



APPENDIX 9-1

**SURVEY DETAILS, EQUIPMENT
SPECIFICATIONS & WEATHER
CONDITIONS**

Appendix 9.1: Survey details

Project	
Project ref.	225
Client	McCarthy Keville O'Sullivan
Location	Proposed residential development Coosan Road Athlone
Stations	Onsite: N1 N2 Offsite: N3
Microphone positions	Free field 1.5 m above ground level
Time	0700-1430
Purpose	Ambient survey
Operator	Damian Brosnan BSc MSc MIOA MIEI
Standard	ISO 1996 (2016 & 2017)
Field calibrator	Bruel & Kjaer Type 4231 Serial 2342544 Laboratory verification 16.01.18 by Sonitus Systems
Weather	
Cloud cover	Initially 100 %, clearing to 0 % from 1000
Precipitation	0 mm
Temperature	9 rising to 11 °C
Wind direction	SW
Wind speed	1-3 m/s
Wind measurement	Anemo anemometer 2 m above ground level
Instrument 1	
Stations used	N3
Instrument	NTi XL2 ('x14') IEC 61672-1:2013 Class 1
SLM serial	A2A-15429-E0
Microphone serial	A16329 + pre-amp 7945
Range	20-120 dB
Intervals	Logging at 1 s with audio Relevant intervals extracted
Time weighting	Fast
Frequency weighting	Broadband: A+C Spectrum: Z

Lab. verification	13.12.18 by NTi Compliance certificate available on request
Field calibration	@ mV/Pa
Post survey drift	93.9 dB
Instrument 2	
Stations used	N1
Instrument	Bruel & Kjaer Type 2250 IEC 61672-1:2013 Class 1
SLM serial	2506594
Microphone serial	2529531
Range	0-140 dB
Intervals	Logging at 1 min Relevant intervals extracted
Time weighting	Fast
Frequency weighting	Broadband: A+C Spectrum: Z
Lab. verification	16.01.18 by Sonitus Systems Compliance certificate available on request
Field calibration	14.02.19 0641 @ 47.6 mV/Pa
Post survey drift	93.9 dB
Instrument 3	
Stations used	N2
Instrument	Bruel & Kjaer Type 2250-L IEC 61672-1:2013 Class 1
SLM serial	2566801
Microphone serial	2571655
Range	0-140 dB
Intervals	Logging at 1 min Relevant intervals extracted
Time weighting	Fast
Frequency weighting	Broadband: A+C Spectrum: Z
Lab. verification	16.01.18 by Sonitus Systems Compliance certificate available on request
Field calibration	14.02.19 0642 @ 43.3 mV/Pa
Post survey drift	93.9 dB