



REPORT 160095R1

Revision 0

Patrick Port Botany Terminal
Biannual Environmental
Noise Compliance Monitoring
May 2018

PREPARED FOR:
Patrick Port Botany Terminal
PO Box 197
Botany NSW 1455

29 May 2018



Patrick Port Botany Terminal Biannual Environmental Noise Compliance Monitoring May 2018

PREPARED BY:

Rodney Stevens Acoustics Pty Ltd
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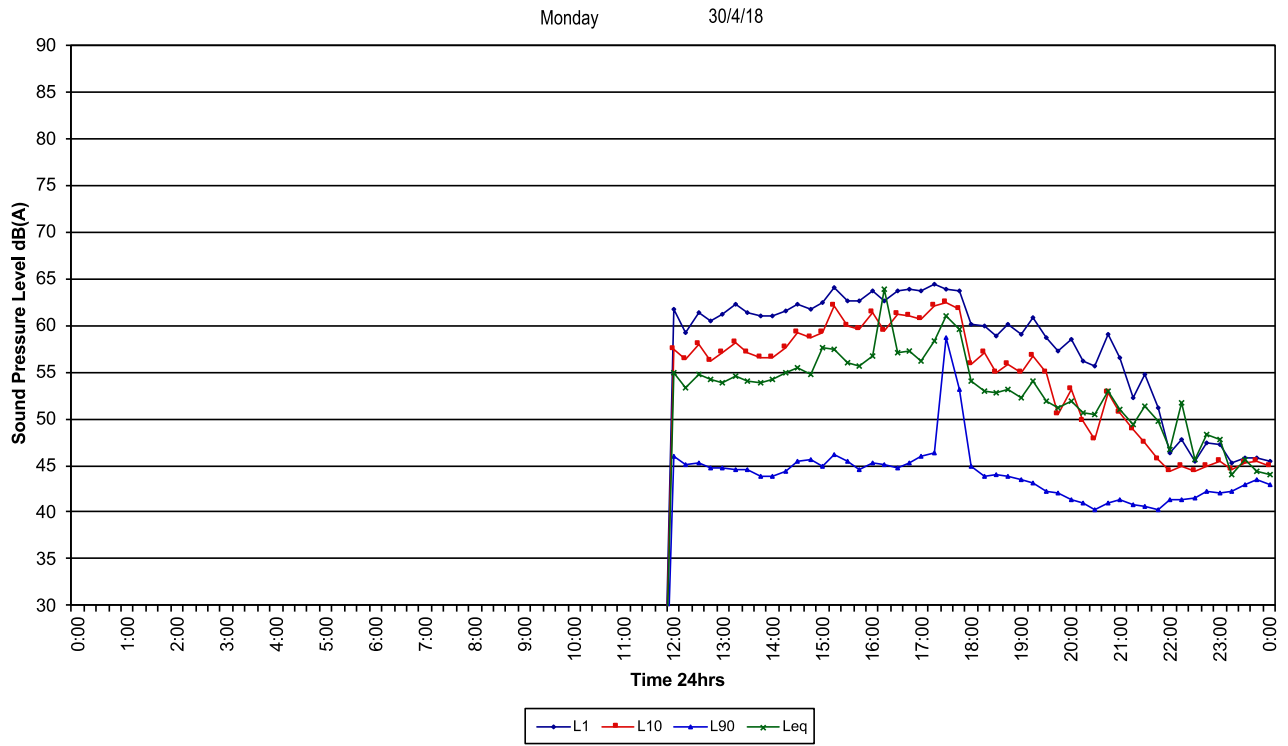
DOCUMENT CONTROL

Reference	Status	Date	Prepared	Checked	Authorised
160095R1	Revision 0	29 May 2018	Thomas Carney	Desmond Raymond	Rodney Stevens

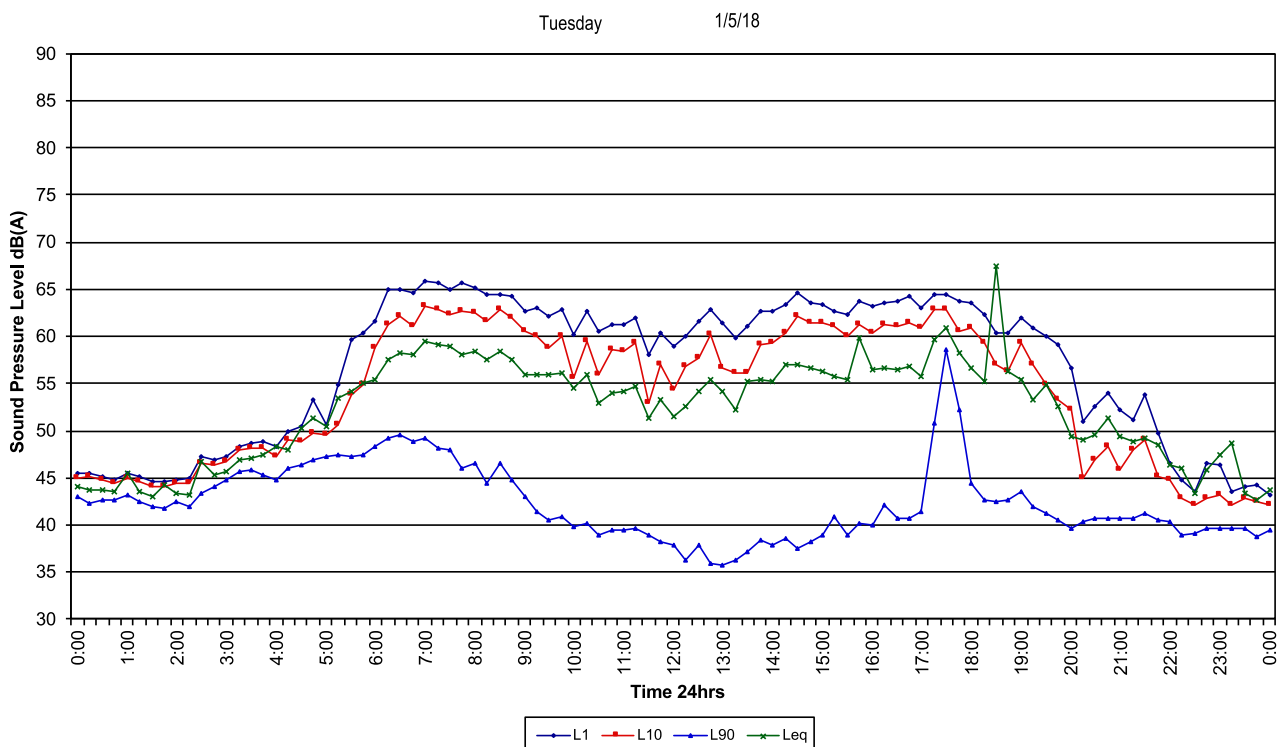


Appendix F – Unattended Logger Results – Jennings Street

46 Jennings St, Matraville



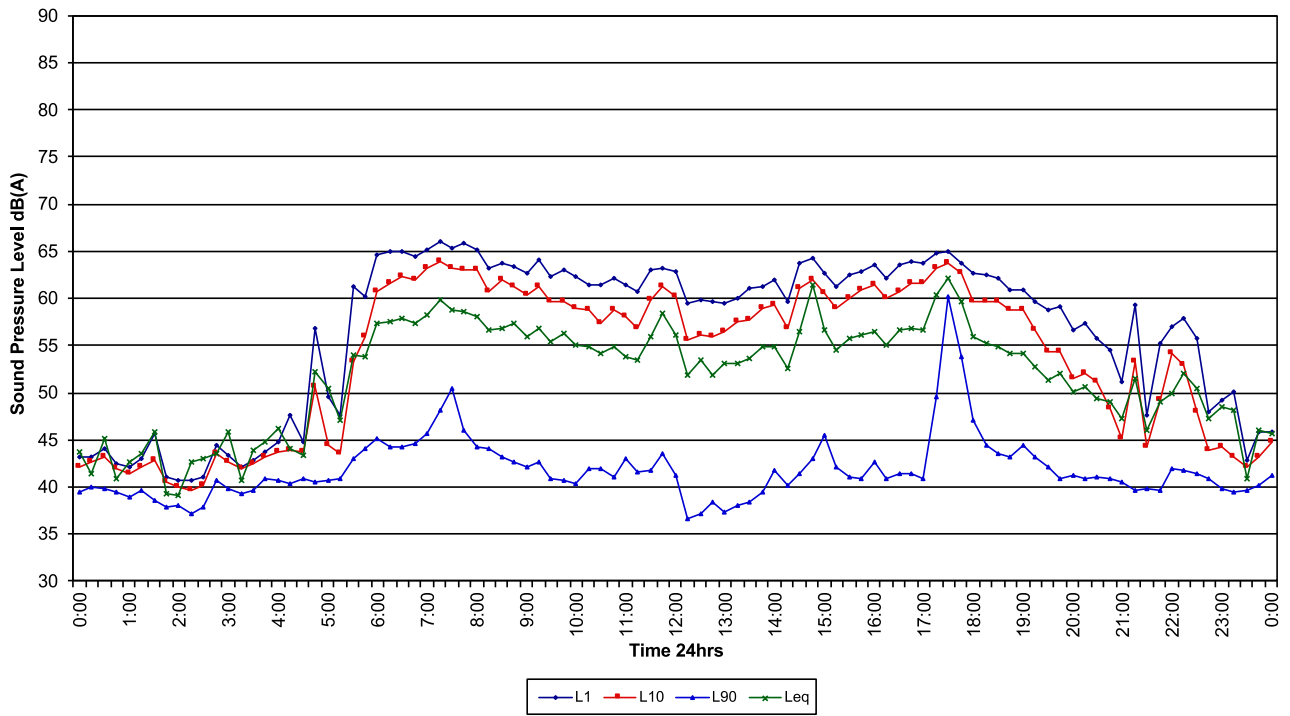
46 Jennings St, Matraville





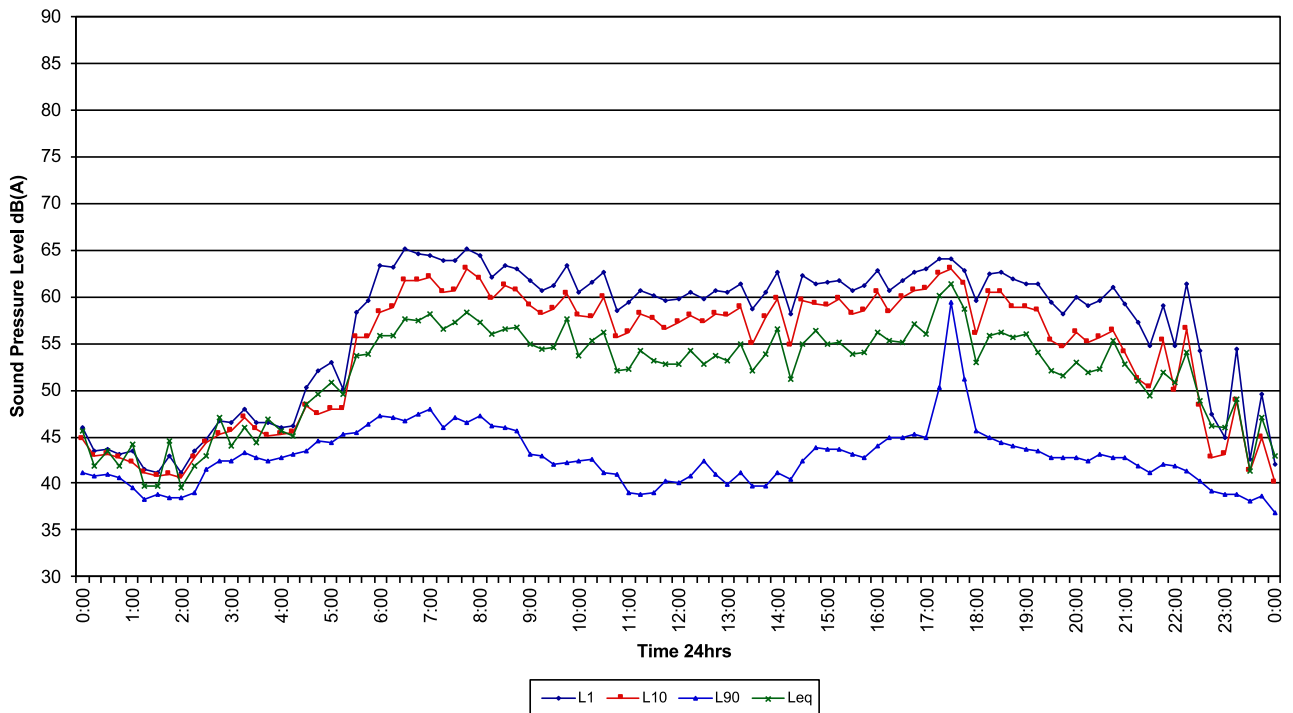
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Wednesday 2/5/18



