boral haul trucks <37 |
| | | | | | | | (1 minute) |
| | Talbra | gar Quarry | / LAeq(1 | 5min) Coi | ntribution | | <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 Ope | rator-Atte | ended N | oise Su | rvey Res | ults – Location | P6 | |
|-------------|------------|------------|------------------------|-------------|-----------------|------------|--------------------------|
| Date | Time | | Descripto A re 20 µ | | Meteor | ology | Description and SPL, dBA |
| | (hrs) | LAmax | LAeq | LA90 | BoM 065070 | Operator | |
| | | | | | | | Wind in vegetation 39-54 |
| | 12:41 | | | | WD: ENE | WD: NE | Birds <39 |
| 23/02/2023 | | 71 | 54 | 48 | WS: 6.5m/s | WS: 2.3m/s | Traffic 42-71 |
| | (Day) | | | | Rain: Nil | Rain: Nil | Aircraft 40-67 |
| | | | | | | | Boral inaudible |
| | Та | lbragar Qı | 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.

| | | D | escriptor | r | | | |
|-----------------|----------------|------------|-----------|-----------|---------------------|------------|------------------------------|
| Date | Time (here) | (dBA | v re 20 µ | Pa) | Meteo | rology | Description and CDL alDA |
| Date Time (hrs) | | LAmax | LAeq LA90 | | BoM 065070 Operator | | Description and SPL, dBA |
| | | | | | | | Wind in vegetation 46-61 |
| | 11.20 | | | | WD: E | WD: NE | Insects <46 |
| 23/02/2023 | 11:32 (Day) | 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(15 | 5min) Cor | ntribution | | <39 |
| | | | | | | | Other industrial noise 38-46 |
| | | | | | | | 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 |
| | Talbra | gar Quarry | / LAeq(1 | 5min) Coi | ntribution | | <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.

| | | D | escriptor | r | | | |
|------------|-----------------------|------------|-----------|----------|-------------------------|-------------------------------|--|
| Date | Time (hrs) | (dBA | v re 20 µ | Pa) | Meteo | rology | Description and SPL, dBA |
| Date | nine (iii3) | LAmax | LAeq | LA90 | BoM 065070 | Operator | |
| | | | | | | | Wind in vegetation 45-54 |
| | 12:00 | | | | WD: ESE | WD: NE | Traffic 45-73 Insects 45-49 |
| 23/02/2023 | (Day) | 73 | 54 | 48 | WS: 8.1m/s Rain: Nil | WS: 2m/s Rain: Nil | Birds 46-52 |
| | | | | | | | Boral processing 43-50 (5 minutes) |
| | Talbra | gar Quarry | / LAeq(1 | 5min) Co | ntribution | | 40 |
| 24/02/2023 | 06:00 | 66 | 46 | 41 | WD: SE | WD:N WS [:] 01m/s | Traffic 39-66 Insects 39-42 Birds 46-51 |
| 24/02/2023 | (Morning Shoulder) | 00 | 40 | 41 | Rain: Nil | Rain: Nil | Other industrial noise 40-50 Rooster 40-46 Boral inaudible |
| | Talbra | gar Quarn | / LAeg(15 | 5min) Co | ntribution | | <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.

