



18/10/2021

## **Noise Monitoring Report**

### **SMEPP Public Domain Works**

Document Number: 711.NMR.1.2

Revision 1.2

## APPROVAL

Author	Project Manager Name	Approval Signature and Date
Rowan Grace		

## DOCUMENT VERSION CONTROL

Version	Version Details	Author	Position	Reviewer(s)	Version Date
1.0	For Review	Rowan Grace	Environmental Coordinator	Tim Tisseverasignhe Rory Kelly	27/09/21
1.1	For Review	Vanessa Zbinden	Environmental Coordinator	Tim Tisseverasignhe Rory Kelly	06/10/21
1.2	Released by the Client	Vanessa Zbinden	Environmental Coordinator	Onneile Matlapeng	18/10/21

## DOCUMENT AND RECORD CONTROL

Document control, including approval and the handling of superseded versions, shall be in accordance with the **Document Control** procedure.

## REFERENCE TO SUPPORTING WARD DOCUMENTATION

Documents required to complete the tasks in this procedure are referenced in **bold** throughout the procedure. Refer to the Related Documents section for the corresponding document numbers.

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# 1 INTRODUCTION

The purpose of this document is to report the noise monitoring results obtained during out of hours works related to drainage installation works on Rhodes Street, to determine if the noise impacts from the compound operation are within the predicted limits.

## 2 BACKGROUND

### 2.1 Background Monitoring

Prior to commencement of works background noise monitoring was undertaken as part of the Construction Noise and Vibration Management Sub-Plan (CNVMSP).

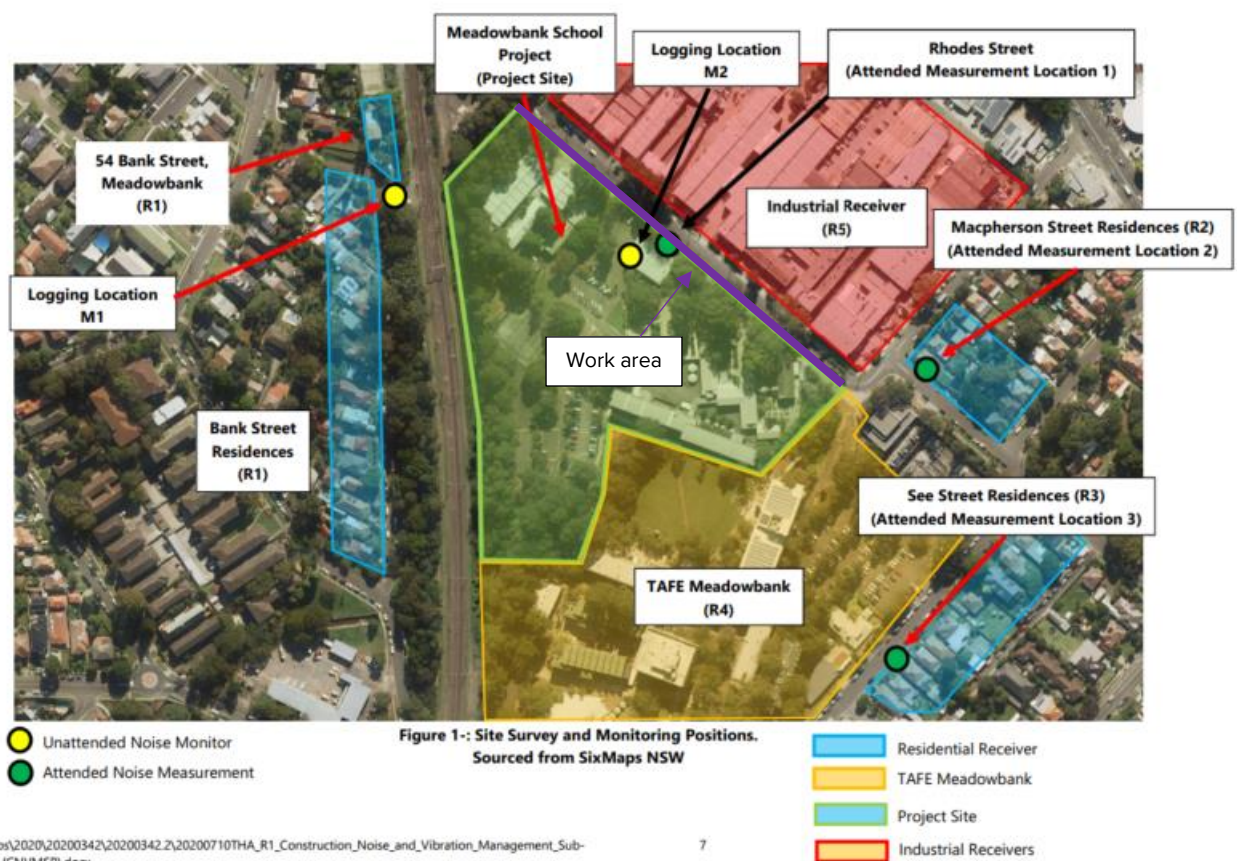


Figure 1 Monitoring Locations

Based on the location of works, relevant out of hours receivers were identified as Receiver 2 (residences on Macpherson Street) and Receiver 3 (residences on See Street).



The Background levels and adopted noise management levels (NMLs) are resented in

Location	Period	Measured Rating Background Level Noise Level (dB(A) L90 (period)	Noise Management Level (NML) (LAEQ 15min)
Macpherson Street Residences Attended Measurement Location 2 (refer to Figure 1)	Day (7am-6pm)	52	62
	Evening (6pm – 10pm)	52	57
	Night (10pm – 7am)	42	47
See Street Residences Attended Measurement Location 3 (refer to Figure 1)	Day (7am-6pm)	50	60
	Evening (6pm – 10pm)	50	55
	Night (10pm – 7am)	41	46

Table 1

Location	Period	Measured Rating Background Level Noise Level (dB(A) L90 (period)	Noise Management Level (NML) (LAEQ 15min)
Macpherson Street Residences Attended Measurement Location 2 (refer to Figure 1)	Day (7am-6pm)	52	62
	Evening (6pm – 10pm)	52	57
	Night (10pm – 7am)	42	47
See Street Residences Attended Measurement Location 3 (refer to Figure 1)	Day (7am-6pm)	50	60
	Evening	50	55

	(6pm – 10pm)		
	Night (10pm – 7am)	41	46

*Table 1 Background Noise Monitoring Results*

### 3 MONITORING PLAN

During works attended noise monitoring will be undertaken to validate noise modelling and noise levels being generated by the works during out of hours periods.

The Meadowbank Education and Employment Precinct Schools Project – Noise Impact Assessment undertook background noise monitoring at a range of receivers and provides nominated noise management levels for these receivers.

Based on the location of the works, attended noise monitoring will be undertaken at the following locations:

- Machpherson Street Residences (Receiver 2)
- See Street Residences (Receiver 3)

Noise Monitoring was undertaken as per the following monitoring schedule.

*Table 2 Noise Monitoring Schedule*

Item	Stage	Purpose	Frequency
NM1	Start of a new task in a work area, i.e. profiling, paving	Validation of noise assessment at nearest impacted receivers	Once at commencement of task
NM2	Following a complaint	To validate the complaint and to confirm noise assessment predictions	As required

If noise monitoring indicates that the noise assessment does not adequately reflect the site conditions, i.e. the works exceed the noise levels works will cease and the suitability of the applied mitigation measures will be reviewed and amended where required.

If after implementing all reasonable and feasible noise mitigation and management measures, the above construction noise objectives are still exceeded, works will cease and alternative construction measures will be developed.

#### 3.1 Monitoring Procedure

Noise levels were recorded over 15-minute sample intervals, where every 15 minutes the data is to be processed statistically and stored in memory. The minimum range of noise metrics stored in the memory for later retrieval include the following A-weighted noise levels: LA90, LAeq, and LA<sub>i</sub>

#### 3.2 Reporting and record keeping

All monitoring records will be retained throughout the delivery of the Project by Ward. Noise monitoring records will be completed to record:

- Date and time of measurement
- Name of person undertaking the measurement
- Type and model number of instruments
- Results of field calibration checks
- Time of day, length of measurement and any measurement time intervals
- Monitoring location
- Measurement location details and number of measurements at each location
- Weather conditions during measurements
- Operation and activities of the noise sources under investigation
- Noise due to other extraneous and environmental sources (e.g. traffic, aircraft, trains, dogs barking, insects).

Noise monitoring forms are provided in APPENDIX A.

## 4 RESULTS

### 4.1 Activity being monitoring

The following activities were being undertaken during the out of hours work periods:

- Friday 17/9/21: Excavation and laying subsoils
  - 2 x 5t excavators
  - 2 x bogie tippers
  - Traffic control
- Saturday 18/9/21: Removal of concrete slabs (driveways – no hammering)
  - 1 x 5t excavator
  - 1 x 14t excavator
  - 2 x bogie tippers
  - Traffic control
- Sunday 19/9/21: No new activities. No monitoring undertaken
- Friday 01/10/21: Milling
  - 1 x 5t excavator
  - 2 x Bogie 8 wheels
  - 2 x Pavement profiler
  - 1 x 14t excavator
  - 1 x Roller
  - Traffic control
- Saturday 02/10/21: Shift was cancelled due to rain event.
- Sunday 03/10/21 (day shift): Compaction and Laying subsoils
  - 1 x 5t excavator
  - 1 x 14t excavator
  - 1 x Roller
  - 2 x Bogie 8 wheels

- Traffic control
- Tuesday 05/10/21: Road Paving
  - 1 x Pavement Laying Machine
  - 1 x Pneumatic Roller (Multi-Tyre)
  - 2 x Bogie
  - 1 x Bob cat
  - 1 x Water Cart
  - Traffic control

## **4.2 Noise Monitoring Results**

Table 3 shows the recorded noise monitoring results to date.

Table 3 Attended Vibration Monitoring Result

Reference	Monitoring Record	Date	Time	Monitoring Location	Monitoring Activity	RBL / NML	Distance to noise activity	LA <sub>01</sub>	LA <sub>eq15min</sub>	LA <sub>90</sub>	Comment
1	201	17/9/21	21:09	Receiver 2	Subsoil excavation and placement	52/57	120	62.7	52.2	44.1	Noise level below NML
2	202	17/9/21	21:26	Receiver 3	Subsoil excavation and placement	50/55	220	60.0	50.6	40.3	Construction works inaudible Noise level below NML
3	203	17/9/21	22:36	Receiver 3	Subsoil excavation and placement	41/46	220	46.5	39.2	36.4	Construction works inaudible Noise level below NML
4	204	17/9/21	22:58	Receiver 2	Subsoil excavation and placement	42/47	120	53.8	43.0	38.7	Construction works sometimes audible Noise level below NML
5	205	18/9/21	21:10	Receiver 2	Subsoil excavation and placement Removal of driveways	52/57	120	60.6	47.3	35.9	Noise level below NML
6	206	18/9/21	22:50	Receiver 3	Subsoil excavation and placement Removal of driveways	41/46	120	48.1	40.0	35.7	Noise level below NML
7	207	18/9/21	23:05	Receiver 2	Subsoil excavation and placement Removal of driveways	42/47	220	54.5	42.9	34.7	Noise level below NML
8	978	01/10/21	20:35	Receiver 3	Milling	50/55	220	63.2	51.1	43.1	Noise level below NML

9	980	01/10/21	21:22	Receiver 2	Milling	52/57	120	56.2	48.6	37.3	Noise level below NML
10	984	01/10/21	22:54	Receiver 3	Milling	41/46	220	49.8	41.6	30.5	Noise level below NML
11	985	01/10/21	23:30	Receiver 2	Milling	42/47	120	50.7	42.3	29.6	Noise level below NML
12	986	03/10/21	11:18	Receiver 2	Compaction and Laying subsoils	52/62	120	72.1	61.7	51.8	Noise level below NML
13	987	03/10/21	11:39	Receiver 3	Compaction and Laying subsoils	50/60	220	65.8	53.8	41.8	Noise level below NML
14	214	05/10/21	20:59	Receiver 2	Road Paving	52/57	120	64.6	54.3	45.9	Noise level below NML
15	215	05/10/21	21:29	Receiver 3	Road Paving	50/55	220	62.9	49.7	40.2	Noise level below NML

## 5 MONITORING OVERVIEW

The noise monitoring results collected indicates that the activities undertaken were within the noise management limits.

## APPENDIX A. NOISE MONITORING RECORDS



## Noise Verification Checklist

### Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes St  2 x 5t excavator subsoil excavation	Machpherson St residences (receiver 2)	120m to nearest source	201

### Date & Time of Test

Start: Fri, 17 Sep 2021, 10:00 pm

End: -

### Test Conducted By

Name
Rowan Grace

### Meteorological Conditions

Temperture	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
16.1	-	Cloudy	Nil	9km/hr	NW

### Noise Environment

Description
Urban

### Sound Meter Record

Sound Level Meter	Serial	Make:	Model
		Rion	NL-52

### Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

## Test Procedure

AS 1055.1:1997 and AS 2659.2:1983

## Noise Catchment Area (See ECM)

NCA Number
NA

## Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
	52/57	

## Predicted Noise Levels

L <sub>Aeq</sub> 15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
57	Noise assessment - Table 5-2

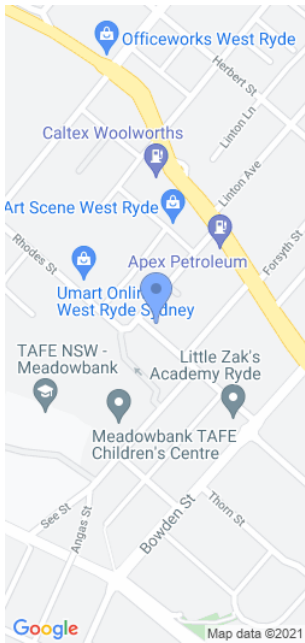
## Subjective Assessment (mark all that apply)

Construction Noise Inaudible	Yes
Construction Noise Sometimes Audible	No
Construction Noise Audible at Most Times	No
Construction Noise Clearly Audible	No
Construction Noise is Dominant Noise Source	No
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

## Estimated Noise Level

dBA
(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

This PDF was created at  
Mon, 27 Sep 2021, 8:46 am



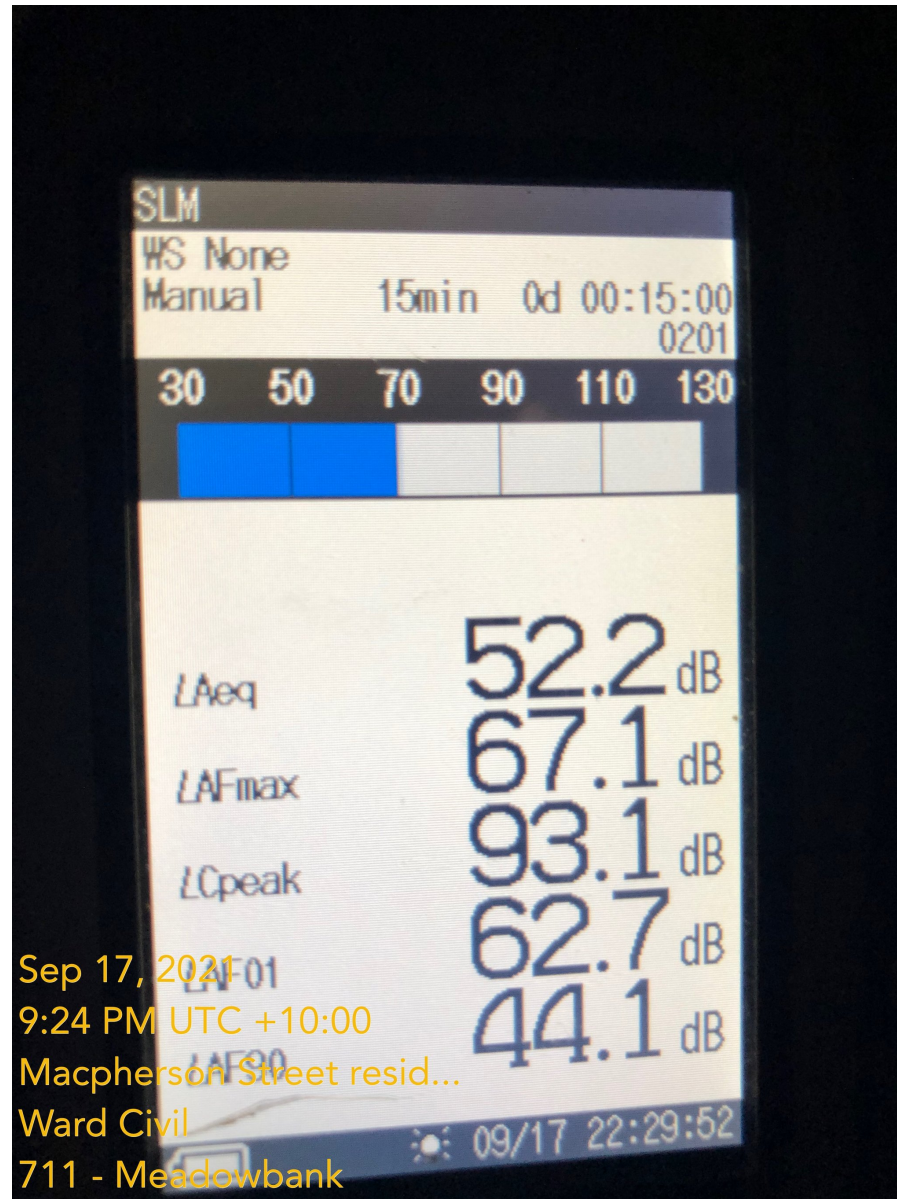
**Captured by:** Rowan Grace

**Captured on:** Fri, 17 Sep 2021, 9:24 pm

**Tags:**

**Description:** Macpherson Street residences.  
Construction noise not audible. Wind and traffic sources of noise

**Comments:**



# Noise Verification Checklist

## Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes St	See Street (receiver 3)	220m to nearest source	202
2 x 5t excavator subsoil excavation			

## Date & Time of Test

Start: Fri, 17 Sep 2021, 10:00 pm

End: -

## Test Conducted By

Name
Rowan Grace

## Meteorological Conditions

Temperture	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
16.1	-	Cloudy	Nil	9km/hr	NW

## Noise Environment

Description
Urban

## Sound Meter Record

Sound Level Meter	Serial	Make:	Model
		Rion	NL-52

## Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

## Test Procedure

AS 1055.1:1997 and AS 2659.2:1983

## Noise Catchment Area (See ECM)

NCA Number
NA

## Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
	50/55	

## Predicted Noise Levels

LAeq15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
55	Noise assessment - Table 5-2

## Subjective Assessment (mark all that apply)

Construction Noise Inaudible	Yes
Construction Noise Sometimes Audible	No
Construction Noise Audible at Most Times	No
Construction Noise Clearly Audible	No
Construction Noise is Dominant Noise Source	No
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

## Estimated Noise Level

dBA
(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)







**Captured by:** Rowan Grace

**Captured on:** Fri, 17 Sep 2021, 9:41 pm

**Tags:**

**Description:** See street No construction noise audible. Wind and traffic main noise sources

**Comments:**





# Noise Verification Checklist

## Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes St	See Street (receiver 3)	220m to nearest source	203
2 x 5t excavator subsoil excavation			

## Date & Time of Test

Start: Fri, 17 Sep 2021, 10:30 pm

End: -

## Test Conducted By

Name
Rowan Grace

## Meteorological Conditions

Temperture	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
16.1	-	Cloudy	Nil	9km/hr	NW

## Noise Environment

Description
Urban

## Sound Meter Record

Sound Level Meter	Serial	Make:	Model
		Rion	NL-52

## Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

## Test Procedure

AS 1055.1:1997 and AS 2659.2:1983

## Noise Catchment Area (See ECM)

NCA Number
NA

## Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
		41/46

## Predicted Noise Levels

L <sub>Aeq</sub> 15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
46	Noise assessment - Table 5-2

## Subjective Assessment (mark all that apply)

Construction Noise Inaudible	Yes
Construction Noise Sometimes Audible	No
Construction Noise Audible at Most Times	No
Construction Noise Clearly Audible	No
Construction Noise is Dominant Noise Source	No
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

## Estimated Noise Level

<b>dBA</b> (At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

Text	Select time weighting "Fast" not Slow.
	Select Frequency weighting "A" not C or Flat.

See full page photos attached at end of PDF

Signature  Rowan Grace, Mon, 27 Sep 2021, 9:38 am



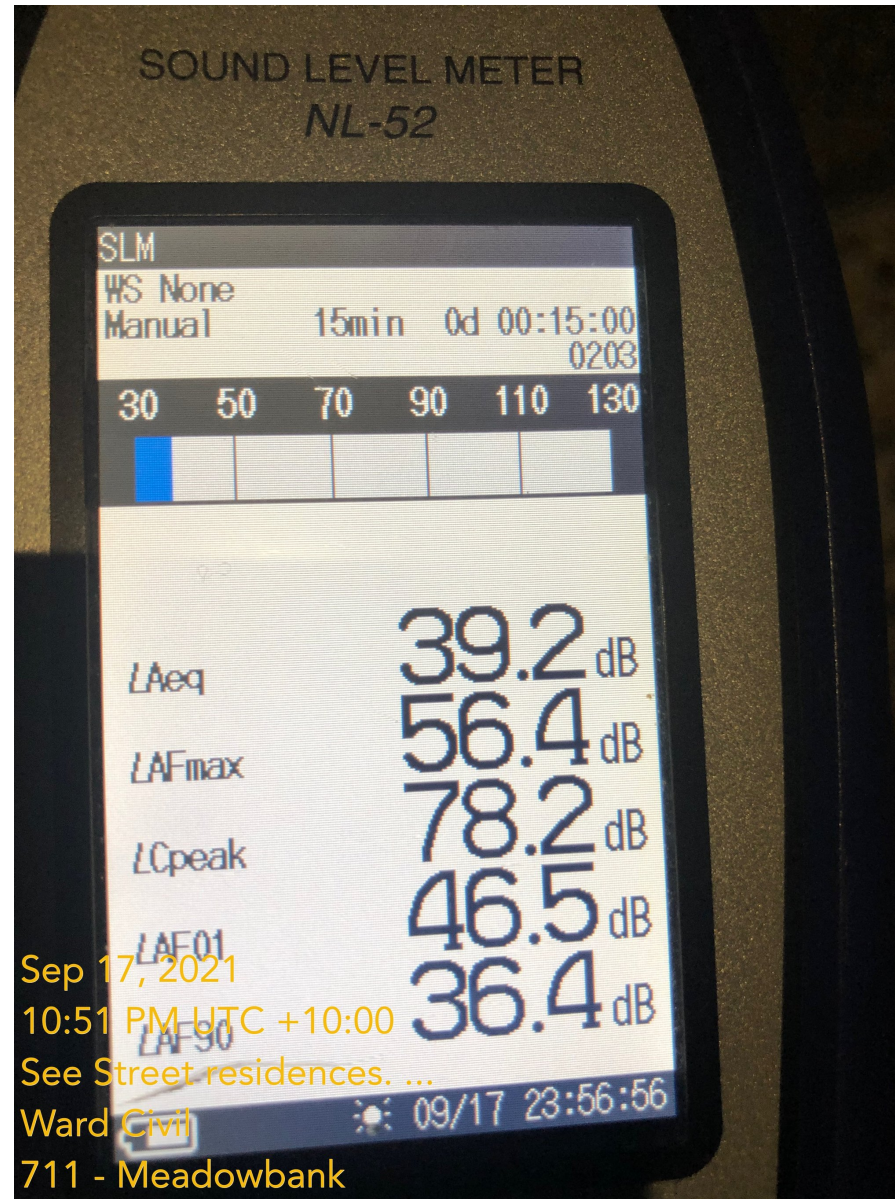
**Captured by:** Rowan Grace

**Captured on:** Fri, 17 Sep 2021, 10:51 pm

**Tags:**

**Description:** See Street residences. No construction noise audible.

**Comments:**



## Noise Verification Checklist

### Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes St  2 x 5t excavator subsoil excavation	Machpherson St residences (receiver 2)	120m to nearest source	204

### Date & Time of Test

Start: Fri, 17 Sep 2021, 10:30 pm

End: -

### Test Conducted By

Name
Rowan Grace

### Meteorological Conditions

Temperture	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
16.1	-	Cloudy	Nil	9km/hr	NW

### Noise Environment

Description
Urban

### Sound Meter Record

Sound Level Meter	Serial	Make:	Model
		Rion	NL-52

### Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

## Test Procedure

AS 1055.1:1997 and AS 2659.2:1983

## Noise Catchment Area (See ECM)

NCA Number
NA

## Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
		42/47

## Predicted Noise Levels

L <sub>Aeq</sub> 15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
47	Noise assessment - Table 5-2

## Subjective Assessment (mark all that apply)

Construction Noise Inaudible	No
Construction Noise Sometimes Audible	Yes
Construction Noise Audible at Most Times	No
Construction Noise Clearly Audible	No
Construction Noise is Dominant Noise Source	No
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

## Estimated Noise Level

dBA
(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

Times	
Start Time (24hr clock)	2258
End Time (24hr clock)	2312

Text	Select time weighting "Fast" not Slow.
	Select Frequency weighting "A" not C or Flat.

LA01 min (dBA)	LAeq15min (dBA)	LA90 (dBA)	Exceedance of NML (LAeq15min)	Exceedance of RBL (LAeq15min)	Difference to Predicted level (LAeq15min)	Comment
53.8	43.0	38.7	No	Yes	-4dBA	Noise level within noise goals

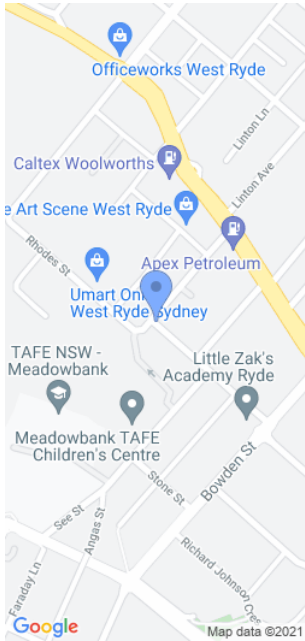
40 Item  
Amount: 1.00 Date: 09/15/09  
30 50 70 90 110 130  
1/2 lb Bacon 43.0  
1/2 lb Bacon 62.0  
1/2 lb Bacon 88.3  
1/2 lb Bacon 53.8  
1/2 lb Bacon 38.7  
Total: 287.80  
Sep 17, 11:12 PM

See full page photos attached at end of PDF

Signature  Rowan Grace, Mon, 20 Sep 2021, 1:44 pm

Signature  Rowan Grace, Mon, 20 Sep 2021, 1:44 pm





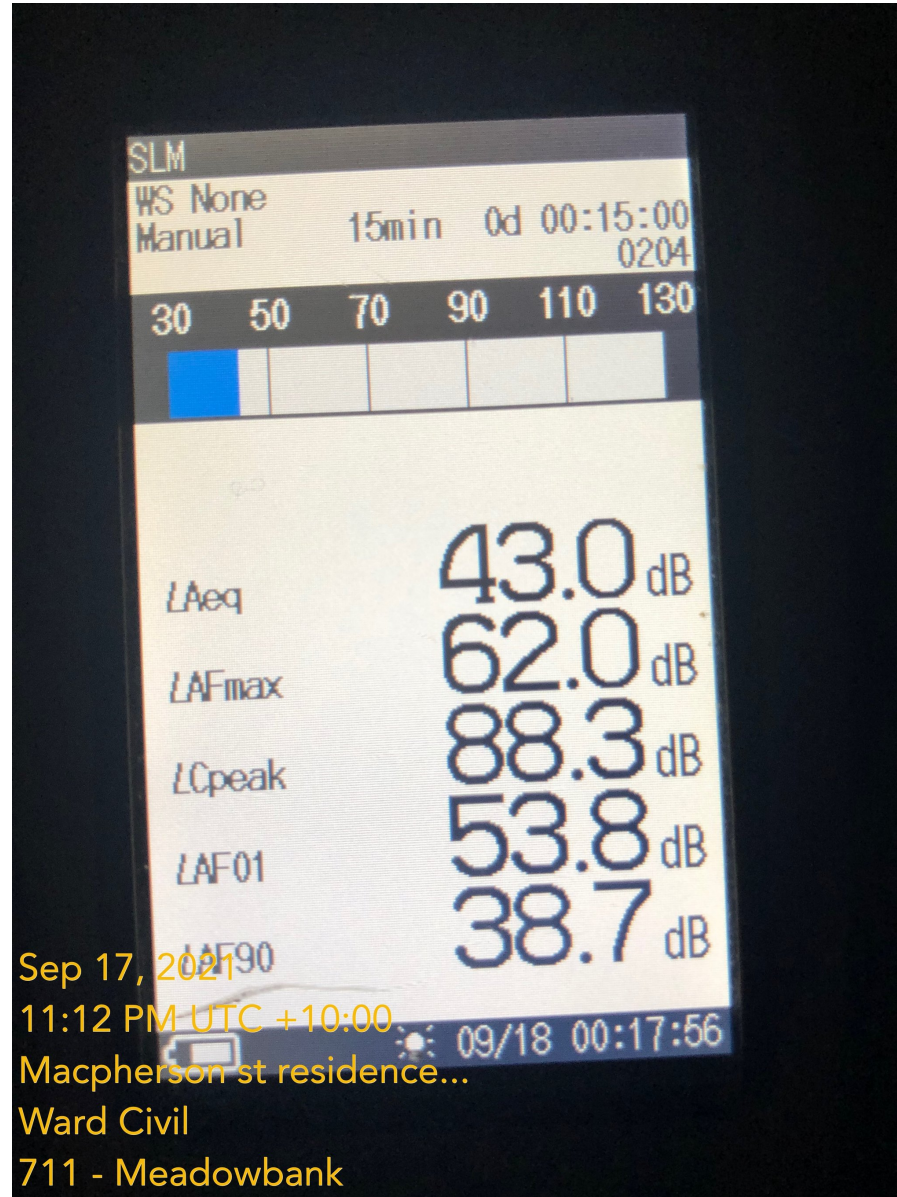
**Captured by:** Rowan Grace

**Captured on:** Fri, 17 Sep 2021, 11:12 pm

**Tags:**

**Description:** Macpherson st residences. Light tower audible. Construction sometimes audible.

**Comments:**





## Noise Verification Checklist

### Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes St  14t excavator breaking out driveway  1 x 5t excavator subsoil excavation	Machpherson St residences (receiver 2)	120m to nearest source	205

### Date & Time of Test

Start: Sat, 18 Sep 2021, 9:30 pm

End: -

### Test Conducted By

Name
Rowan Grace

### Meteorological Conditions

Temperture	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
16.2	-	Cloudy	Nil	11km/hr	W

### Noise Environment

Description
Urban

### Sound Meter Record

Sound Level Meter	Serial	Make:	Model
		Rion	NL-52

### Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

## Test Procedure

AS 1055.1:1997 and AS 2659.2:1983

## Noise Catchment Area (See ECM)

NCA Number
NA

## Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
	52/57	

## Predicted Noise Levels

LAeq15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
57	Noise assessment - Table 5-2

## Subjective Assessment (mark all that apply)

Construction Noise Inaudible	Yes
Construction Noise Sometimes Audible	No
Construction Noise Audible at Most Times	No
Construction Noise Clearly Audible	No
Construction Noise is Dominant Noise Source	No
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

## Estimated Noise Level

dBA
(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

### Sound Meter Assessment

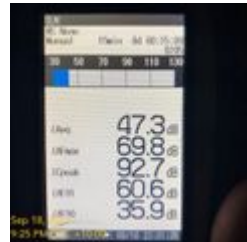
Times	
Start Time (24hr clock)	2110
End Time (24hr clock)	2125

<b>Text</b>	Select time weighting "Fast" not Slow.
	Select Frecuency weighting "A" not C or Flat.

## Table name

LA01 min (dBA)	LAeq15min (dBA)	LA90 (dBA)	Exceedance of NML (LAeq15min)	Exceedance of RBL (LAeq15min)	Difference to Predicted level (LAeq15min)	Comment
60.6	47.3	35.9	No	No	-10dBA	Noise level within noise goals

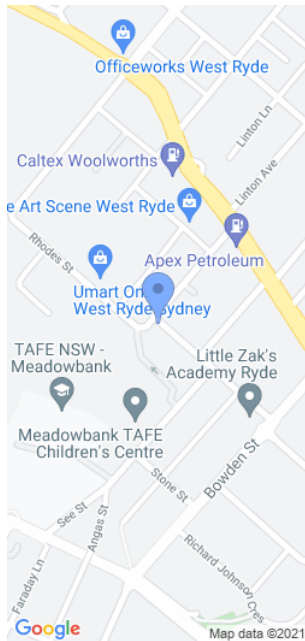
## Photo and video



See full page photos attached at end of PDF

Signature  Rowan Grace, Mon, 20 Sep 2021, 1:49 pm

Signature  Rowan Grace, Mon, 20 Sep 2021, 1:49 pm



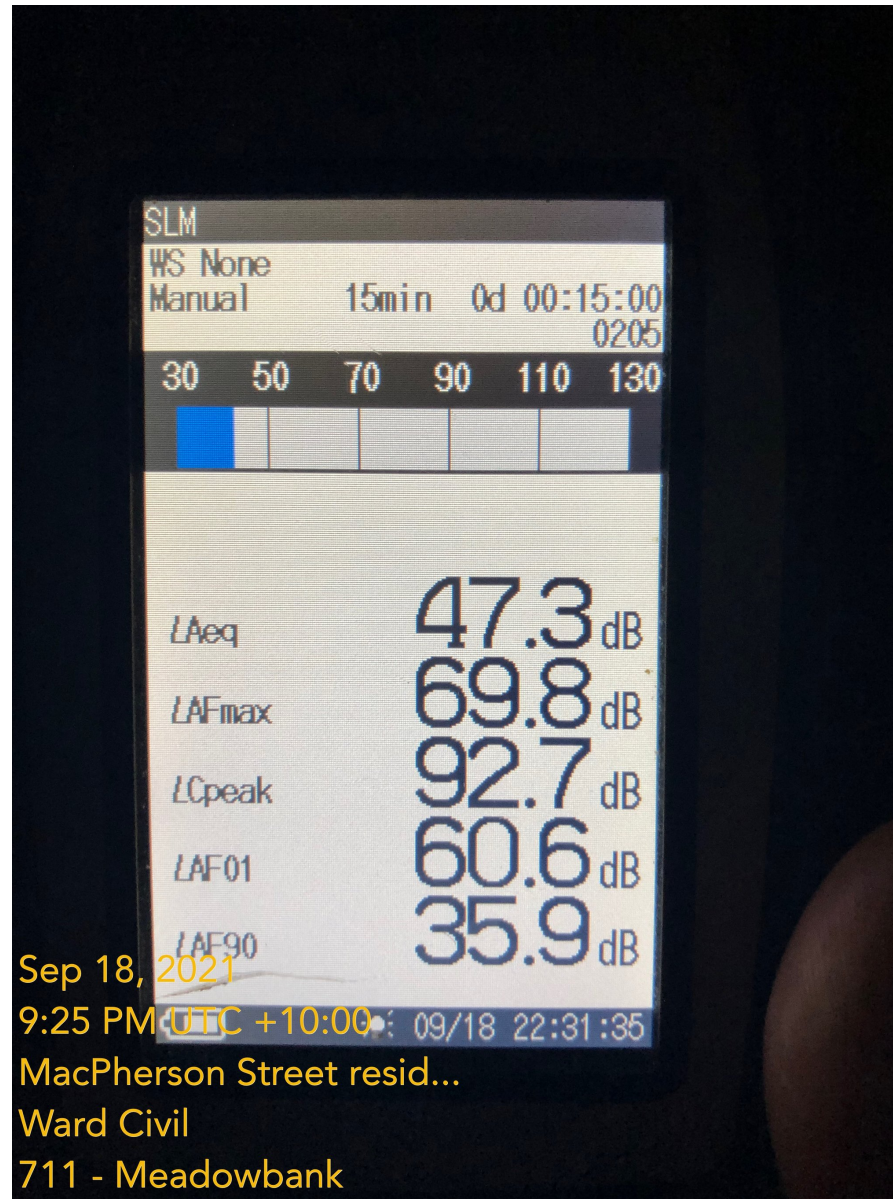
**Captured by:** Rowan Grace

**Captured on:** Sat, 18 Sep 2021, 9:25 pm

**Tags:**

**Description:** MacPherson Street residences  
Removal of driveways. Construction sometimes audible.

**Comments:**



## Noise Verification Checklist

### Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes St  14t excavator breaking out driveway  1 x 5t excavator subsoil excavation	Machpherson St residences (receiver 2)	120m to nearest source	207

### Date & Time of Test

Start: Sat, 18 Sep 2021, 11:00 pm

End: -

### Test Conducted By

Name
Rowan Grace

### Meteorological Conditions

Temperture	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
16.2	-	Cloudy	Nil	11km/hr	W

### Noise Environment

Description
Urban

### Sound Meter Record

Sound Level Meter	Serial	Make:	Model
		Rion	NL-52

### Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

## Test Procedure

AS 1055.1:1997 and AS 2659.2:1983

## Noise Catchment Area (See ECM)

NCA Number
NA

## Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
		42/47

## Predicted Noise Levels

LAeq15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
47	Noise assessment - Table 5-2

## Subjective Assessment (mark all that apply)

Construction Noise Inaudible	No
Construction Noise Sometimes Audible	Yes
Construction Noise Audible at Most Times	No
Construction Noise Clearly Audible	No
Construction Noise is Dominant Noise Source	No
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

## Estimated Noise Level

dBA (At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

Times	
Start Time (24hr clock)	2255
End Time (24hr clock)	2320

Text	Select time weighting "Fast" not Slow. Select Frequency weighting "A" not C or Flat.
------	---

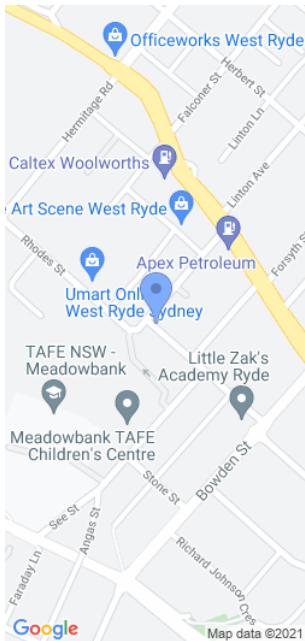
LA01 min (dBA)	LAeq15min (dBA)	LA90 (dBA)	Exceedance of NML (LAeq15min)	Exceedance of RBL (LAeq15min)	Difference to Predicted level (LAeq15min)	Comment
54.5	42.9	34.7	No	Yes	-4dBA	Noise level within noise goals

See full page photos attached at end of PDF

Signature  Rowan Grace, Mon, 20 Sep 2021, 1:51 pm

Signature  Rowan Grace, Mon, 20 Sep 2021, 1:52 pm





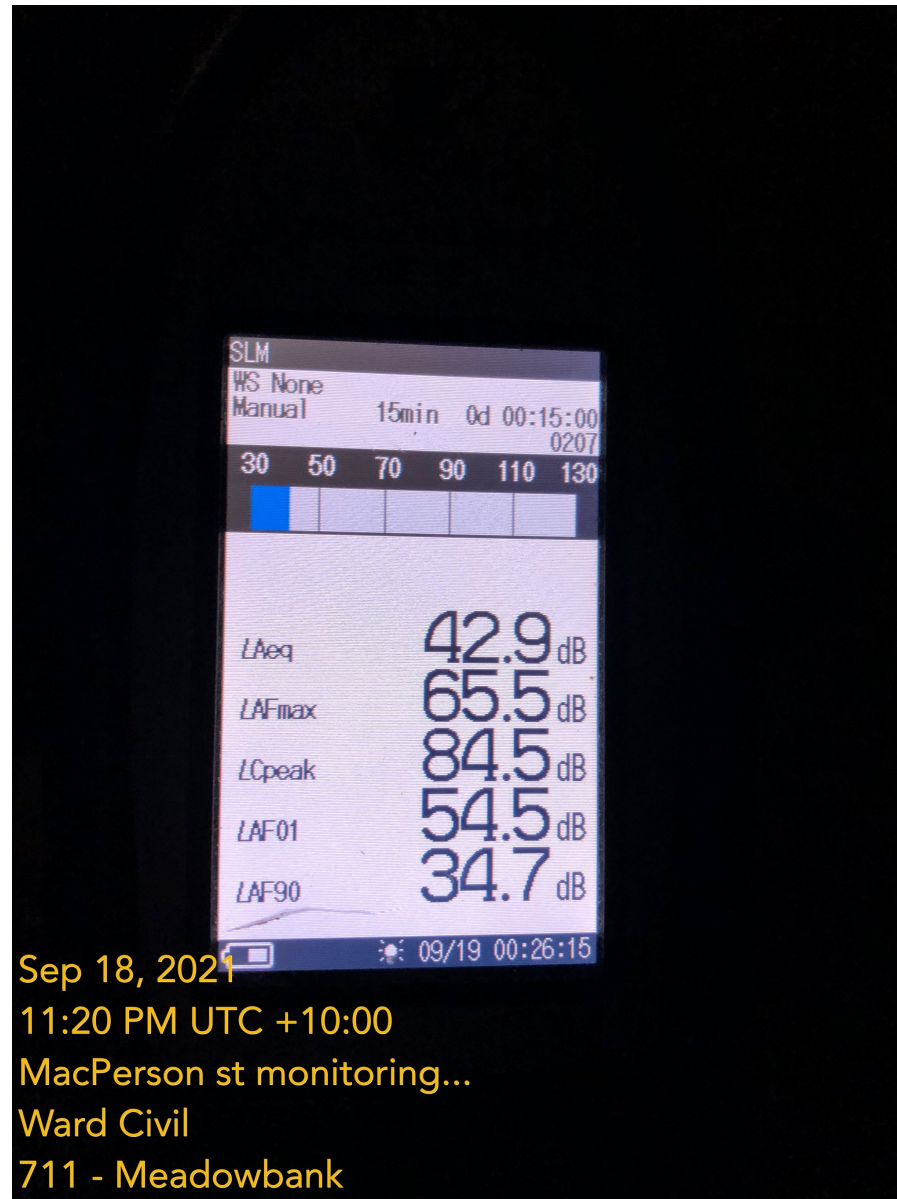
**Captured by:** Rowan Grace

**Captured on:** Sat, 18 Sep 2021, 11:20 pm

**Tags:**

**Description:** MacPerson st monitoring. Works inaudible

**Comments:**





# Noise Verification Checklist

## Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes St	See Street (receiver 3)	220m to nearest source	206
14t x excavator breaking out driveway			
1 x 5t excavator subsoil excavation			

## Date & Time of Test

Start: Sat, 18 Sep 2021, 11:00 pm

End: -

## Test Conducted By

Name
Rowan Grace

## Meteorological Conditions

Temperture	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
16.2	-	Cloudy	Nil	11km/hr	W

## Noise Environment

Description
Urban

## Sound Meter Record

Sound Level Meter	Serial	Make:	Model
		Rion	NL-52

## Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
------------------------------	-----------------------------	-----------------------

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

**Test Procedure** AS 1055.1:1997 and AS 2659.2:1983

#### Noise Catchment Area (See ECM)

NCA Number
NA

#### Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
		41/46

#### Predicted Noise Levels

LAeq15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
46	Noise assessment - Table 5-2

#### Subjective Assessment (mark all that apply)

Construction Noise Inaudible	Yes
Construction Noise Sometimes Audible	No
Construction Noise Audible at Most Times	No
Construction Noise Clearly Audible	No
Construction Noise is Dominant Noise Source	No
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

#### Estimated Noise Level

### dBa

(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

### Sound Meter Assessment

Times	
Start Time (24hr clock)	2305
End Time (24hr clock)	2320

### Text

Select time weighting "Fast" not Slow.

Select Frequency weighting "A" not C or Flat.

### Table name

LA01 min (dBA)	LAeq15min (dBA)	LA90 (dBA)	Exceedance of NML (LAeq15min)	Exceedance of RBL (LAeq15min)	Difference to Predicted level (LAeq15min)	Comment
48.1	40.0	35.7	No	No	-6dBa	Noise level within noise goals

### Photo and video



See full page photos attached at end of PDF

### Signature

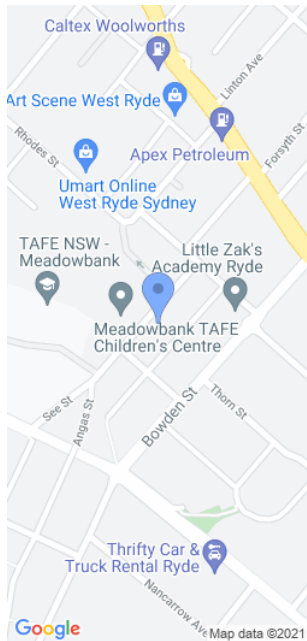


Rowan Grace, Mon, 27 Sep 2021, 10:17 am

Signature

A handwritten signature in black ink, appearing to be 'Rowan Grace'.

Rowan Grace, Mon, 27 Sep 2021, 10:17 am



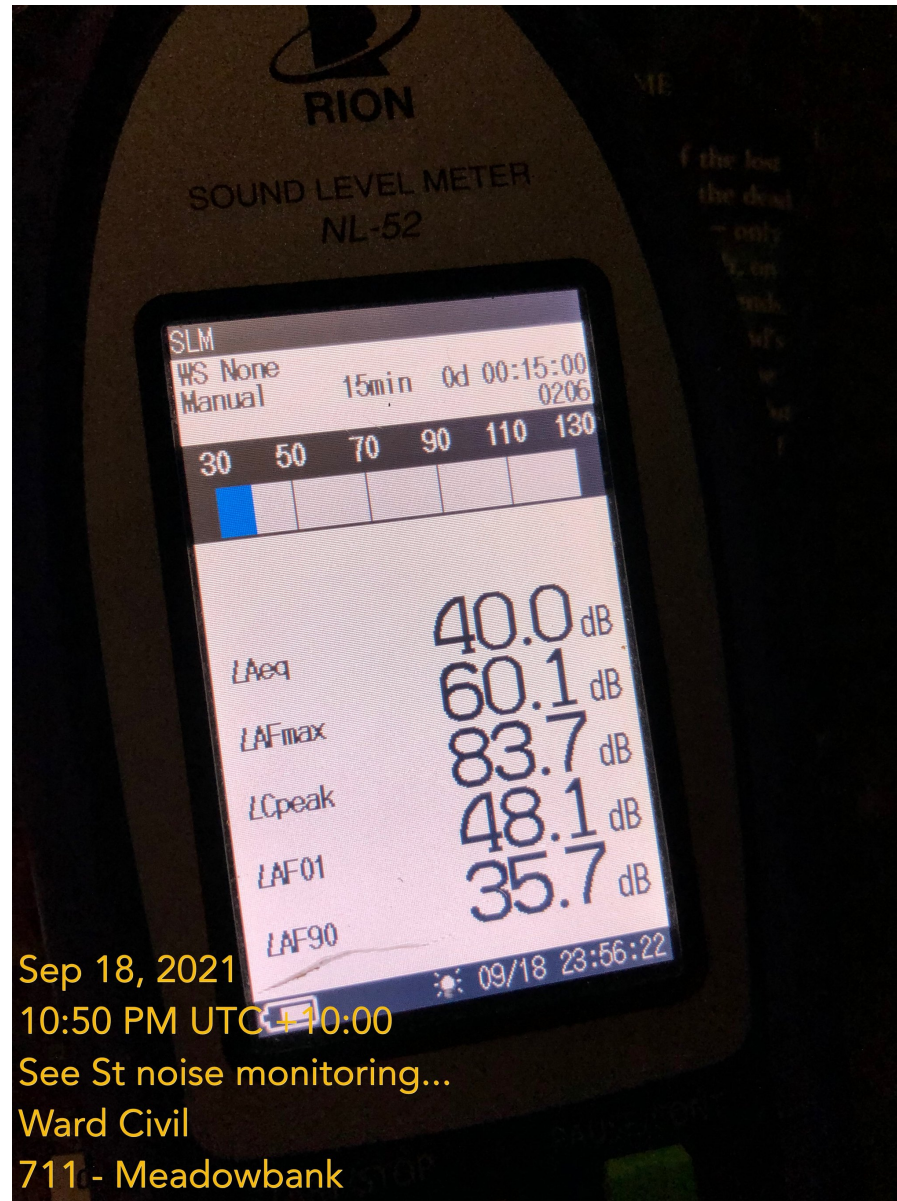
**Captured by:** Rowan Grace

**Captured on:** Sat, 18 Sep 2021, 10:50 pm

**Tags:**

**Description:** See St noise monitoring Removal of driveway and subsoil install Works inaudible

**Comments:**



Register: Noise Verification Checklist

Created by	Created date	Document Version	Workflow Column	Details	Date & Time of Test Start	Date & Time of Test End	Test Conducted By	Meteorological Conditions	Noise Environment	Sound Meter Record	Sound Meter Record	Test Procedure	Noise Catchment Area (See ECM)	Noise Levels	Predicted Noise Levels	Subjective Assessment (mark all that apply)	Construction Noise Inaudible	Constructi
Vanessa Zbinden	Wed, 06 Oct 2021, 2:16 pm	V1.1	Column1	See the form for more details	Tue, 05 Oct 2021, 9:14 pm	Tue, 05 Oct 2021, 9:29 pm	See the form for more details	See the form for more details	See the form for more details	See the form for more details	See the form for more details		See the form for more details	See the form for more details	See the form for more details	-	NA	Yes
Vanessa Zbinden	Wed, 06 Oct 2021, 1:54 pm	V1.1	Column1	See the form for more details	Tue, 05 Oct 2021, 8:44 pm	Tue, 05 Oct 2021, 8:59 pm	See the form for more details	See the form for more details	See the form for more details	See the form for more details	See the form for more details		See the form for more details	See the form for more details	See the form for more details	-	NA	Yes
Vanessa Zbinden	Wed, 06 Oct 2021, 1:38 pm	V1.2	Column1	See the form for more details	Sun, 03 Oct 2021, 11:24 am	Sun, 03 Oct 2021, 11:39 am	See the form for more details	See the form for more details	See the form for more details	See the form for more details	See the form for more details		See the form for more details	See the form for more details	See the form for more details	-	NA	No
Vanessa Zbinden	Wed, 06 Oct 2021, 1:30 pm	V1.2	Column1	See the form for more details	Sun, 03 Oct 2021, 11:03 am	Sun, 03 Oct 2021, 11:18 am	See the form for more details	See the form for more details	See the form for more details	See the form for more details	See the form for more details		See the form for more details	See the form for more details	See the form for more details	-	No	Yes
Vanessa Zbinden	Tue, 05 Oct 2021, 3:54 pm	V1.3	Column1	See the form for more details	Fri, 01 Oct 2021, 11:15 pm	Fri, 01 Oct 2021, 11:30 pm	See the form for more details	See the form for more details	See the form for more details	See the form for more details	See the form for more details		See the form for more details	See the form for more details	See the form for more details	-	NA	Yes
Vanessa Zbinden	Tue, 05 Oct 2021, 3:54 pm	V1.3	Column1	See the form for more details	Fri, 01 Oct 2021, 10:54 pm	Fri, 01 Oct 2021, 11:09 pm	See the form for more details	See the form for more details	See the form for more details	See the form for more details	See the form for more details		See the form for more details	See the form for more details	See the form for more details	-	No	Yes

Created by	Created date	Document Version	Workflow Column	Details	Date & Time of Test Start	Date & Time of Test End	Test Conducted By	Meteorological Conditions	Noise Environment	Sound Meter Record	Sound Meter Record	Test Procedure	Noise Catchment Area (See ECM)	Noise Levels	Predicted Noise Levels	Subjective Assessment (mark all that apply)	Construction Noise Inaudible	Constructi
Vanessa Zbinden	Tue, 05 Oct 2021, 3:54 pm	V1.3	Column1	See the form for more details	Fri, 01 Oct 2021, 9:22 pm	Fri, 01 Oct 2021, 9:37 pm	See the form for more details	See the form for more details	See the form for more details	See the form for more details	See the form for more details		See the form for more details	See the form for more details	See the form for more details	-	NA	Yes
Vanessa Zbinden	Tue, 05 Oct 2021, 3:52 pm	V1.3	Column1	See the form for more details	Fri, 01 Oct 2021, 8:35 pm	Fri, 01 Oct 2021, 8:50 pm	See the form for more details	See the form for more details	See the form for more details	See the form for more details	See the form for more details		See the form for more details	See the form for more details	See the form for more details	-	Yes	No

## Noise Verification Checklist

### Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes street  1 x 5t excavator 2 x Bogie 8 wheels 2 x Pavement profiler 1 x 14t excavator 1 x Roller Traffic control	See street Receiver 3	220m to nearest source	978

### Date & Time of Test

Start: Fri, 01 Oct 2021, 8:35 pm

End: Fri, 01 Oct 2021, 8:50 pm

### Test Conducted By

Name
Vanessa Zbinden

### Meteorological Conditions

Temperture	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
21.5	50%	Cloudy	No rain during monitoring	Calm	-

### Noise Environment

Description
Urban Main source was traffic



#### Sound Meter Record

Sound Level Meter	Serial	Make:	Model
	553919	RION	NL-52

#### Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

**Test Procedure** AS 1055.1:1997 and AS 2659.2:1983

#### Noise Catchment Area (See ECM)

NCA Number
N/A

#### Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
	50/55	

#### Predicted Noise Levels

LAeq15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
55	Noise assessment - Table 5-2

#### Subjective Assessment (mark all that apply)

Construction Noise Inaudible	Yes
Construction Noise Sometimes Audible	No
Construction Noise Audible at Most Times	No
Construction Noise Clearly Audible	No

Construction Noise is Dominant Noise Source	No
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

#### Estimated Noise Level

##### dBA

(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

#### Sound Meter Assessment

##### Times

Start Time (24hr clock)	20:35
End Time (24hr clock)	20:50

##### Text

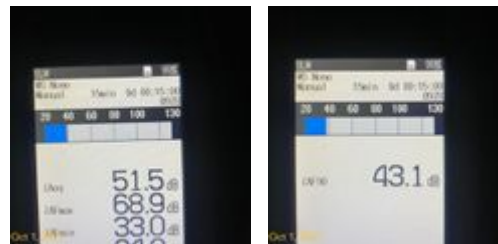
Select time weighting "Fast" not Slow.

Select Frequency weighting "A" not C or Flat.

#### Table name

LA01 min (dBA)	LAeq15min (dBA)	LA90 (dBA)	Exceedance of NML (LAeq15min)	Exceedance of RBL (LAeq15min)	Difference to Predicted level (LAeq15min)	Comment
63.2	51.1	43.1	No	Yes	-4	Noise level within noise goals

#### Photo and video



See full page photos attached at end of PDF



**Organisation:** Ward Civil  
**Project:** 711 - Meadowbank  
**Team:** Construction

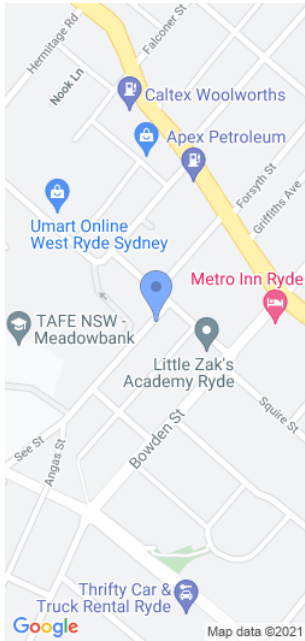
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**Template Version:** 2    **Form Version:** 1.3  
**Form created:** Tue, 05 Oct 2021, 3:52 pm (UTC +11:00)

**Signature**

-

**Signature**

-



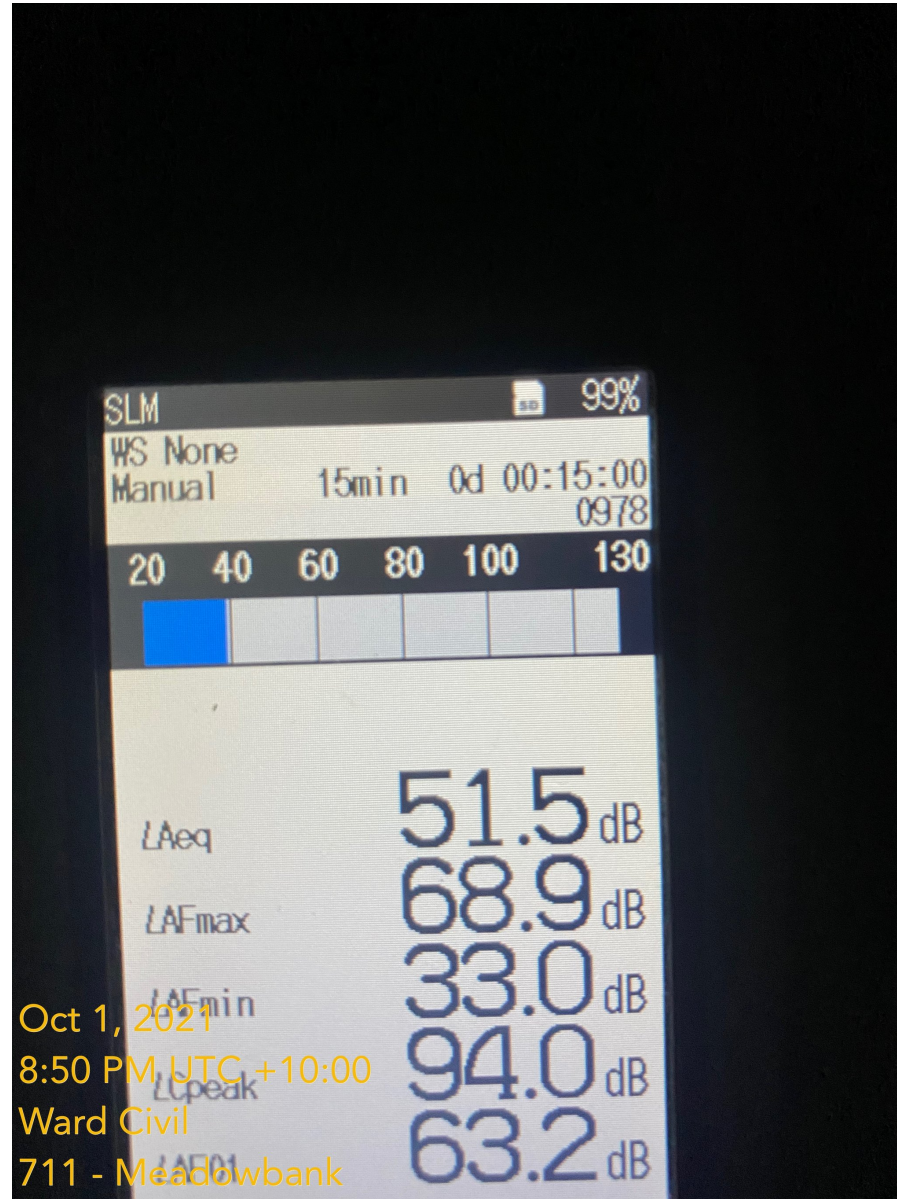
**Captured by:** Vanessa Zbinden

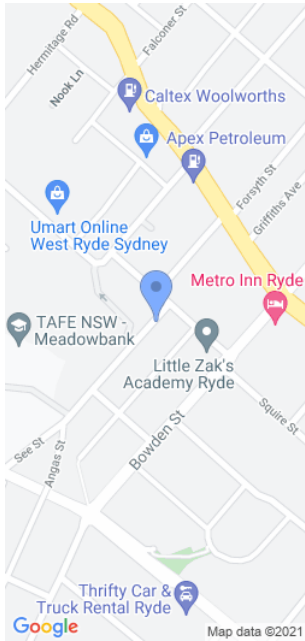
**Captured on:** Fri, 01 Oct 2021, 8:50 pm

**Tags:**

**Description:**

**Comments:**





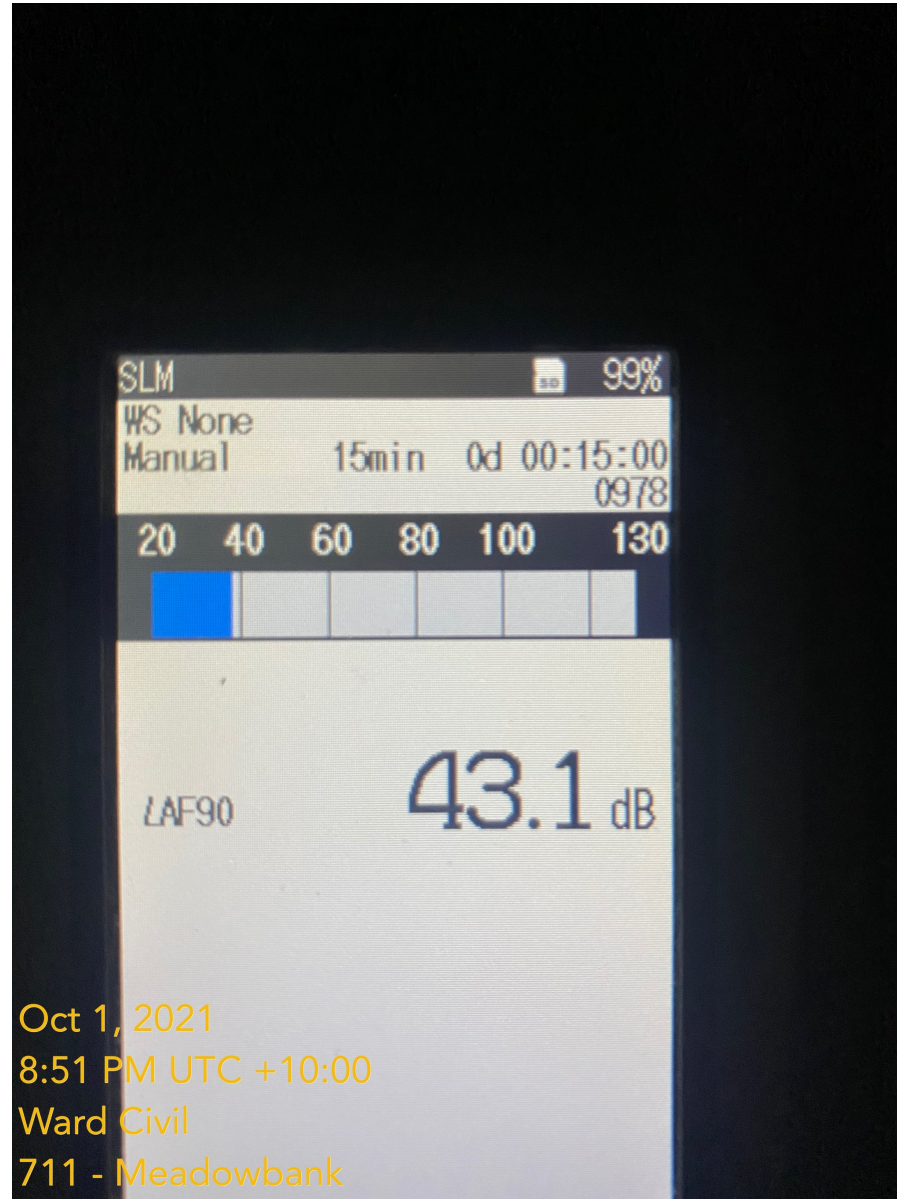
**Captured by:** Vanessa Zbinden

**Captured on:** Fri, 01 Oct 2021, 8:51 pm

**Tags:**

**Description:**

**Comments:**





Description
Urban
Main source was traffic

#### Sound Meter Record

Sound Level Meter	Serial	Make:	Model
	00553919	RION	NL-52

#### Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

**Test Procedure** AS 1055.1:1997 and AS 2659.2:1983

#### Noise Catchment Area (See ECM)

NCA Number
N/A

#### Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
	52/57	

#### Predicted Noise Levels

LAeq15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
57	Noise assessment - Table 5-2

#### Subjective Assessment (mark all that apply)



Construction Noise Inaudible	NA
Construction Noise Sometimes Audible	Yes
Construction Noise Audible at Most Times	Yes
Construction Noise Clearly Audible	No
Construction Noise is Dominant Noise Source	No
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

#### Estimated Noise Level

##### dBA

(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.g. construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

#### Sound Meter Assessment

##### Times

Start Time (24hr clock)	21:22
End Time (24hr clock)	21:37

##### Text

Select time weighting "Fast" not Slow.

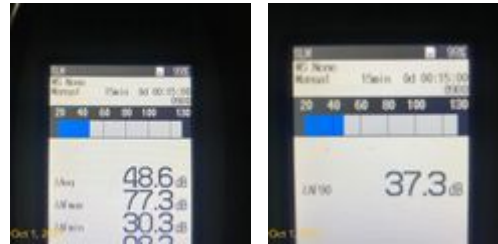
Select Frequency weighting "A" not C or Flat.

#### Table name

LA01 min (dBA)	LAeq15min (dBA)	LA90 (dBA)	Exceedance of NML (LAeq15min)	Exceedance of RBL (LAeq15min)	Difference to Predicted level (LAeq15min)	Comment
56.2	48.6	37.3	No	No	-9	Noise level within noise goals



Photo and video



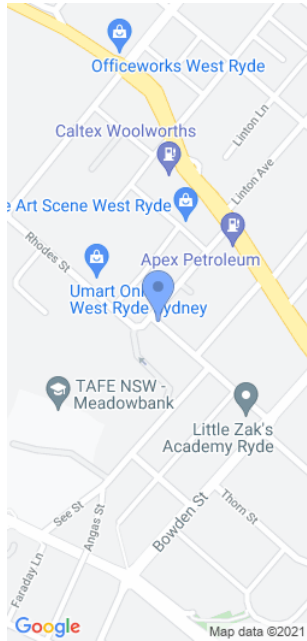
See full page photos attached at end of PDF

Signature

-

Signature

-



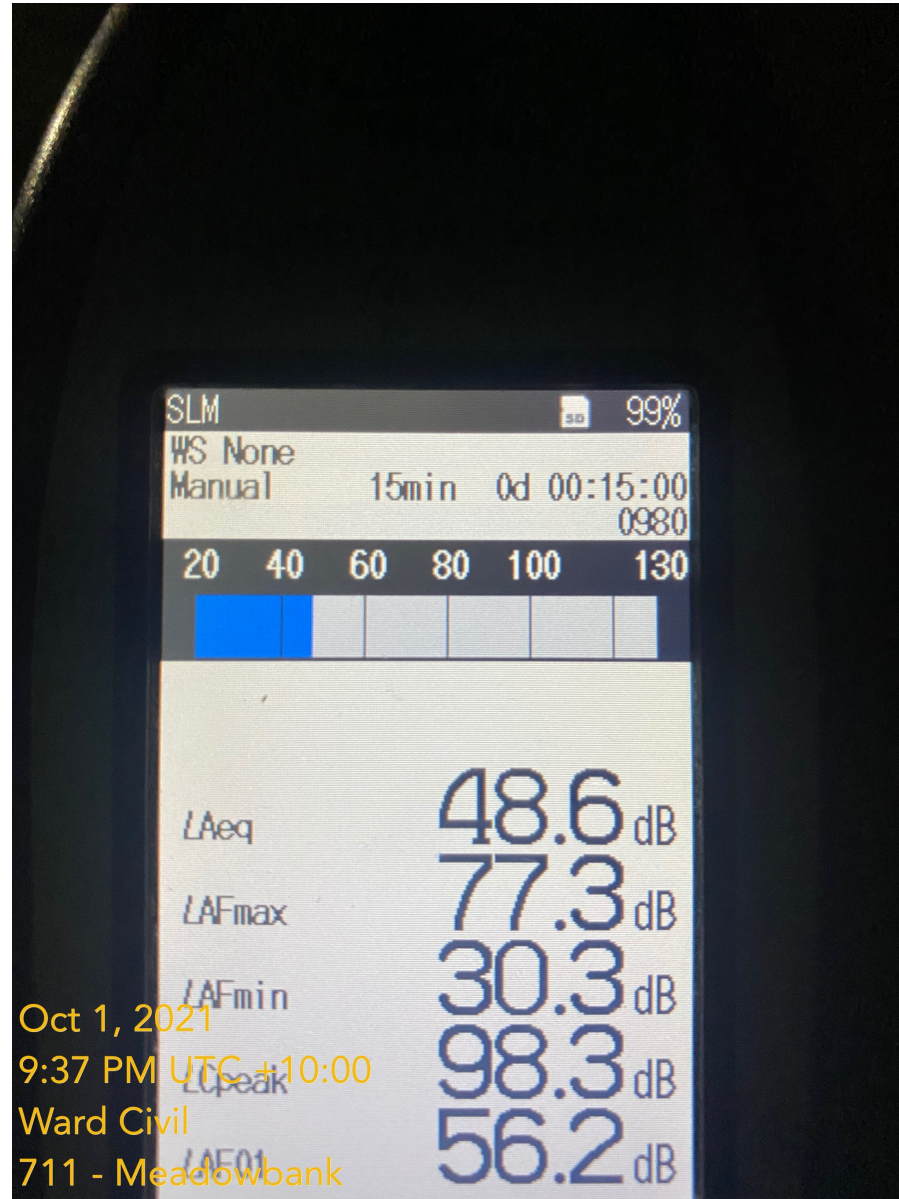
**Captured by:** Vanessa Zbinden

**Captured on:** Fri, 01 Oct 2021, 9:37 pm

**Tags:**

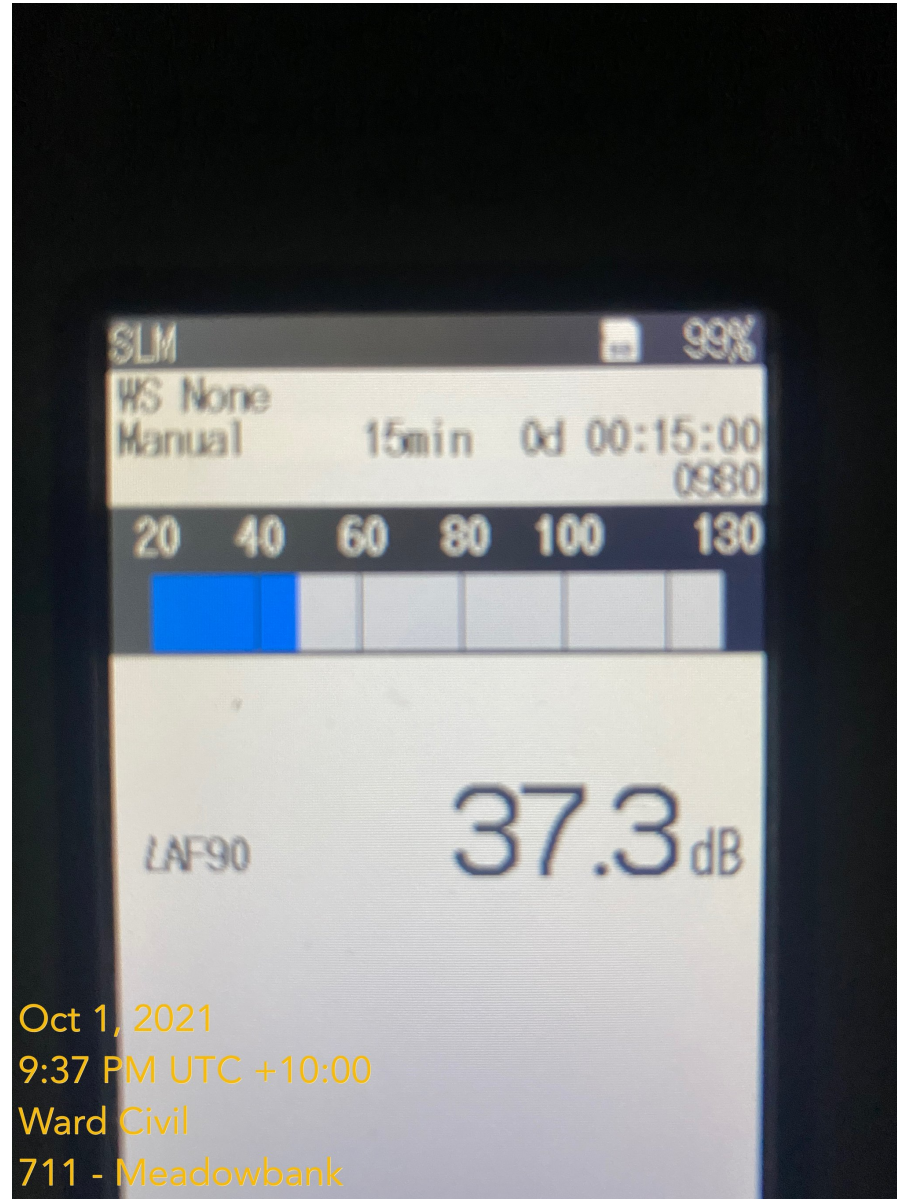
**Description:**

**Comments:**





**Captured by:** Vanessa Zbinden  
**Captured on:** Fri, 01 Oct 2021, 9:37 pm  
**Tags:**  
**Description:**  
**Comments:**



# Noise Verification Checklist

## Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes street       1 x 5t excavator  2 x Bogie 8 wheels  2 x Pavement profiler  1 x 14t excavator  1 x Roller  Traffic control	See street Receiver 3	220m to nearest source	984

## Date & Time of Test

Start: Fri, 01 Oct 2021, 10:54 pm

End: Fri, 01 Oct 2021, 11:09 pm

## Test Conducted By

Name
Vanessa Zbinden

## Meteorological Conditions

Temperture	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
18	51%	cloudy	no rain during monitoring	calm	-

## Noise Environment

Description
-------------

Description
Urban Main source Traffic

#### Sound Meter Record

Sound Level Meter	Serial	Make:	Model
	553919	RION	NL-52

#### Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

**Test Procedure** AS 1055.1:1997 and AS 2659.2:1983

#### Noise Catchment Area (See ECM)

NCA Number
n/a

#### Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
		41/46

#### Predicted Noise Levels

LAeq15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
46	Noise assessment - Table 5-2

#### Subjective Assessment (mark all that apply)

Construction Noise Inaudible No

Construction Noise Sometimes Audible	Yes
Construction Noise Audible at Most Times	No
Construction Noise Clearly Audible	No
Construction Noise is Dominant Noise Source	No
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

#### Estimated Noise Level

##### dBA

(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

#### Sound Meter Assessment

Times	
Start Time (24hr clock)	22:54
End Time (24hr clock)	23:09

#### Text

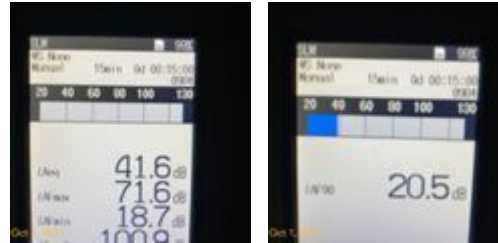
Select time weighting "Fast" not Slow.

Select Frequency weighting "A" not C or Flat.

#### Table name

LA01 min (dBA)	LAeq15min (dBA)	LA90 (dBA)	Exceedance of NML (LAeq15min)	Exceedance of RBL (LAeq15min)	Difference to Predicted level (LAeq15min)	Comment
49.8	41.6	30.5	No	Yes	-5	Noise level within noise goals

Photo and video



See full page photos attached at end of PDF

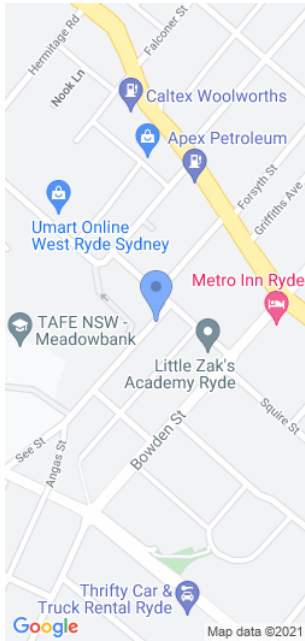
Signature

-

Signature

-





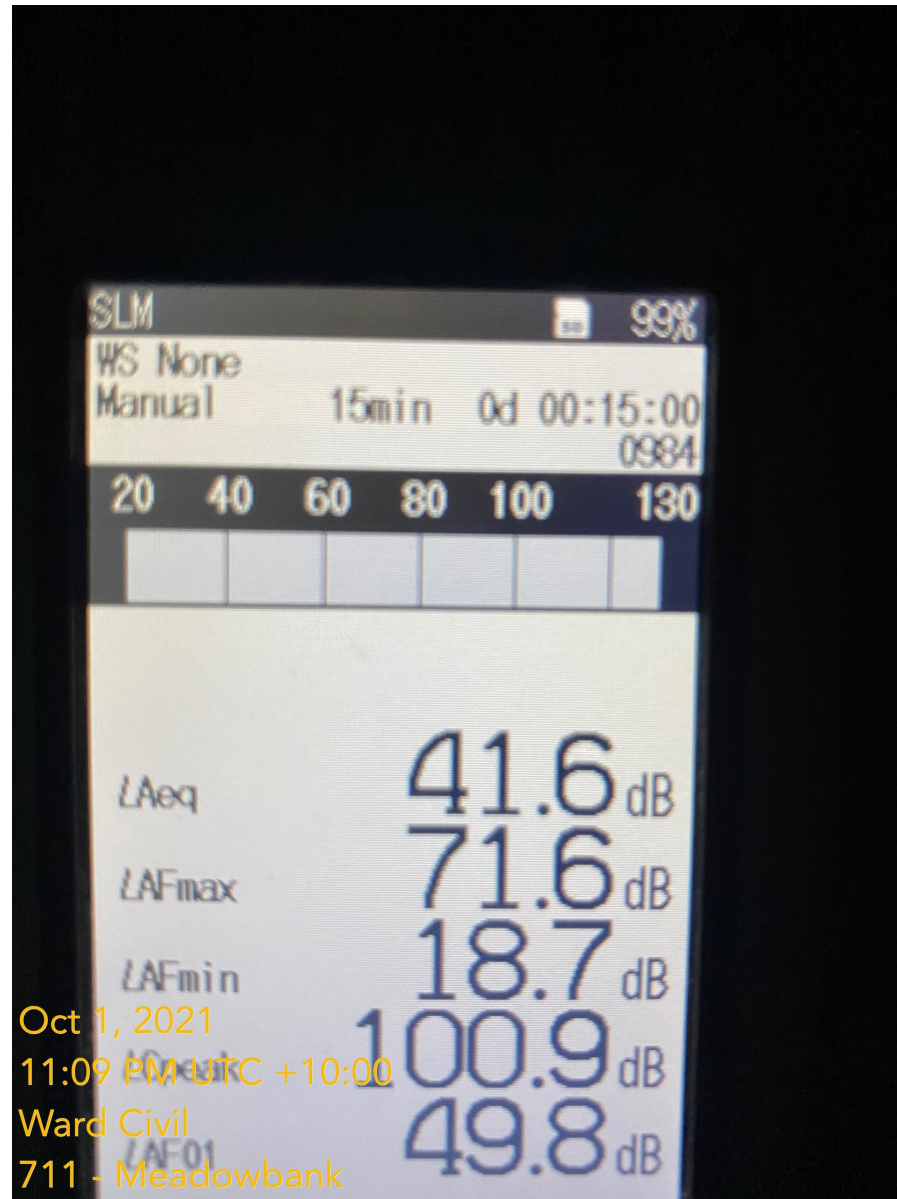
**Captured by:** Vanessa Zbinden

**Captured on:** Fri, 01 Oct 2021, 11:09 pm

**Tags:**

**Description:**

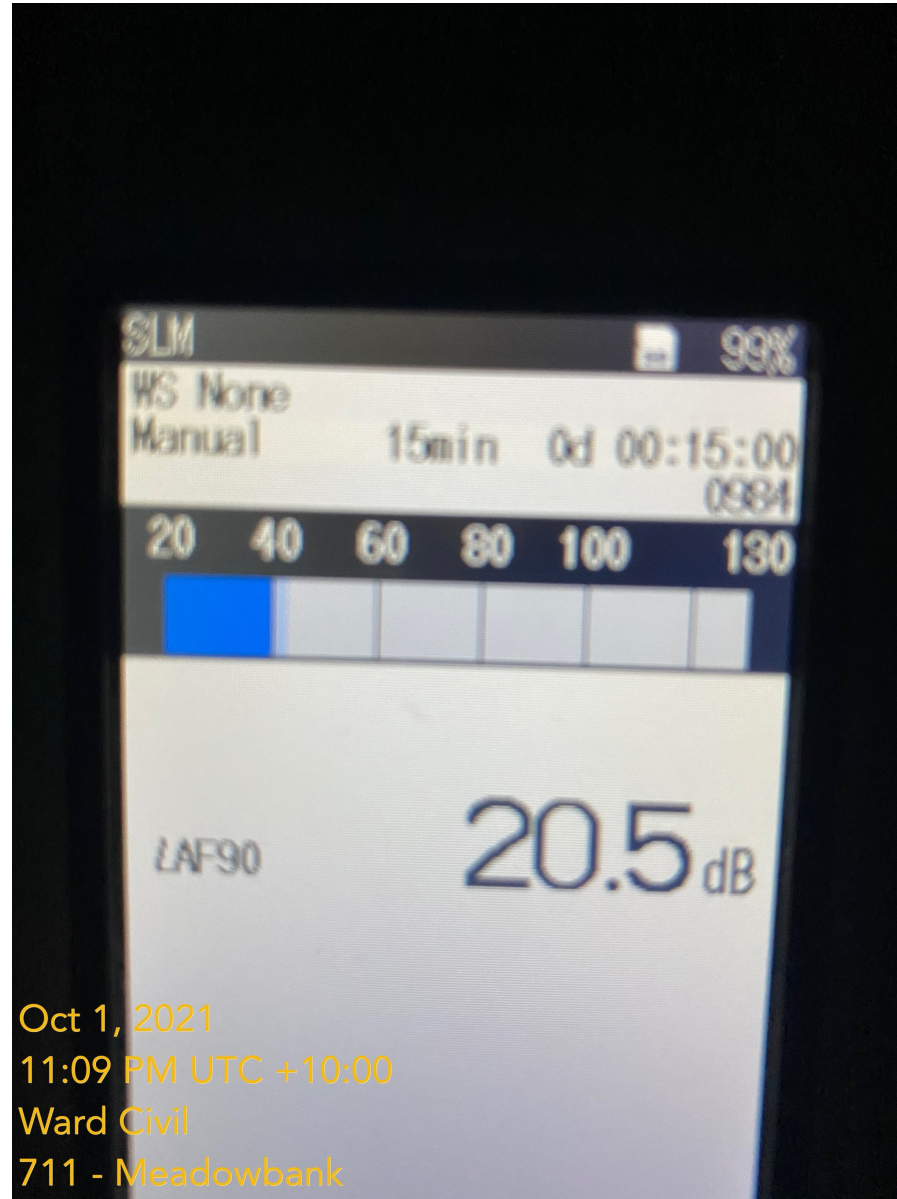
**Comments:**







**Captured by:** Vanessa Zbinden  
**Captured on:** Fri, 01 Oct 2021, 11:09 pm  
**Tags:**  
**Description:**  
**Comments:**



## Noise Verification Checklist

### Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes street  1 x 5t excavator 2 x Bogie 8 wheels 2 x Pavement profiler 1 x 14t excavator 1 x Roller Traffic control	Macpherson St residences (receiver 2)	120m to nearest source	985

### Date & Time of Test

Start: Fri, 01 Oct 2021, 11:15 pm

End: Fri, 01 Oct 2021, 11:30 pm

### Test Conducted By

Name
Vanessa Zbinden

### Meteorological Conditions

Temperture	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
17	51%	cloudy	no rain during monitoring	calm	-

### Noise Environment

Description
Urban, main source was traffic, Ward activities not audible most of the time

#### Sound Meter Record

Sound Level Meter	Serial	Make:	Model
	00553919	RION	NL-52

#### Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

**Test Procedure** AS 1055.1:1997 and AS 2659.2:1983

#### Noise Catchment Area (See ECM)

NCA Number
N/A

#### Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
		42/47

#### Predicted Noise Levels

LAeq15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
47	Noise level within noise goals

#### Subjective Assessment (mark all that apply)

Construction Noise Inaudible	NA
Construction Noise Sometimes Audible	Yes
Construction Noise Audible at Most Times	No
Construction Noise Clearly Audible	No

Construction Noise is Dominant Noise Source	No
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

#### Estimated Noise Level

##### dBA

(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

#### Sound Meter Assessment

##### Times

Start Time (24hr clock)	23:15
End Time (24hr clock)	23:30

##### Text

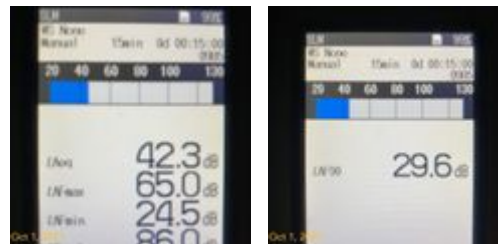
Select time weighting "Fast" not Slow.

Select Frequency weighting "A" not C or Flat.

#### Table name

LA01 min (dBA)	LAeq15min (dBA)	LA90 (dBA)	Exceedance of NML (LAeq15min)	Exceedance of RBL (LAeq15min)	Difference to Predicted level (LAeq15min)	Comment
50.7	42.3	29.6	No	Yes	5	Noise level within noise goals

#### Photo and video



See full page photos attached at end of PDF



**Organisation:** Ward Civil  
**Project:** 711 - Meadowbank  
**Team:** Construction

**Template ID:** W-EN-FM-12  
**Template Version:** 2    **Form Version:** 1.3  
**Form created:** Tue, 05 Oct 2021, 3:54 pm (UTC +11:00)

**Signature**

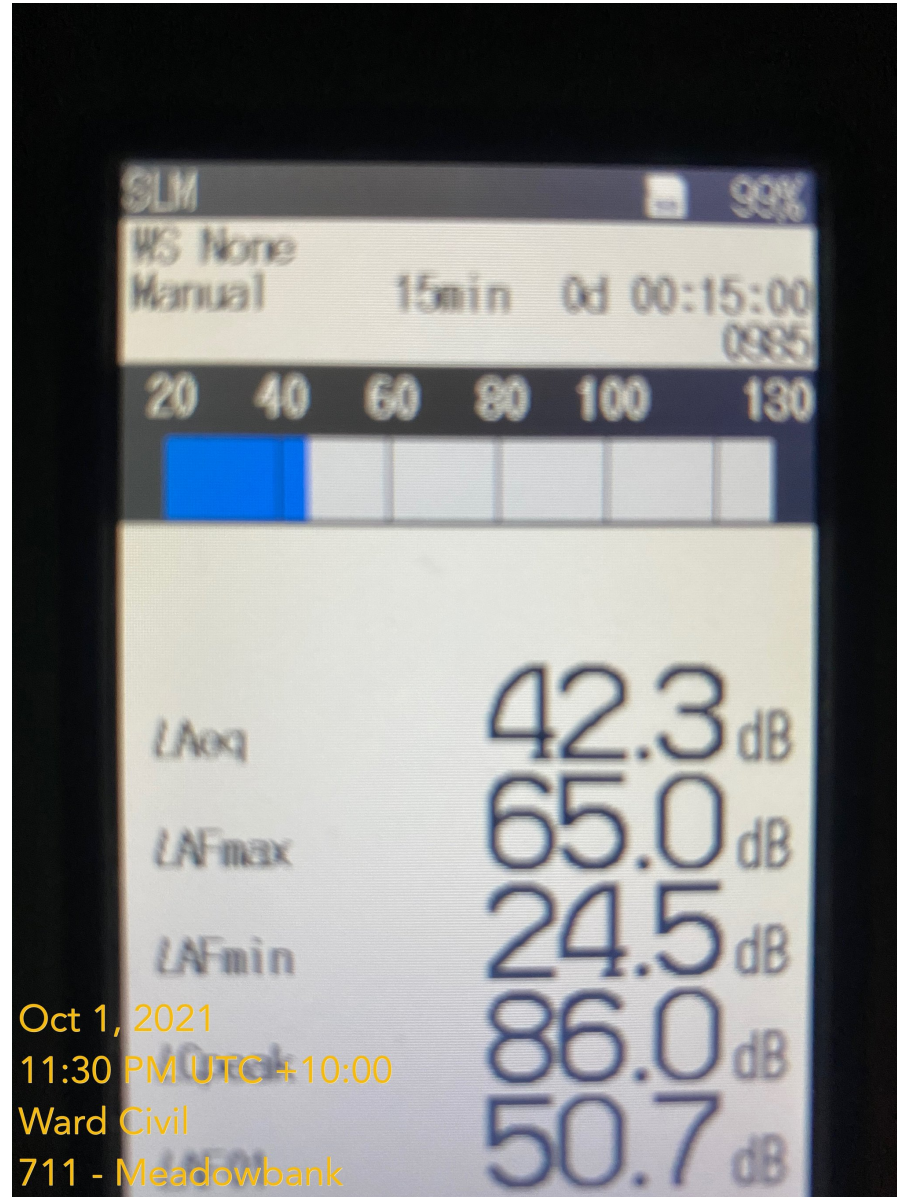
-

**Signature**

-



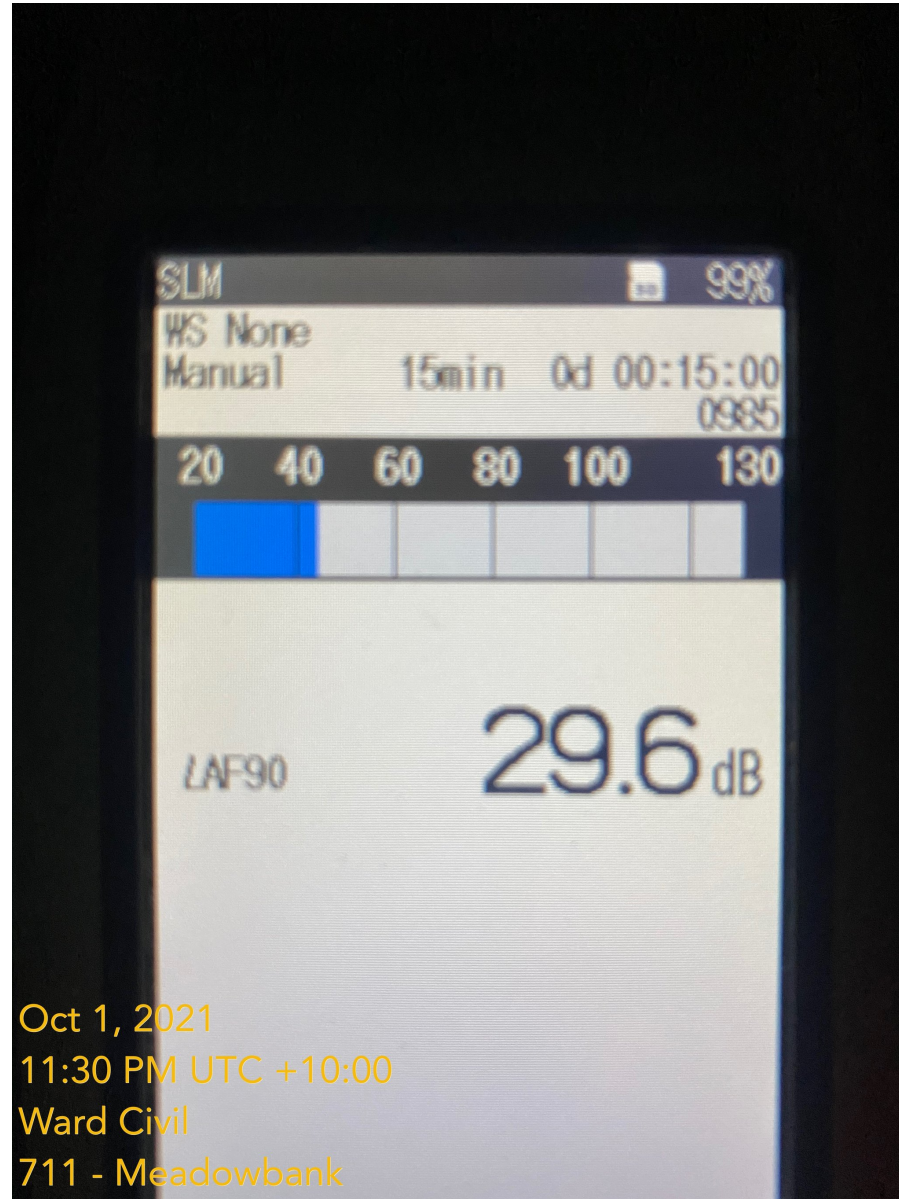
**Captured by:** Vanessa Zbinden  
**Captured on:** Fri, 01 Oct 2021, 11:30 pm  
**Tags:**  
**Description:**  
**Comments:**







**Captured by:** Vanessa Zbinden  
**Captured on:** Fri, 01 Oct 2021, 11:30 pm  
**Tags:**  
**Description:**  
**Comments:**



## Noise Verification Checklist

### Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes Street  1 x 5t excavator  1 x 14t excavator  1 x Roller  2 x Bogie 8 wheels  Traffic control	Macpherson St residences (receiver 2)	120m to nearest source	986

### Date & Time of Test

Start: Sun, 03 Oct 2021, 11:03 am

End: Sun, 03 Oct 2021, 11:18 am

### Test Conducted By

Name
Vanessa Zbinden

### Meteorological Conditions

Temperature	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
20	56%	Clear	No rain during monitoring	Calm	-

### Noise Environment

Description
Urban  Main source was traffic



#### Sound Meter Record

Sound Level Meter	Serial	Make:	Model
	553919	RION	NL-52

#### Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

**Test Procedure** AS 1055.1:1997 and AS 2659.2:1983

#### Noise Catchment Area (See ECM)

NCA Number
N/A

#### Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
52/62		

#### Predicted Noise Levels

LAeq15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
62	Noise assessment - Table 5-2

#### Subjective Assessment (mark all that apply)

Construction Noise Inaudible	No
Construction Noise Sometimes Audible	Yes
Construction Noise Audible at Most Times	No
Construction Noise Clearly Audible	No

Construction Noise is Dominant Noise Source	No
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

#### Estimated Noise Level

##### dBA

(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

#### Sound Meter Assessment

##### Times

Start Time (24hr clock)	11:03
End Time (24hr clock)	11:18

##### Text

Select time weighting "Fast" not Slow.

Select Frequency weighting "A" not C or Flat.

#### Table name

LA01 min (dBA)	LAeq15min (dBA)	LA90 (dBA)	Exceedance of NML (LAeq15min)	Exceedance of RBL (LAeq15min)	Difference to Predicted level (LAeq15min)	Comment
72.1	61.7	51.8	No	Yes	-0.3	Noise level within noise goals

#### Photo and video



See full page photos attached at end of PDF



**Organisation:** Ward Civil  
**Project:** 711 - Meadowbank  
**Team:** Construction

**Template ID:** W-EN-FM-12  
**Template Version:** 2    **Form Version:** 1.2  
**Form created:** Wed, 06 Oct 2021, 1:30 pm (UTC +11:00)

**Signature**

-

**Signature**

-



**Captured by:** Vanessa Zbinden

**Captured on:** Sun, 03 Oct 2021, 11:18 am

**Tags:**

**Description:**

**Comments:**



Oct 3, 2021  
 11:18 AM UTC +11:00  
 Ward Civil  
 711 - Meadowbank



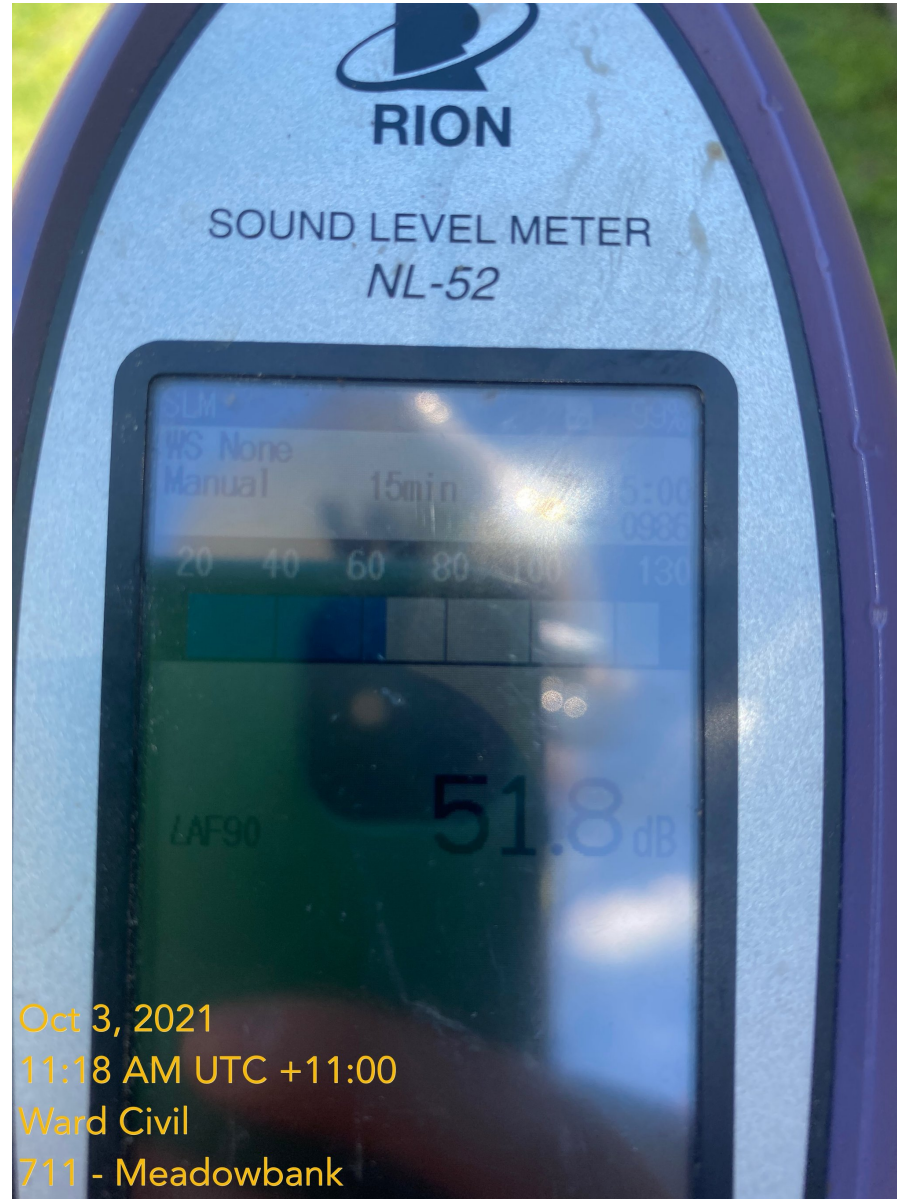
**Captured by:** Vanessa Zbinden

**Captured on:** Sun, 03 Oct 2021, 11:18 am

**Tags:**

**Description:**

**Comments:**



Oct 3, 2021  
 11:18 AM UTC +11:00  
 Ward Civil  
 711 - Meadowbank

## Noise Verification Checklist

### Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes street  1 x 5t excavator  1 x 14t excavator  1 x Roller  2 x Bogie 8 wheels  Traffic control	See street Receiver 3	220m	987

### Date & Time of Test

Start: Sun, 03 Oct 2021, 11:24 am

End: Sun, 03 Oct 2021, 11:39 am

### Test Conducted By

Name
Vanessa Zbinden

### Meteorological Conditions

Temperature	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
21	52%	Clear	No rain during monitoring	Calm	-

### Noise Environment

Description
Urban Main source was traffic

### Sound Meter Record

Sound Level Meter	Serial	Make:	Model
	00553919	RION	NL-52

#### Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

**Test Procedure** AS 1055.1:1997 and AS 2659.2:1983

#### Noise Catchment Area (See ECM)

NCA Number
N/A

#### Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
50/60		

#### Predicted Noise Levels

LAeq15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
60	Noise assessment - Table 5-2

#### Subjective Assessment (mark all that apply)

Construction Noise Inaudible	NA
Construction Noise Sometimes Audible	No
Construction Noise Audible at Most Times	No
Construction Noise Clearly Audible	No
Construction Noise is Dominant Noise Source	No



Impulsive Construction Noise Audible (e.g. rock-breaker) No

Tonal Construction Noise Audible (e.g. cutting steel) No

### Estimated Noise Level

#### dBA

(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

### Sound Meter Assessment

Times	
Start Time (24hr clock)	11:24
End Time (24hr clock)	11:39

**Text**                      Select time weighting "Fast" not Slow.  
                                  Select Frequency weighting "A" not C or Flat.

### Table name

LA01 min (dBA)	LAeq15min (dBA)	LA90 (dBA)	Exceedance of NML (LAeq15min)	Exceedance of RBL (LAeq15min)	Difference to Predicted level (LAeq15min)	Comment
65.8	53.8	41.8	No	Yes	-6.2	Noise level within noise goals

### Photo and video



See full page photos attached at end of PDF

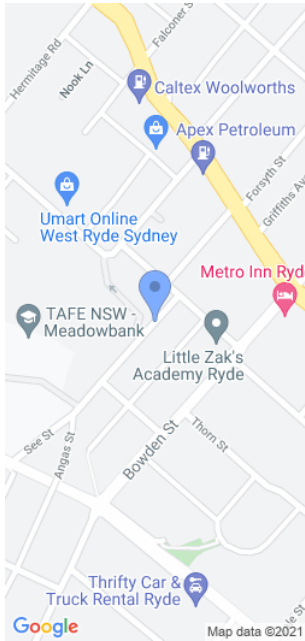
### Signature

-



**Signature**

-



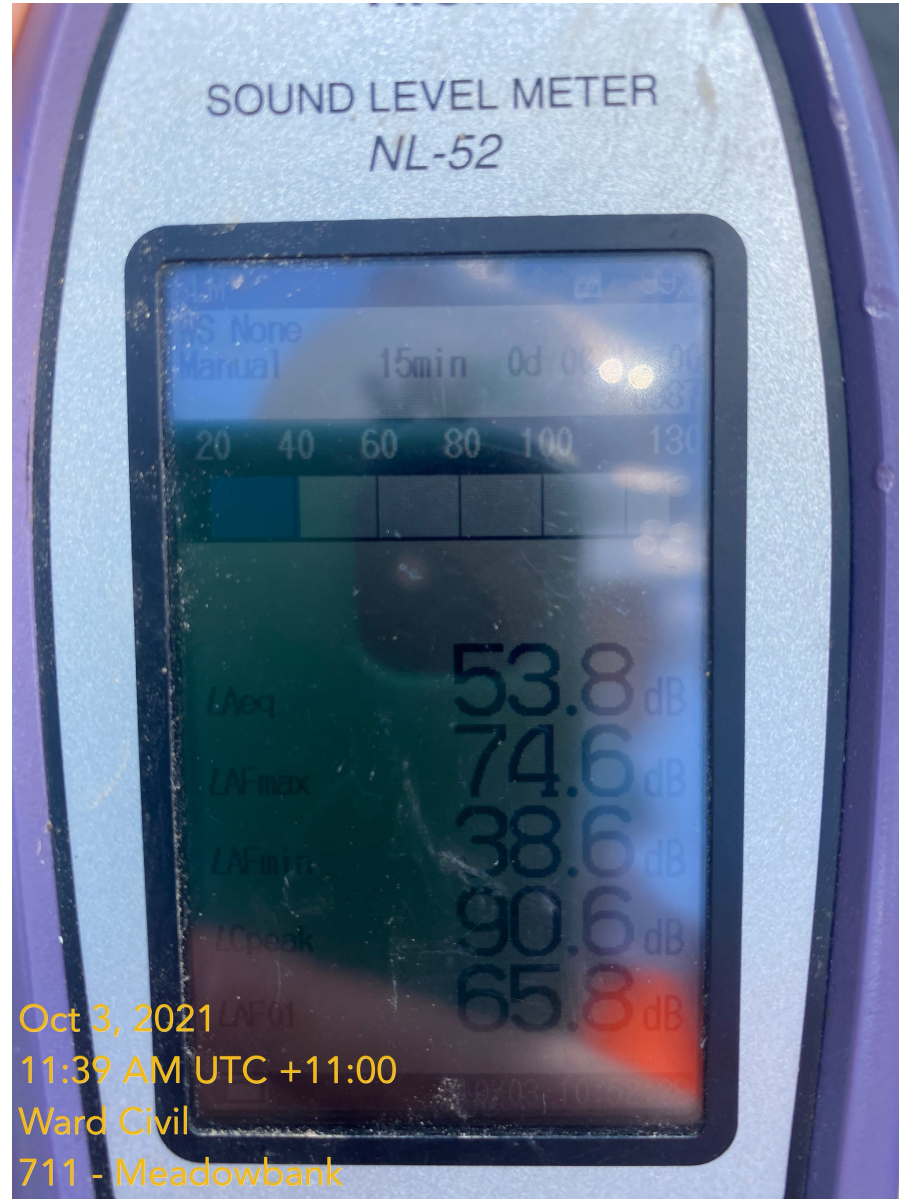
**Captured by:** Vanessa Zbinden

**Captured on:** Sun, 03 Oct 2021, 11:39 am

**Tags:**

**Description:**

**Comments:**





**Captured by:** Vanessa Zbinden

**Captured on:** Sun, 03 Oct 2021, 11:39 am

**Tags:**

**Description:**

**Comments:**



Oct 3, 2021  
 11:39 AM UTC +11:00  
 Ward Civil  
 711 - Meadowbank

## Noise Verification Checklist

### Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes Street  1 x Pavement Laying Machine  1 x Pneumatic Roller (Multi-Tyre)  2 x Bogie  1 x Bob cat  1 x Water Cart  Traffic control	Macpherson St residences (receiver 2)	120	214

### Date & Time of Test

Start: Tue, 05 Oct 2021, 8:44 pm

End: Tue, 05 Oct 2021, 8:59 pm

### Test Conducted By

Name
Rowan Grace

### Meteorological Conditions

Temperture	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
15.9	-	Clear	No rain during monitoring	Calm	-

### Noise Environment

Description
Urban Trucks idling dominant noise source

#### Sound Meter Record

Sound Level Meter	Serial	Make:	Model
		RION	NL-52

#### Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

**Test Procedure** AS 1055.1:1997 and AS 2659.2:1983

#### Noise Catchment Area (See ECM)

NCA Number
N/A

#### Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
	52/57	

#### Predicted Noise Levels

LAeq15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
57	Noise assessment - Table 5-2

#### Subjective Assessment (mark all that apply)

Construction Noise Inaudible	NA
Construction Noise Sometimes Audible	Yes
Construction Noise Audible at Most Times	Yes
Construction Noise Clearly Audible	Yes

Construction Noise is Dominant Noise Source	Yes
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

#### Estimated Noise Level

##### dBA

(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

#### Sound Meter Assessment

Times	
Start Time (24hr clock)	20:44
End Time (24hr clock)	20:59

#### Text

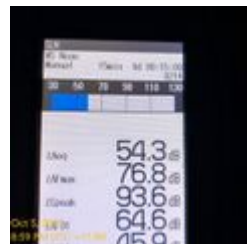
Select time weighting "Fast" not Slow.

Select Frequency weighting "A" not C or Flat.

#### Table name

LA01 min (dBA)	LAeq15min (dBA)	LA90 (dBA)	Exceedance of NML (LAeq15min)	Exceedance of RBL (LAeq15min)	Difference to Predicted level (LAeq15min)	Comment
64.6	54.3	45.9	No	Yes	-3	Noise level within noise goals

#### Photo and video



See full page photos attached at end of PDF



**Organisation:** Ward Civil  
**Project:** 711 - Meadowbank  
**Team:** Construction

**Template ID:** W-EN-FM-12  
**Template Version:** 2    **Form Version:** 1.1  
**Form created:** Wed, 06 Oct 2021, 1:54 pm (UTC +11:00)

**Signature**

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**Signature**

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**Captured by:** Rowan Grace

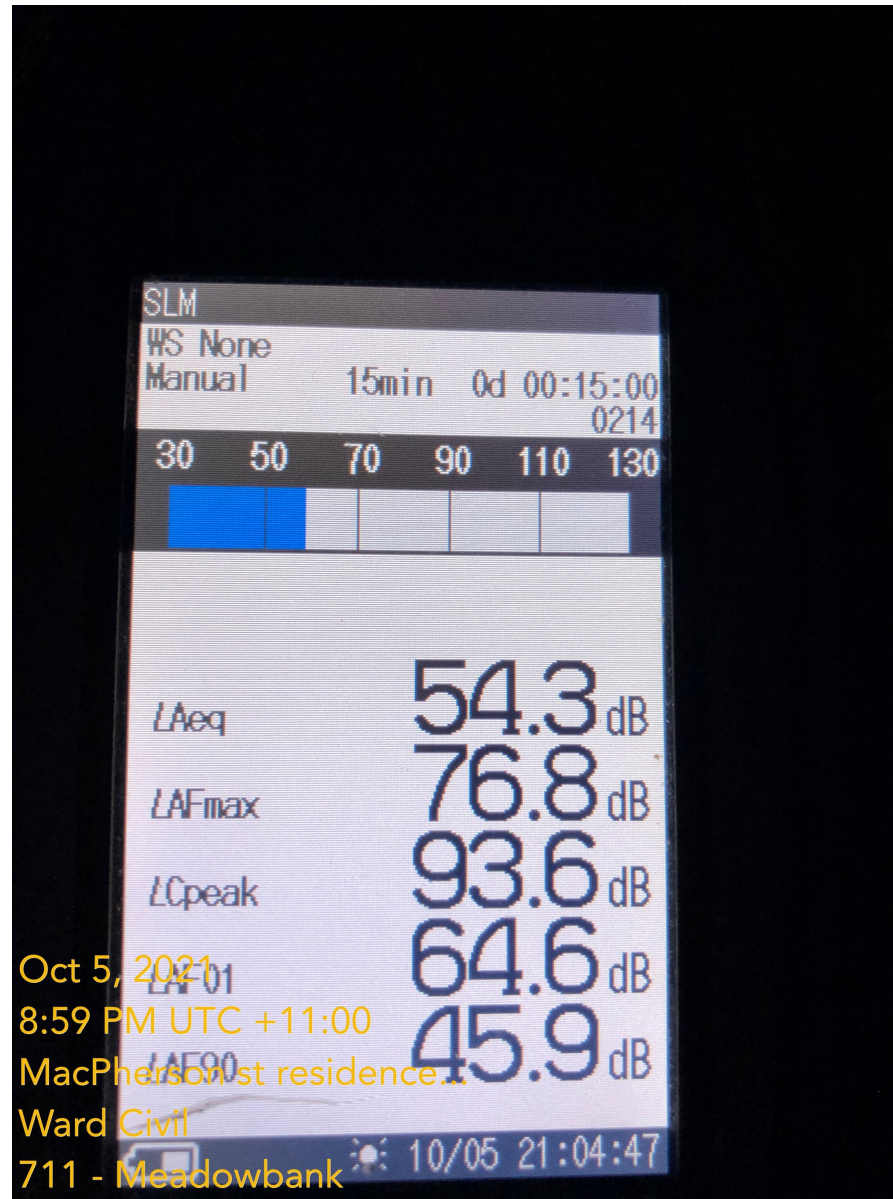
**Captured on:** Tue, 05 Oct 2021, 8:59 pm

**Tags:**

**Description:** MacPherson st residences.

Evening period. Paving up Rhodes st. Trucks idling dominant noise source

**Comments:**



Oct 5, 2021  
 8:59 PM UTC +11:00  
 MacPherson st residence...  
 Ward Civil  
 711 - Meadowbank



## Noise Verification Checklist

### Details

Location of Construction Activity	Monitoring Location	Distance to the Noise Source	Number of Record
Rhodes street  1 x Pavement Laying Machine  1 x Pneumatic Roller (Multi-Tyre)  2 x Bogie  1 x Bob cat  1 x Water Cart  Traffic control	See street Receiver 3	220m to nearest source	215

### Date & Time of Test

Start: Tue, 05 Oct 2021, 9:14 pm

End: Tue, 05 Oct 2021, 9:29 pm

### Test Conducted By

Name
Rowan Grace

### Meteorological Conditions

Temperture	Humidity	Cloud Cover	Precipitation	Wind Speed	Wind Direction
15.9	-	Clear	No rain during monitoring	Light winds	-

### Noise Environment

Description
Urban  Vehicles main source

#### Sound Meter Record

Sound Level Meter	Serial	Make:	Model
		RION	NL-52

#### Sound Meter Record

Field Calibration (External)	Level Pre-Monitoring (94.0)	Level Post-Monitoring
	94.0	94.0

**Test Procedure** AS 1055.1:1997 and AS 2659.2:1983

#### Noise Catchment Area (See ECM)

NCA Number
N/A

#### Noise Levels

Day RBL/NML (RBL/NML)	Evening RBL/NML (RBL/NML)	Night RBL/NML (RBL/NML)
	50/55	

#### Predicted Noise Levels

LAeq15min (dBA)	Noise Estimate Reference (e.g. CNVIS, OOHV specifics for the area. Names/Version)
55	Noise assessment - Table 5-2

#### Subjective Assessment (mark all that apply)

Construction Noise Inaudible	NA
Construction Noise Sometimes Audible	Yes
Construction Noise Audible at Most Times	Yes
Construction Noise Clearly Audible	Yes

Construction Noise is Dominant Noise Source	Yes
Impulsive Construction Noise Audible (e.g. rock-breaker)	No
Tonal Construction Noise Audible (e.g. cutting steel)	No

#### Estimated Noise Level

##### dBA

(At the nearest receiver, listen to the ambient and construction noise, without using any noise monitoring equipment take note of how loud you perceive the construction noise to be e.construction noise e.g. breathing 10 dBA/freight train passing 80dBA/thunder 120dBA.)

#### Sound Meter Assessment

Times	
Start Time (24hr clock)	21:14
End Time (24hr clock)	21:29

#### Text

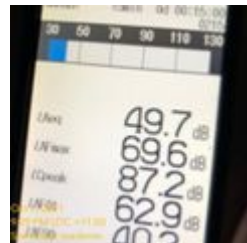
Select time weighting "Fast" not Slow.

Select Frequency weighting "A" not C or Flat.

#### Table name

LA01 min (dBA)	LAeq15min (dBA)	LA90 (dBA)	Exceedance of NML (LAeq15min)	Exceedance of RBL (LAeq15min)	Difference to Predicted level (LAeq15min)	Comment
62.9	49.7	40.2	No	No	-6	Noise level within noise goals

#### Photo and video



See full page photos attached at end of PDF

**Signature**

-

**Signature**

-



**Captured by:** Rowan Grace

**Captured on:** Tue, 05 Oct 2021, 9:29 pm

**Tags:**

**Description:** See Street residents. Evening period. Paving hum audible. Vehicles primary noise source

**Comments:**