46 Jennings St, Matraville

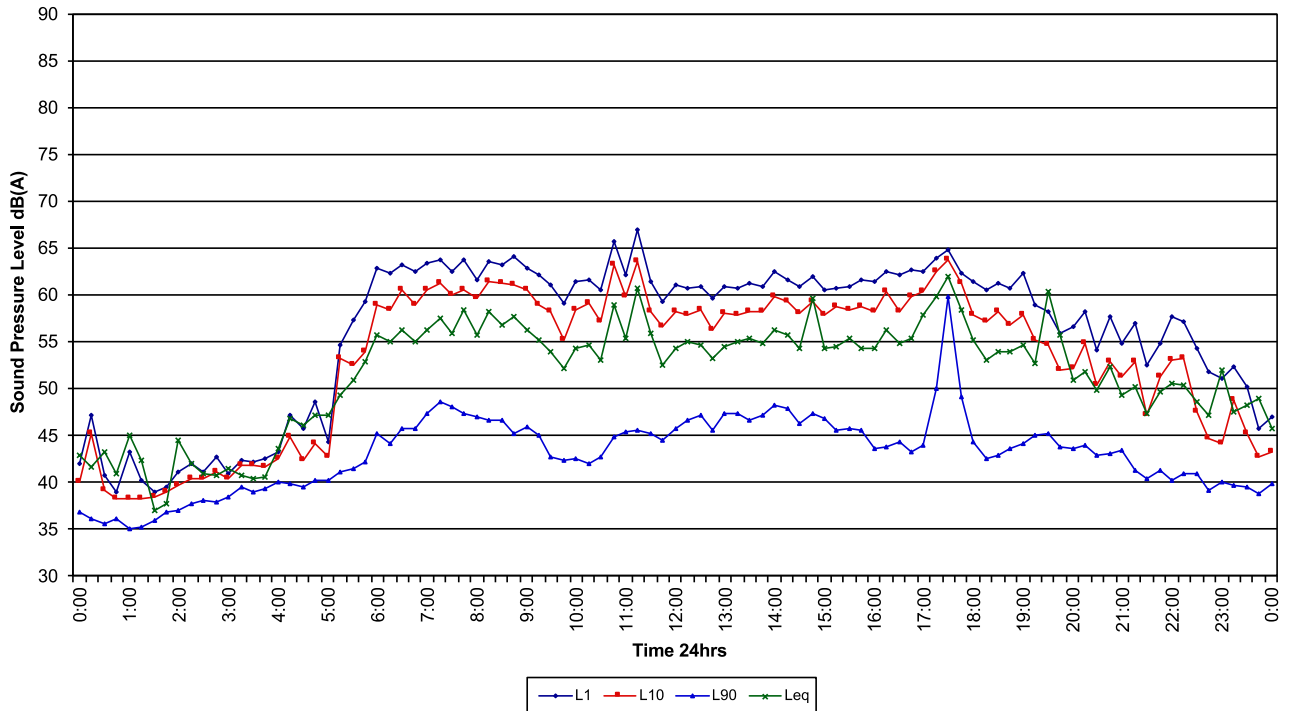
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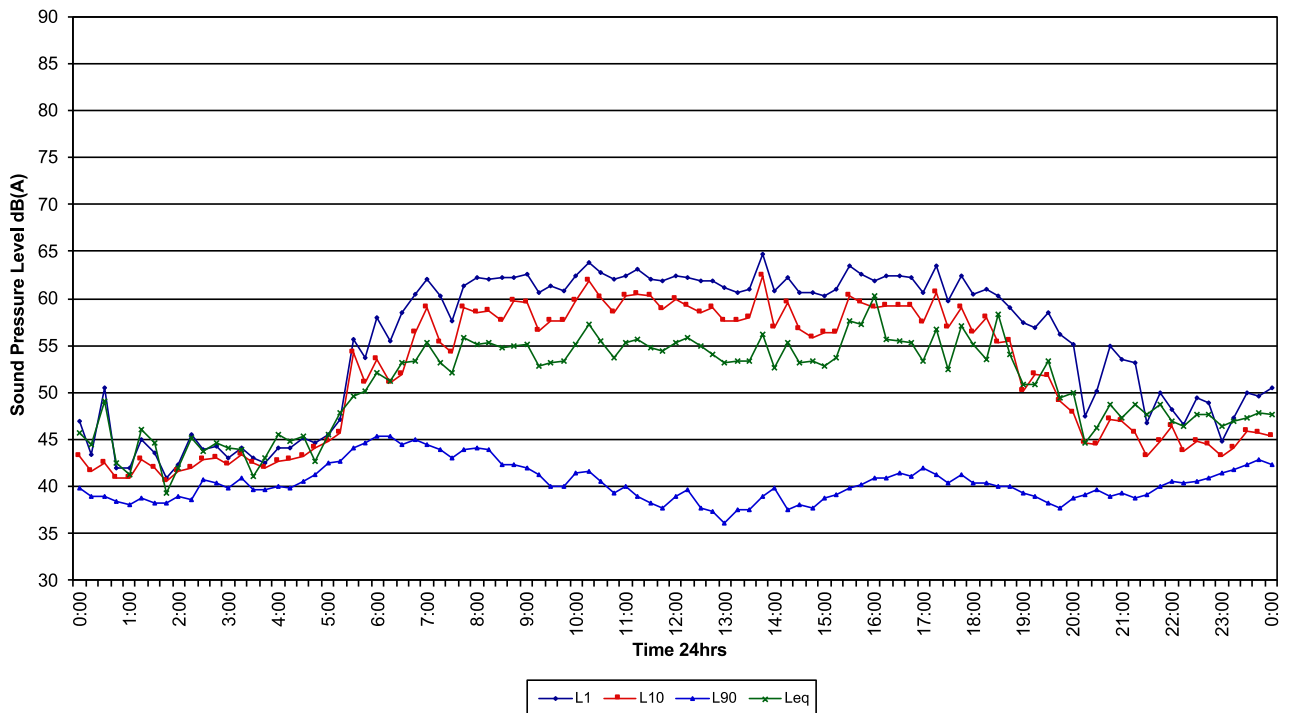
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Friday 4/5/18



46 Jennings St, Matraville

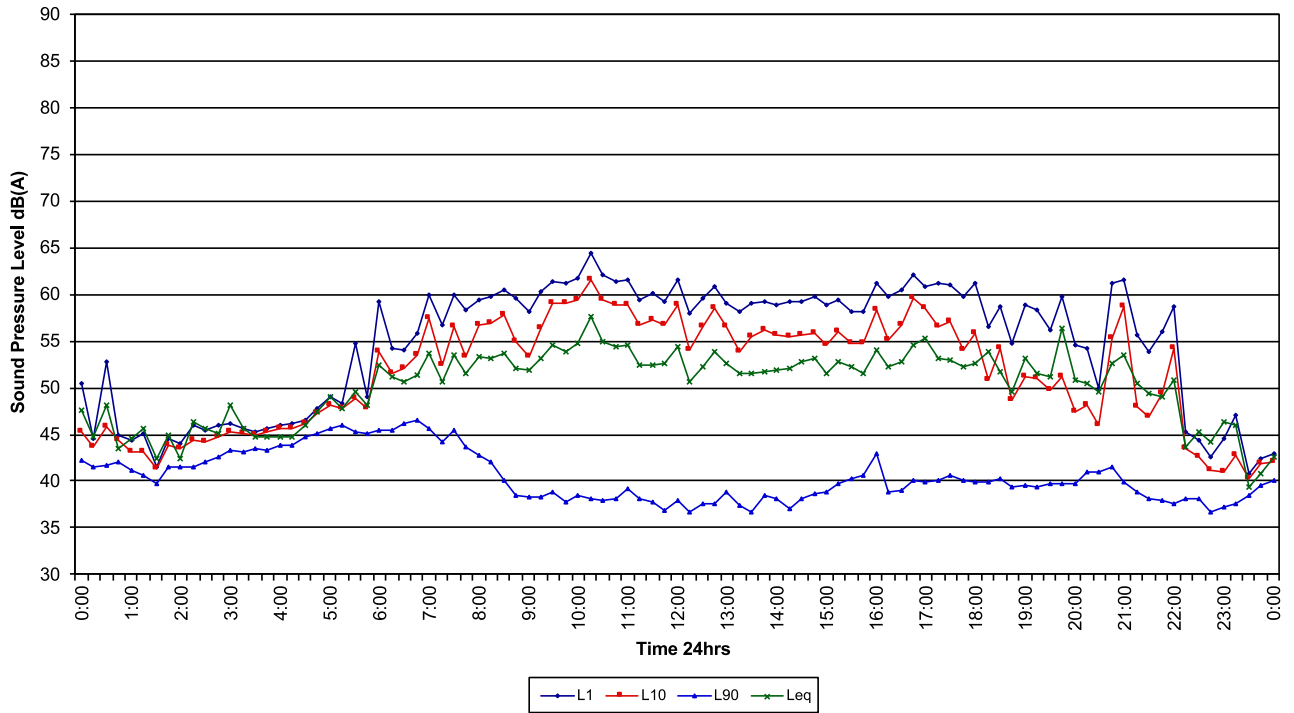
Saturday 5/5/18





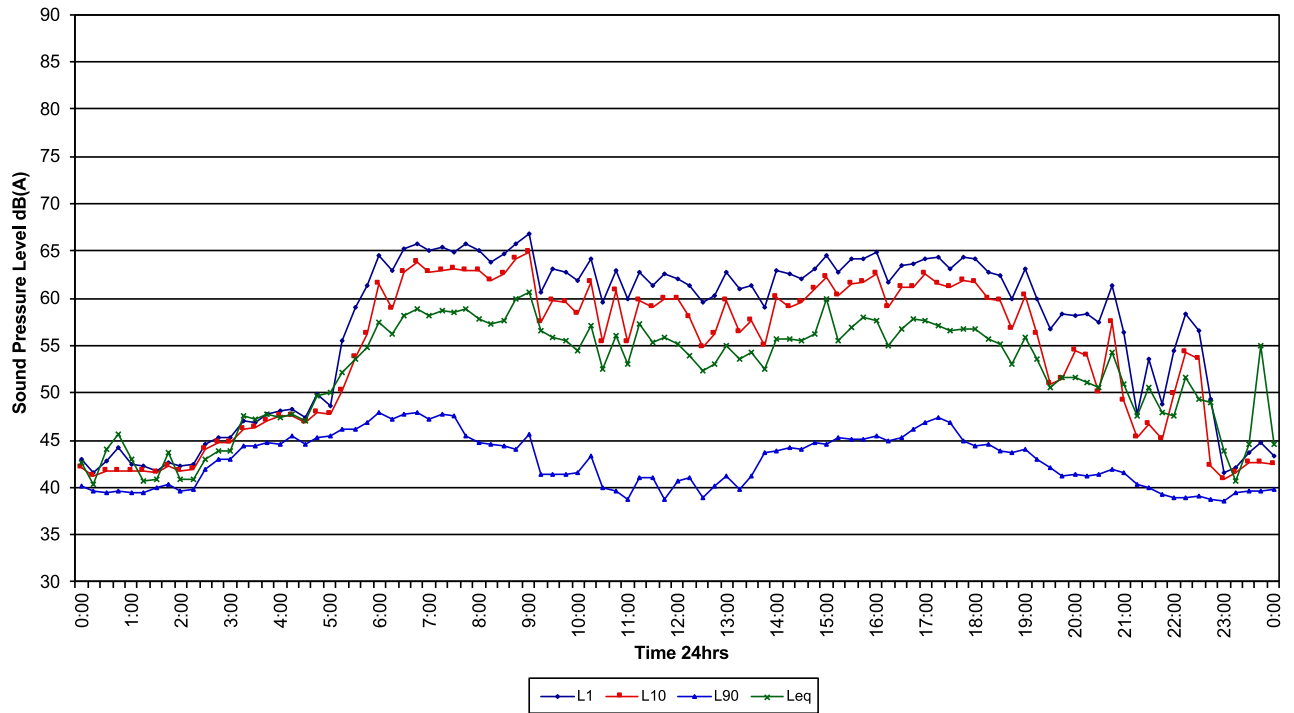
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Sunday 6/5/18