Talbragar Quarry Environmental Monitoring Report – Noise

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 | rator-Attend | ed Noise | Surve | y Resul | ts – Location F | P4 | |
|-------------|--------------|------------|-----------|-----------|-----------------|------------|-------------------------------|
| | | De | escripto | r | | | |
| Date | Time (hrs) | (dBA | v re 20 µ | Pa) | Meteo | rology | Description and SPL, dBA |
| Date | Time (Tits) | LAmax | LAea | LA90 | | | |
| | - | L/ tinax | Dicq | 2100 | BoM 065070 | Operator | |
| | | | | | | | Birds 43-53 |
| | | | | | | | Dog bark 43-52 |
| | 12:28 | | | | WD: NNW | WD: N | Traffic 44-66 |
| 07/06/2023 | (Day) | 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(1 | 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(1 | 5min) Co | 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 | erator-Atte | ended N | oise Su | rvey Res | ults – Location I | P10 | |
|-------------|-------------|---------|-----------|----------|-------------------|------------|----------------------------|
| | | | Descripto | | | | |
| Date | Time | (dB | A re 20 µ | ıPa) | - Meteor | ology | Description and SPL, dBA |
| | (hrs) | LAmax | LAeq | LA90 | BoM 065070 | Operator | |
| | | | | | | | Traffic 40-48 |
| | | | | | | | Birds 46-54 |
| | 40.50 | | | | WD: NNW | WD: N | Aircraft 40-65 |
| 07/06/2023 | 12:50 | 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 | 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) | Descriptor (dBA re 20 μPa) | | | Meteo | rology | Description and SPL, dBA |
| | | LAmax | LAed | LASU | BoM 065070 | Operator | |
| | | | | | | | Wind in trees 49-52 |
| 07/06/2023 | 12:53 (Day) | 68 | 50 | 44 | WD: NNW WS: 5.1m/s | WD: N WS: 2.0m/s | Traffic 44-47 Aircraft 48-68 Birds 42-54 |
| | | | | | Rain: Nil | Rain: Nil | Boral processing 41-46 (5 minutes) |
| | Talbra | gar Quarŋ | / 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 Quarŋ | / LAeq(1 | 5min) Cor | 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) | Descriptor (dBA re 20 µPa) | | | Meteo | rology | Description and SPL, dBA |
| Date | nme (nrs) | LAmax | LAeq | LA90 | BoM 065070 | Operator | Description and SPL, dBA |
| 07/06/2023 | 12:12 (Day) | 75 | 53 | 44 | WD: NNW WS: 8.9m/s Rain: Nil | WD: N WS: 2.0m/s Rain: Nil | Wind in trees 43-52 Traffic 43-75 Birds 44-56 Boral truck movements <41 Boral reverse alarms <41 Boral tipping 47-56 |
| 08/06/2023 | Talbra 06:00 (Morning Shoulder) | gar Quarry 72 | / LAeq(1 | ōmin) Col 30 | ntribution WD: ENE WS: 2.9m/s Rain: Nil | WD: W WS: 0.2m/s Rain: Nil | (3 seconds) <41 Traffic 42-72 Livestock 30-32 Rooster 28-36 Boral inaudible |
| | Talbra | gar Quarŋ | / LAeq(1 | ōmin) 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.

Talbragar Quarry Environmental Monitoring Report – Noise

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.

| | | D | escriptor | r | | | |
|------------------------------|------------|-----------------|-----------|------------|------------|-------------------------|--------------------------|
| Date Tin | Time (hrs) | (dBA re 20 µPa) | | | Meteo | rology | Description and CDL alDA |
| Date | Time (nrs) | LAmax | LAeq | LA90 | - | | Description and SPL, dBA |
| | | | 2.104 | 2,00 | BoM 065070 | Operator | |
| | | | | | | | Wind in vegetation 42-48 |
| | | | | | | | Aircraft 43-61 |
| | | | | | | | Traffic 40-50 |
| | | | | | WD: S | WD: SW | Birds 41-51 |
| 11:16 21/09/2023 (Day) | 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(18 | ōmin) Cor | ntribution | | 35 |
| | | | | | | | Traffic 31-46 |
| | | | | | NID 005 | WD 05 | Birds 33-59 |
| _ / / | 06:42 | | | | WD: SSE | WD: SE | Boral trucks 36-49 |
| 2/09/2023 | (Morning | 59 | 43 | 35 | WS: 4.6m/s | WS: 0.5m/s | (2 minutes) |
| Shoulder | Shoulder) | oulder) | | | Rain: Nil | Rain: Nil | Reverse alarm 37 |
| | | | | | | | (15 seconds) |
| | Talbra | gar Quarry | / LAea(18 | 5min) Cor | ntribution | | 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.

