



# WALLERAWANG QUARRY

## BLAST REPORT No: 39

|                  |                                |
|------------------|--------------------------------|
| Date             | 29 <sup>th</sup> February 2024 |
| Blast Contractor | Premier Drill & Blast          |
| Quarry Operator  | Walker Quarries                |

### Monitor Readings

|   |                  |                    |
|---|------------------|--------------------|
| 1 | Location         | Hwy Intersection   |
|   | Ground Vibration | 1.00 mm/sec        |
|   | Over Pressure    | 105.5 dB(L)        |
| 2 | Location         | Dam Wall           |
|   | Ground Vibration | 0.07 mm/sec        |
|   | Over Pressure    | 107.0 dB(L)        |
| 3 | Location         | Residence          |
|   | Ground Vibration | 0.93 mm/sec        |
|   | Over Pressure    | 97.5 dB(L)         |
| 4 | Location         | Dam Wall Residence |
|   | Ground Vibration | 0.81 mm/sec        |
|   | Over Pressure    | 108.4 dB(L)        |

In accordance with Condition 2.7 & 2.8 of DA 344-11-2001, the air-blast overpressure and ground vibration impact assessment criteria will be as presented in Tables 2.2 and 2.3.

**Table 2.2: Air blast overpressure impact assessment criteria**

|  |   |
|--|---|
| Air blast overpressure level (db (Lin Peak)) | Allowable exceedance  |
| 115  | 5% of the total number of blasts over a period of 12 months |
| 120  | 0%  |

*Note: The air blast overpressure values in Table 2.2 apply when the measurements are performed with equipment having a lower cut-off frequency of 2 Hz or less. If the instrumentation has a higher cut-off frequency a correction of 5 dB should be added to the measured value. Equipment with a lower cut-off frequency exceeding 10 Hz should not be used.*

**Table 2.3 Ground vibration impact assessment criteria**

|                               |   |
|-------------------------------|---|
| Peak particle velocity (mm/s) | Allowable exceedance  |
| 5                             | 5% of the total number of blasts over a period of 12 months |
| 10                            | 0%  |