46 Jennings St, Matraville

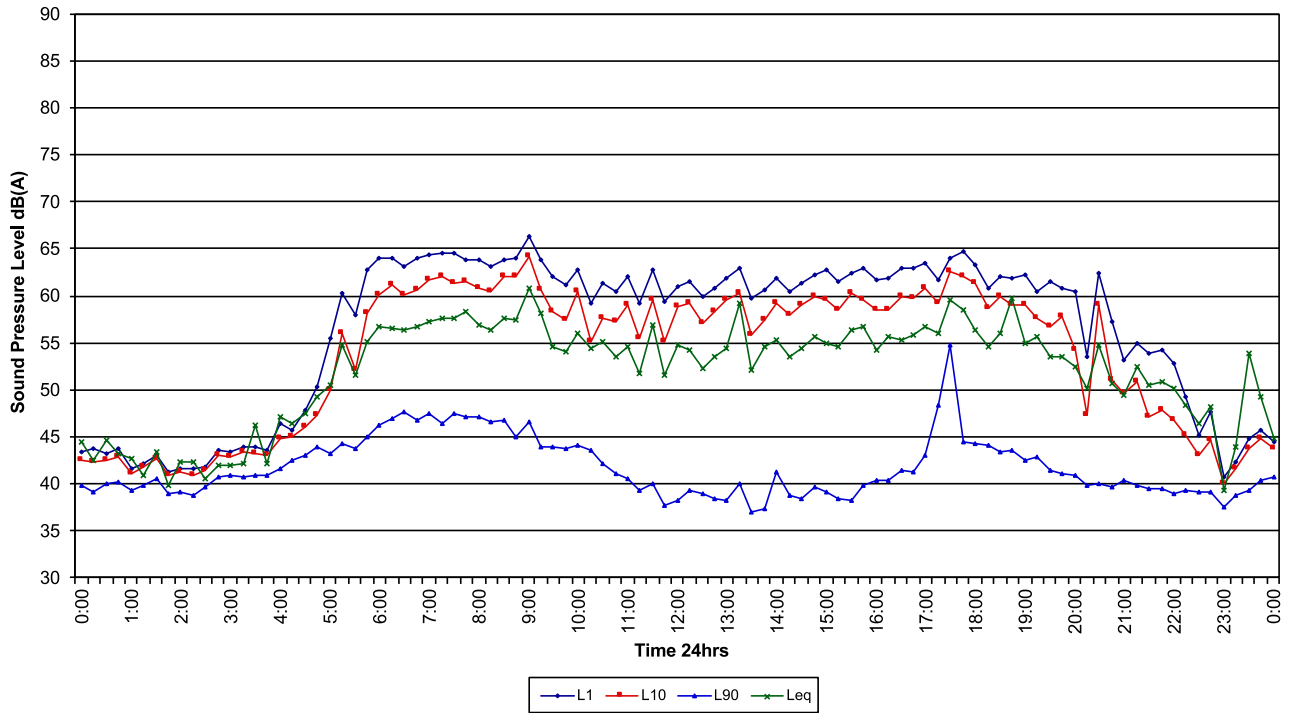
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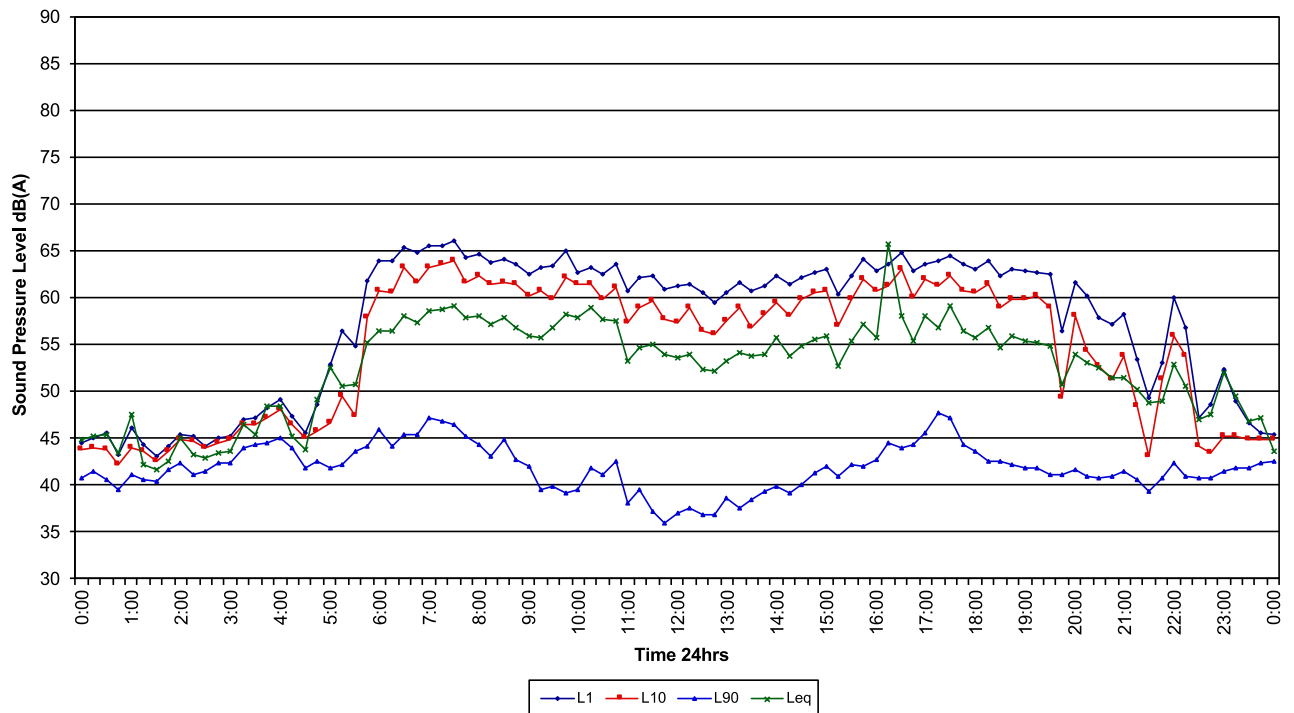
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Tuesday 8/5/18



46 Jennings St, Matraville

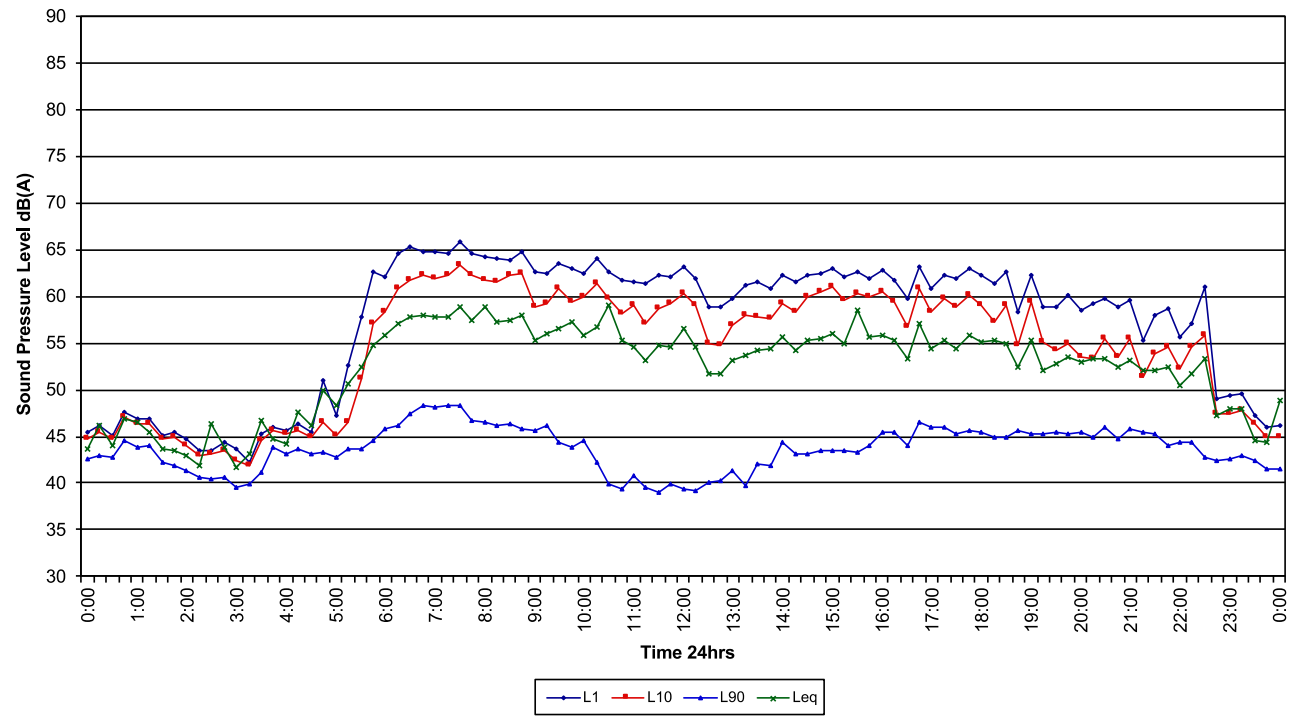
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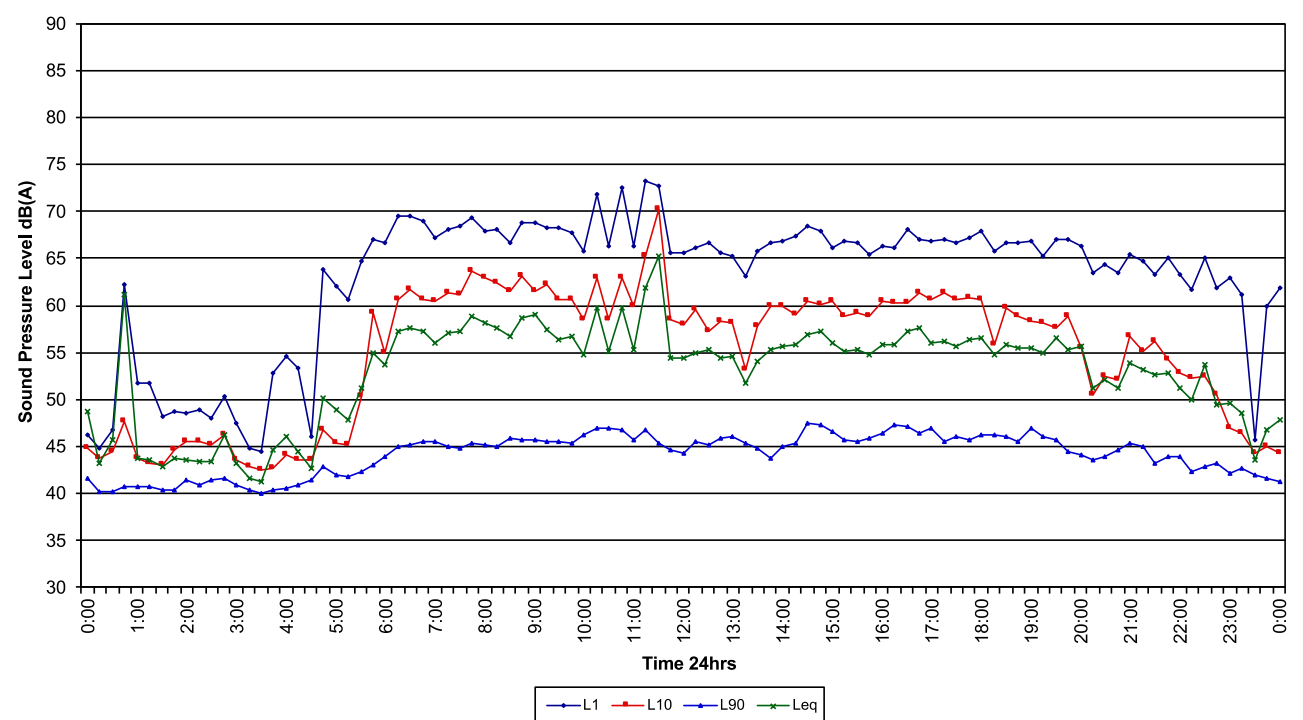
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Thursday 10/5/18



46 Jennings St, Matraville

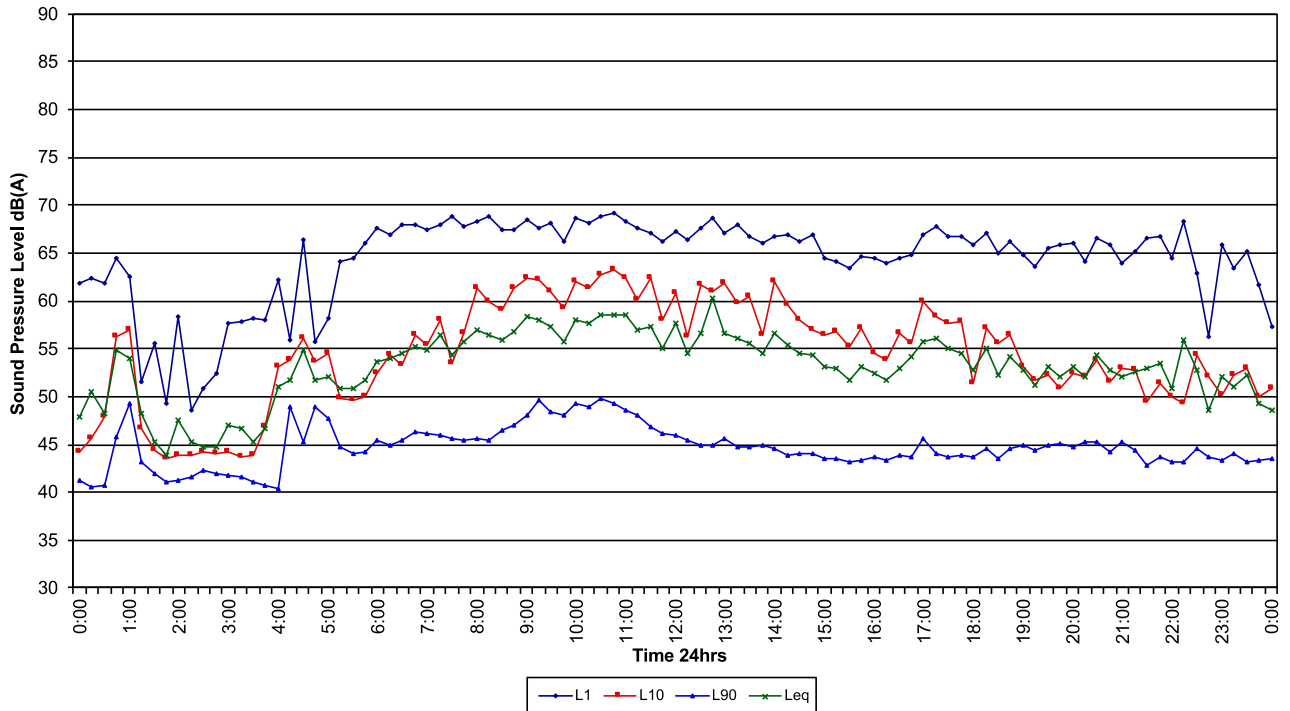
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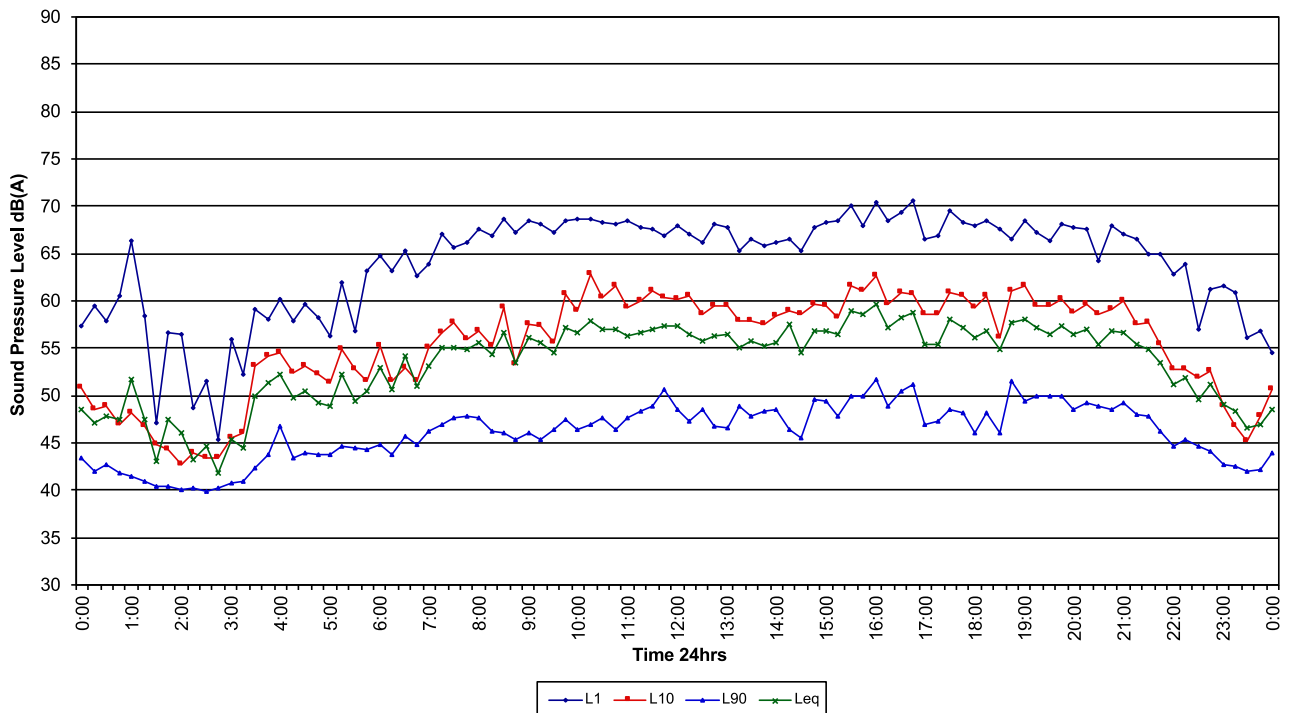
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Saturday 12/5/18



46 Jennings St, Matraville

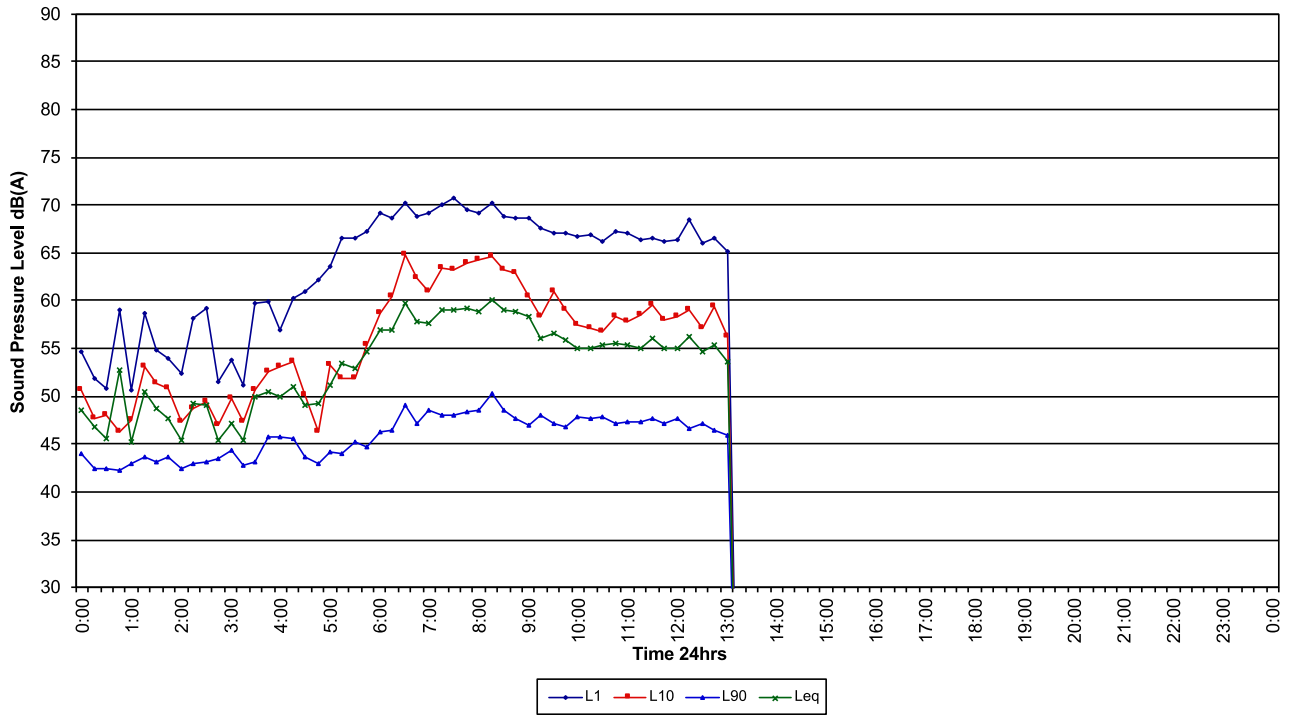
Sunday 13/5/18





46 Jennings St, Matraville

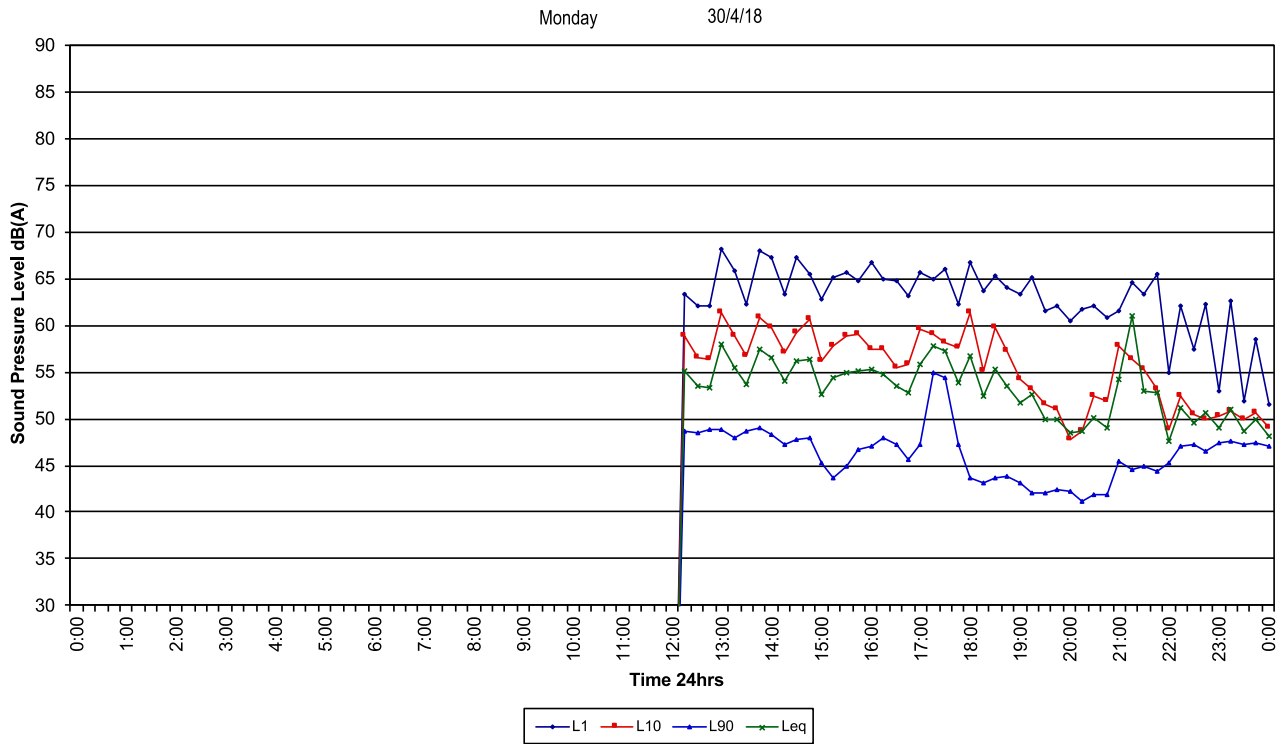
Monday 14/5/18



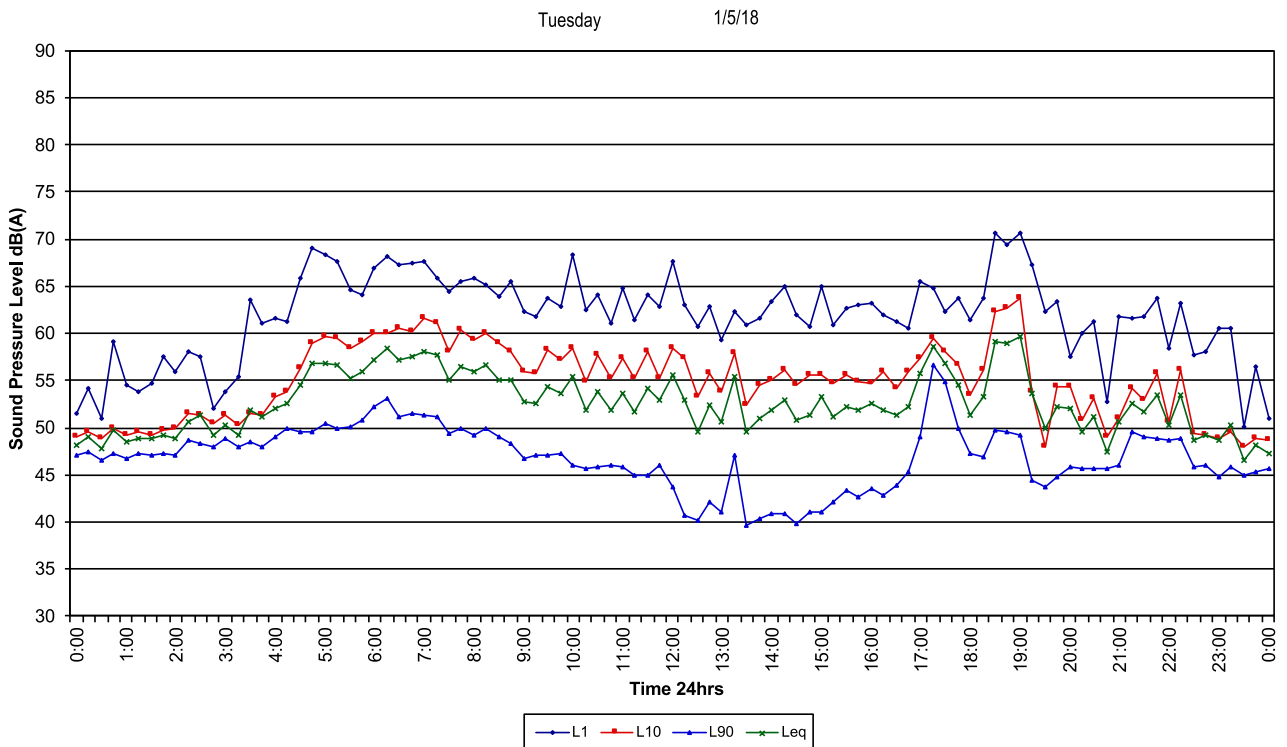


Appendix G – Unattended Logger Results – Military Road

Military Road, Matraville



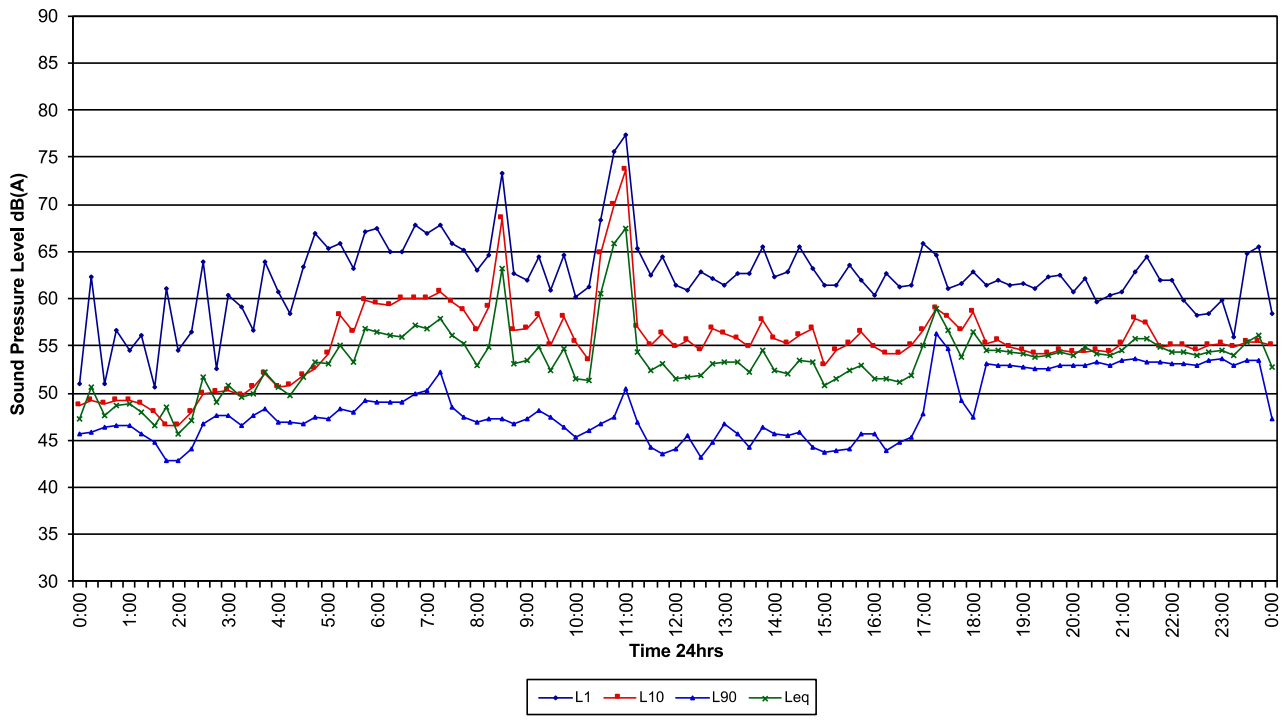
Military Road, Matraville





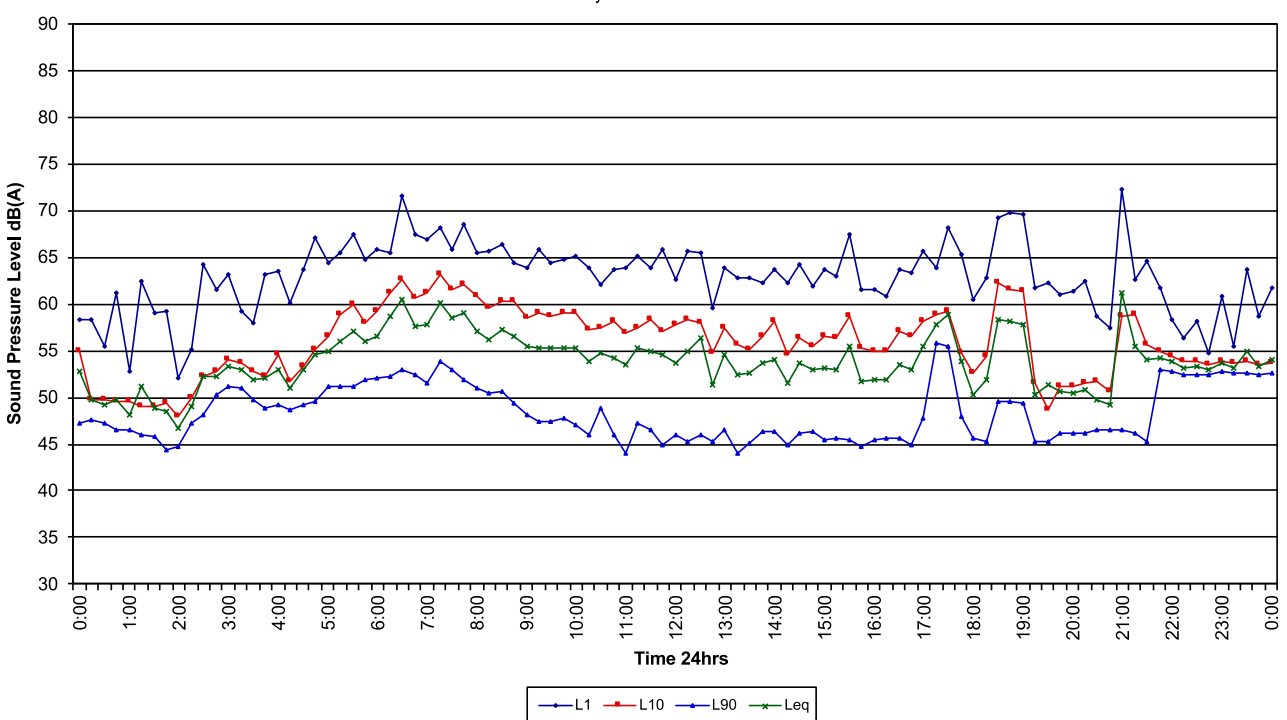
Military Road, Matraville

Wednesday 2/5/18



Military Road, Matraville

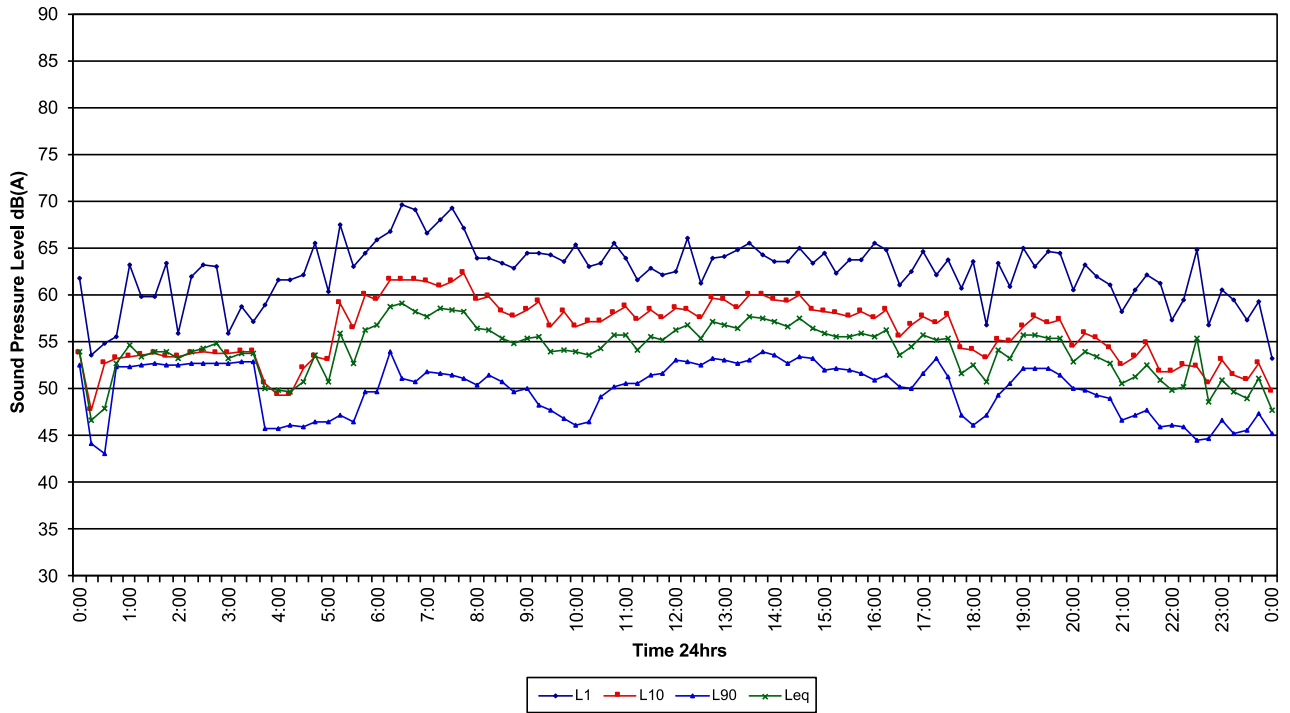
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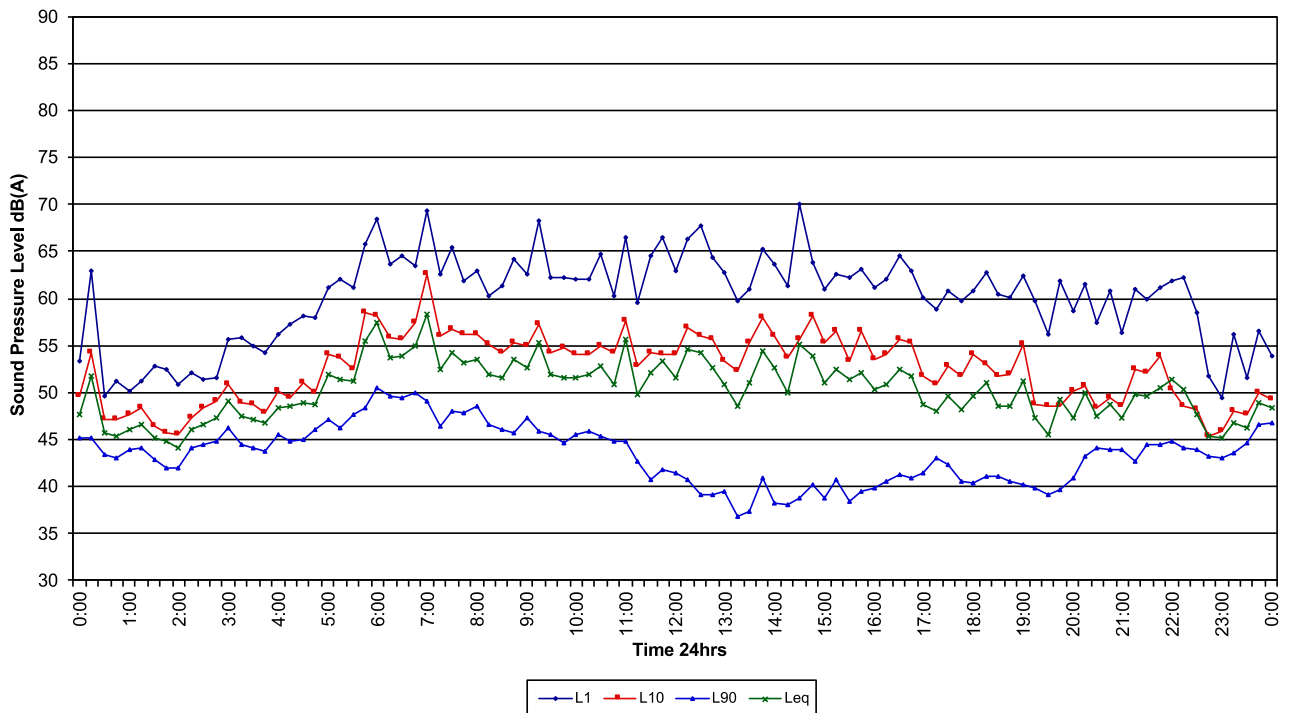
Military Road, Matraville

Friday 4/5/18



Military Road, Matraville

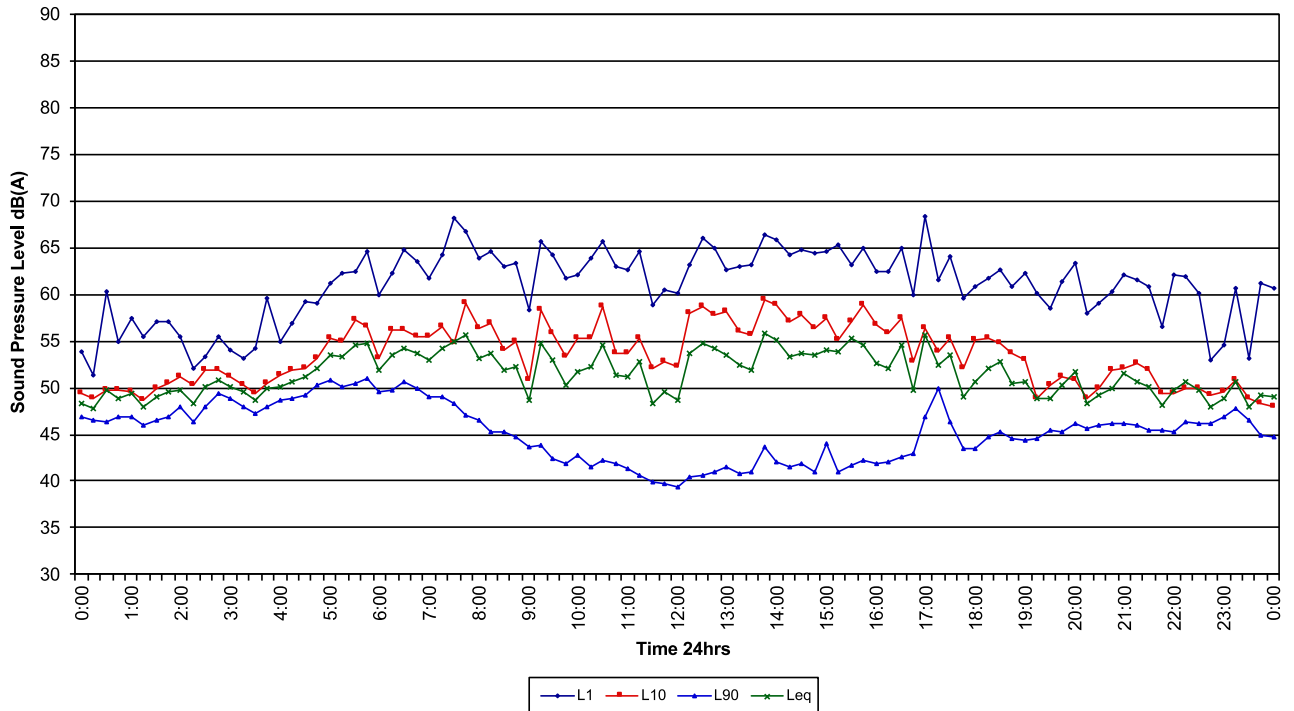
Saturday 5/5/18





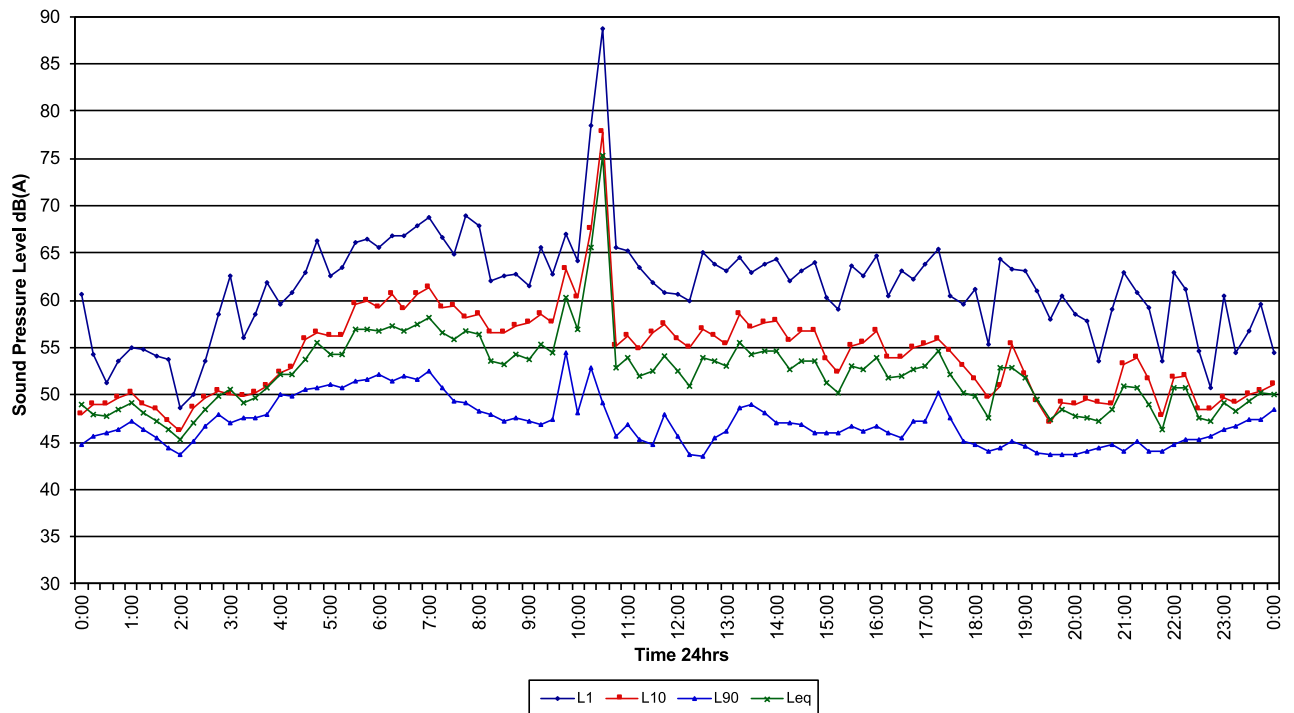
Military Road, Matraville

Sunday 6/5/18



Military Road, Matraville

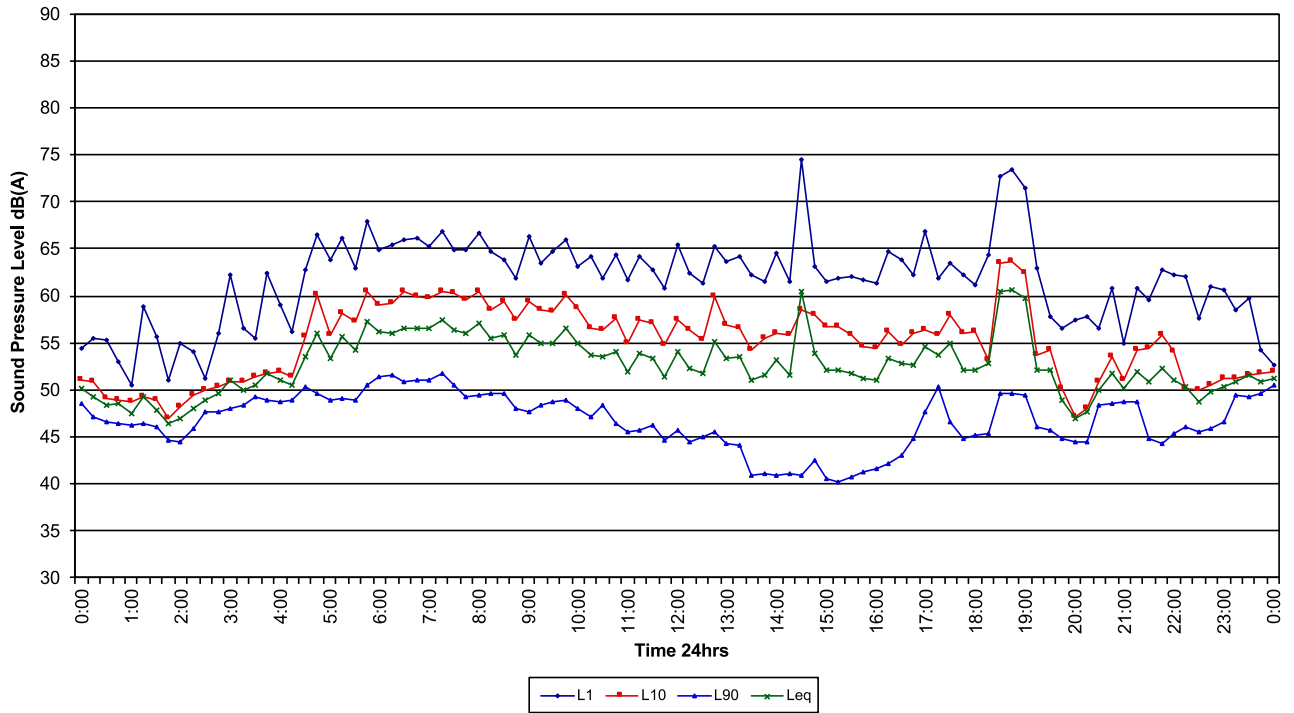
Monday 7/5/18





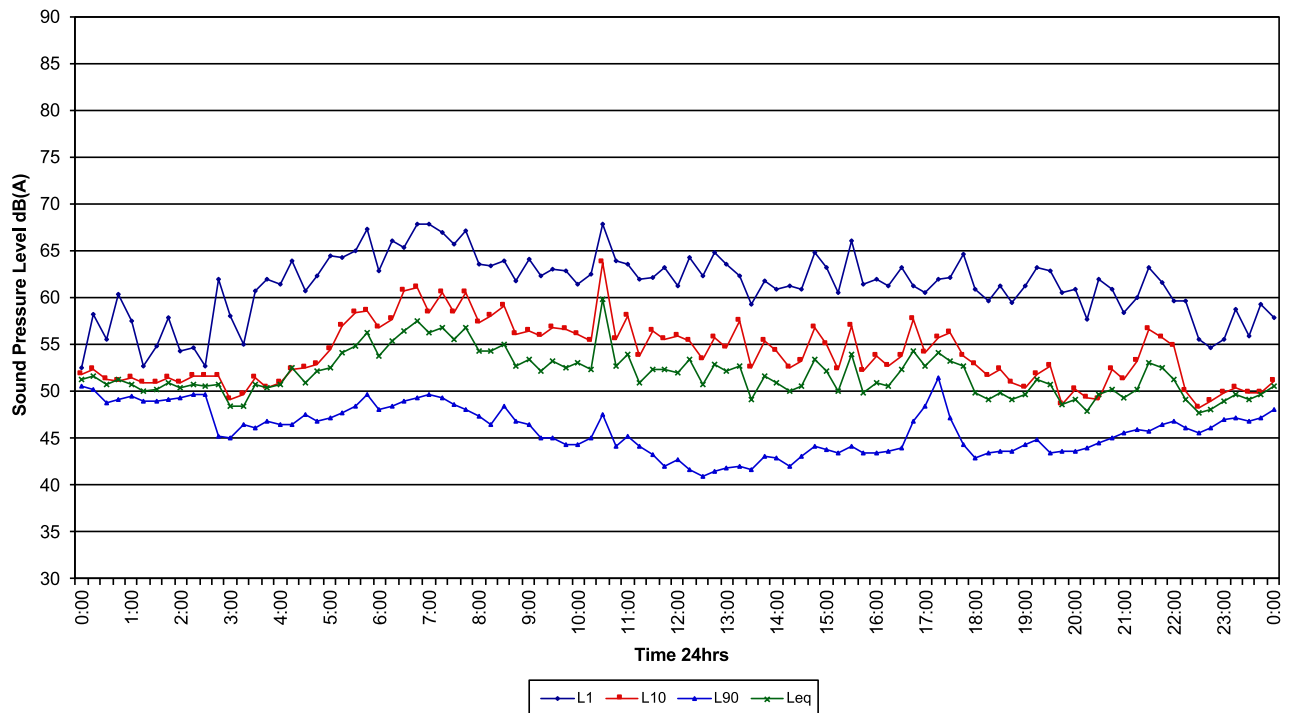
Military Road, Matraville

Tuesday 8/5/18



Military Road, Matraville

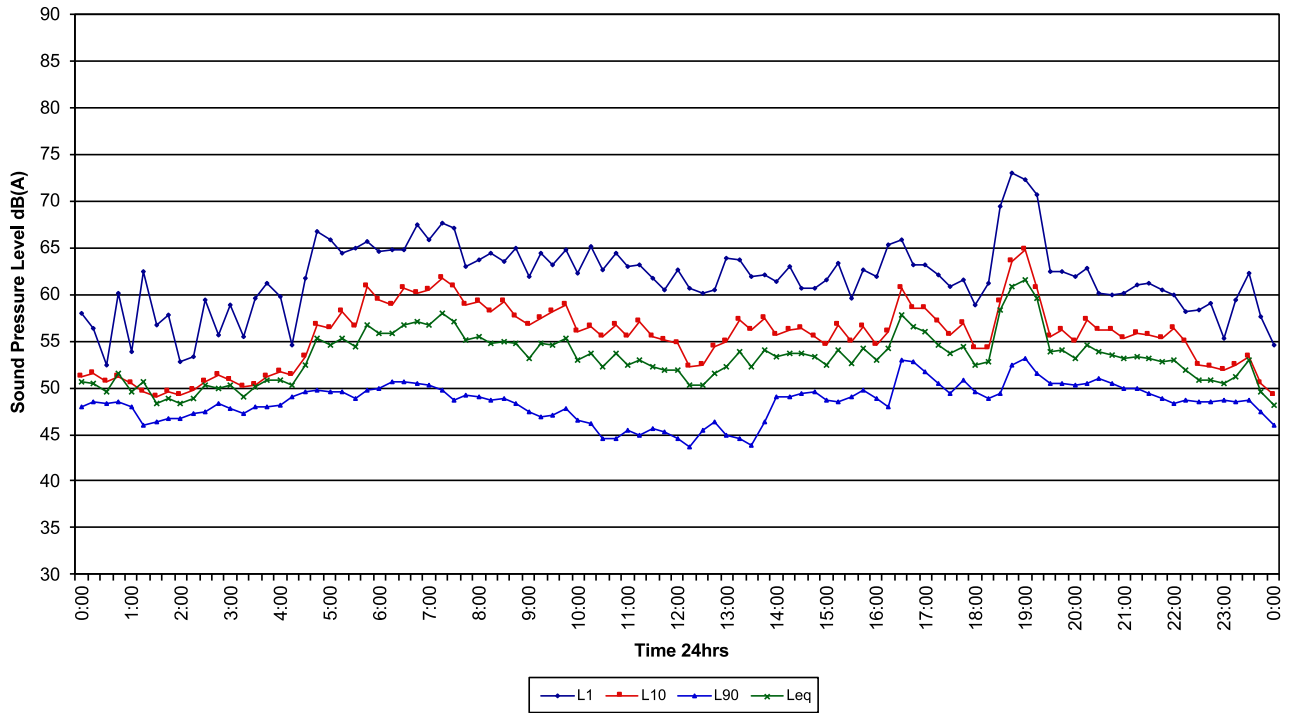
Wednesday 9/5/18





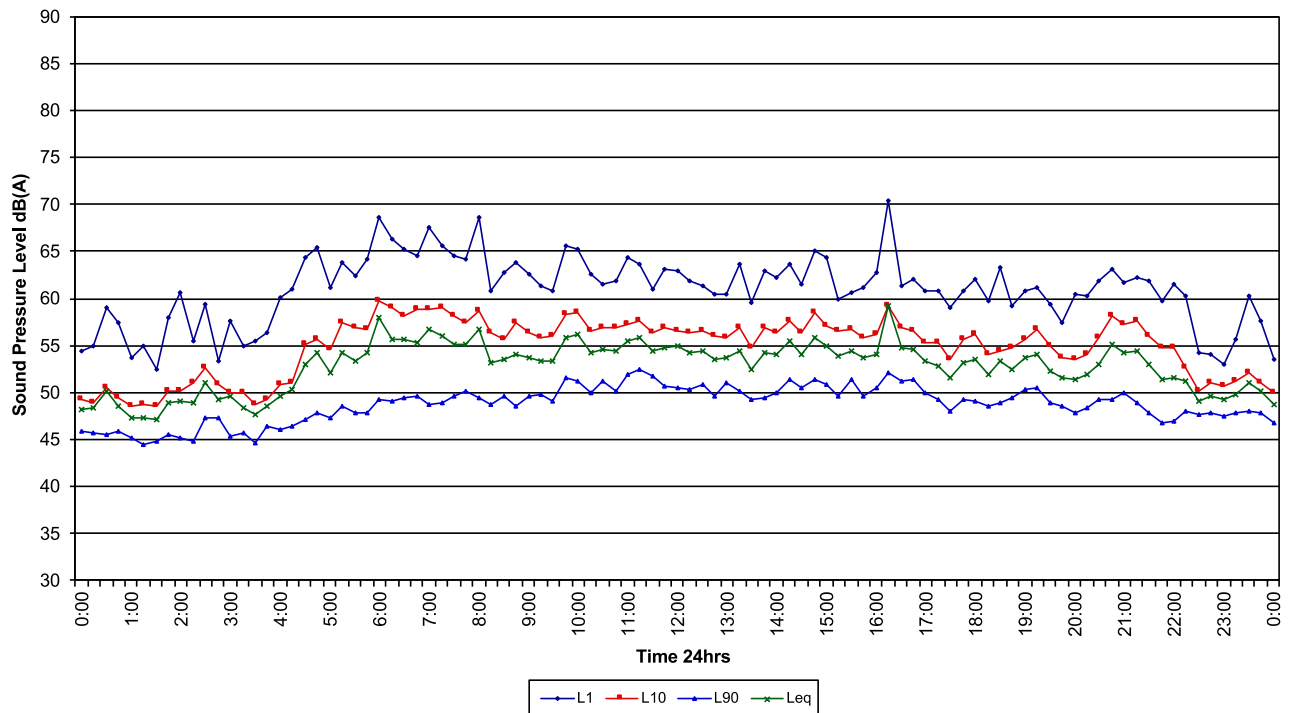
Military Road, Matraville

Thursday 10/5/18



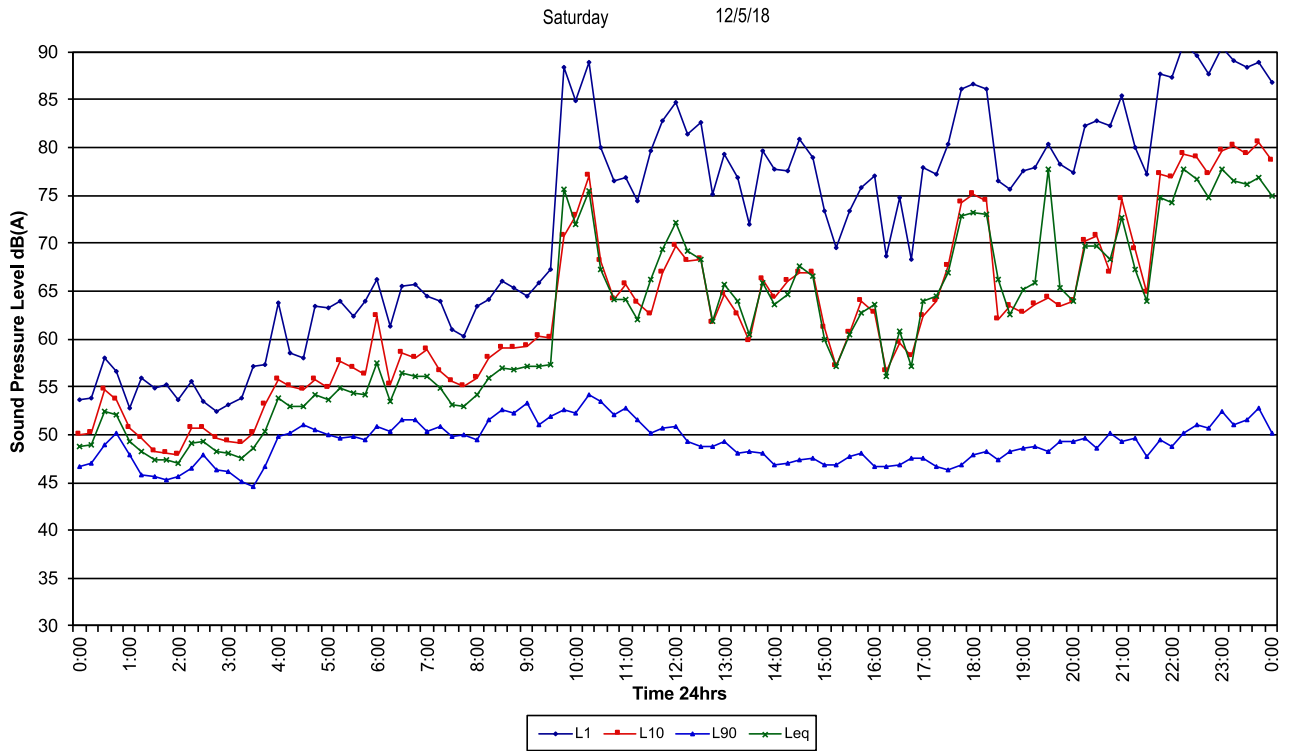
Military Road, Matraville

Friday 11/5/18

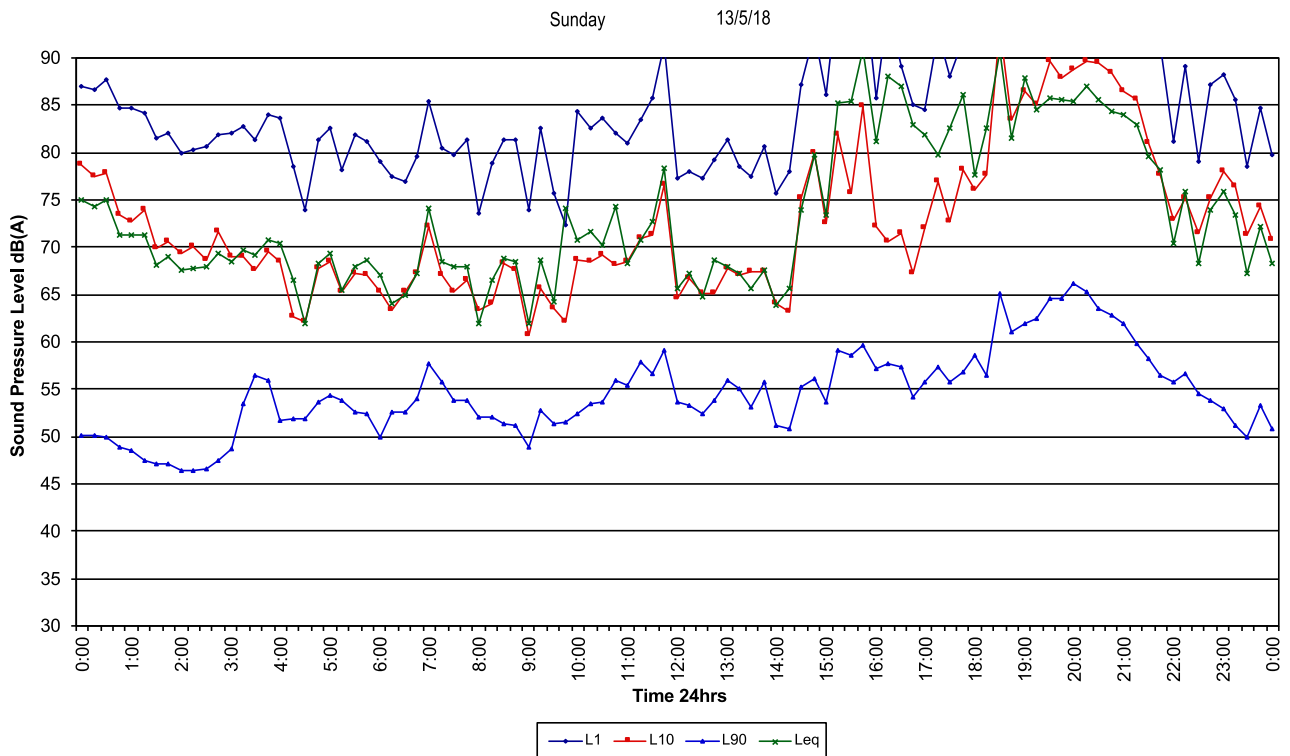




Military Road, Matraville



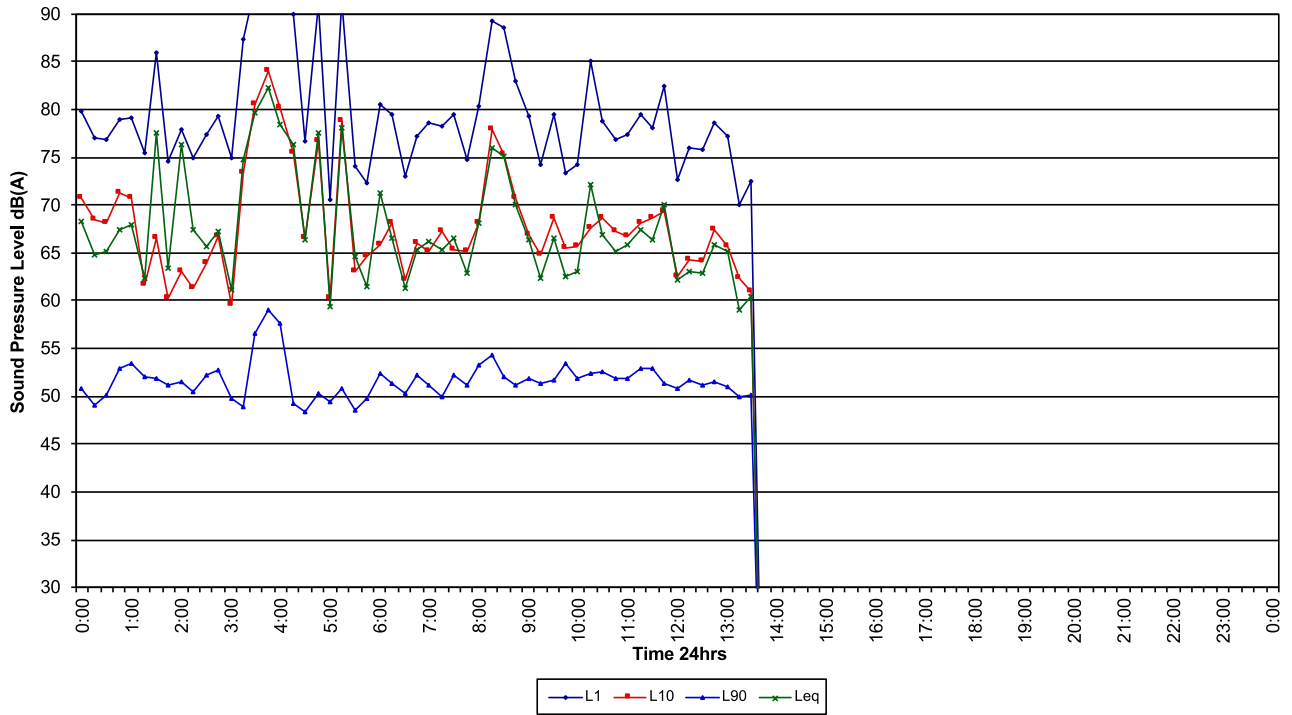
Military Road, Matraville





Military Road, Matraville

Monday 14/5/18





Appendix H – Calibration Certificates



**Acoustic
Research
Labs Pty Ltd**

Level 7 Building 2 423 Pennant Hills Rd
Pennant Hills NSW AUSTRALIA 2120
Ph: +61 2 9484 0800 A.B.N. 65 160 399 119
www.acousticresearch.com.au

Sound Level Meter

IEC 61672-3:2013

Calibration Certificate

Calibration Number C17536

Client Details Rodney Stevens Acoustics Pty Ltd
1 Majura Close
St Ives Chase NSW 2075

Equipment Tested/ Model Number : Rion NL-42EX
Instrument Serial Number : 00710677
Microphone Serial Number : 147121
Pre-amplifier Serial Number : 33998

Pre-Test Atmospheric Conditions
Ambient Temperature : 22.9°C
Relative Humidity : 47.7%
Barometric Pressure : 99.47kPa

Post-Test Atmospheric Conditions
Ambient Temperature : 22.2°C
Relative Humidity : 45.9%
Barometric Pressure : 99.42kPa

Calibration Technician : Jason Gomes
Calibration Date : 13/10/2017

Secondary Check: Riley Cooper
Report Issue Date : 17/10/2017

Approved Signatory :

Ken Williams

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
12: Acoustical Sig. tests of a frequency weighting	Pass	17: Level linearity incl. the level range control	Pass
13: Electrical Sig. tests of frequency weightings	Pass	18: Toneburst response	Pass
14: Frequency and time weightings at 1 kHz	Pass	19: C Weighted Peak Sound Level	Pass
15: Long Term Stability	Pass	20: Overload Indication	Pass
16: Level linearity on the reference level range	Pass	21: High Level Stability	Pass

The sound level meter submitted for testing has successfully completed the class 2 periodic tests of IEC 61672-3:2006, 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 requirements of IEC 61672-1:2002 because evidence was not publicly available, from an independent testing organisation responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002 and because the periodic tests of IEC 61672-3:2006 cover only a limited subset of the specifications in IEC 61672-1:2002.

Least Uncertainties of Measurement -			
Acoustic Tests		Environmental Conditions	
31.5 Hz to 8kHz	±0.16dB	Temperature	±0.05°C
12.5kHz	±0.2dB	Relative Humidity	±0.46%
16kHz	±0.29dB	Barometric Pressure	±0.017kPa
Electrical Tests			
31.5 Hz to 20 kHz	±0.12dB		

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.

This calibration certificate is to be read in conjunction with the calibration test report.



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 www.acousticresearch.com.au

Sound Level Meter
 IEC 61672-3.2013
Calibration Certificate

Calibration Number C17322

Client Details Rodney Stevens Acoustics Pty Ltd
 1 Majura Close
 St Ives Chase NSW 2075

Equipment Tested/ Model Number : Rion NL-42EX
Instrument Serial Number : 00572558
Microphone Serial Number : 170393
Pre-amplifier Serial Number : 72896

Pre-Test Atmospheric Conditions
Ambient Temperature : 22.2°C
Relative Humidity : 36.6%
Barometric Pressure : 99.76kPa

Post-Test Atmospheric Conditions
Ambient Temperature : 22.8°C
Relative Humidity : 35.9%
Barometric Pressure : 99.65kPa

Calibration Technician : Lucky Jaiswal
Calibration Date : 03/07/2017

Secondary Check: Riley Cooper
Report Issue Date : 04/07/2017

Approved Signatory :

Juan Aguero

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
12: Acoustical Sig. tests of a frequency weighting	Pass	17: Level linearity incl. the level range control	Pass
13: Electrical Sig. tests of frequency weightings	Pass	18: Toneburst response	Pass
14: Frequency and time weightings at 1 kHz	Pass	19: C Weighted Peak Sound Level	Pass
15: Long Term Stability	Pass	20: Overload Indication	Pass
16: Level linearity on the reference level range	Pass	21: High Level Stability	Pass

The sound level meter submitted for testing has successfully completed the class 2 periodic tests of IEC 61672-3:2006, 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 requirements of IEC 61672-1:2002 because evidence was not publicly available, from an independent testing organisation responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002 and because the periodic tests of IEC 61672-3:2006 cover only a limited subset of the specifications in IEC 61672-1:2002.

Least Uncertainties of Measurement -			
Acoustic Tests		Environmental Conditions	
31.5 Hz to 8kHz	±0.16dB	Temperature	±0.05°C
12.5kHz	±0.2dB	Relative Humidity	±0.46%
16kHz	±0.29dB	Barometric Pressure	±0.017kPa
Electrical Tests			
31.5 Hz to 20 kHz	±0.12dB		

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.

This calibration certificate is to be read in conjunction with the calibration test report.



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Sound Level Meter

IEC 61672-3:2006

Calibration Certificate

Calibration Number C16716

Client Details Rodney Stevens Acoustics Pty Ltd
1 Majura Close
St Ives Chase NSW 2075

Equipment Tested/ Model Number : Rion NL-42EX
Instrument Serial Number : 00546393
Microphone Serial Number : 152907
Pre-amplifier Serial Number : 46605

Pre-Test Atmospheric Conditions
Ambient Temperature : 23.5°C
Relative Humidity : 51.6%
Barometric Pressure : 98.97kPa

Post-Test Atmospheric Conditions
Ambient Temperature : 23.6°C
Relative Humidity : 50.8%
Barometric Pressure : 98.87kPa

Calibration Technician : Vicky Jaiswal
Calibration Date : 09/01/2017

Secondary Check: Riley Cooper
Report Issue Date : 10/01/2017

Approved Signatory :

Juan Aguero

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
10: Self-generated noise	Pass	14: Level linearity on the reference level range	Pass
11: Acoustical tests of a frequency weighting	Pass	15: Level linearity incl. the level range control	Pass
12: Electrical tests of frequency weightings	Pass	16: Toneburst response	Pass
13: Frequency and time weightings at 1 kHz	Pass	17: Peak C sound level	Pass
		18: Overload Indication	Pass

The sound level meter submitted for testing has successfully completed the class 2 periodic tests of IEC 61672-3:2006, 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 requirements of IEC 61672-1:2002 because evidence was not publicly available, from an independent testing organisation responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002 and because the periodic tests of IEC 61672-3:2006 cover only a limited subset of the specifications in IEC 61672-1:2002.

Least Uncertainties of Measurement -

Acoustic Tests		Environmental Conditions	
31.5 Hz to 8kHz	±0.12dB	Temperature	±0.05°C
12.5kHz	±0.18dB	Relative Humidity	±0.46%
16kHz	±0.31dB	Barometric Pressure	±0.017kPa
Electrical Tests			
31.5 Hz to 20 kHz	±0.12dB		

This calibration certificate is to be read in conjunction with the calibration test report.

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**Sound Level Meter
IEC 61672-3:2013
Calibration Certificate**

Calibration Number C17335

Client Details	Rodney Stevens Acoustics Pty Ltd 1 Majura Close ST IVES NSW 2075
Equipment Tested/ Model Number :	Rion NL-42EX
Instrument Serial Number :	00133013
Microphone Serial Number :	162572
Pre-amplifier Serial Number :	46604
Pre-Test Atmospheric Conditions	Post-Test Atmospheric Conditions
Ambient Temperature : 23°C	Ambient Temperature : 23°C
Relative Humidity : 38.8%	Relative Humidity : 37.7%
Barometric Pressure : 98.93kPa	Barometric Pressure : 98.94kPa
Calibration Technician : Lucky Jaiswal	Secondary Check: Sandra Minto
Calibration Date : 04/07/2017	Report Issue Date : 05/07/2017
Approved Signatory :	Juan Aguero

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
12: Acoustical Sig. tests of a frequency weighting	Pass	17: Level linearity incl. the level range control	Pass
13: Electrical Sig. tests of frequency weightings	Pass	18: Toneburst response	Pass
14: Frequency and time weightings at 1 kHz	Pass	19: C Weighted Peak Sound Level	Pass
15: Long Term Stability	Pass	20: Overload Indication	Pass
16: Level linearity on the reference level range	Pass	21: High Level Stability	Pass

The sound level meter submitted for testing has successfully completed the class 2 periodic tests of IEC 61672-3:2006, 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 requirements of IEC 61672-1:2002 because evidence was not publicly available, from an independent testing organisation responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002 and because the periodic tests of IEC 61672-3:2006 cover only a limited subset of the specifications in IEC 61672-1:2002.

Least Uncertainties of Measurement - Environmental Conditions			
Acoustic Tests		Temperature	±0.05°C
31.5 Hz to 8kHz	±0.16dB	Relative Humidity	±0.46%
12.5kHz	±0.2dB	Barometric Pressure	±0.017kPa
16kHz	±0.29dB		
Electrical Tests			
31.5 Hz to 20 kHz	±0.12dB		

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.

This calibration certificate is to be read in conjunction with the calibration test report.



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Sound Level Meter
IEC 61672-3:2013

Calibration Certificate

Calibration Number C17321

Client Details Rodney Stevens Acoustics Pty Ltd
1 Majura Close
St Ives Chase NSW 2075

Equipment Tested/ Model Number : Rion NL-42EX
Instrument Serial Number : 00572559
Microphone Serial Number : 170395
Pre-amplifier Serial Number : 72897

Pre-Test Atmospheric Conditions
Ambient Temperature : 21.4°C
Relative Humidity : 42.9%
Barometric Pressure : 99.19kPa

Post-Test Atmospheric Conditions
Ambient Temperature : 21.5°C
Relative Humidity : 42.3%
Barometric Pressure : 99.15kPa

Calibration Technician : Lucky Jaiswal
Calibration Date : 04/07/2017

Secondary Check: Riley Cooper
Report Issue Date : 04/07/2017

Approved Signatory :

Juan Agüero

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
12: Acoustical Sig. tests of a frequency weighting	Pass	17: Level linearity incl. the level range control	Pass
13: Electrical Sig. tests of frequency weightings	Pass	18: Toneburst response	Pass
14: Frequency and time weightings at 1 kHz	Pass	19: C Weighted Peak Sound Level	Pass
15: Long Term Stability	Pass	20: Overload Indication	Pass
16: Level linearity on the reference level range	Pass	21: High Level Stability	Pass

The sound level meter submitted for testing has successfully completed the class 2 periodic tests of IEC 61672-3:2006, 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 requirements of IEC 61672-1:2002 because evidence was not publicly available, from an independent testing organisation responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002 and because the periodic tests of IEC 61672-3:2006 cover only a limited subset of the specifications in IEC 61672-1:2002.

Least Uncertainties of Measurement - Environmental Conditions			
Acoustic Tests		Temperature	±0.05°C
31.5 Hz to 8kHz	±0.16dB	Relative Humidity	±0.46%
12.5kHz	±0.2dB	Barometric Pressure	±0.017kPa
16kHz	±0.29dB		
Electrical Tests			
31.5 Hz to 20 kHz	±0.12dB		

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.

This calibration certificate is to be read in conjunction with the calibration test report.



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**Sound Level Meter
IEC 61672-3:2013**

Calibration Certificate

Calibration Number C17323

Client Details Rodney Stevens Acoustics Pty Ltd
1 Majura Close
St Ives Chase NSW 2075

Equipment Tested/ Model Number : Rion NL-42EX
Instrument Serial Number : 00572542
Microphone Serial Number : 170370
Pre-amplifier Serial Number : 72880

Pre-Test Atmospheric Conditions
Ambient Temperature : 23.4°C
Relative Humidity : 37.2%
Barometric Pressure : 99.65kPa

Post-Test Atmospheric Conditions
Ambient Temperature : 23.3°C
Relative Humidity : 37.8%
Barometric Pressure : 99.52kPa

Calibration Technician : Lucky Jaiswal
Calibration Date : 03/07/2017

Secondary Check: Riley Cooper
Report Issue Date : 04/07/2017

Approved Signatory :

Juan Agüero

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
12: Acoustical Sig. tests of a frequency weighting	Pass	17: Level linearity incl. the level range control	Pass
13: Electrical Sig. tests of frequency weightings	Pass	18: Toneburst response	Pass
14: Frequency and time weightings at 1 kHz	Pass	19: C Weighted Peak Sound Level	Pass
15: Long Term Stability	Pass	20: Overload Indication	Pass
16: Level linearity on the reference level range	Pass	21: High Level Stability	Pass

The sound level meter submitted for testing has successfully completed the class 2 periodic tests of IEC 61672-3:2006, 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 requirements of IEC 61672-1:2002 because evidence was not publicly available, from an independent testing organisation responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002 and because the periodic tests of IEC 61672-3:2006 cover only a limited subset of the specifications in IEC 61672-1:2002.

Least Uncertainties of Measurement -

Acoustic Tests		Environmental Conditions	
31.5 Hz to 8kHz	±0.16dB	Temperature	±0.05°C
12.5kHz	±0.2dB	Relative Humidity	±0.46%
16kHz	±0.29dB	Barometric Pressure	±0.017kPa
Electrical Tests			
31.5 Hz to 20 kHz	±0.12dB		

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.

This calibration certificate is to be read in conjunction with the calibration test report.



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The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports.

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A division of Renzo Tonin & Associates (NSW) Pty Ltd ABN 29 117 462 861

Certificate of Calibration Sound Level Meter

Calibration Date	29/11/2017	Job No	RB588	Operator	AM
Client Name	RODNEY STEVENS ACOUSTICS PTY LTD				
Client Address	PO BOX 552, WAHROONGA, NSW 2076				

Test Item

Instrument Make	SVANTEK	Model	979	Serial No	#34075
Microphone Make	GRAS	Model	40AE	Serial No	#178253
Preamplifier Make	SVANTEK	Model	SV17	Serial No	#25290
Ext'n Cable Make	Nil	Model	N/A	Serial No	N/A
Accessories	Nil			Firmware	1.39.3

SLM Type	1
Filters Class	1

Environmental Conditions	Measured	
	Start	End
Air Temp. (°C)	24.1	22.8
Rel. Humidity (%)	53.5	50.4
Air Pressure (kPa)	101.3	100.5

Applicable Standards:
Periodic tests were performed in accordance with procedures from IEC 61672-3:2013

Applicable Work Instruction:
RWI-08 SLM & Calibrator Verification


Laboratory Equipment:
B&K4226 Multifunction Acoustic Calibrator SN 2288472
Agilent Function Generator Model 33220A SN MY43004013
Agilent Digital Multimeter Model 34401A SN MY41004386

Traceability:
Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. This document shall not be reproduced, except in full.

Scope:
This certificate is issued on the basis that the instrument complies with the manufacturer's specification. See "Sound Level Meter Verification - Summary of Tests" page for an itemised list of results for each test.

Uncertainty:
The uncertainty is stated at a confidence level of 95% using a k factor of 2.

Calibration Statement:
The sound level meter submitted for testing has successfully completed the periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organization responsible for approving the results of pattern evaluation tests performed in accordance with AS IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in AS IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 specifications of AS IEC 61672-1:2013.



NATA
WORLD RECOGNISED ACCREDITATION

NATA Accredited Laboratory Number
14966

Authorized Signatory:



Print Name: Renzo Tonin Date: 4 Dec 2017

Template Document Name: RQT-05 (rev 43) SLM ISO Verification