| Time Date | | Descriptor (dBA re 20 µPa) | | | 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 |
| | Та | Ibragar Qu | uarry LAe | q(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 μl | Pa) | Meteo | rology | Description and SPL, dBA |
| | () | 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) | (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 |
| | Talbra | gar Quarry | / LAea(15 | imin) Cor | ntribution | | <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 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.

| | | D | escripto | r | | | |
|------------|-----------------------|-----------|-----------|-----------|------------|------------|--------------------------|
| 5. | T : (1) | (dBA | λ re 20 μ | Pa) | Meteo | rology | |
| Date | Time (hrs) | | | | • | | Description and SPL, dBA |
| | | LAmax | LAeq | LA90 | BoM 065070 | Operator | |
| | | | | | | | Traffic 41-59 |
| | | | | | | | Dogs barking 46-48 |
| | | | | | | | Birds 42-54 |
| | | | | | WD: SSW | WD: SE | Boral processing 38-41 |
| 21/09/2023 | 16:40 (Dec) | 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 Quarŋ | / LAeq(1 | ōmin) 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 | (Morning Shoulder) | 74 | -04 | 41 | Rain: Nil | Rain: Nil | Aircraft 45-65 |
| | Shoulder) | | | | rtain, mi | rain. Nii | Boral inaudible |
| | Talbra | gar Quarn | / LAeq(1 | ōmin) 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 | escripto | r | | | |
|------------|------------|------------|----------|-----------|------------|-------------|---------------------------|
| | | (dBA | re 20 µ | Pa) | Meteo | rology | Description and SPL, dBA |
| Date | Time (hrs) | | | 1.4.00 | • | | |
| | | LAmax | LAeq | LA90 | BoM 065070 | Operator | |
| | | | | | | | Wind in vegetation 39-48 |
| | | | | | | | Traffic 40-50 |
| | 17:43 | | | | WD: E | WD: E | Birds 40-58 |
| 08/02/2024 | (Day) | 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(1 | śmin) 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) |
| | Talbra | gar Quarry | LAeq(1 | śmin) Cor | ntribution | | 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 perioda.

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 | | | |
|------------|----------------|-----------------|-----------|-------------|--------------|------------|---------------------------|
| Date | Time | (dBA re 20 µPa) | | | Meteor | ology | |
| | (hrs) | LAmax | LAeq | LA90 | - | | Description and SPL, dBA |
| | | Loniax | | | BoM 065070 | Operator | - |
| | | | | | | | Traffic 43-60 |
| | | | | | | | Wind in vegetation 42-45 |
| | | | | | | | Birds 44-52 |
| | 11:54 (Day) | 60 | 45 | 42 | WD: E | WD: E | Offsite impact 45-48 |
| 08/02/2024 | | | | | 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) |
| | Та | lbragar Qu | Jarry LA | eq(15min) C | Contribution | | 42 |

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

Talbragar Quarry Environmental Monitoring Report – Noise

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 | |
| | | LAmax | LAea | LA90 | | | Description and SPL, dBA |
| | | | Lineq | | BoM 065070 | Operator | |
| | | | | | | | Wind in vegetation 42-47 |
| | | | | | | WD: E WS: 1.5m/s Rain: Nil | Birds 44-53 |
| | 12:12 (Day) | | 48 | 44 | WD: E | | Traffic 43-51 |
| 0.0000004 | | 67 | | | WD: E WS: 5.9m/s Rain: Nil | | Insects 41-44 |
| 08/02/2024 | | 67 | | | | | Industrial noise 44-48 |
| | | | | | | | Aircraft 45-67 |
| | | | | | | | Boral processing 41-45 |
| | | | | | | | (14 minutes) |
| | Talbra | gar Quarry | / LAeq(15 | imin) Cor | ntribution | | 43 |
| | | | | | | | Birds 42-60 |
| | 00.40 | | | | WD: ESE | 11/D. F | Industrial noise 39-42 |
| 09/02/2024 | 06:18 | 60 | | 20 | | WD: E | Traffic 38-40 |
| | (Morning | | 41 | 38 | WS: 5.1 m/s Rain: Nil | WS: 0.5m/s Rain: Nil | Dogs barking 38-39 |
| | Shoulder) | | | | rain: Nil | rain: Nil | Insects 36-38 |
| | | | | | | | Boral general noise <35 |
| | Talbra | gar Quarry | /LAeg(15 | imin) Cor | tribution | | <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**.

