SDCC Rathcoole Housing Development

Volume 2 of the Environmental Impact Assessment Report (EIAR)
Appendix 11.1 Noise and Vibration

South Dublin County Council (SDCC)

October 2026

Quality information

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Revision History

Revision	Revision date	Details	Authorized	Name	Position
0	07/09/2026	Final	N	Richard O'Callaghan	Project Director

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NVM
ENVIRONMENTAL & STRUCTURAL MONITORING

Unit 13, Boyne Business Park,
Termon Abbey,
Drogheda, Co. Louth.
A92 R625

Rathcoole
June 2025

For

AECOM,

12 Regan Way,

Beeston,

Nottingham,

United Kingdom

ENVIRONMENTAL & STRUCTURAL MONITORING

Unit 13, Boyne Business Park,
Termon Abbey,
Drogheda, Co. Louth.
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ENVIRONMENTAL & STRUCTURAL MONITORING

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1. Introduction

AECOM have engaged NVM Limited to conduct a baseline noise assessment at predetermined monitoring locations within the vicinity of Rathcoole Public Park.

The survey is to assist in the pre-construction planning and environmental noise measurement assessment of the planned works.

2. Weather Conditions

The weather data in Table 2 are extracted from the Met Eireann website at the closest meteorological station to the WWTP, which is Casement. There was no rain fall, and a persistent breeze was noted during the monitoring periods.

DATE	RAINFALL (mm)	Max Temp (°C)	Min Temp (°C)	Mean Wind Speed	
				Knots	m/s
26/06/2025	4.0	18.5	12.2	12.7	6.53
26/09/2024	-	23	13.9	16.7	8.59

Table 1 – Weather report Met Éireann.

3. Monitoring locations

Noise Monitoring Location Reference	Location Co-ordinates
L1	53.280450671330755, -6.461898105160863
L2	53.28108573763789, -6.4592474606915085
L3	53.28221284837147, -6.45475986724784
L4	53.28071757927985, -6.454344020174399
L5	53.27800472624754, -6.458292702343253
L6	53.2796878845603, -6.461112578783878

Table 2 – Monitoring locations

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Fig 1. Site Overview ref: google earth.

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4. Instrumentation

Measurements were completed using one Svantek 977 Sound Level Meters. The details are listed in Table 3. The sound level meter was attached to a tripod ≥ 1.5metres from the ground and was fitted with windshields suitable for environmental noise monitoring. Each measurement logged the data every 100 milliseconds.

Manufacturer	Instrument Type	Calibrate by	Calibrate date
Svantek	Sound Level Meter Svantek 977	*AcSoft*	*10/02/2025*
Svantek	*Svantek Acoustic Calibrator SV 36 S/N*	*AcSoft*	*05/11/2024*

Table 3: Instrumentation Details

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5. Site Notes

L1 - 53.280450671330755, -6.461898105160863

Noise of a natural source from wildlife within the park and wind passing through tress was accompanied with predominantly anthropological sounds – related to traffic on the N7 road which could be heard in lulls of wind. There was no precipitation during the measurements with a constant breeze being present.



Fig 2. Site Overview ref L1

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L2 - 53.28108573763789, -6.4592474606915085

Noise of a natural source from wildlife within the park and wind passing through tress was accompanied with predominantly anthropological sounds – related to traffic on the N7 road which could be heard in lulls of wind. There was no precipitation during the measurements with a constant breeze being present. During the 3rd daytime reading, a member of the park maintenance team was using a leaf blower within the park boundary.



Fig 3. Site Overview ref L2

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L3 - 53.28221284837147, -6.45475986724784

Noise of a natural source from wildlife within the park and wind passing through tress was accompanied with predominantly anthropological sounds – related to traffic on the N7 road which could be heard in lulls of wind. There was no precipitation during the measurements with a constant breeze being present.



Fig 4. Site Overview ref L3

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L4 - 53.28071757927985, -6.454344020174399

Noise of a natural source from wildlife within the park and wind passing through tress was accompanied with predominantly anthropological sounds – related to traffic on the N7 road which could be heard in lulls of wind. There was no precipitation during the measurements with a constant breeze being present. During the second daytime measurement, between the times of 13:43 – 13:55hrs, a grinder was in operation on occasion on the neighbouring workshop.



Fig 5. Site Overview ref L4

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L5 - 53.27800472624754, -6.458292702343253

Noise of a natural source from wildlife within the park and wind passing through tress was accompanied with predominantly anthropological sounds – related to traffic on the N7 road which could be heard in lulls of wind. There was no precipitation during the measurements with a constant breeze being present. During the second daytime measurement, multiple dog walkers passed the measurement location.



Fig 6. Site Overview ref L5

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L6 – 53.2796878845603, -6.461112578783878

Noise of a natural source from wildlife within the park and wind passing through tress was accompanied with predominantly anthropological sounds – related to traffic on the N7 road which could be heard in lulls of wind. There was no precipitation during the measurements with a constant breeze being present. During the final nighttime measurement, the sound level meter was blown over due to an excessive wind gust and caused the meter to turn off. The sound level meter was recalibrated, and the measurement was restarted. The final result is a combination of the two measurements.



Fig 7. Site Overview ref L6

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Appendix 1: Calibration Certificates

CALIBRATION CERTIFICATE

AcSoft Noise • Vibration • Air Quality

Issued By AcSoft Limited Calibration Laboratory

Date Of Issue: 10-02-2025 **Certificate No:** 1510981-1

Calibrated By: W. Jay

Approved By: W. Jay

CUSTOMER

NVM Ireland Ltd
1st Floor,
Unit 13
Boyne Business Park
Drogheda
Co Louth
Ireland

INSTRUMENT DETAILS

Manufacturer:	SVANTEK
Model:	SV977
Serial No.:	36167
Firmware Version:	1.41.1
Description:	Sound Level Meter
Performance Class:	1

Type Approved to IEC 61672-1:2013: No
(If Yes, there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2013)

SENSOR DETAILS

Manufacturer:	ACO	SVANTEK
Model:	7052E	SV12L
Serial No.:	49533	25668
Description:	Microphone	Preamplifier

P/O NUMBER 1601
DATE RECEIVED 07-02-2025
DATE CALIBRATED 10-02-2025

CALIBRATION RESULTS

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 cover only a limited subset of the specifications in IEC 61672-1:2013.

REPORTED RESULTS

The results contained in this Certificate refer only to the measurements made at the time of test for the instrument detailed above. These results do not reflect the instrument's ability to maintain calibration.

This calibration was performed by AcSoft Ltd, 11 Abbey Court, Fraser Road,
Priory Business Park, Bedford, MK44 3WH
T: 01234 639550 W: www.acsoft.co.uk E: sales@acsoft.co.uk

(AP 17/05/2024 Issue No. 5)