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# Introduction

This document supplies the frequency analysis charts, noise summary results and the sound level meter setup photos for each monitoring event.

**Surveyor:** Dylan Morris **Approver:** Kenneth Goodwin

**Revision Issue Number:**  01 **Status:** Final

**Job Number:** E2343

# Calibration of Sound Level Meter

The Sound Level Meter (‘SLM’) was the

* NTI XL2 Audio Acoustic Hand-held Analyser SLM.

The SLM is Type 1 and equipped with Frequency Analysis Software.

The monitoring equipment was calibrated prior to and following the measurement period using a:

* Cirrus CR515 field calibrator (Serial Number 95601).

Broadband noise levels were measured using the A-weighted network, and a fast-sampling interval, unless otherwise stated.

Table 2‑1: Calibration of the Sound Level Meter

|  |  |
| --- | --- |
| **Parameter** | **Detail** |
| Project Name: | E2343 Noise Summary |
| Device Info: | XL2, SNo. A2A-18871-E0, FW4.21 Type Approved |
| Mic Type: | NTi Audio M2230, SNo. 8112 |
| Mic Sensitivity: | 42.7 mV/Pa, User calibrated 2024-11-27 11:18 |

# Noise Survey Summary

**Surveyor:** Dylan Morris **Survey Date:** 27th November 2024

**TN Issue Date:** 7 January 2025 **Survey Period:** 11:23 to 16:17.

**Scope:** This survey was undertaken to obtain baseline acoustic conditions in the vicinity of the Murren’s Quarry. The summary noise results are presented in Table 3-1 below. A map of the noise monitoring locations is presented in Figure 3-1 below.

Table 3‑1: Summary Noise Survey Results 27/11/2024

| **Type** | **Start** | **Elapsed Time (hh:mm:ss)** | **LAeq [dB]** | **L90.0% [dB]** | **L10.0% [dB]** | **LAFmax [dB]** | **Commentary** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| NM1 R1 | 27/11/2024 11:23 | 00:30:00 | 40 | 32 | 43 | 57 | Dominant: Birdsong.  Faint off-site noise (W). Some site noise from trucks passing SLM while passing office |
| NM1 R2 | 27/11/2024 11:55 | 00:30:00 | 38 | 32 | 41 | 56 | Dominant: Birdsong.  Faint off-site noise (W). Some site noise from trucks passing SLM while passing office |
| NM2 R1 | 27/11/2024 12:32 | 00:30:00 | 55 | 35 | 55 | 77 | Dominant: Traffic on R195. Occasional site reversing alarms (W) |
| NM2 R2 | 27/11/2024 13:03 | 00:30:00 | 56 | 36 | 57 | 82 | Dominant: Traffic on R195. Occasional site reversing alarms (W) |
| NM3 R1 | 27/11/2024 15:16 | 00:30:00 | 66 | 38 | 63 | 88 | Dominant: Traffic on R195.  Off-site Reversing alarms (W). Repetitive hammering and reversing alarms at farmyard property (S). |
| NM3 R2 | 27/11/2024 15:47 | 00:30:00 | 68 | 41 | 69 | 88 | Dominant: Traffic on R195. Site Reversing alarms (W). Repetitive hammering and reversing alarms at farmyard property (S). |
| NM4 R1 | 27/11/2024 14:06 | 00:30:00 | 55 | 30 | 42 | 85 | Dominant: Traffic on nearby road.  Reversing alarms on multiple occasions off-site (NW) |
| NM4 R2 | 27/11/2024 14:37 | 00:30:00 | 57 | 29 | 46 | 88 | Dominant: Traffic on nearby road.  Reversing alarms on multiple occasions off-site (NW) |

Figure 3‑1: Noise Monitoring Locations

An aerial view of a land

Description automatically generated

# Noise Monitoring Locations 1/3 Octave Charts

## NM1 North of Quarry

Plate 1: NM1 Location

A camera on a tripod

Description automatically generated

Chart 1: NM1 Run 1 1/3 Octave Frequency Analysis



Chart 2: NM1 Run 2 1/3 Octave Frequency Analysis



## NM2 East of Quarry roadside Entrance

Plate 2: NM2 Location

A camera on a tripod on a road

Description automatically generated

Chart 3: NM2 Run 1 1/3 Octave Frequency Analysis



Chart 4: NM2 Run 2 1/3 Octave Frequency Analysis



## NM3 Southeast of Quarry

Plate 3: NM3 Location

A camera on a tripod next to a road

Description automatically generated

Chart 5: NM3 Run 1 1/3 Octave Frequency Analysis



Chart 6: NM3 Run 2 1/3 Octave Frequency Analysis



## NM4 Southwest of Quarry

Plate 4: NM4 Location

A camera on a tripod

Description automatically generated

Chart 7: NM4 Run 1 1/3 Octave Frequency Analysis



Chart 8: NM4 Run 2 1/3 Octave Frequency Analysis