| | | D | escripto | r | | | |
|------------|-----------------------|-----------------|----------|----------|-----------------------|----------------------------------|--------------------------|
| Date | Time (hrs) | (dBA re 20 µPa) | | | Meteo | rology | Description and SPL, dBA |
| | | LAmax | LAeq | LA90 | BoM 065070 | Operator | |
| | | | | | 2011/000010 | operation | Wind in vegetation 39-45 |
| | | | | | | | Birds 44-53 |
| | 17:18 (Day) | | 53 | 42 | WD. 505 | | Traffic 43-68 |
| 08/02/2024 | | 68 | | | WD: ESE WS: 7.6m/s | WD: E WS: 3.5m/s Rain: Nil | Aircraft 41-50 |
| 08/02/2024 | | | | | Rain: Nil | | Livestock 46-55 |
| | | | | | rain, nii | Nain. Nii | Insects 39-68 |
| | | | | | | | Boral processing 35-42 |
| | | | | | | | (<4 minutes) |
| | Talbra | gar Quany | LAeq(1 | 5min) Co | ntribution | | 38 |
| | | | | | | | Birds 36-52 |
| | 06:00 | | | | WD: ESE | WD: SE | Traffic 37-69 |
| 9/02/2024 | (Morning | 69 | 50 | | WD: E3E WS: 4.1m/s | WS: 0.5m/s | Insects 35-38 |
| 13/02/2024 | (Morning Shoulder) | | 30 | 90 | Rain: Nil | Rain: Nil | Dogs barking 39-44 |
| | snoulder) | | | | rvant, Nil | rvairi, Ivii | Industrial noise 37-40 |
| | | | | | | | Boral inaudible |
| | Talbra | gar Quarry | LAeq(1 | 5min) Co | ntribution | | <28 |

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**.

| | | D | escripto | r | | | |
|------------|----------------|-----------------|----------|----------|-------------|----------------------------------|------------------------------|
| Date | _ | (dBA re 20 µPa) | | | Meteorology | | |
| | Time (hrs) | LAmax | LAeq | LA90 | | | Description and SPL, dBA |
| | | | | | BoM 065070 | Operator | |
| | | | | | | | Local residential noise 48-7 |
| 25/06/2024 | 14:50 (Day) | | | 44 | | WD: W WS: 3.5m/s Rain: Nil | Traffic 41-48 |
| | | 74 | 66 | | WD: NNW | | Birds 42-60 |
| | | | | | WD: NNW | | Dogs barking 60-64 |
| | | | | | Rain: Nil | | Residential generator 39-4 |
| | | | | | Nam, Nu | Rain: Nii | Boral processing 39-40 |
| | | | | | | | (4 minutes) |
| | | | | | | | Boral impact (3 Seconds) 4 |
| | Talbra | gar Quarry | y LAeq(1 | 5min) Co | ntribution | | 38 |
| | | | | | | | Birds 38-43 |
| | | | | | | | Traffic 31-55 |
| | 18:16 | | | | WD: NE | WD: N | Dogs barking 33-68 |
| 25/06/2024 | (Evening) | 68 | 45 | 36 | WS: 3.0m/s | WS: 0.5 m/s | Aircraft 38-51 |
| | | | | | Rain: Nil | Rain: Nil | Livestock 39-42 |
| | | | | | | | 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

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**.

| | | D | escripto | r | | | |
|------------|----------------|-----------------|----------|-----------|----------------------------------|----------------------------------|---------------------------|
| D-1- | _ | (dBA re 20 µPa) | | | Meteorology | | |
| Date | Time (hrs) | LAmax | LAeg | LA90 | - | | Description and SPL, dBA |
| | | LAvmax | LAeq | LA90 | BoM 065070 | Operator | |
| | | | | | | | Traffic 44-51 |
| | | 68 | | 44 | | WD: W WS: 4.0m/s Rain: Nil | Birds 45-68 |
| | 14:07 (Day) | | 50 | | WD: N WS: 6.5m/s Rain: Nil | | Aircraft 46-61 |
| | | | | | | | Wind in vegetation 43-60 |
| | | | | | | | Boral reverse alarm 45-47 |
| 25/06/2024 | | | | | | | (<30 seconds) |
| | | | | | | | Boral processing 40-46 |
| | | | | | | | (8 minutes) |
| | | | | | | | Boral impact 52-57 |
| | | | | | | | (3 seconds) |
| | Talbra | gar Quarry | / LAeq(1 | 5min) Cor | ntribution | | 43 |
| | | | | | WD: ENE | WD: N | Traffic 26-57 |
| 25/06/2024 | 18:51 | 67 | 42 | 22 | WD: ENE WS: 1.9m/s | WD: N WS: 0.4 m/s | Dogs barking 36-41 |
| 23/06/2024 | (Evening) | 67 | 43 | 32 | | | Aircraft 35-40 |
| | | | | | Rain: Nil | 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.

Talbragar Quarry Environmental Monitoring Report – Noise

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 µl | Pa) | Meteo | rology | Description and SPL, dBA | |
| Date | rime (nrs) | LAmax | LAeq | LA90 | BoM 065070 Operator | | - | |
| | | | | | | | Wind in vegetation 44-54 | |
| | | | | | | | Birds 46-57 | |
| | 13:48 (Day) | | | 45 | | WD: W WS: 3.5m/s Rain: Nil | Traffic 43-75 | |
| 25/06/2024 | | 75 | 53 | | WD: N WS: 5.1m/s | | Local residential noise 51-60 | |
| 25/06/2024 | | | | | Rain: Nil | | Aircraft 45-53 | |
| | | | | | Rain: Nii | | Boral processing <43 | |
| | | | | | | | (8 minutes) | |
| | | | | | | | Boral trucks 44 (1 minute) | |
| | Talbra | gar Quarry | LAeq(15 | imin) Cor | ntribution | | 43 | |
| | 18:35 | | | | WD: NE | WD: N | Traffic 28-54 Boral inaudible | |
| 25/06/2024 | (Evening) | 54 | 41 | 33 | WS: 2.4 m/s | WS: 0.4m/s | | |
| | (Evening) | | | | Rain: Nil | Rain: Nil | Boral maudible | |

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**.

| | | D | | | | | | |
|------------|----------------|-----------------|---------|-----------|---------------------|------------|--------------------------|--|
| Date | Time (hrs) | (dBA re 20 µPa) | | | Meteo | rology | Description and SPL, dBA | |
| | | LAmax | LAeq | LA90 | BoM 065070 Operator | | | |
| | | | | | | | Wind in vegetation 40-48 | |
| 25/06/2024 | | | | | | | Dogs Barking 44-64 | |
| | 14:25 (Day) | 73 | 51 | 44 | WD: NNW | WD: W | Traffic 40-73 | |
| | | | | | WS: 6.5m/s | WS: 4.0m/s | Aircraft 45-65 | |
| | | | | | Rain: Nil | Rain: Nil | Livestock 43-55 | |
| | | | | | | | Boral processing 39-41 | |
| | | | | | | | (10 min) | |
| | Talbra | gar Quarry | /LAeq(1 | imin) Cor | ntribution | | 41 | |
| | 10-00 | | | | WD: N | WD: N | Traffic 37-66 | |
| 25/06/2024 | 18:00 | 66 | 51 | 40 | WS: 3.5m/s | WS: 0.2m/s | Dogs barking 38-63 | |
| | (Evening) | | | | Rain: Nil | Rain: Nil | Boral inaudible | |
| | Talbra | <37 | | | | | | |

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) | dataOldCorrectReason forUpdatecorrected(sampledatadatadataUpdate/CorrectionPersondata | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |