

Appendix A

Report 610.15897

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Acoustic Terminology

1 Sound Level or Noise Level

The terms 'sound' and 'noise' are almost interchangeable, except that in common usage 'noise' is often used to refer to unwanted sound.

Sound (or noise) consists of minute fluctuations in atmospheric pressure capable of evoking the sense of hearing. The human ear responds to changes in sound pressure over a very wide range. The loudest sound pressure to which the human ear responds is ten million times greater than the softest. The decibel (abbreviated as dB) scale reduces this ratio to a more manageable size by the use of logarithms.

The symbols SPL, L or LP are commonly used to represent Sound Pressure Level. The symbol LA represents A-weighted Sound Pressure Level. The standard reference unit for Sound Pressure Levels expressed in decibels is 2×10^{-5} Pa.

2 'A' Weighted Sound Pressure Level

The overall level of a sound is usually expressed in terms of dBA, which is measured using a sound level meter with an 'A-weighting' filter. This is an electronic filter having a frequency response corresponding approximately to that of human hearing.

People's hearing is most sensitive to sounds at mid frequencies (500 Hz to 4000 Hz), and less sensitive at lower and higher frequencies. Thus, the level of a sound in dBA is a good measure of the loudness of that sound. Different sources having the same dBA level generally sound about equally loud.

A change of 1 dBA or 2 dBA in the level of a sound is difficult for most people to detect, whilst a 3 dBA to 5 dBA change corresponds to a small but noticeable change in loudness. A 10 dBA change corresponds to an approximate doubling or halving in loudness. The table below lists examples of typical noise levels

Sound Pressure Level (dBA)	Typical Source	Subjective Evaluation
130	Threshold of pain	Intolerable
120	Heavy rock concert	Extremely noisy
110	Grinding on steel	
100	Loud car horn at 3 m	Very noisy
90	Construction site with pneumatic hammering	
80	Kerbside of busy street	Loud
70	Loud radio or television	
60	Department store	Moderate to quiet
50	General Office	
40	Inside private office	Quiet to very quiet
30	Inside bedroom	
20	Recording studio	Almost silent

Other weightings (eg B, C and D) are less commonly used than A-weighting. Sound Levels measured without any weighting are referred to as 'linear', and the units are expressed as dB(lin) or dB.

3 Sound Power Level

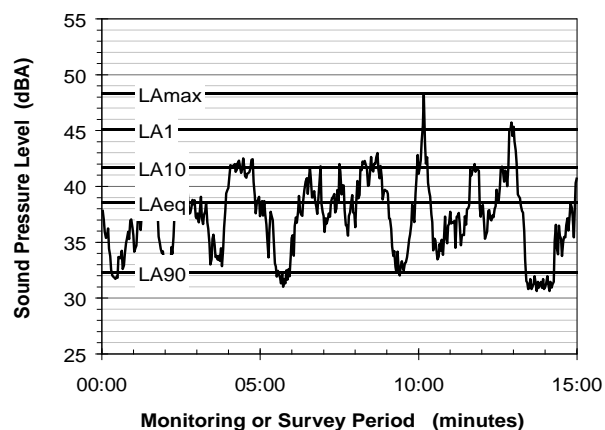
The Sound Power of a source is the rate at which it emits acoustic energy. As with Sound Pressure Levels, Sound Power Levels are expressed in decibel units (dB or dBA), but may be identified by the symbols SWL or Lw, or by the reference unit 10^{-12} W.

The relationship between Sound Power and Sound Pressure may be likened to an electric radiator, which is characterised by a power rating, but has an effect on the surrounding environment that can be measured in terms of a different parameter, temperature.

4 Statistical Noise Levels

Sounds that vary in level over time, such as road traffic noise and most community noise, are commonly described in terms of the statistical exceedance levels LAN, where LAN is the A-weighted sound pressure level exceeded for N% of a given measurement period. For example, the LA1 is the noise level exceeded for 1% of the time, LA10 the noise exceeded for 10% of the time, and so on.

The following figure presents a hypothetical 15 minute noise survey, illustrating various common statistical indices of interest.



Of particular relevance, are:

- LA1 The noise level exceeded for 1% of the 15 minute interval.
- LA10 The noise level exceeded for 10% of the 15 minute interval. This is commonly referred to as the average maximum noise level.
- LA90 The noise level exceeded for 90% of the sample period. This noise level is described as the average minimum background sound level (in the absence of the source under consideration), or simply the background level.
- LAeq The A-weighted equivalent noise level (basically the average noise level). It is defined as the steady sound level that contains the same amount of acoustical energy as the corresponding time-varying sound.
- LAmax The maximum noise level recorded during the measurement interval
- LAE The LAeq normalized to a 1 second period, representative of the total Sound Energy. Also referred to as the Sound Exposure Level (SEL).

When dealing with numerous days of statistical noise data, it is sometimes necessary to define the typical noise levels at a given monitoring location for a particular time of day. A standardised method is available for determining these representative levels.

This method produces a level representing the 'repeatable minimum' LA90 noise level over the daytime and night-time measurement periods, as required by the EPA. In addition the method produces mean or 'average' levels representative of the other descriptors (LAeq, LA10, etc).

5 Tonality

Tonal noise contains one or more prominent tones (ie distinct frequency components), and is normally regarded as more offensive than 'broad band' noise.

6 Impulsiveness

An impulsive noise is characterised by one or more short sharp peaks in the time domain, such as occurs during hammering.

7 Frequency Analysis

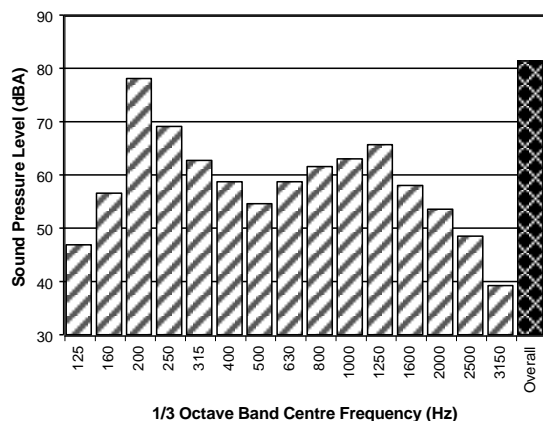
Frequency analysis is the process used to examine the tones (or frequency components) which make up the overall noise or vibration signal. This analysis was traditionally carried out using analogue electronic filters, but is now normally carried out using Fast Fourier Transform (FFT) analysers.

The units for frequency are Hertz (Hz), which represent the number of cycles per second.

Frequency analysis can be in:

- Octave bands (where the centre frequency and width of each band is double the previous band)
- 1/3 octave bands (3 bands in each octave band)
- Narrow band (where the spectrum is divided into 400 or more bands of equal width)

The following figure shows a 1/3 octave band frequency analysis where the noise is dominated by the 200 Hz band. Note that the indicated level of each individual band is less than the overall level, which is the logarithmic sum of the bands.



8 Vibration

Vibration may be defined as cyclic or transient motion. This motion can be measured in terms of its displacement, velocity or acceleration. Most assessments of human response to vibration or the risk of damage to buildings use measurements of vibration velocity. These may be expressed in terms of 'peak' velocity or 'rms' velocity.

The former is the maximum instantaneous velocity, without any averaging, and is sometimes referred to as 'peak particle velocity', or PPV. The latter incorporates 'root mean squared' averaging over some defined time period.

Vibration measurements may be carried out in a single axis or alternatively as triaxial measurements. Where triaxial measurements are used, the axes are commonly designated vertical, longitudinal (aligned toward the source) and transverse.

The common units for velocity are millimetres per second (mm/s). As with noise, decibel units can also be used, in which case the reference level should always be stated. A vibration level V , expressed in mm/s can be converted to decibels by the formula $20 \log (V/V_0)$, where V_0 is the reference level (10^{-9} m/s). Care is required in this regard, as other reference levels may be used by some organizations.

9 Human Perception of Vibration

People are able to 'feel' vibration at levels lower than those required to cause even superficial damage to the most susceptible classes of building (even though they may not be disturbed by the motion). An individual's perception of motion or response to vibration depends very strongly on previous experience and expectations, and on other connotations associated with the perceived source of the vibration. For example, the vibration that a person responds to as 'normal' in a car, bus or train is considerably higher than what is perceived as 'normal' in a shop, office or dwelling.

10 Over-Pressure

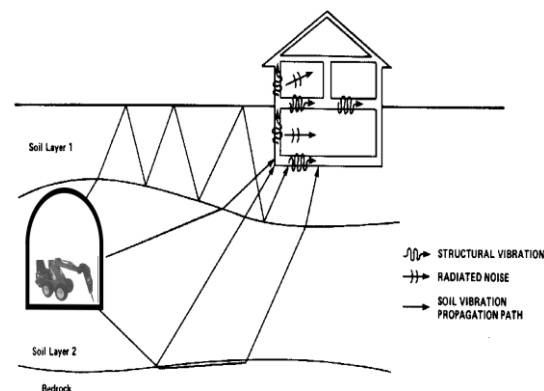
The term 'over-pressure' is used to describe the air pressure pulse emitted during blasting or similar events. The peak level of an event is normally measured using a microphone in the same manner as linear noise (ie unweighted), at frequencies both in and below the audible range.

11 Ground-borne Noise, Structure-borne Noise and Regenerated Noise

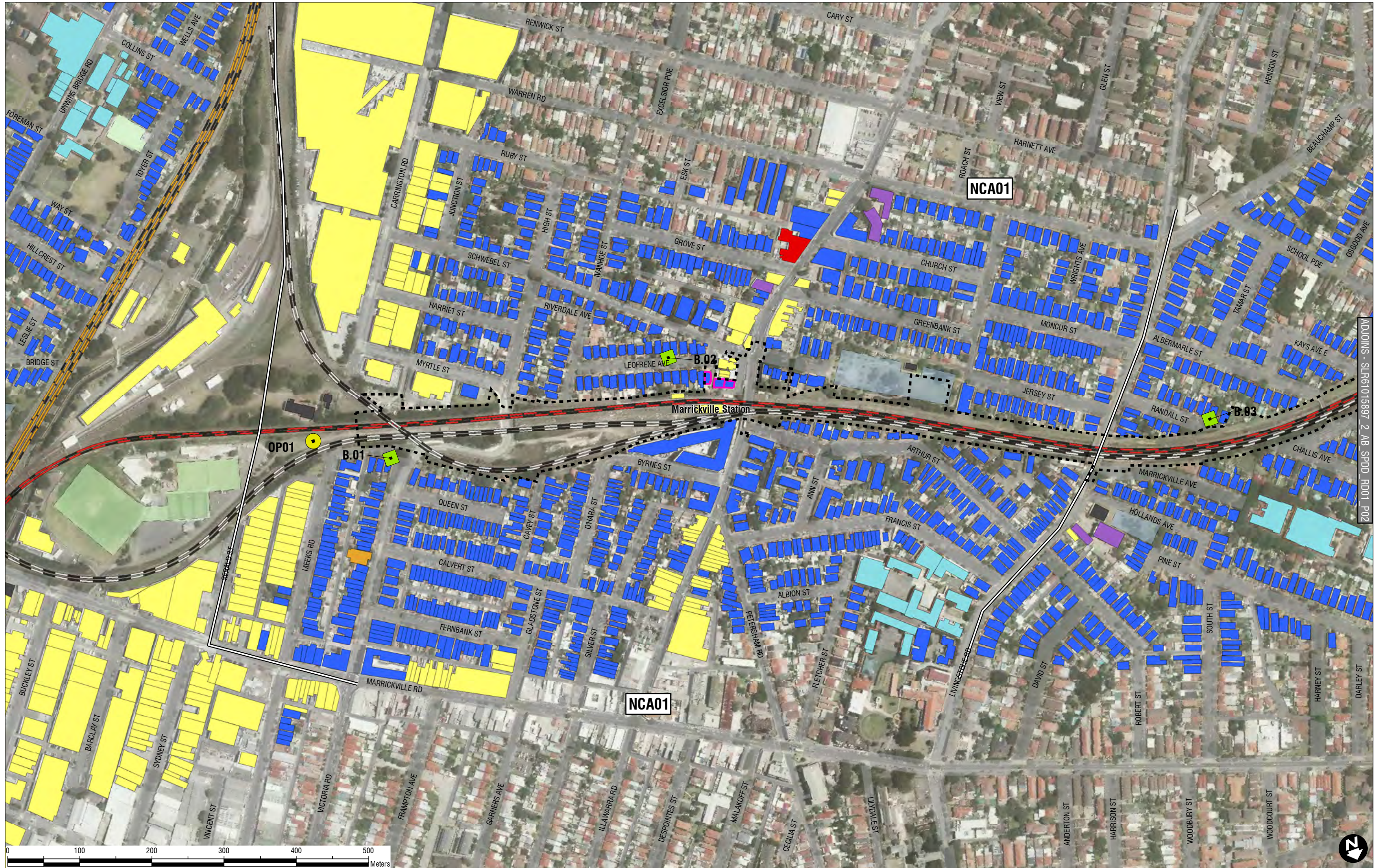
Noise that propagates through a structure as vibration and is radiated by vibrating wall and floor surfaces is termed 'structure-borne noise', 'ground-borne noise' or 'regenerated noise'. This noise originates as vibration and propagates between the source and receiver through the ground and/or building structural elements, rather than through the air.

Typical sources of ground-borne or structure-borne noise include tunnelling works, underground railways, excavation plant (eg rockbreakers), and building services plant (eg fans, compressors and generators).

The following figure presents the various paths by which vibration and ground-borne noise may be transmitted between a source and receiver for construction activities occurring within a tunnel.



The term 'regenerated noise' is also used in other instances where energy is converted to noise away from the primary source. One example would be a fan blowing air through a discharge grill. The fan is the energy source and primary noise source. Additional noise may be created by the aerodynamic effect of the discharge grill in the airstream. This secondary noise is referred to as regenerated noise



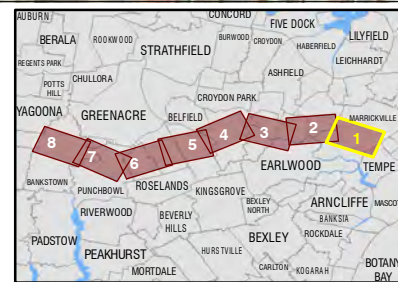
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Operational Noise & Vibration Measurement Positions	— Noise Catchment Areas	Receiver Types	■ Other (Childcare)
● Noise	— Freight Rail Tracks	■ Residential	■ Other (Remaining)
● Noise & Vibration	— Light Rail Tracks	■ Commercial	■ Outdoor Active
■ Monitoring Locations	— Metro Rail Tracks	■ Other (Educational)	■ Outdoor Passive
■ Project Area	— Sydney Trains Rail Tracks	■ Other (Medical)	■ Aquisitions
		■ Other (Place of Worship)	

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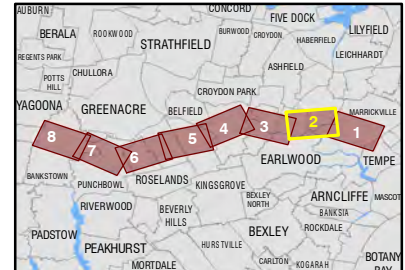


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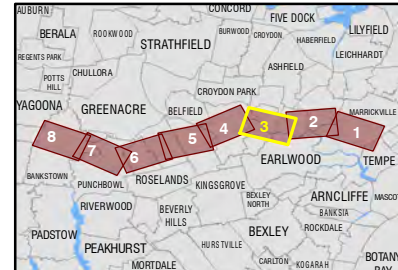
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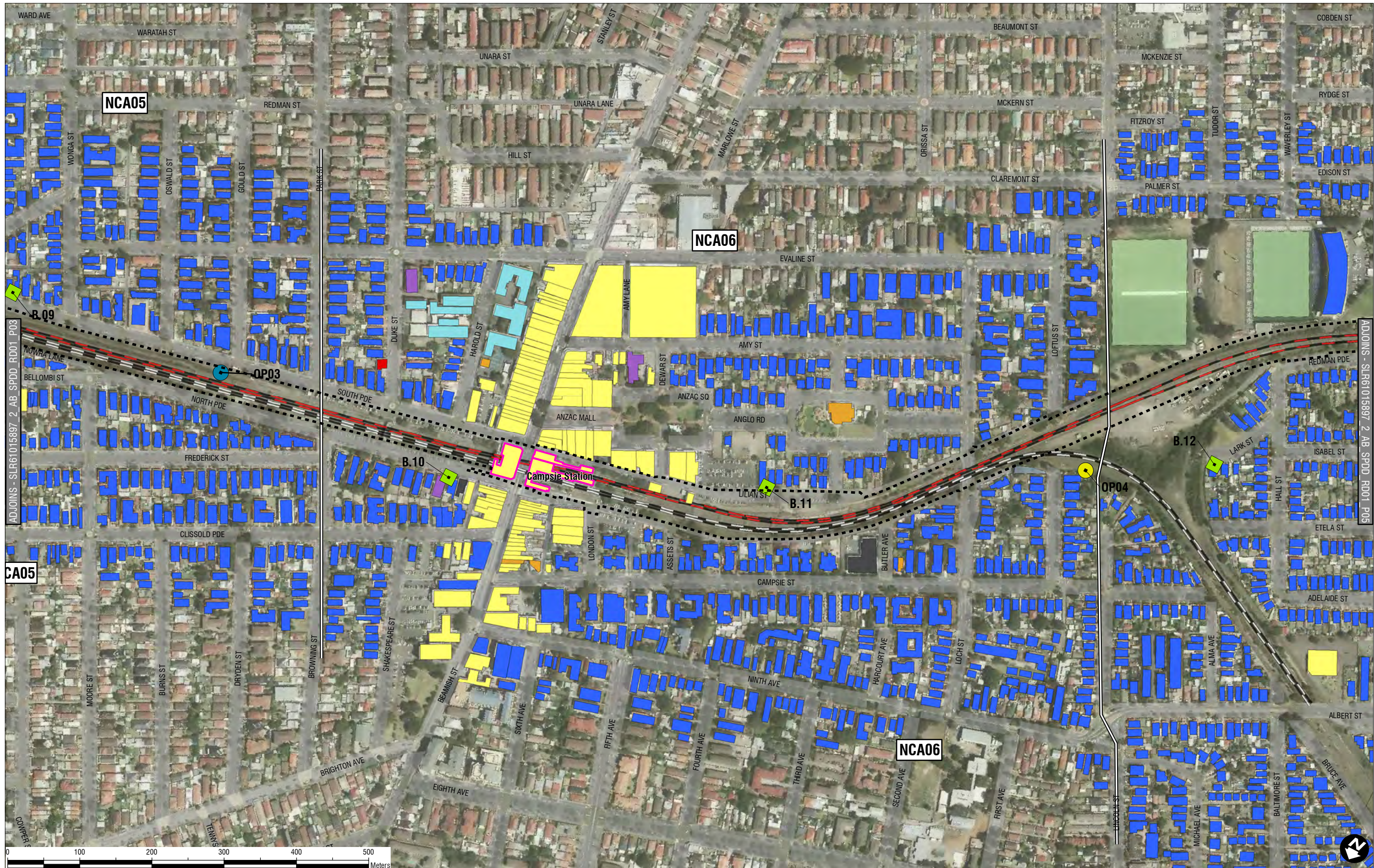


Operational Noise & Vibration Measurement Positions	— Noise Catchment Areas	Receiver Types	■ Other (Childcare)
● Noise	— Freight Rail Tracks	■ Residential	■ Other (Remaining)
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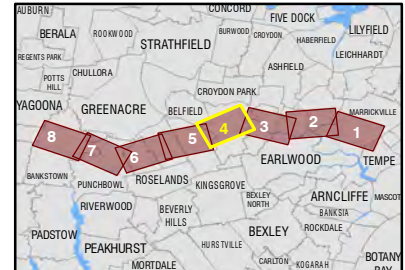
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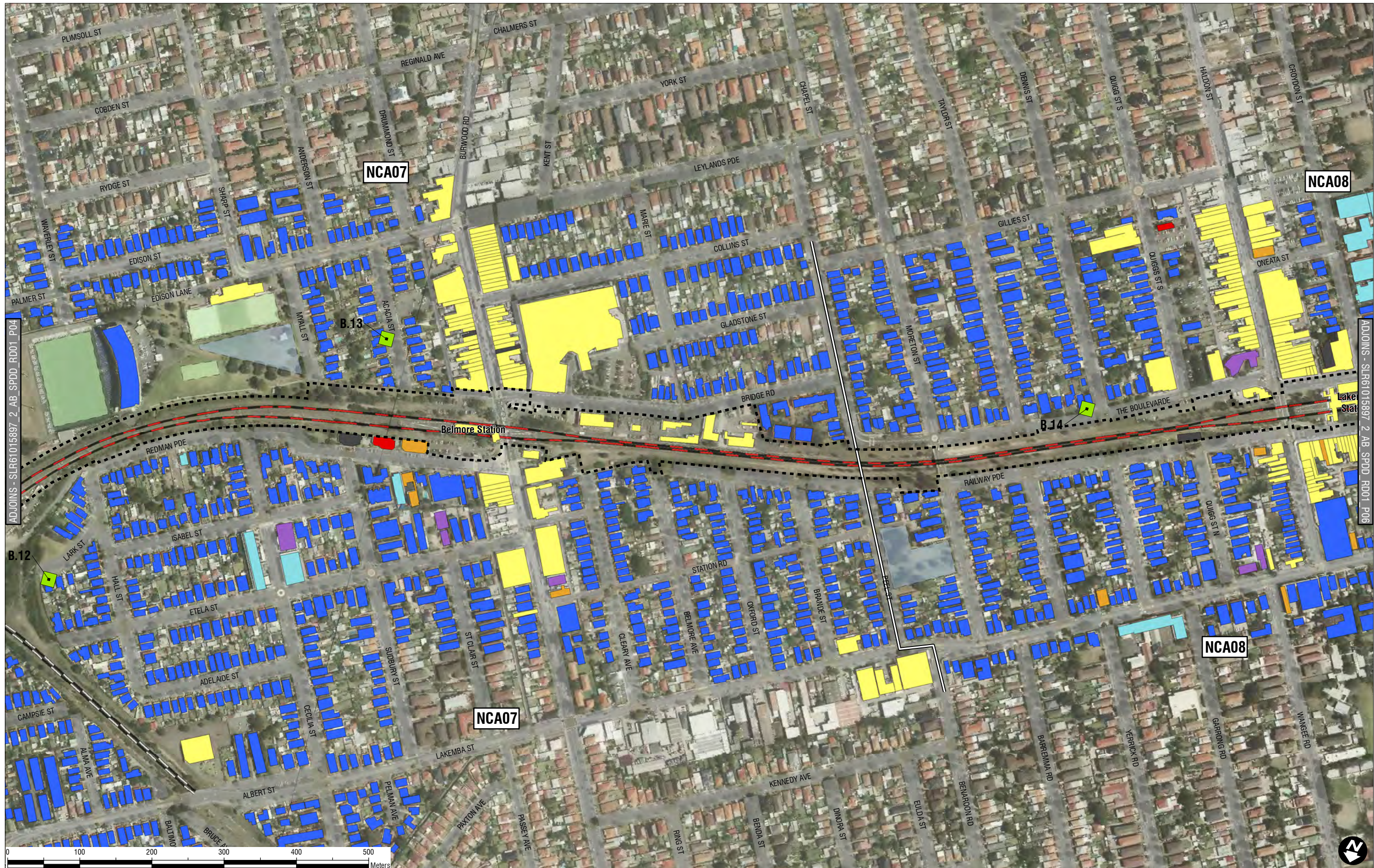
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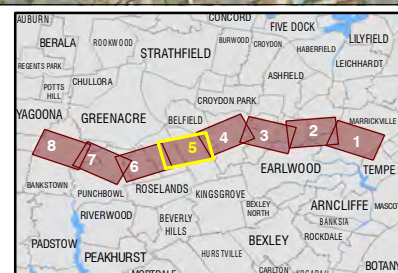


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Operational Noise & Vibration Measurement Positions

- Noise (Yellow circle)
- Noise & Vibration (Blue circle)
- Monitoring Locations (Green square)
- Project Area (Dashed black line)

Receiver Types

- Residential (Blue square)
- Commercial (Yellow square)
- Other (Educational) (Cyan square)
- Other (Medical) (Red square)
- Other (Place of Worship) (Purple square)
- Other (Childcare) (Orange square)
- Other (Remaining) (Black square)
- Outdoor Active (Light green square)
- Outdoor Passive (Light blue square)
- Aquisitions (Pink square)

Noise Catchment Areas

- Noise Catchment Areas (Black line)
- Freight Rail Tracks (Black line with cross-ticks)
- Light Rail Tracks (Blue line)
- Metro Rail Tracks (Red line)
- Sydney Trains Rail Tracks (Orange line)

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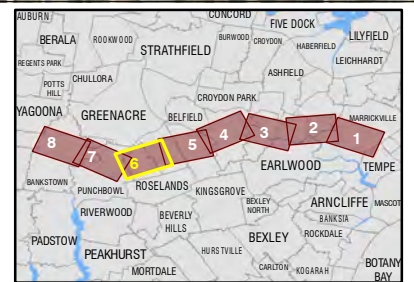


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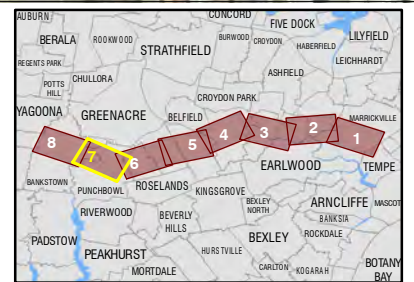
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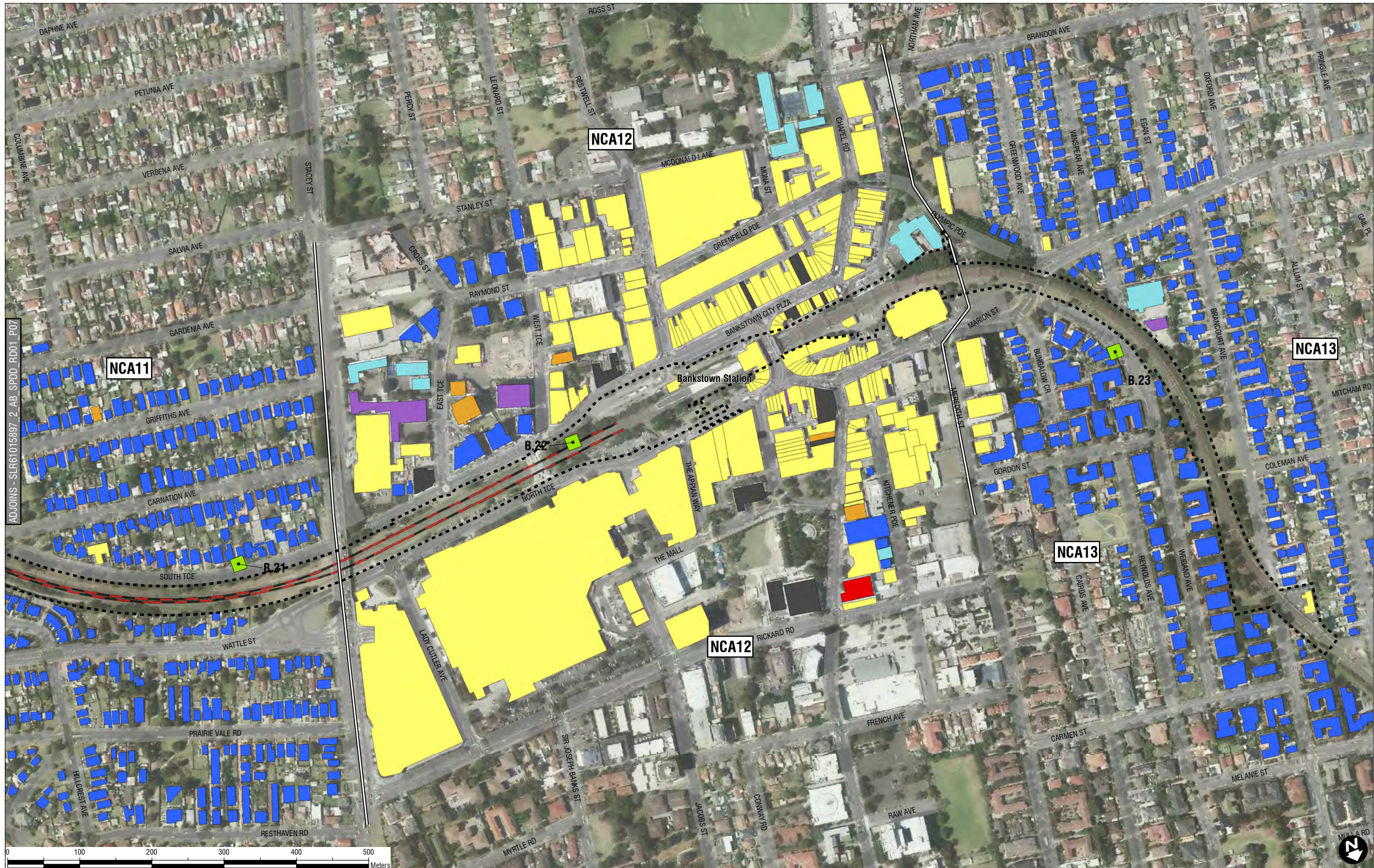
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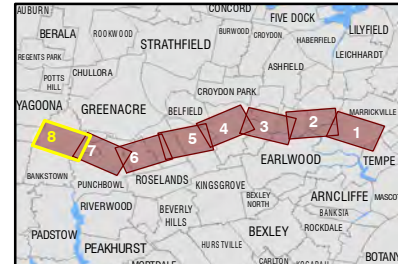


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Appendix C

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Background Noise Monitoring Results

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Background Noise Monitoring Results – B.01

Noise Monitoring Location:	B.01
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Noise Monitoring Address:	143 Meeks Road Marrickville 2204
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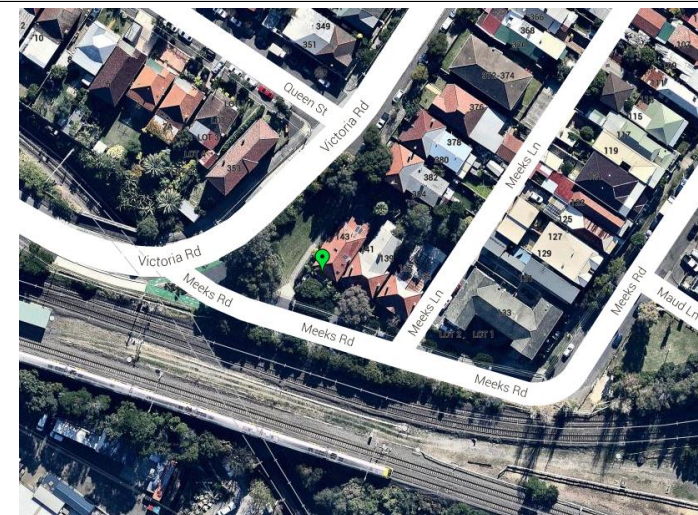
Logger Device Type: ARL-EL316

Logger Serial No: 16-207-049

Ambient noise logger deployed at the south of residential address 143 Meeks Road, Marrickville. Logger located on the balcony of the first floor (2m elevation) with line of sight over Meeks Road.

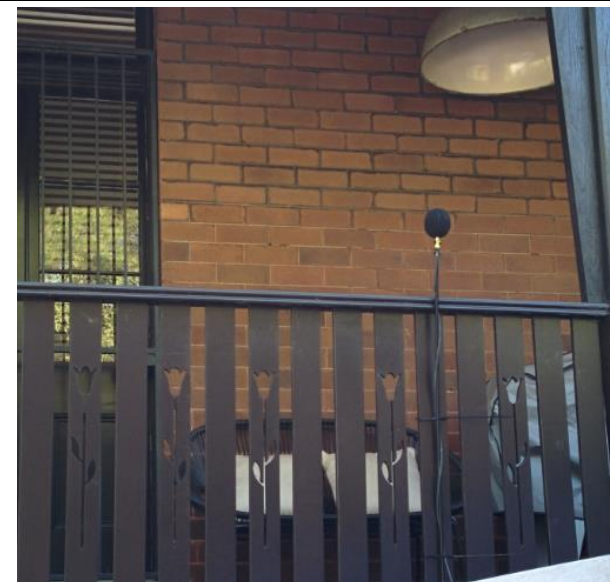
Attended noise measurements indicate that the ambient noise environment at this location is dominated by road traffic noise from Victoria Road. LAeq levels were influenced by an idling truck, aircraft and rail noise. This is to be expected as this property lies very close to ANEF contour 25 and approximately 30m north of the nearest Bankstown Line track.

Map of Noise Monitoring Location



Ambient Noise Logging Results – INP Defined Time Periods	Photo of Noise Monitoring Location
-----------------------------------------------------------------	-------------------------------------------

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	47	61	62	72
Evening	45	61	62	72
Night-time	40	58	54	62

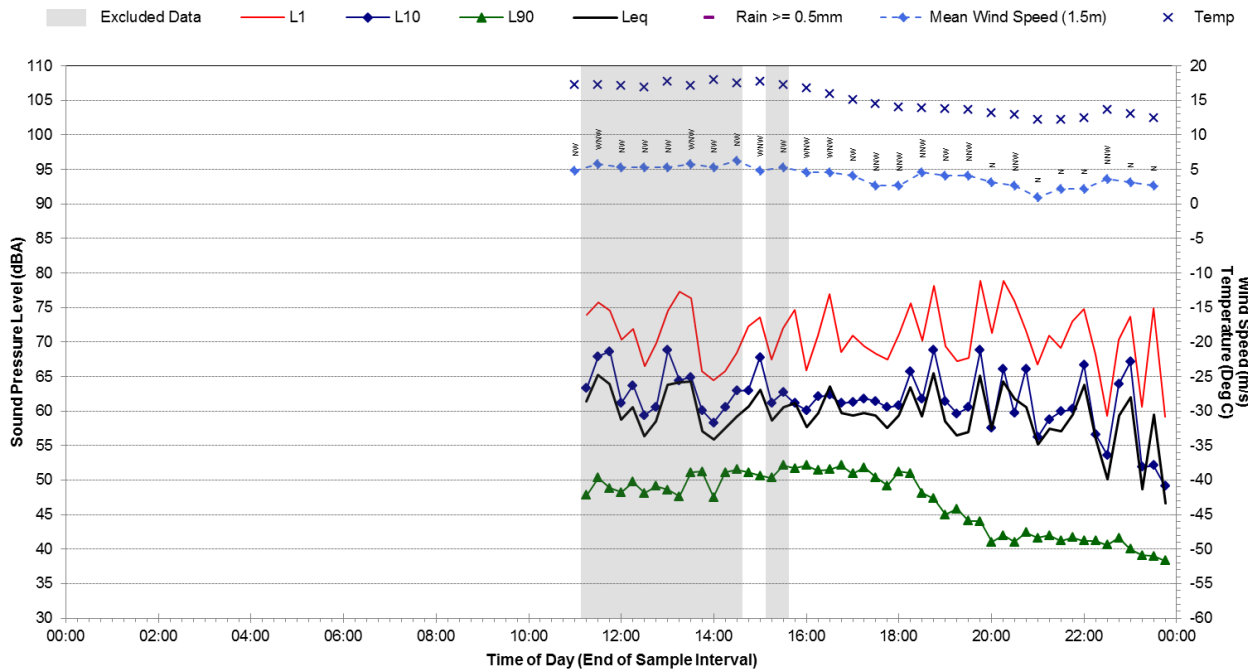


Attended Noise Measurement Results				
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Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	10:58	47	63	80

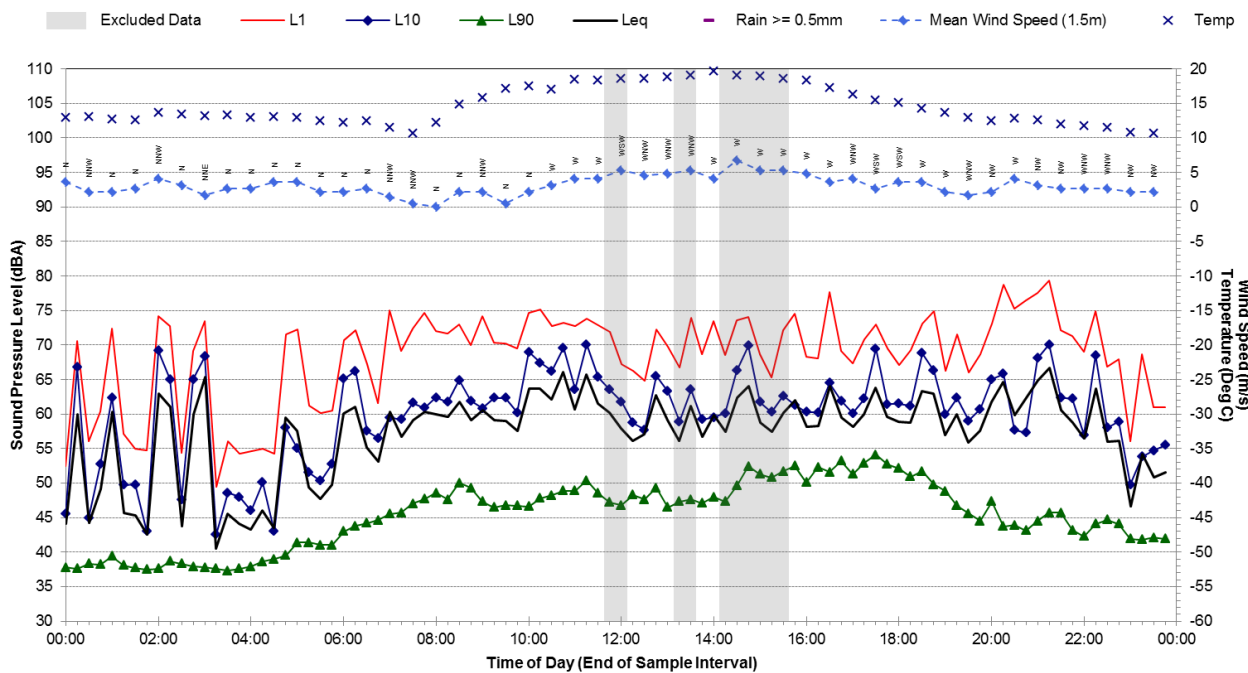
Statistical Ambient Noise Levels

B.05 - Tuesday, 21 June 2016



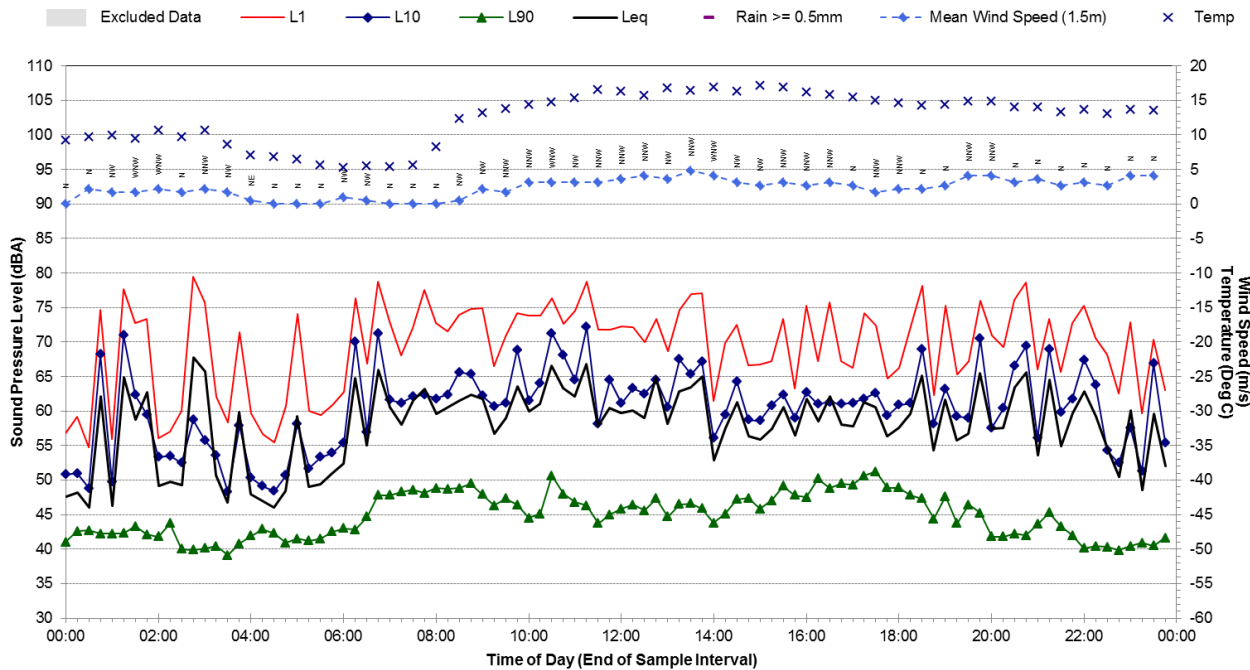
Statistical Ambient Noise Levels

B.05 - Wednesday, 22 June 2016



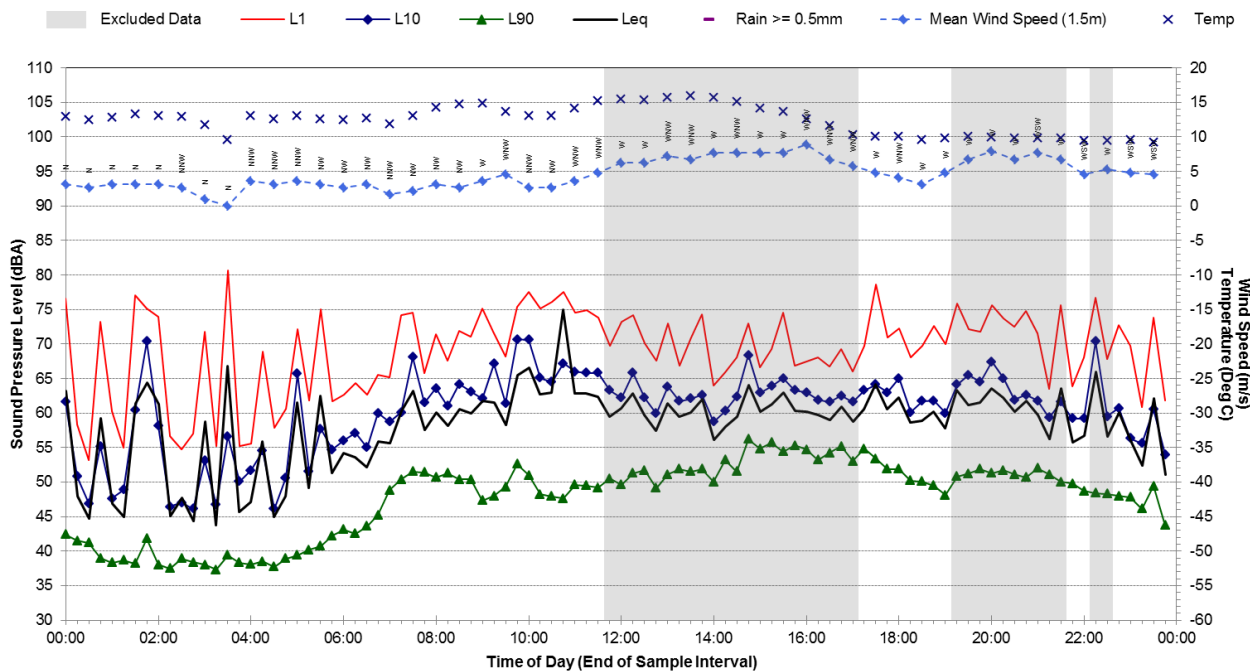
Statistical Ambient Noise Levels

B.05 - Thursday, 23 June 2016



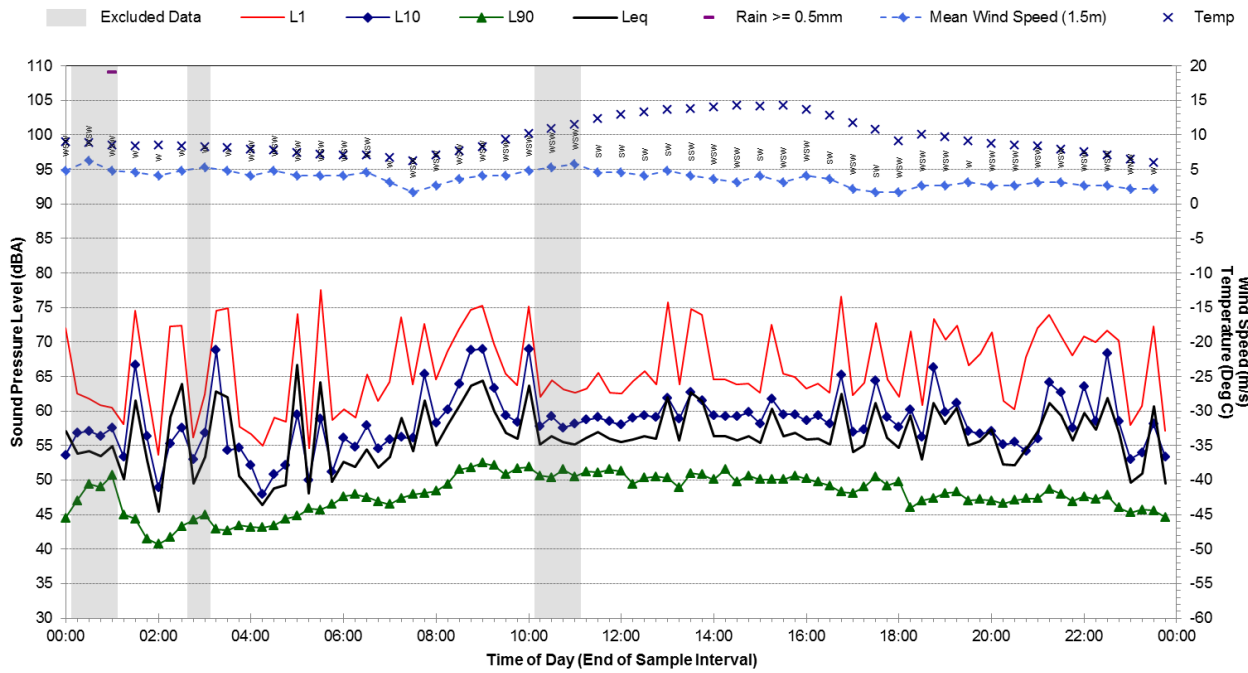
Statistical Ambient Noise Levels

B.05 - Friday, 24 June 2016



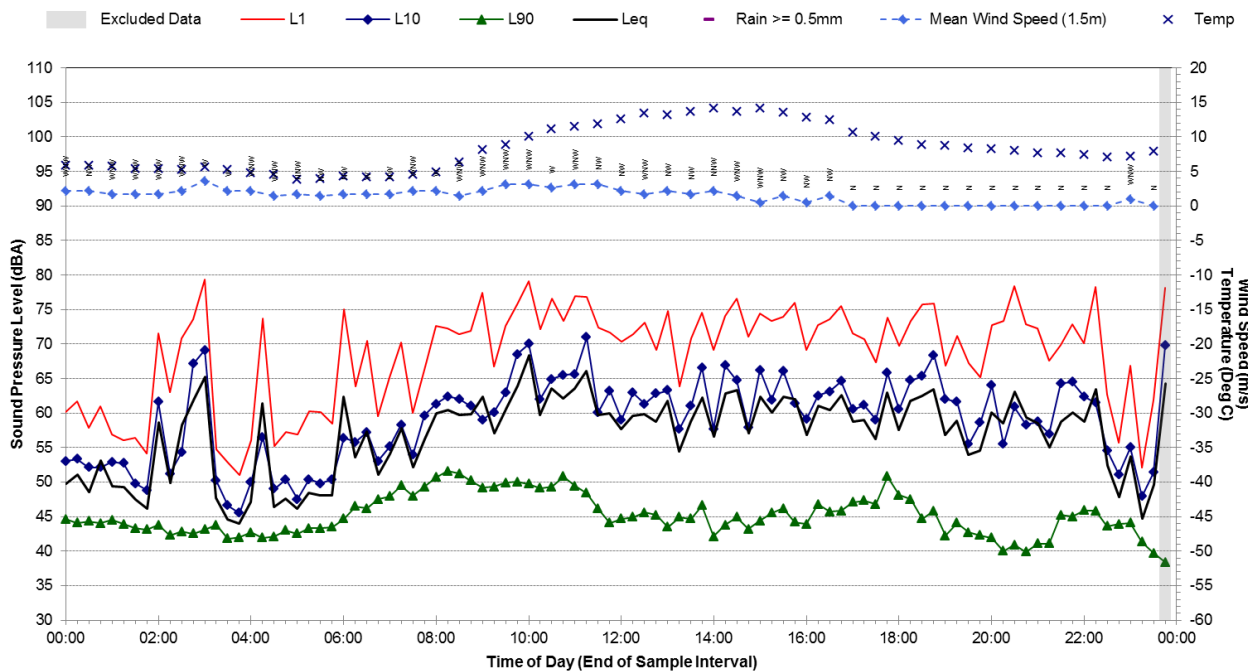
Statistical Ambient Noise Levels

B.05 - Saturday, 25 June 2016



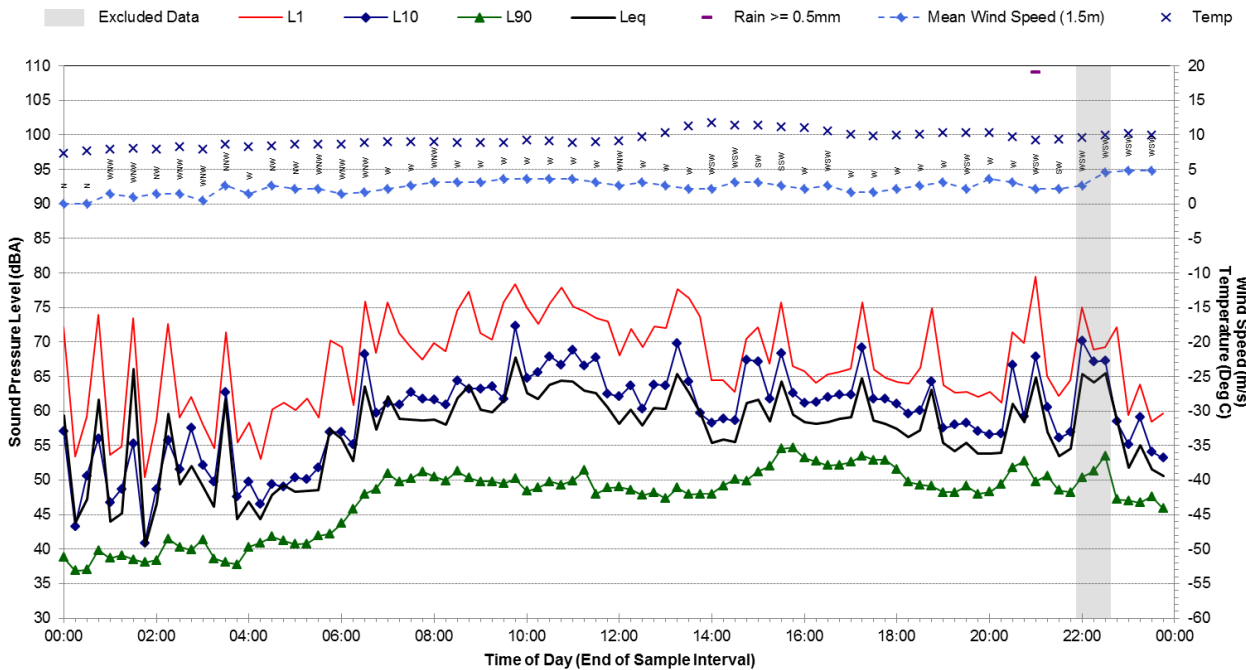
Statistical Ambient Noise Levels

B.05 - Sunday, 26 June 2016



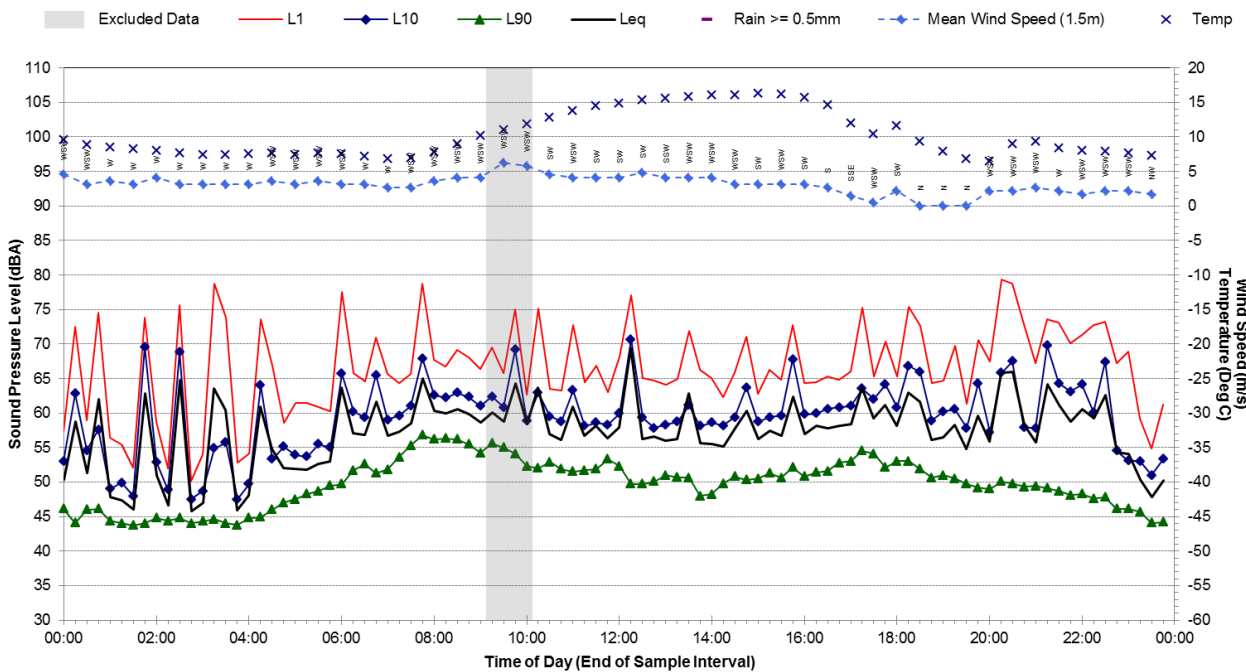
Statistical Ambient Noise Levels

B.05 - Monday, 27 June 2016



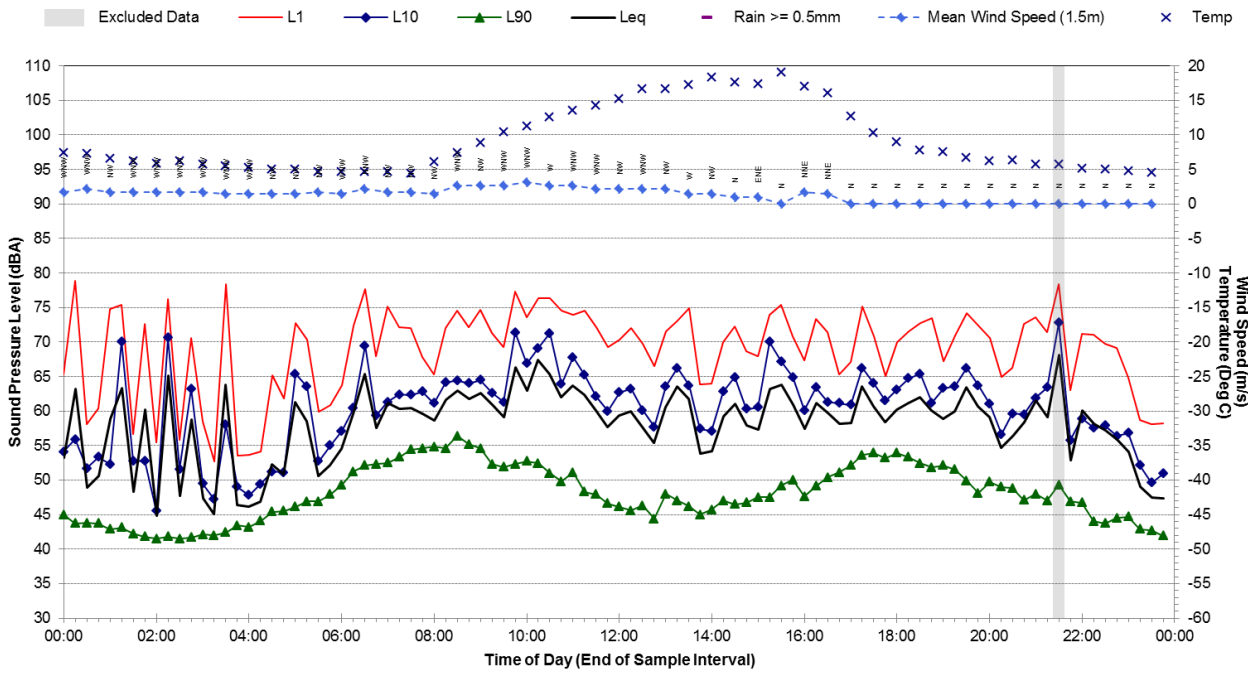
Statistical Ambient Noise Levels

B.05 - Tuesday, 28 June 2016



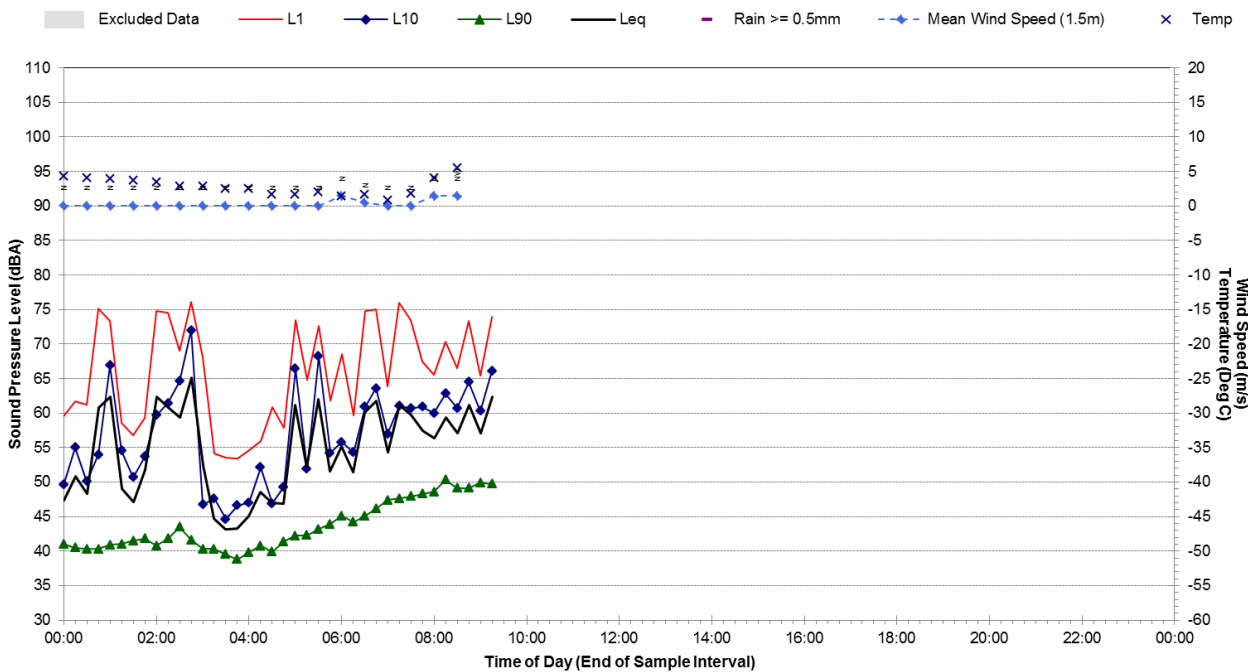
Statistical Ambient Noise Levels

B.05 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.05 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.02

Noise Monitoring Location: B.02	Map of Noise Monitoring Location
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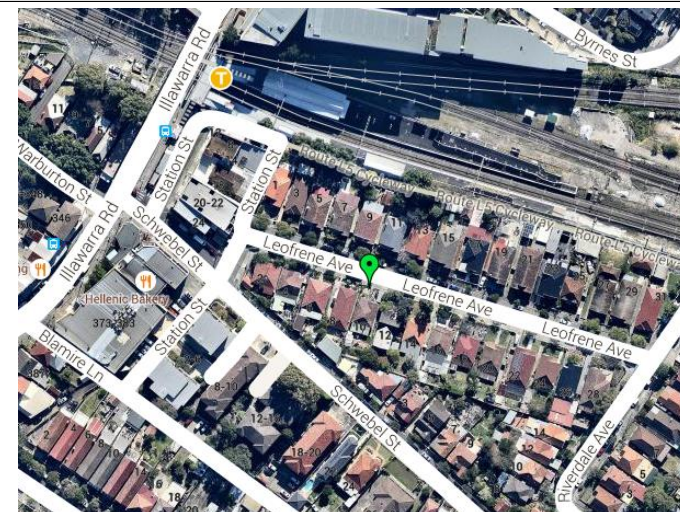
Noise Monitoring Address: 10 Leofrene Avenue, Marrickville 2204

Logger Device Type: ARL-EL316

Logger Serial No: 16-306-047

Ambient noise logger deployed at the north of the residential address 10 Leofrene Avenue, Marrickville. Logger located just inside the property and beside the front gate and a sandstone boundary wall. Logger line of sight north over Leofrene Avenue.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by local road traffic noise. LAeq levels were influenced by neighbourhood noise (dog barking, birds, doors etc), aircraft and rail noise. This property lies between ANEF contours 20 and 25, and is approximately 60m south of the nearest Bankstown Line track.



Ambient Noise Logging Results – INP Defined Time Periods	Photo of Noise Monitoring Location
-----------------------------------------------------------------	-------------------------------------------

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	38	59	58	72
Evening	38	58	55	71
Night-time	33	51	47	55

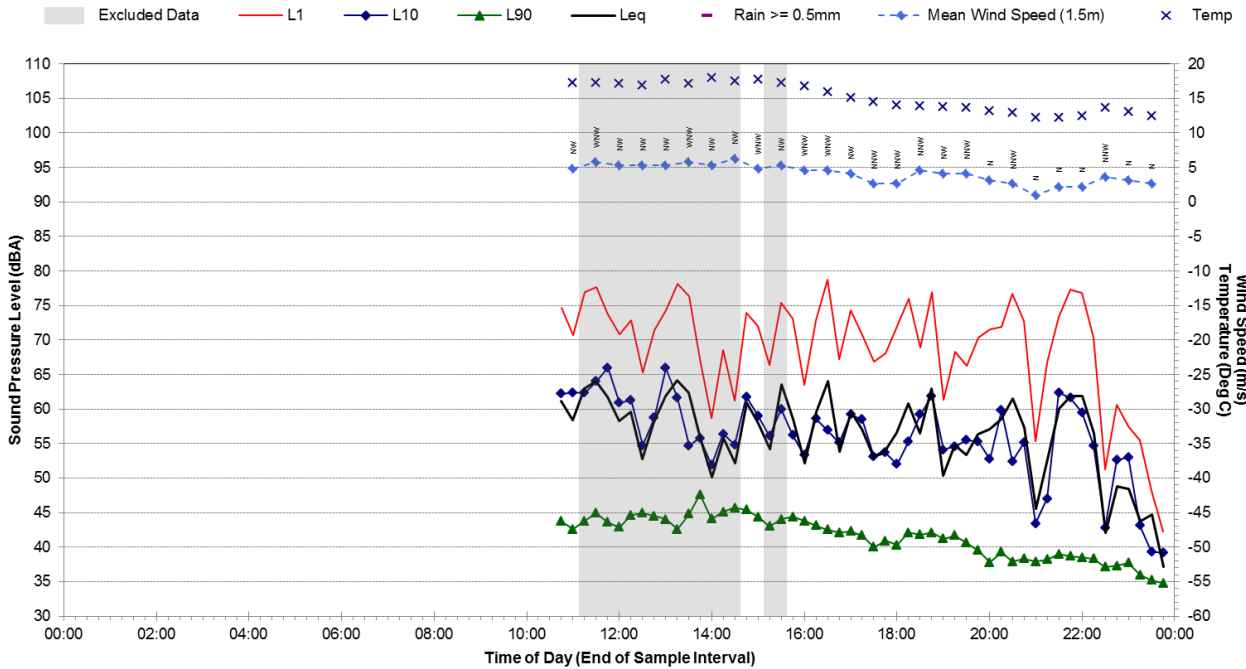
Attended Noise Measurement Results

Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	10:14	44	65	82



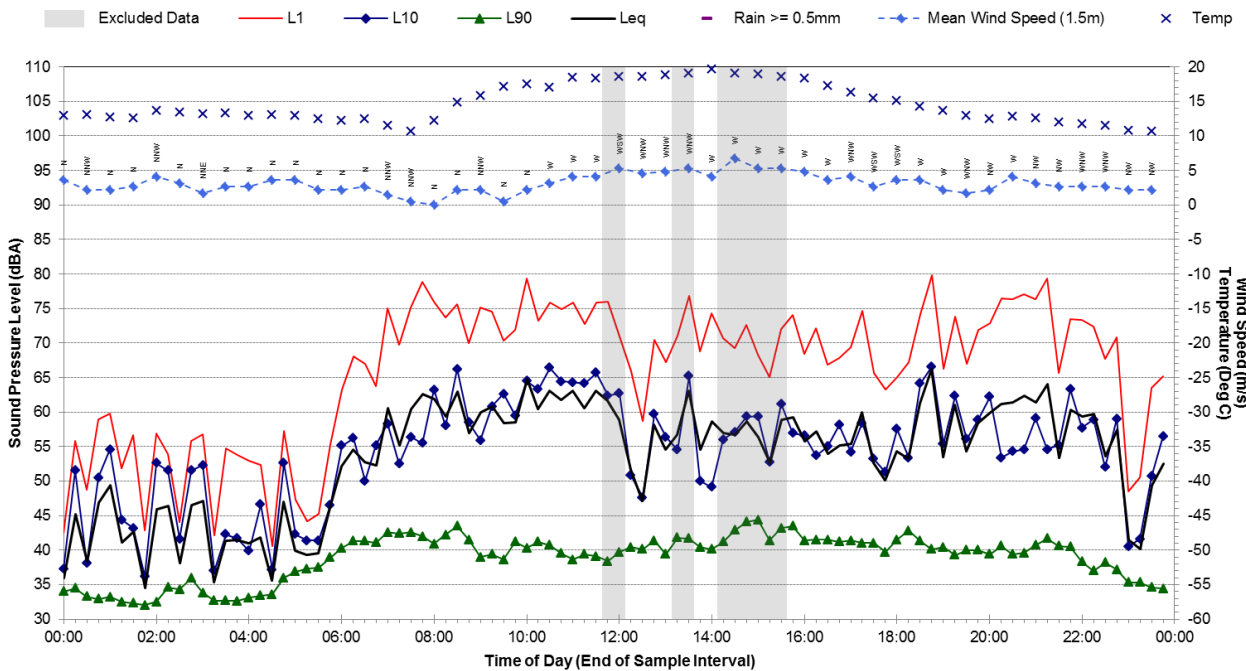
Statistical Ambient Noise Levels

B.06 - Tuesday, 21 June 2016



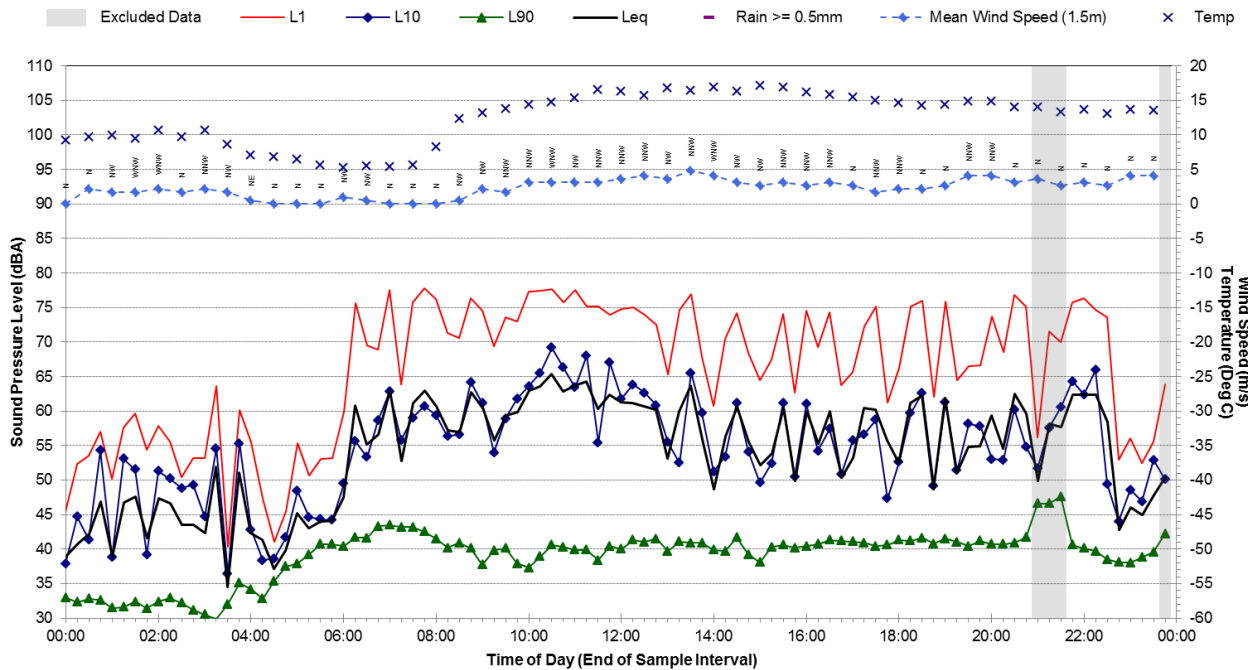
Statistical Ambient Noise Levels

B.06 - Wednesday, 22 June 2016



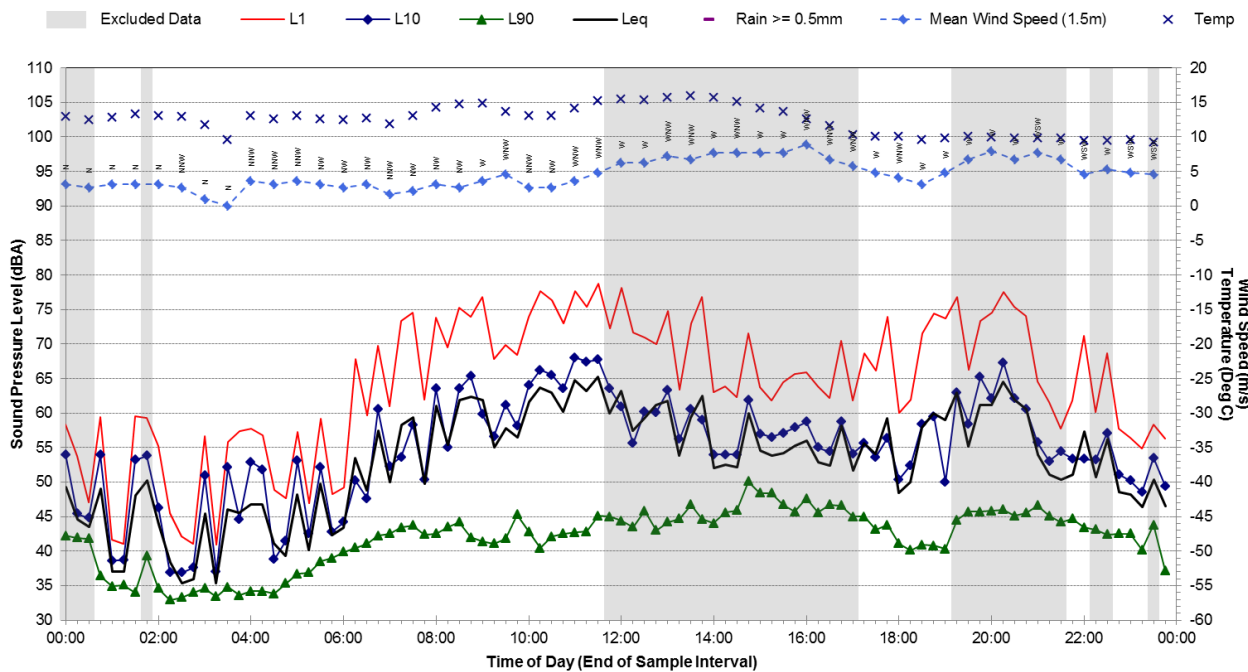
Statistical Ambient Noise Levels

B.06 - Thursday, 23 June 2016



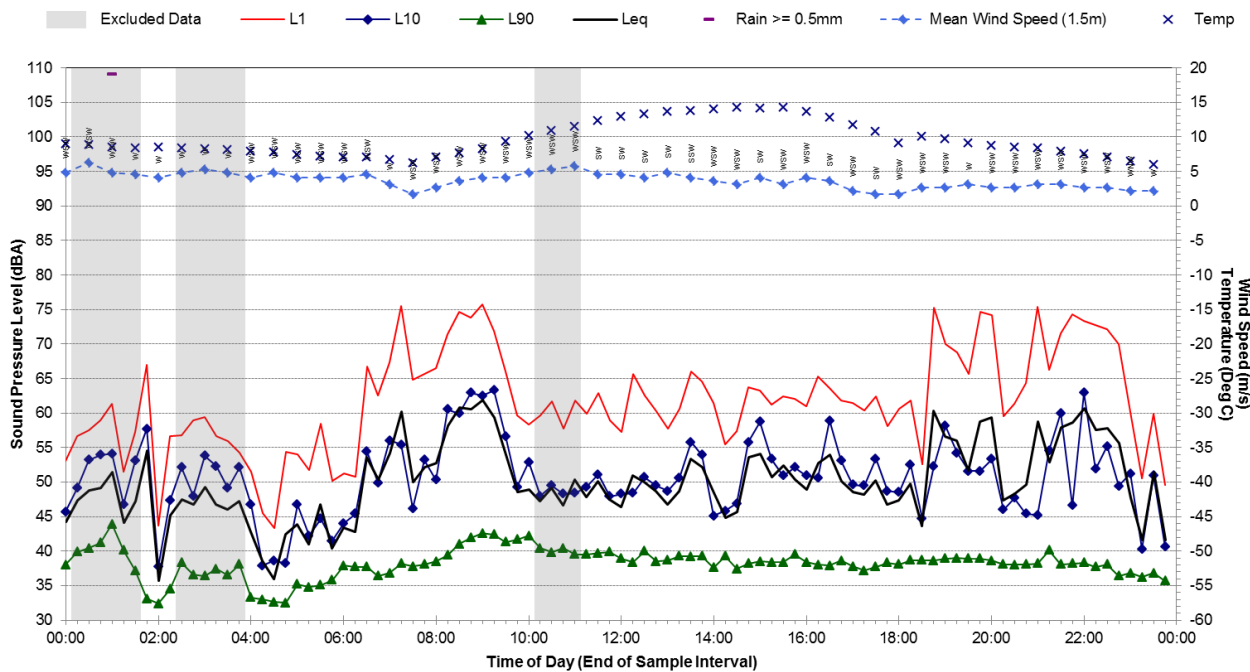
Statistical Ambient Noise Levels

B.06 - Friday, 24 June 2016



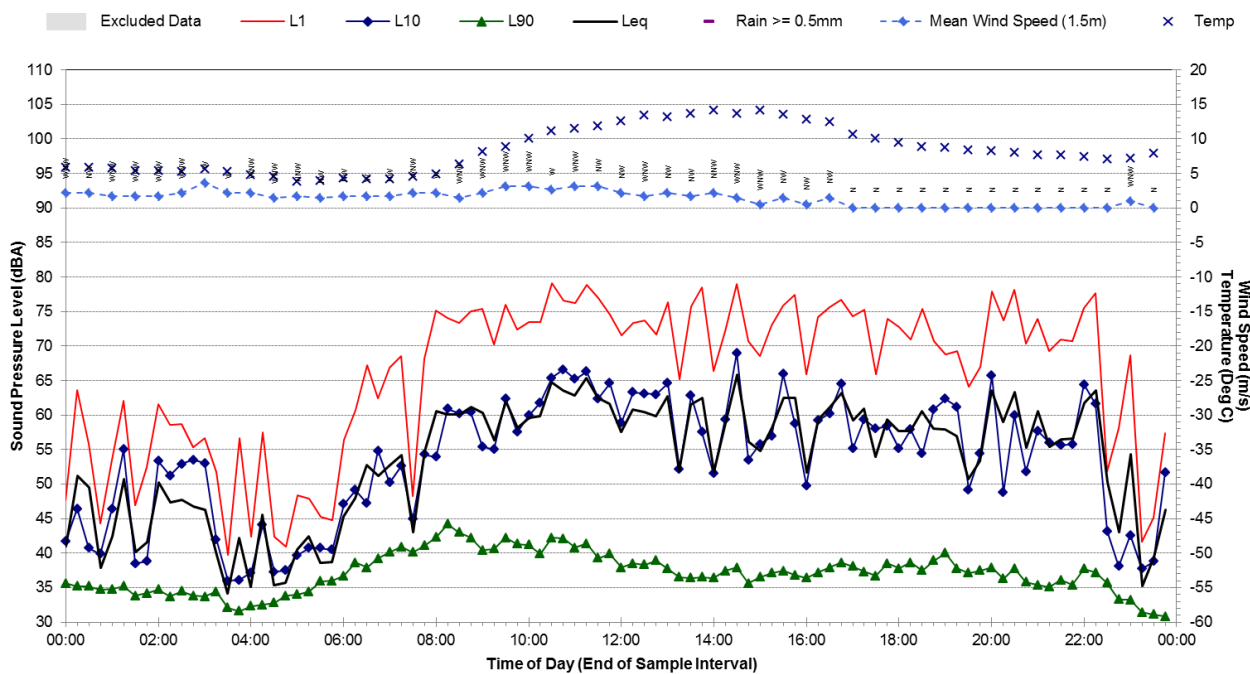
Statistical Ambient Noise Levels

B.06 - Saturday, 25 June 2016



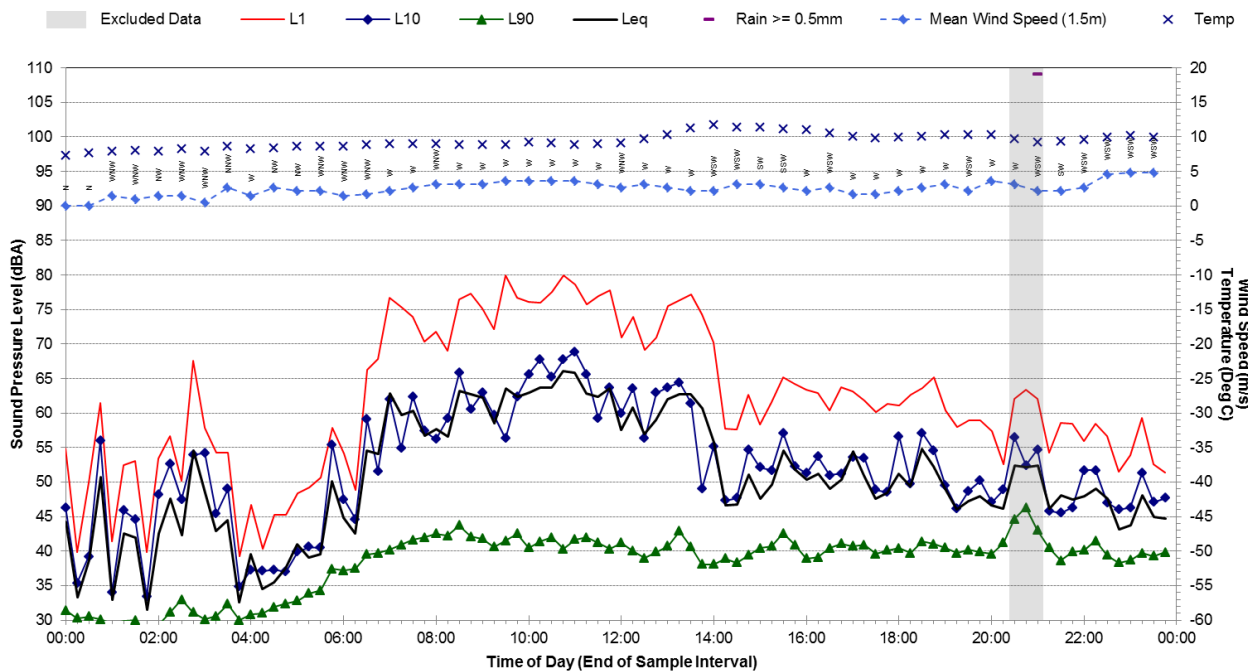
Statistical Ambient Noise Levels

B.06 - Sunday, 26 June 2016



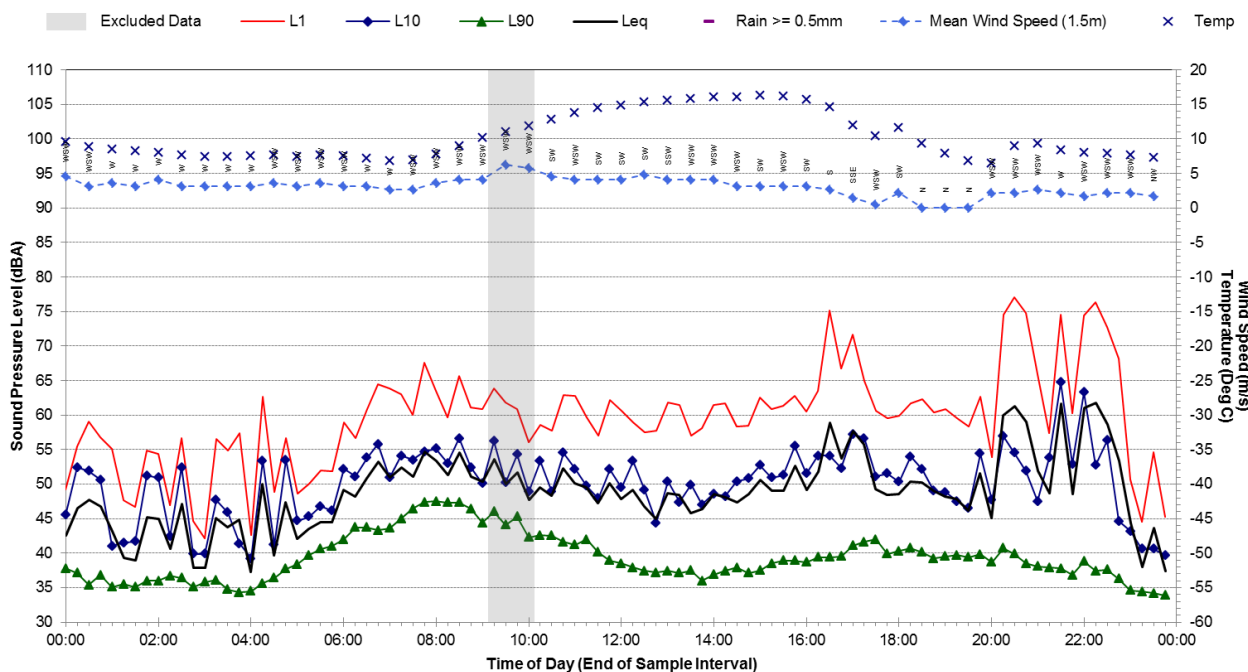
Statistical Ambient Noise Levels

B.06 - Monday, 27 June 2016



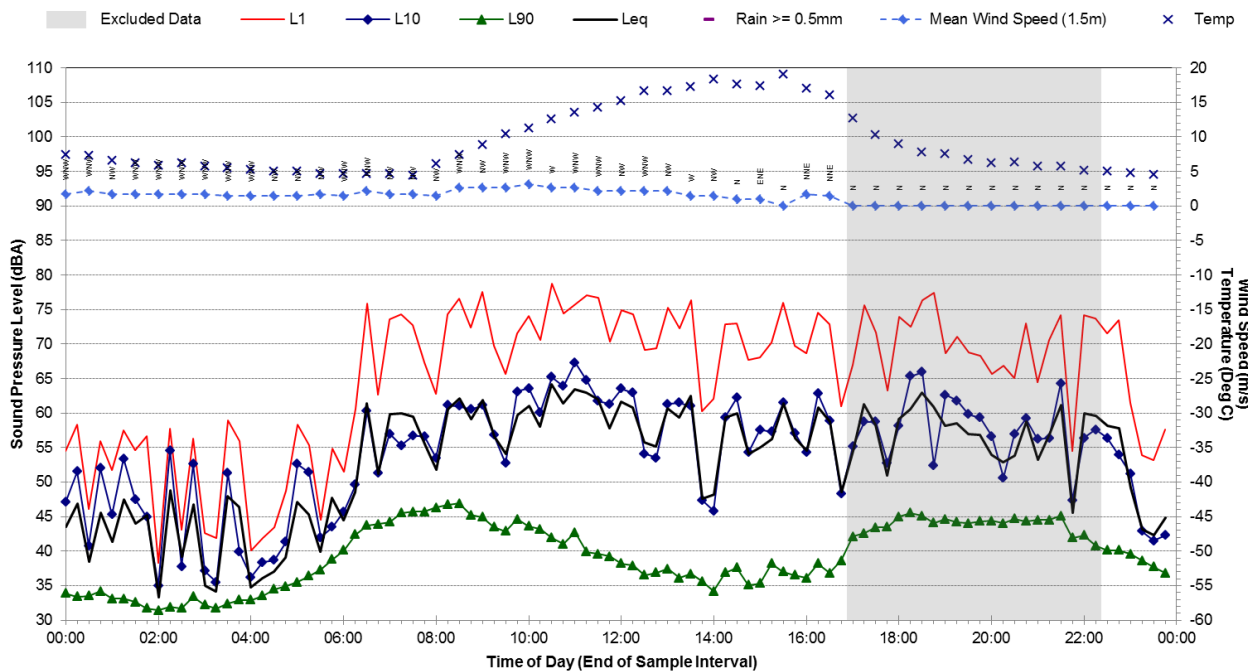
Statistical Ambient Noise Levels

B.06 - Tuesday, 28 June 2016



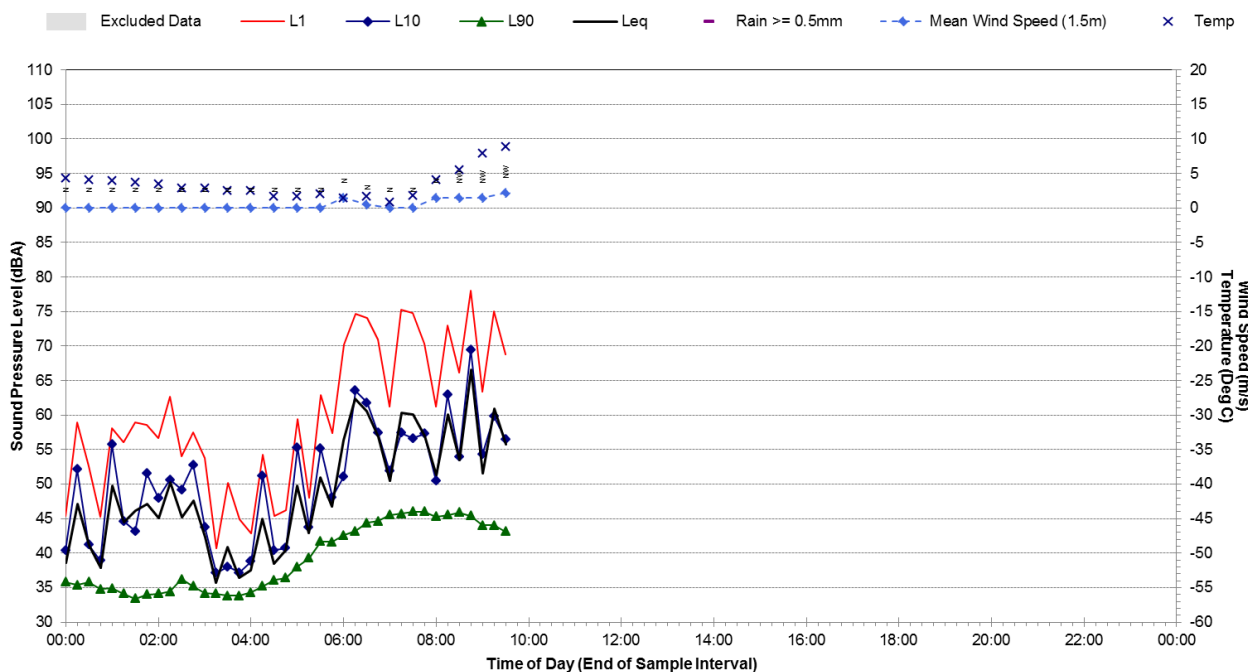
Statistical Ambient Noise Levels

B.06 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.06 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.03

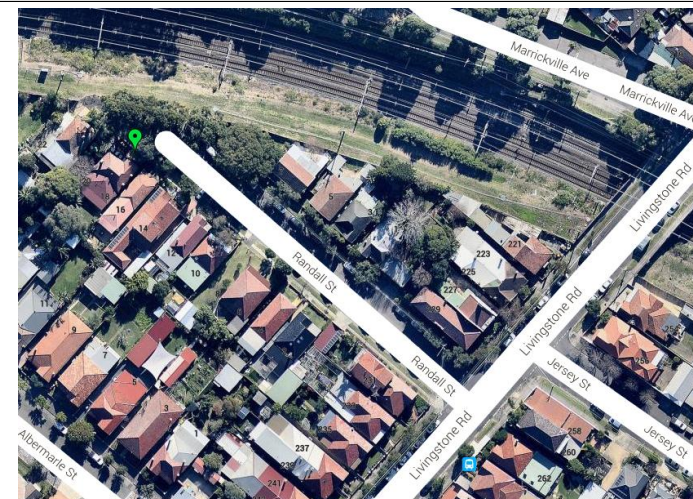
Noise Monitoring Location: B.03
Noise Monitoring Address: 18 Randall Street, Marrickville 2204

Logger Device Type: ARL-EL316
 Logger Serial No: 16-207-021

Ambient noise logger deployed at the north east of the residential address 18 Randall Street, Marrickville. Logger located just inside the property and beside the front gate and a redbrick boundary wall. Logger line of sight north over Randall Street and above the Bankstown Line.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by distant road traffic noise and tree rustle (when windy) due to the surrounding foliage. LAeq levels at this location were influenced by aircraft and rail noise due to the property lying very close to ANEF contour 20 and approximately 35m south of the nearest Bankstown Line track.

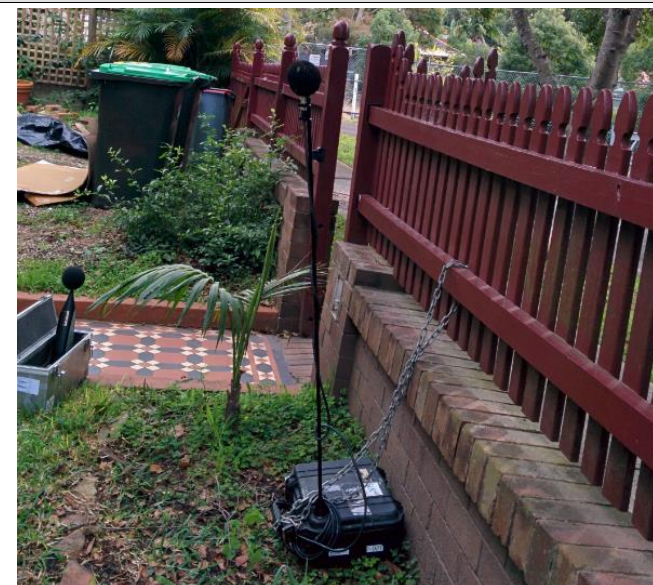
Map of Noise Monitoring Location



Ambient Noise Logging Results – INP Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	38	57	58	69
Evening	39	57	55	66
Night-time	33	53	48	61

Photo of Noise Monitoring Location

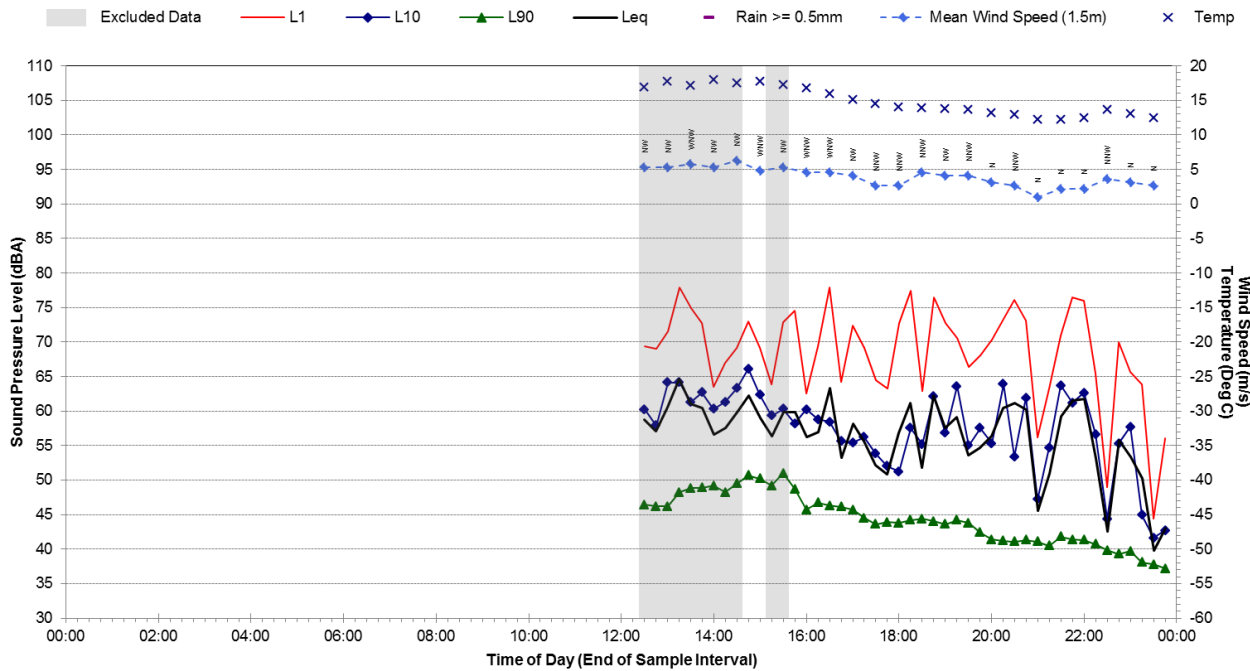


Attended Noise Measurement Results

Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
30/06/2015	09:45:03	45	59	73

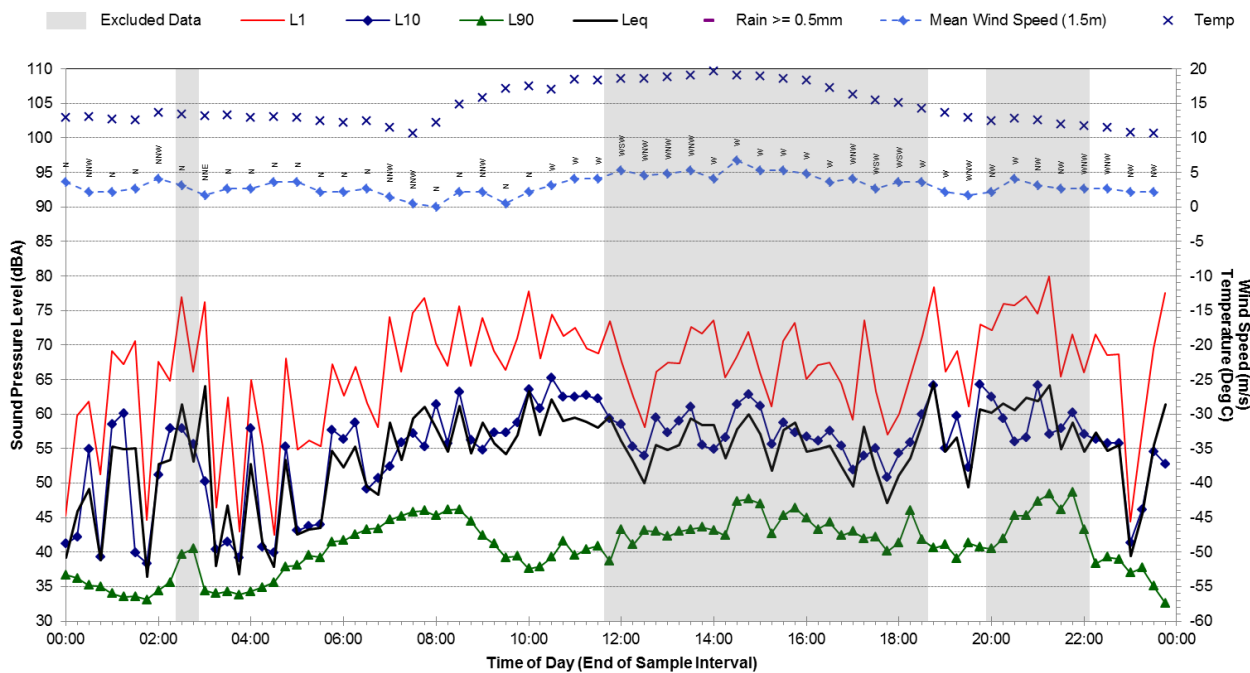
Statistical Ambient Noise Levels

B.07 - Tuesday, 21 June 2016



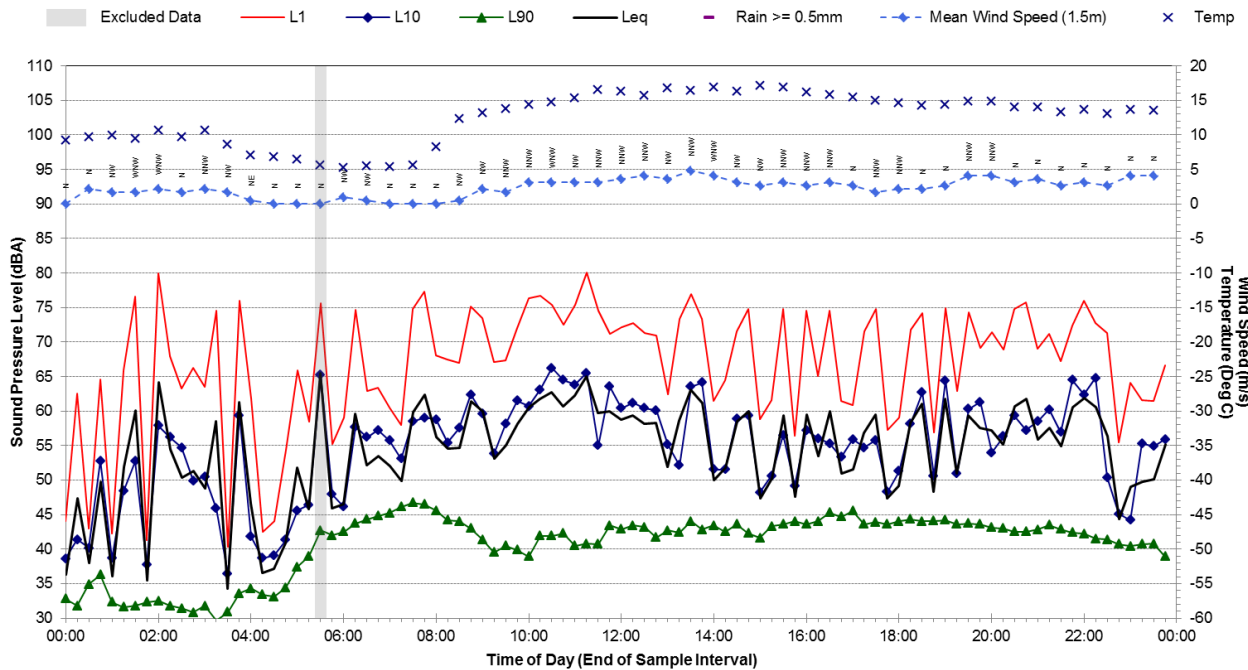
Statistical Ambient Noise Levels

B.07 - Wednesday, 22 June 2016



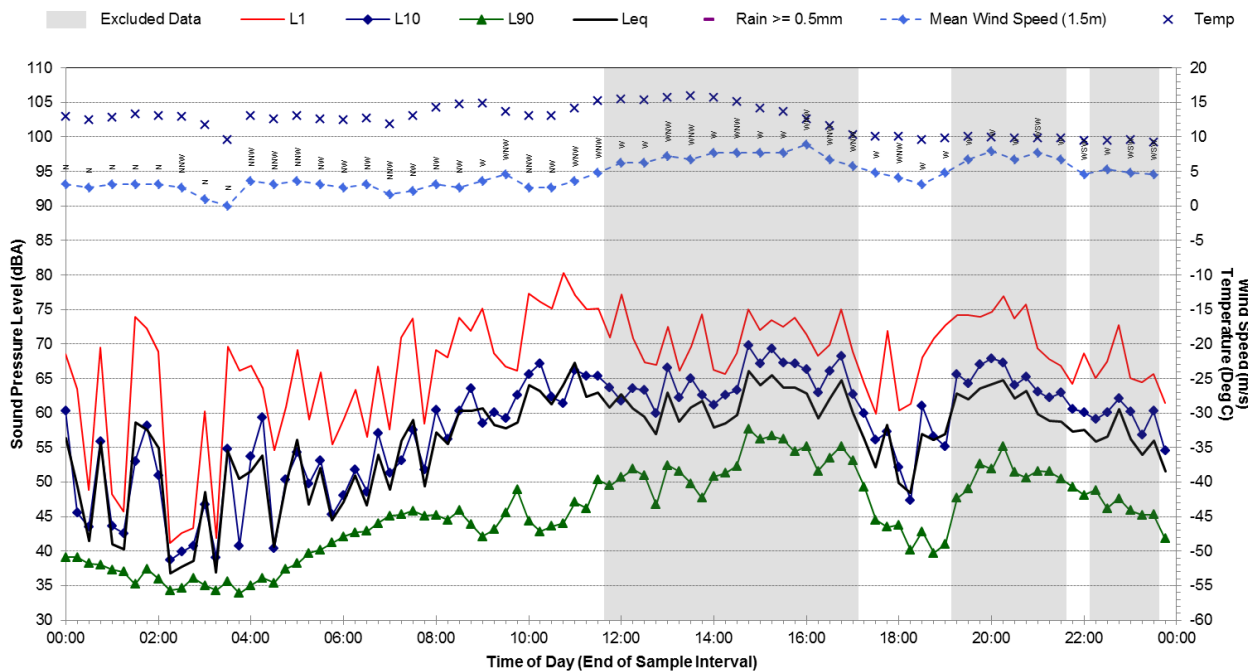
Statistical Ambient Noise Levels

B.07 - Thursday, 23 June 2016



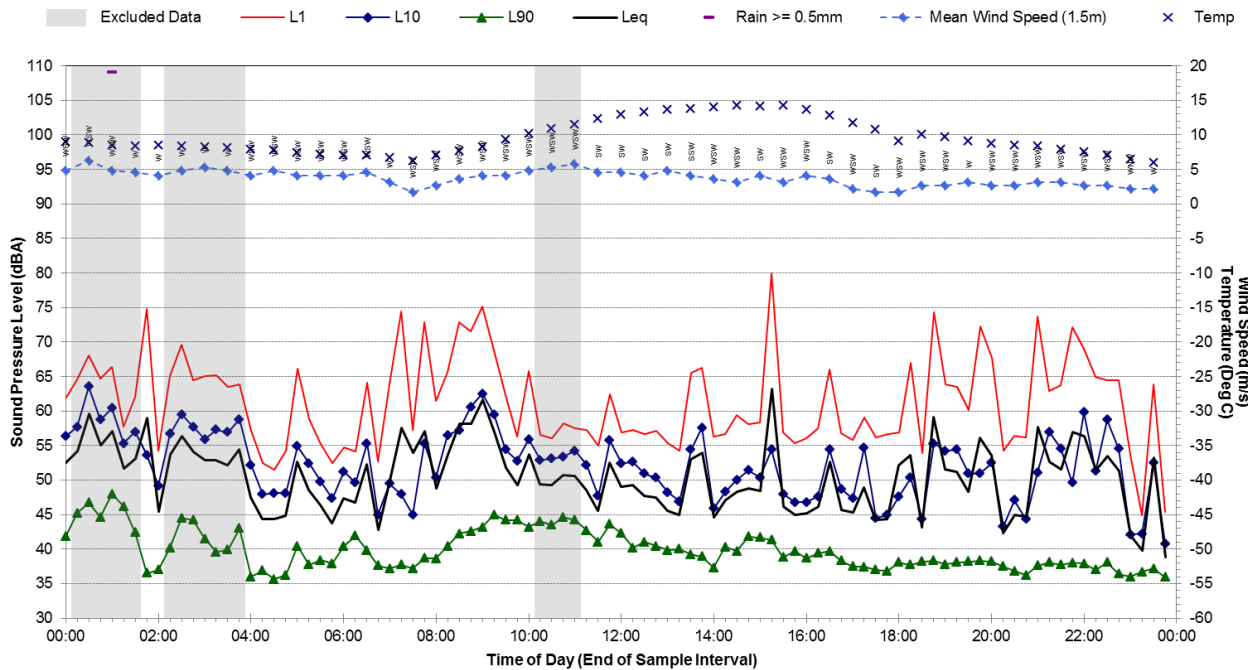
Statistical Ambient Noise Levels

B.07 - Friday, 24 June 2016



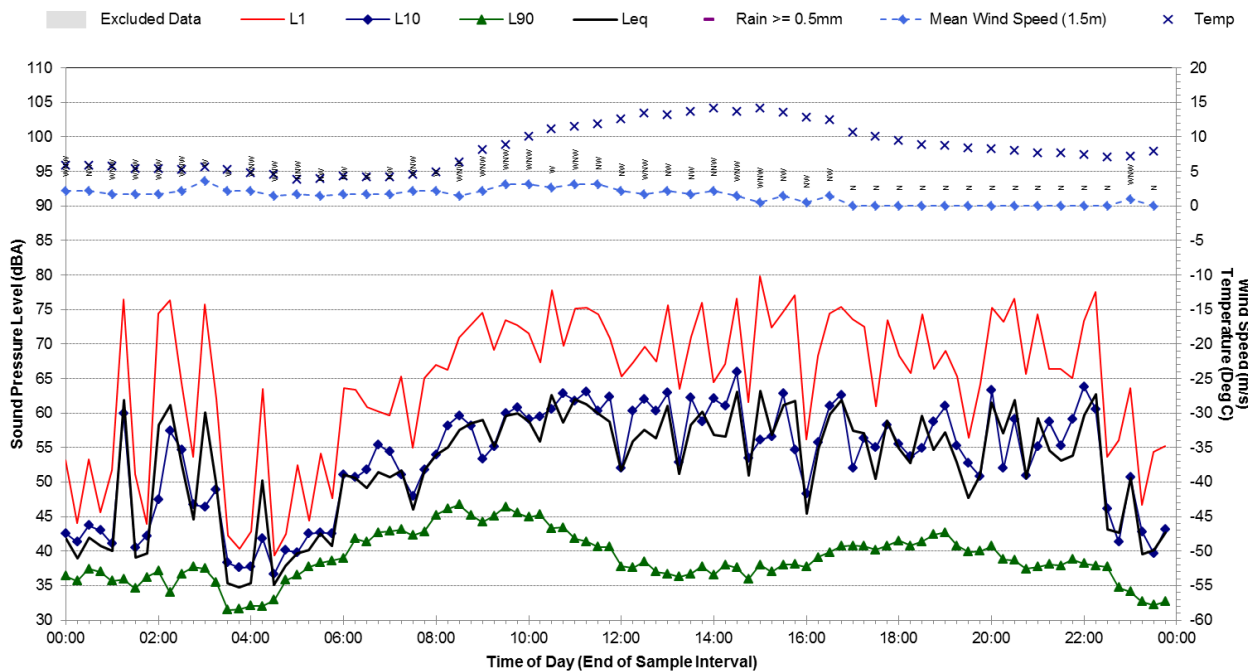
Statistical Ambient Noise Levels

B.07 - Saturday, 25 June 2016



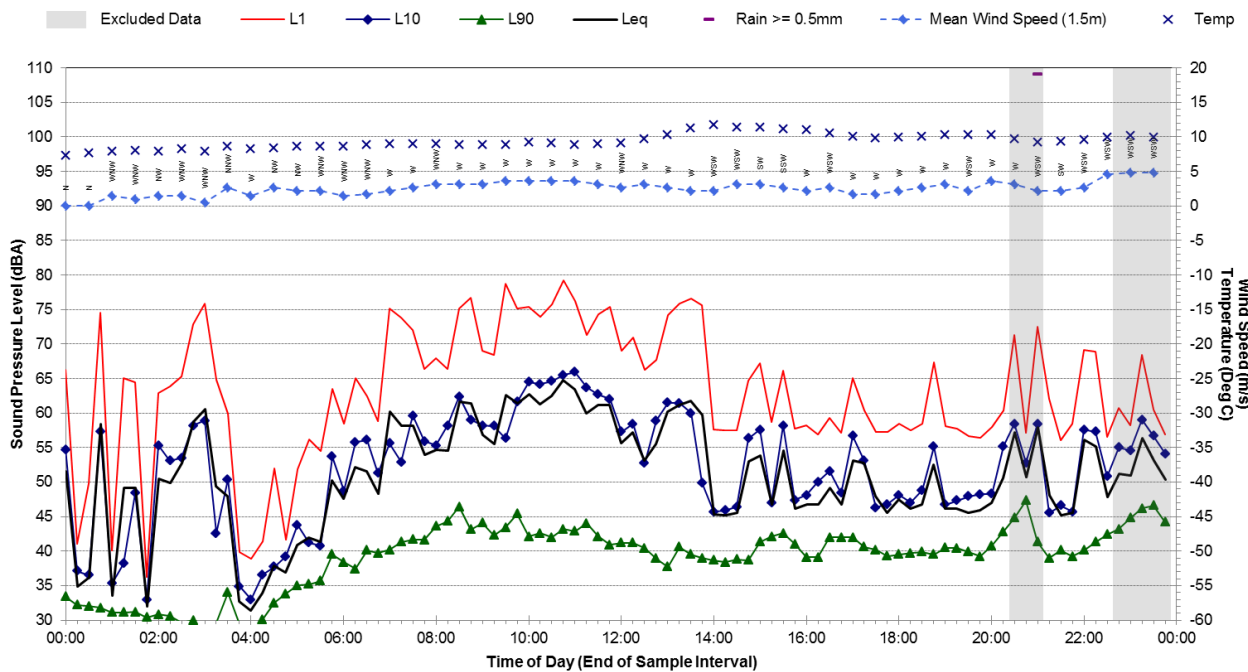
Statistical Ambient Noise Levels

B.07 - Sunday, 26 June 2016



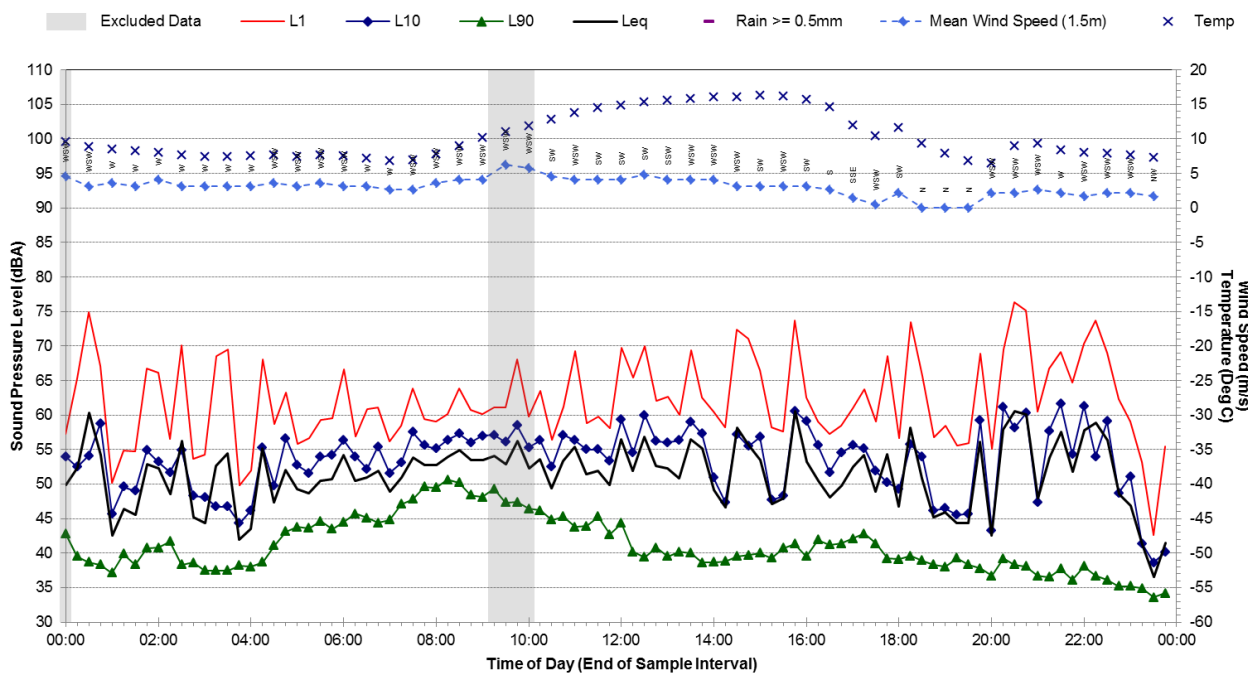
Statistical Ambient Noise Levels

B.07 - Monday, 27 June 2016



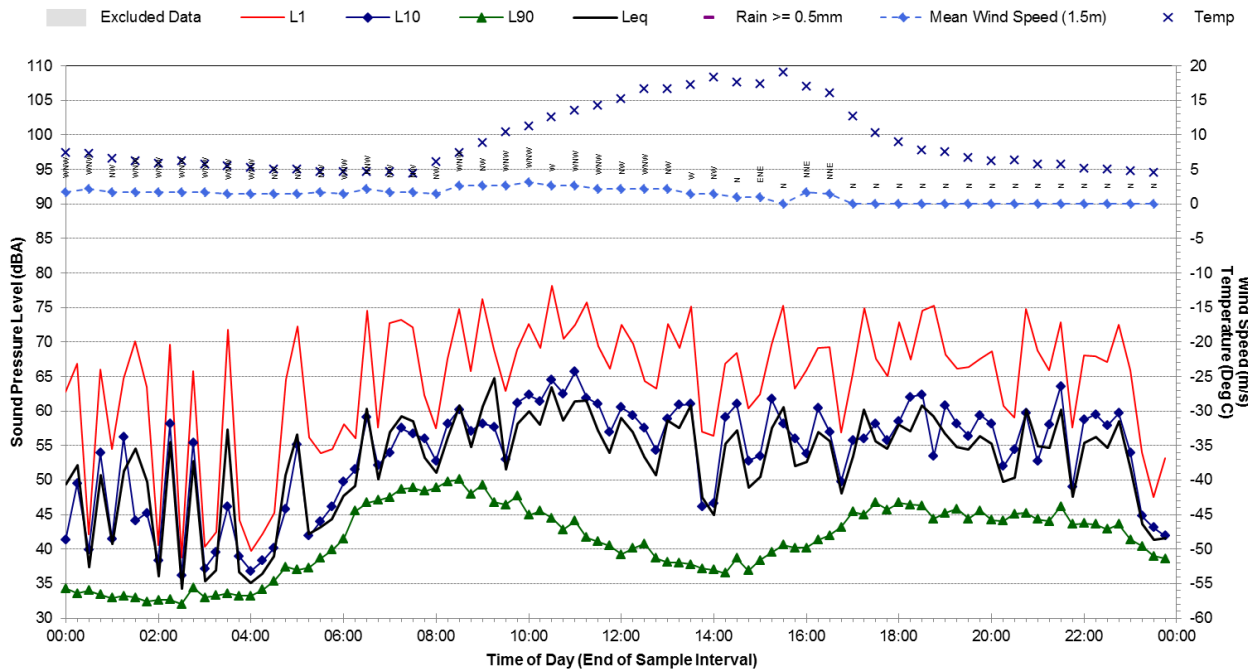
Statistical Ambient Noise Levels

B.07 - Tuesday, 28 June 2016



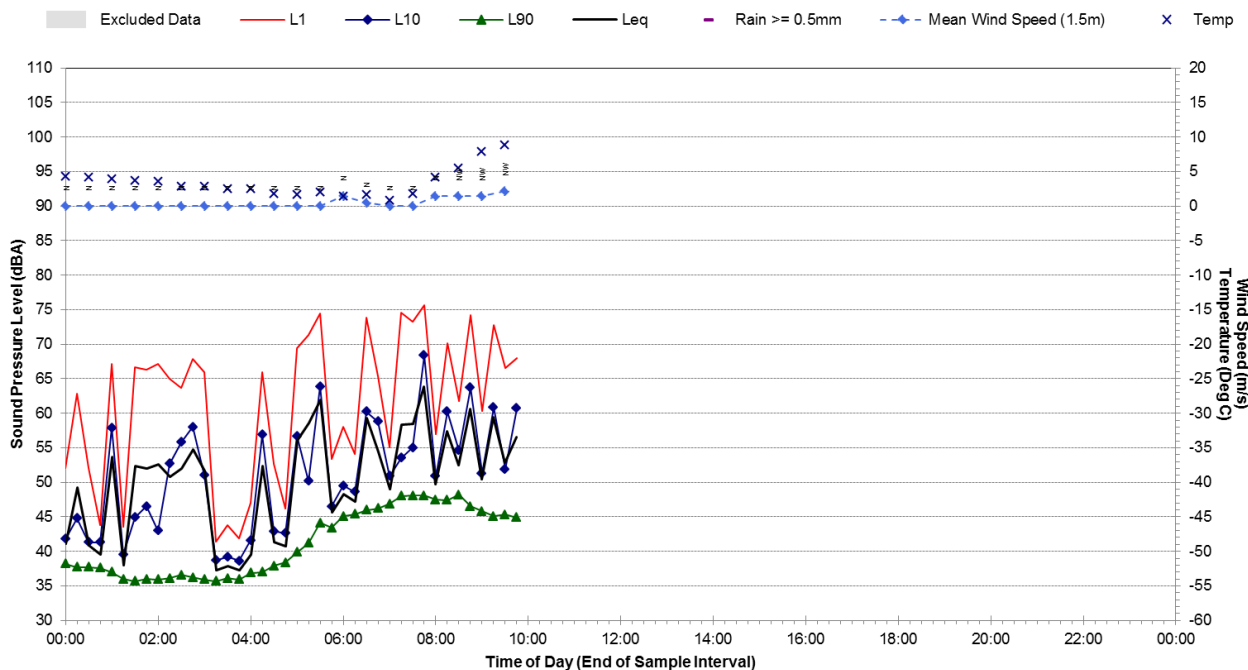
Statistical Ambient Noise Levels

B.07 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.07 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.04

Noise Monitoring Location:	B.04	Map of Noise Monitoring Location
Noise Monitoring Address:	15 Bedford Crescent, Dulwich Hill 2203	

Logger Device Type: ARL-EL316
 Logger Serial No: 16-207-020

Ambient noise logger deployed at the south west of the residential address 15 Bedford Crescent, Dulwich Hill. Logger located inside the property and beside the steps leading up to the front entrance landing. Logger line of sight south towards a noise wall (approximately 5m distance) and over a walking lane which extends beyond the Bedford Crescent turnaround.

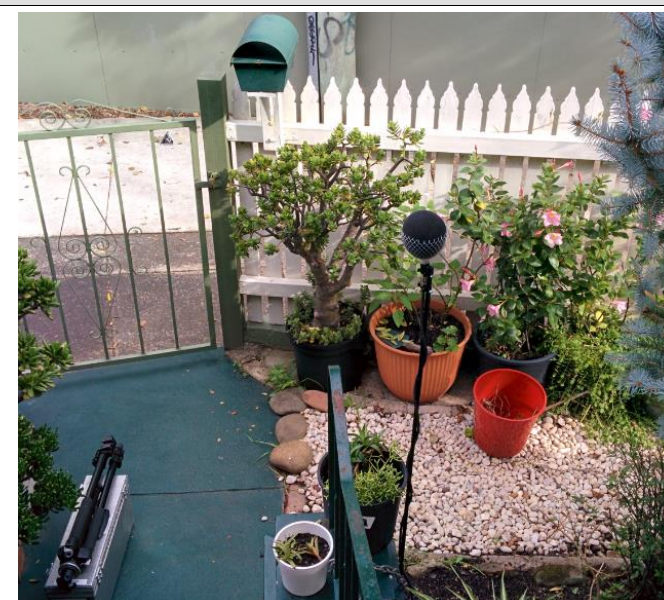
Attended noise measurements indicate that the ambient noise environment at this location is dominated by distant road traffic noise. LAeq levels at this location were influenced by aircraft and rail noise due to the property lying just outside the ANEF contours and approximately 15m and 40m north of the Sydney Light Rail and nearest Bankstown Line track respectively.



Ambient Noise Logging Results – INP Defined Time Periods	Photo of Noise Monitoring Location
-----------------------------------------------------------------	-------------------------------------------

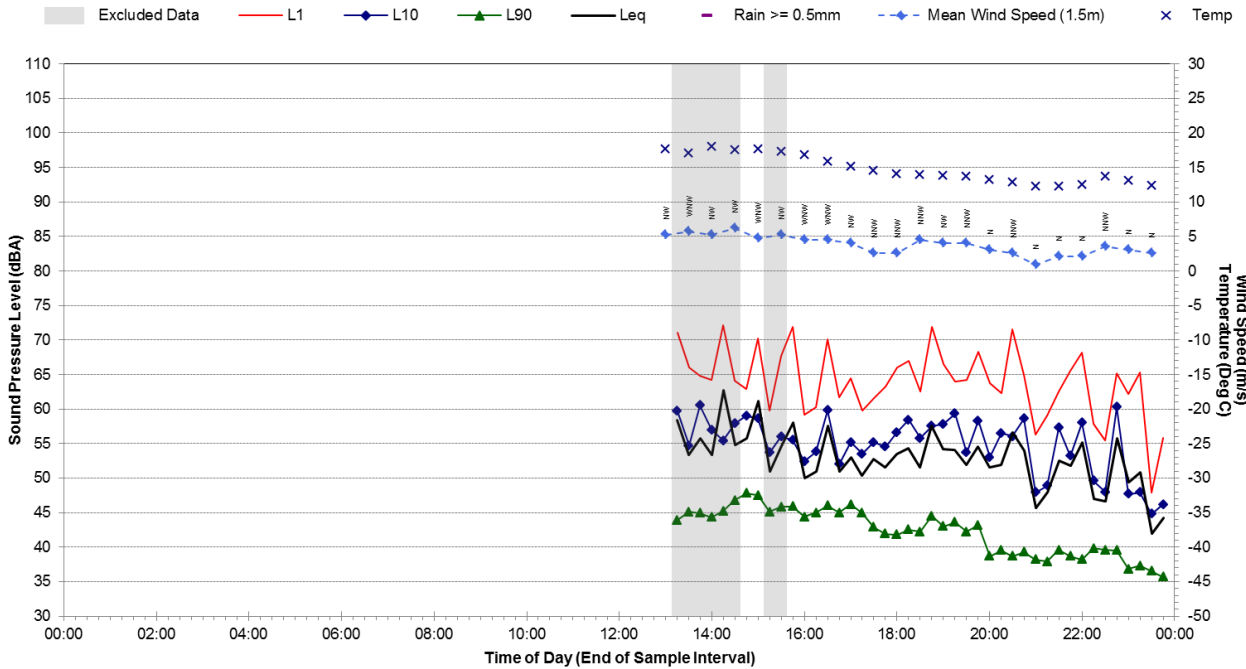
Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	41	54	55	64
Evening	41	55	56	64
Night-time	34	50	49	59

Attended Noise Measurement Results				
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	12:52	44	53	68



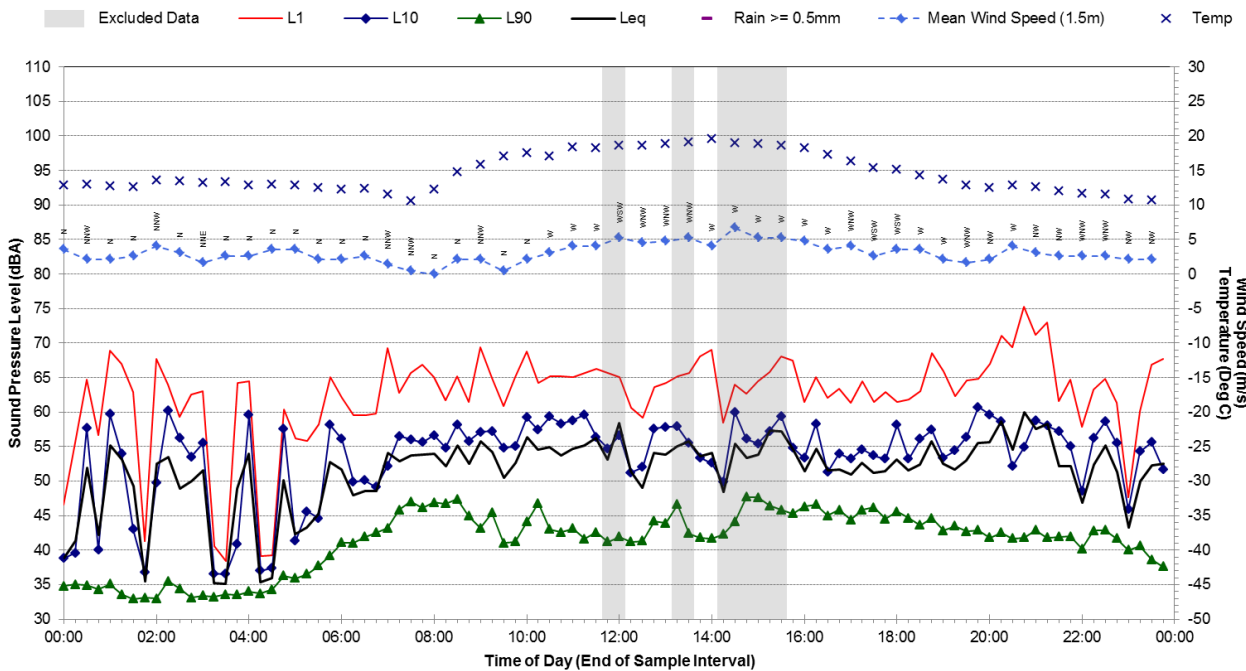
Statistical Ambient Noise Levels

B.08 - Tuesday, 21 June 2016



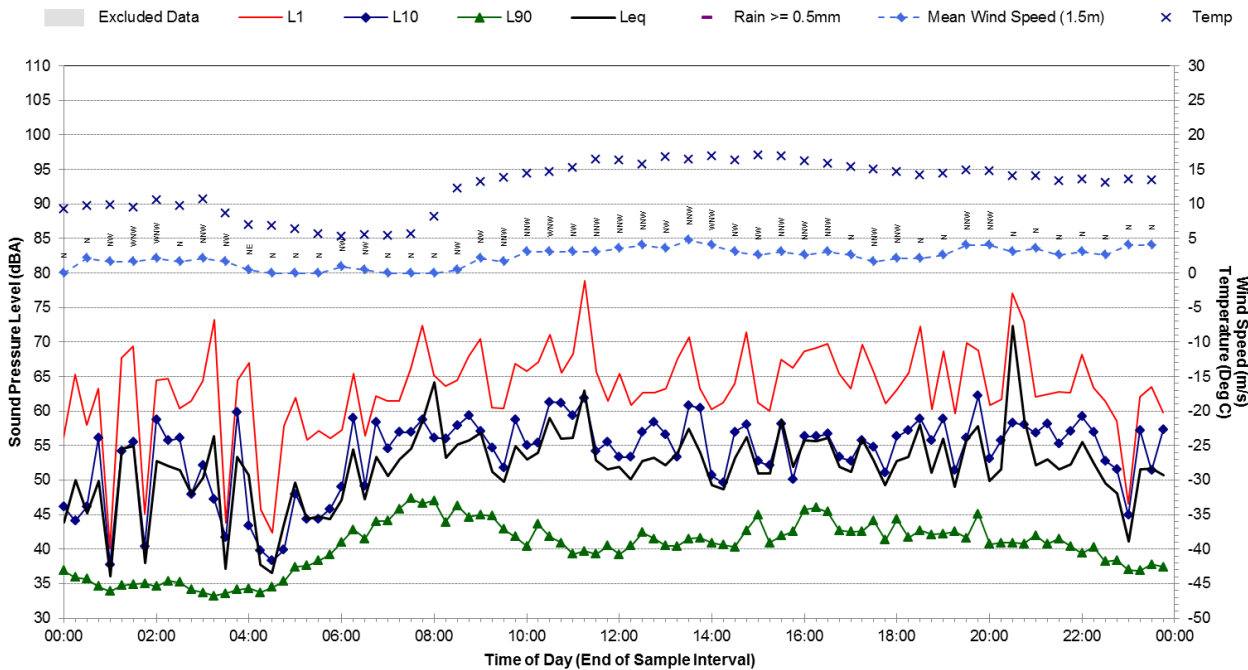
Statistical Ambient Noise Levels

B.08 - Wednesday, 22 June 2016



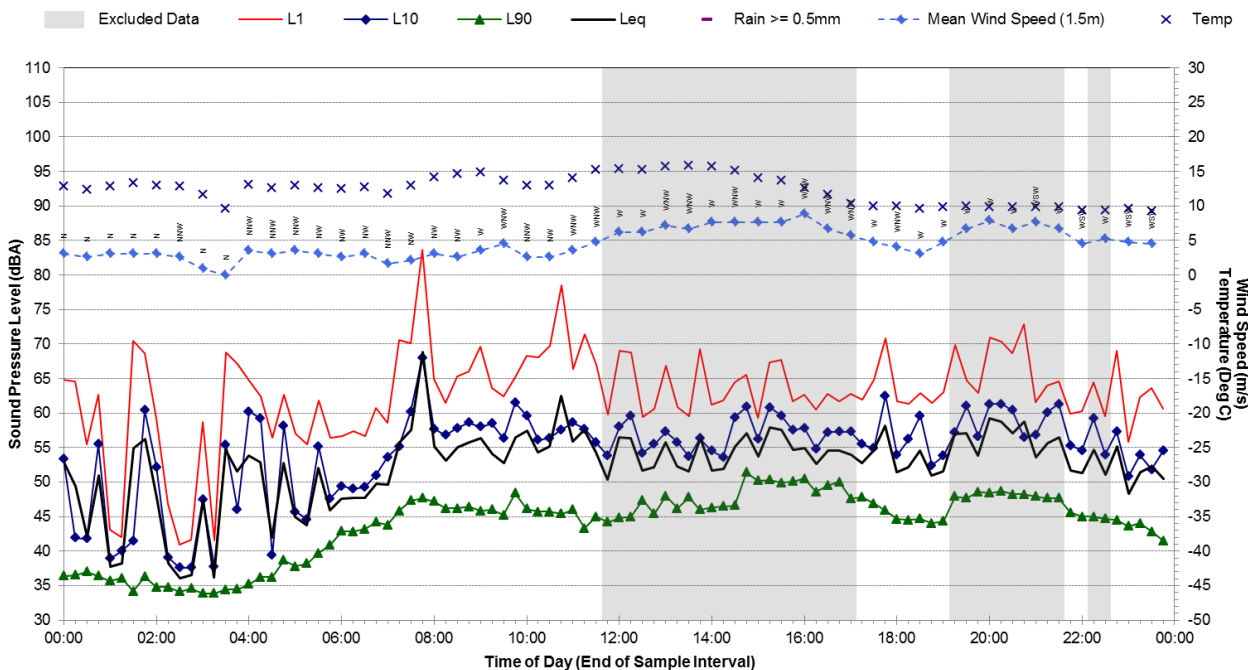
Statistical Ambient Noise Levels

B.08 - Thursday, 23 June 2016



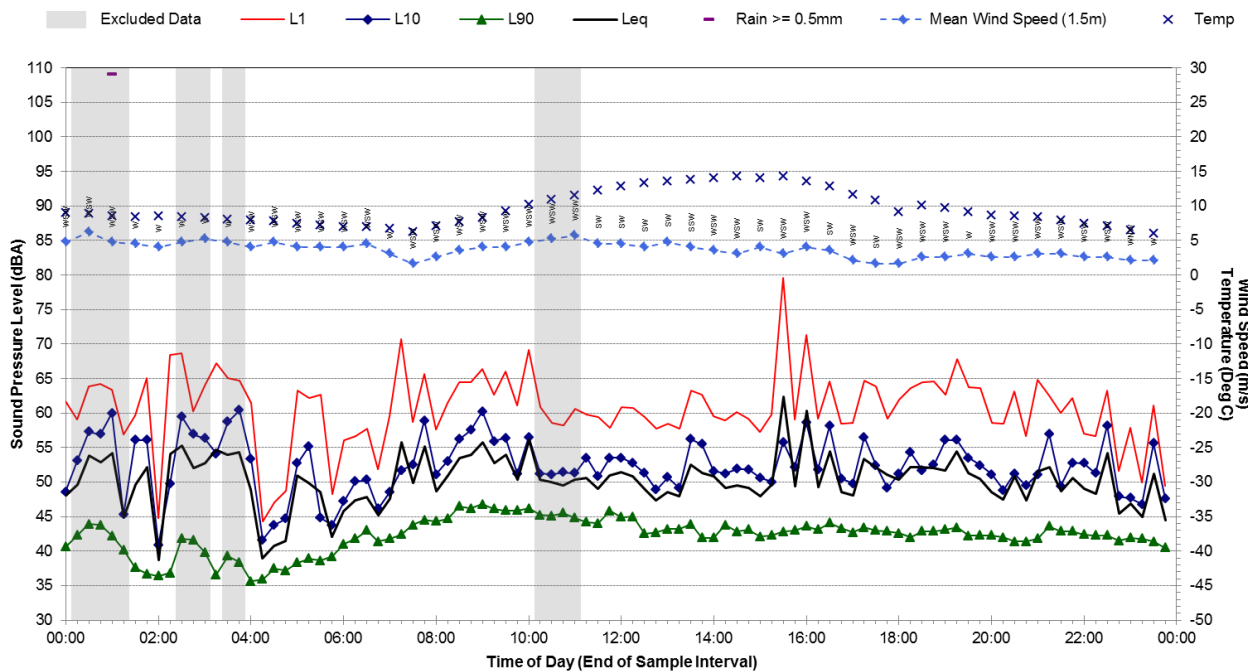
Statistical Ambient Noise Levels

B.08 - Friday, 24 June 2016



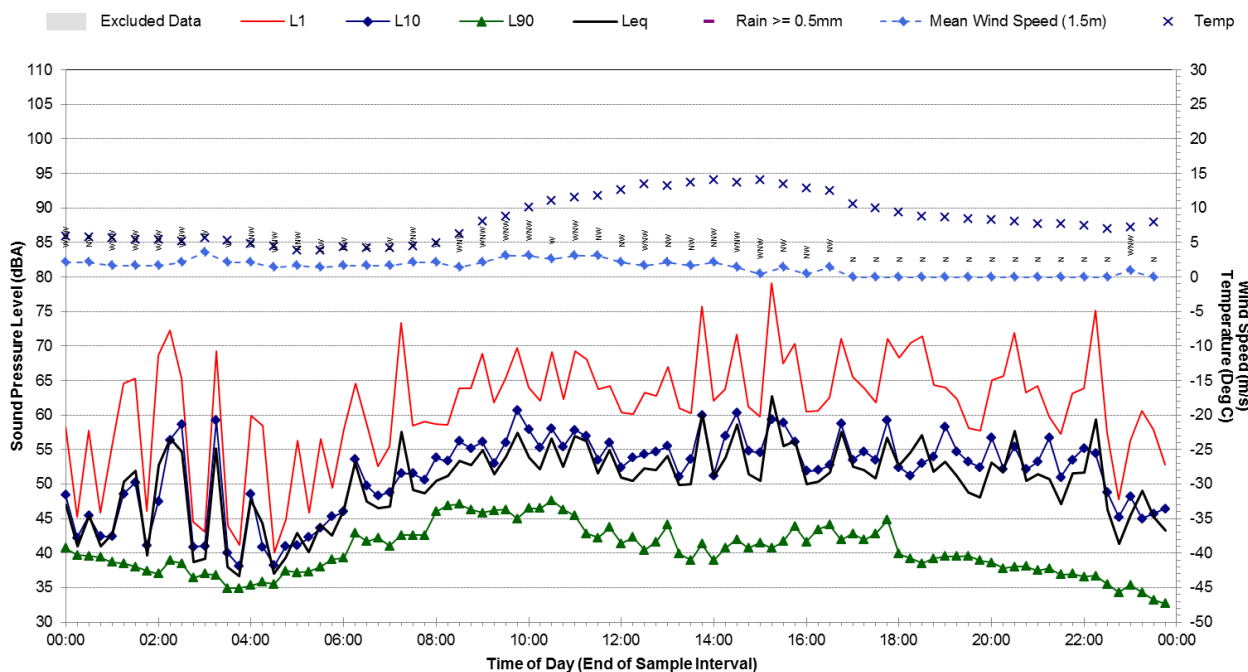
Statistical Ambient Noise Levels

B.08 - Saturday, 25 June 2016



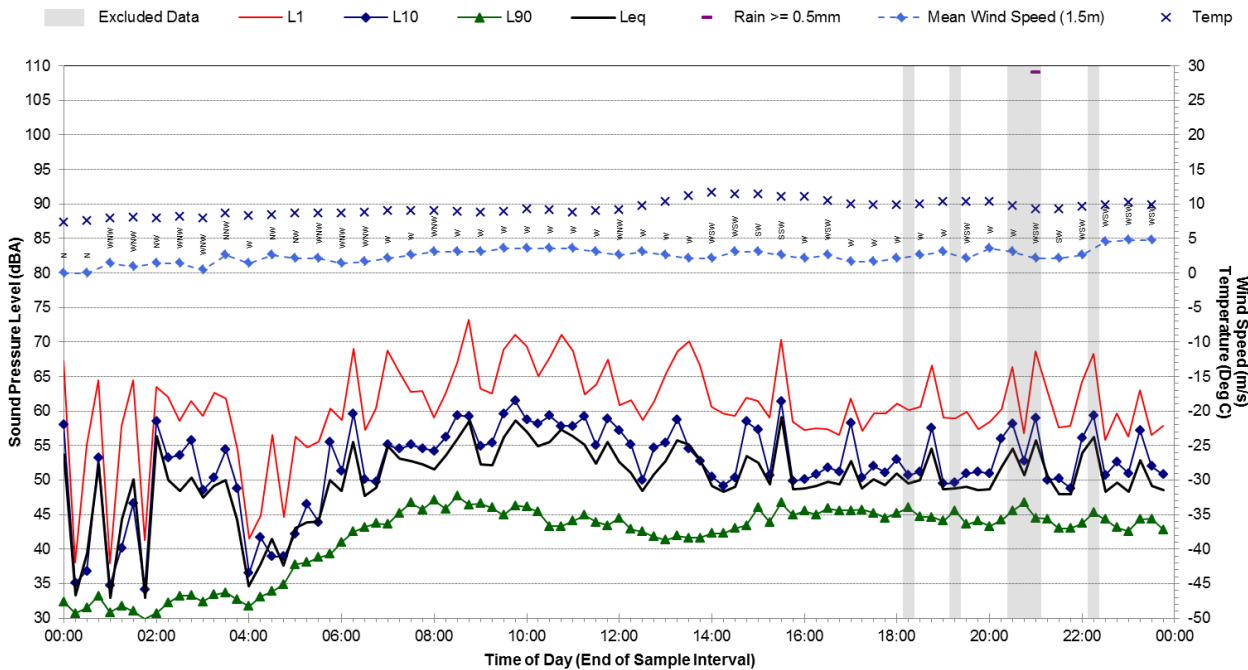
Statistical Ambient Noise Levels

B.08 - Sunday, 26 June 2016



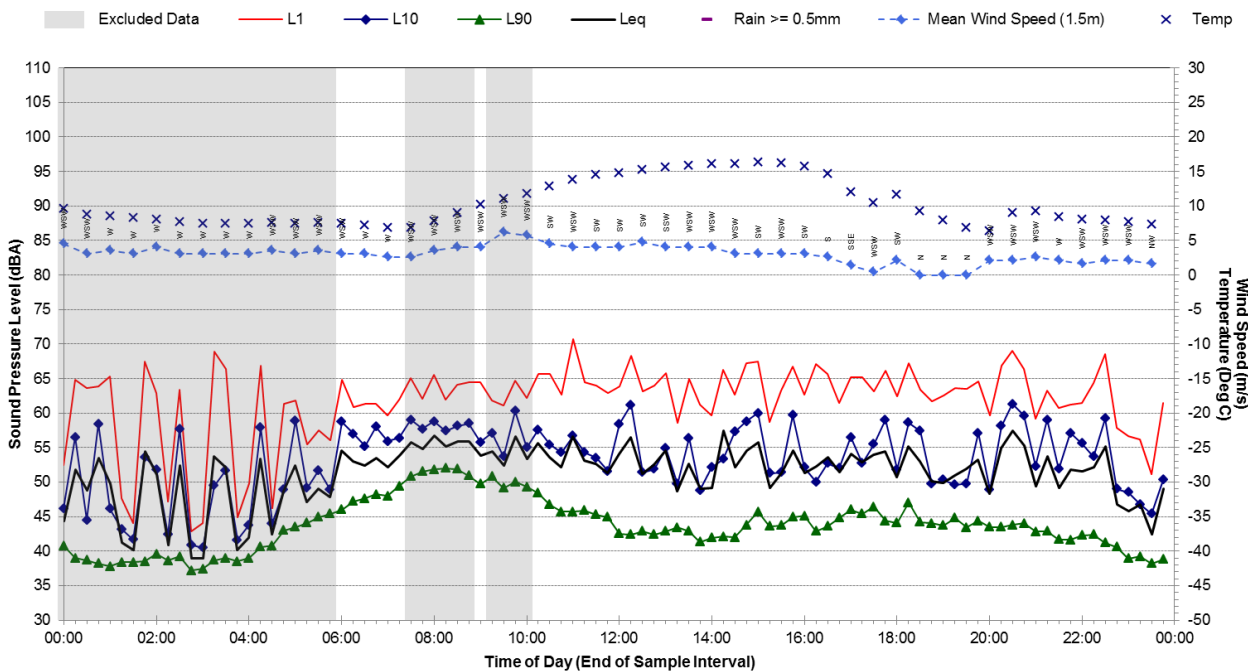
Statistical Ambient Noise Levels

B.08 - Monday, 27 June 2016



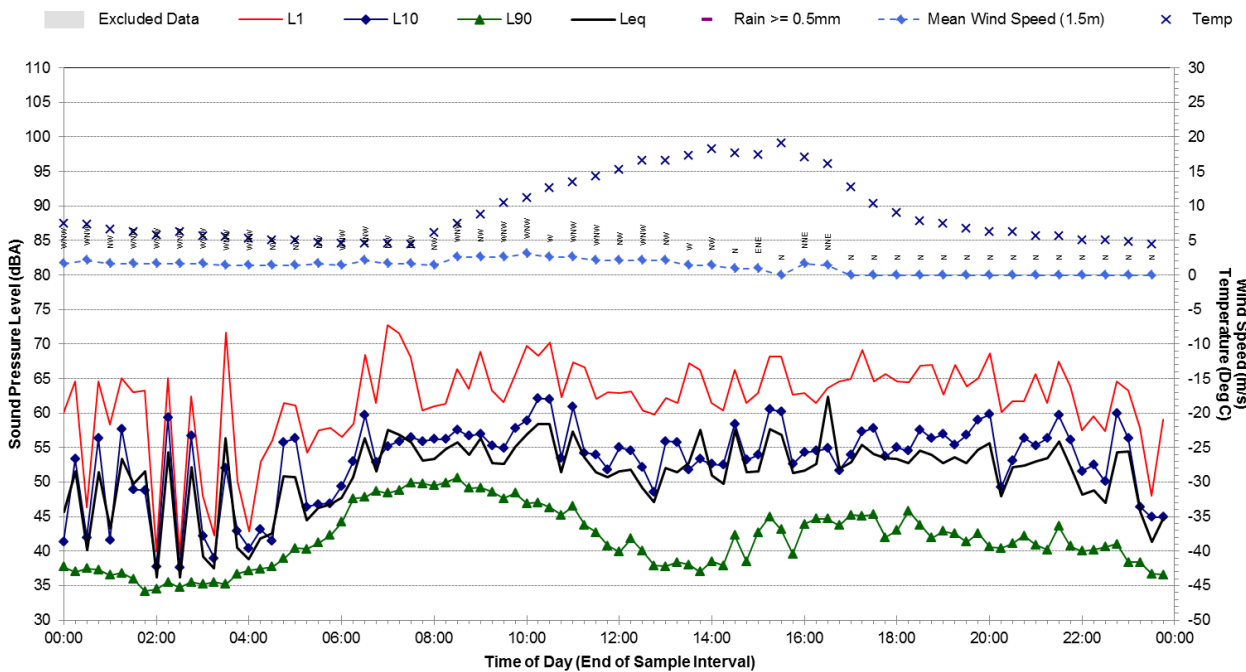
Statistical Ambient Noise Levels

B.08 - Tuesday, 28 June 2016



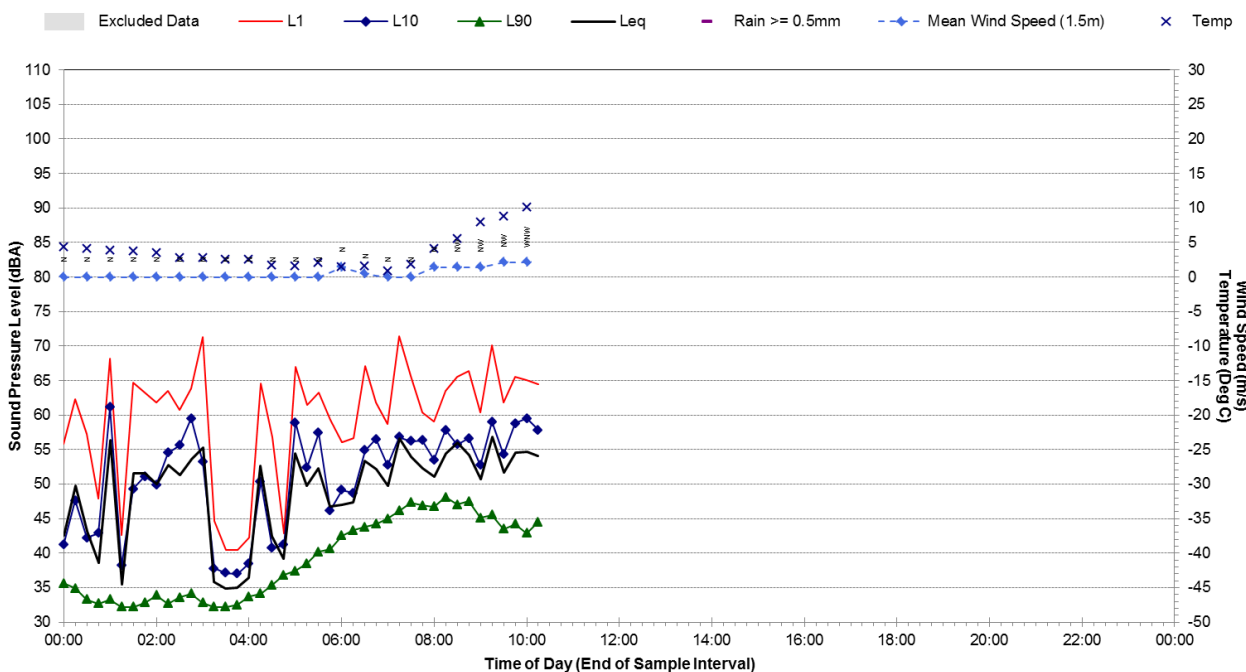
Statistical Ambient Noise Levels

B.08 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.08 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.05

Noise Monitoring Location:	B.05
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Noise Monitoring Address:	36A The Parade, Dulwich Hill 2203
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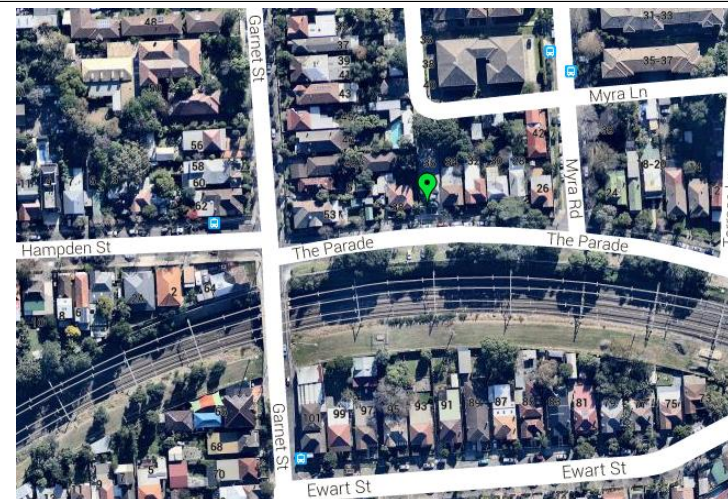
Logger Device Type: ARL-EL316

Logger Serial No: 16-306-042

Ambient noise logger deployed at the south of the residential address 36A The Parade, Dulwich Hill. Logger located on the front balcony of the first floor (2m elevation) with line of sight over the garden entrance and The Parade.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by distant road traffic noise and neighbourhood noise (door slams etc). LAeq levels at this location were influenced by aircraft and rail noise due to the property lying close to the ANEF contours and approximately 35m north of the nearest Bankstown Line track.

Map of Noise Monitoring Location

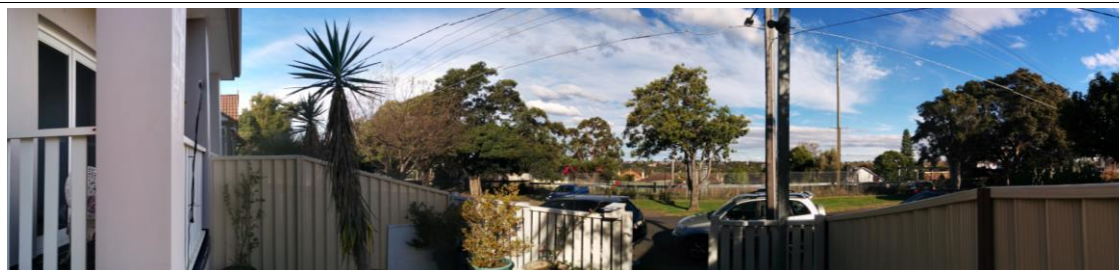
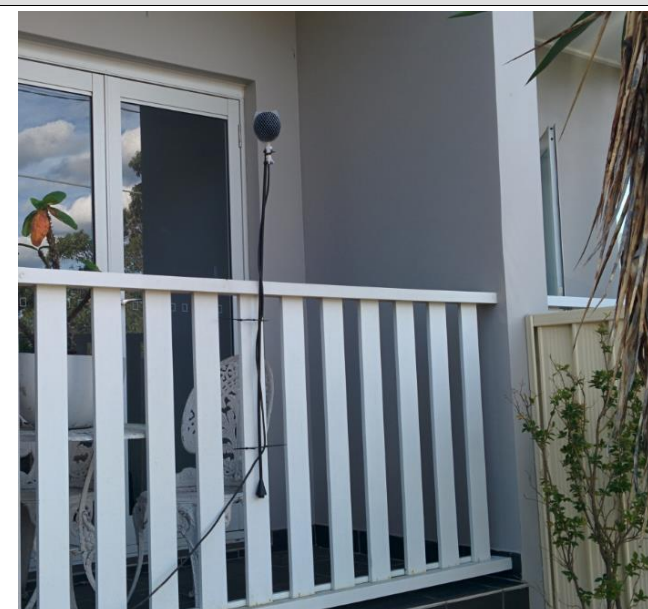


Ambient Noise Logging Results – INP Defined Time Periods	Photo of Noise Monitoring Location
-----------------------------------------------------------------	-------------------------------------------

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	40	57	60	67
Evening	40	56	59	67
Night-time	33	52	51	63

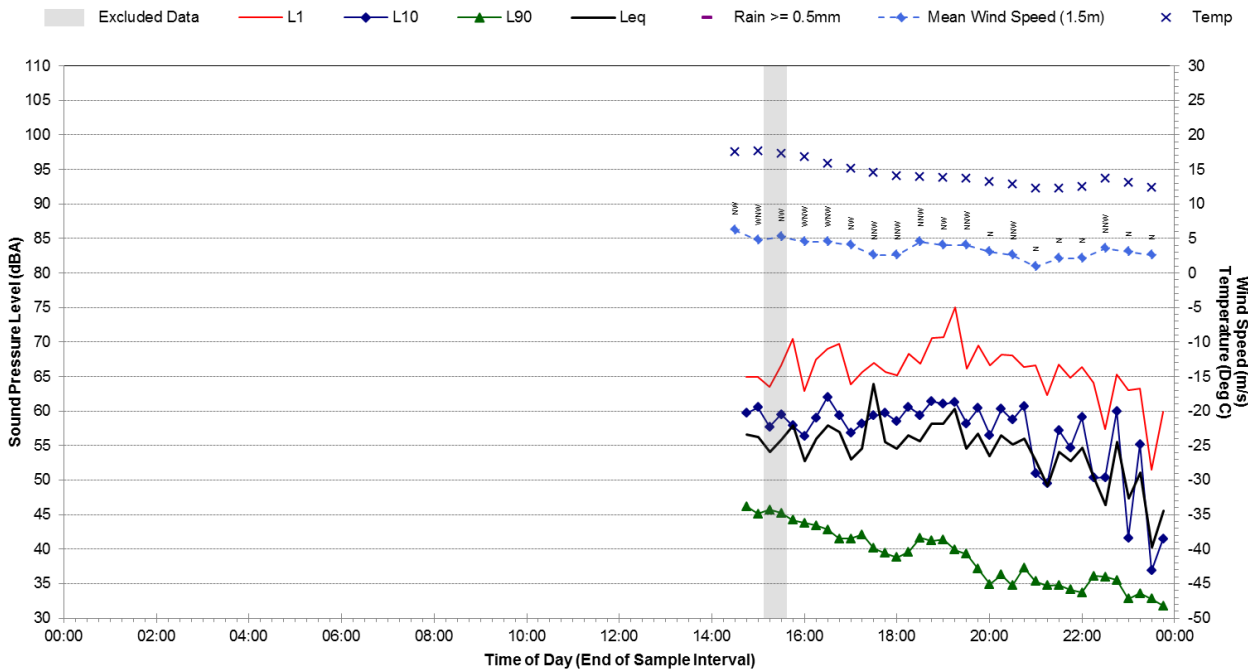
Attended Noise Measurement Results				
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Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2015	14:32	46	56	72



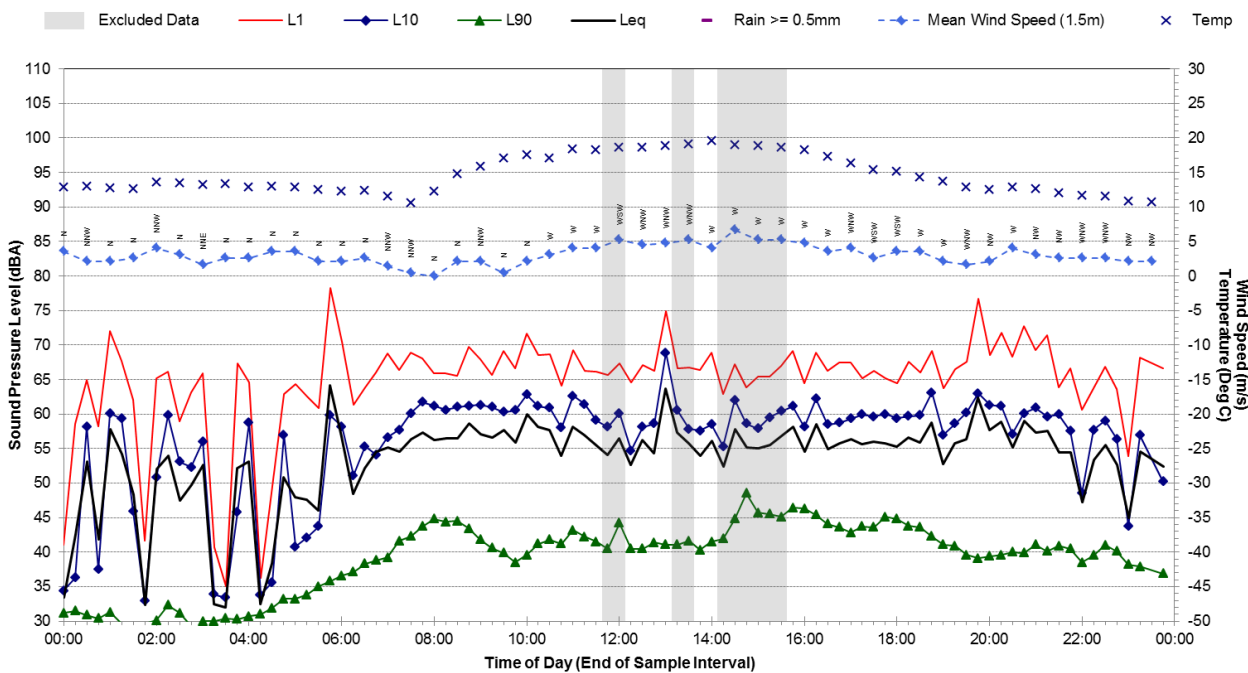
Statistical Ambient Noise Levels

B.09 - Tuesday, 21 June 2016



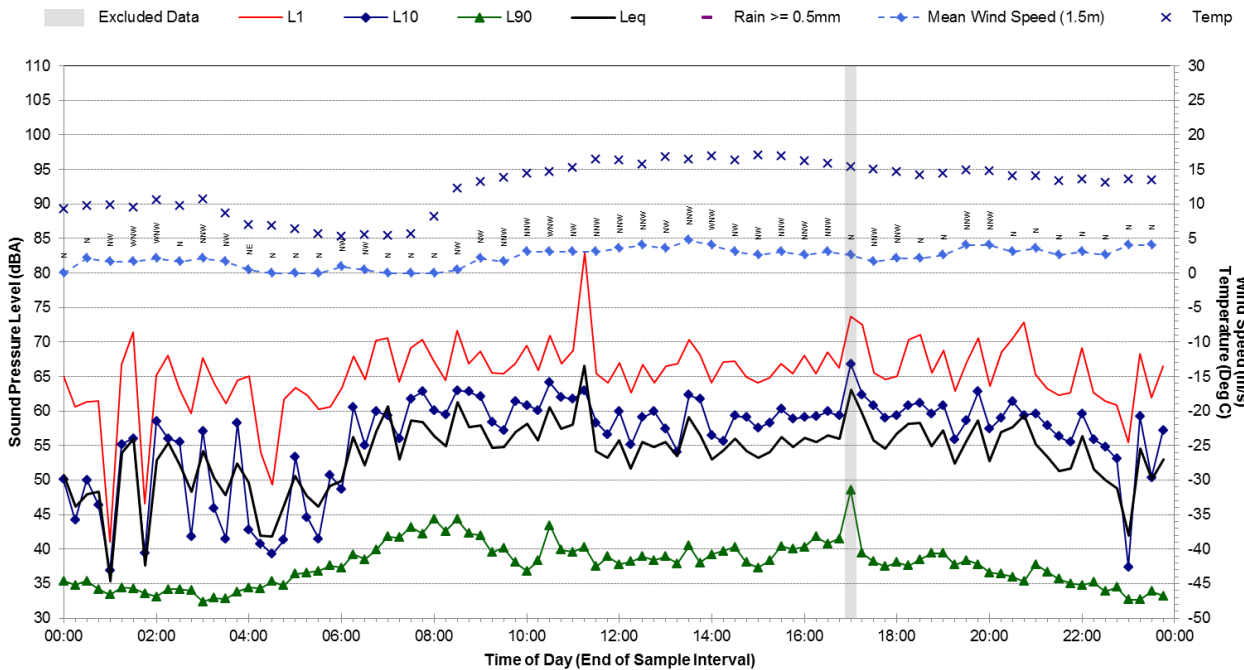
Statistical Ambient Noise Levels

B.09 - Wednesday, 22 June 2016



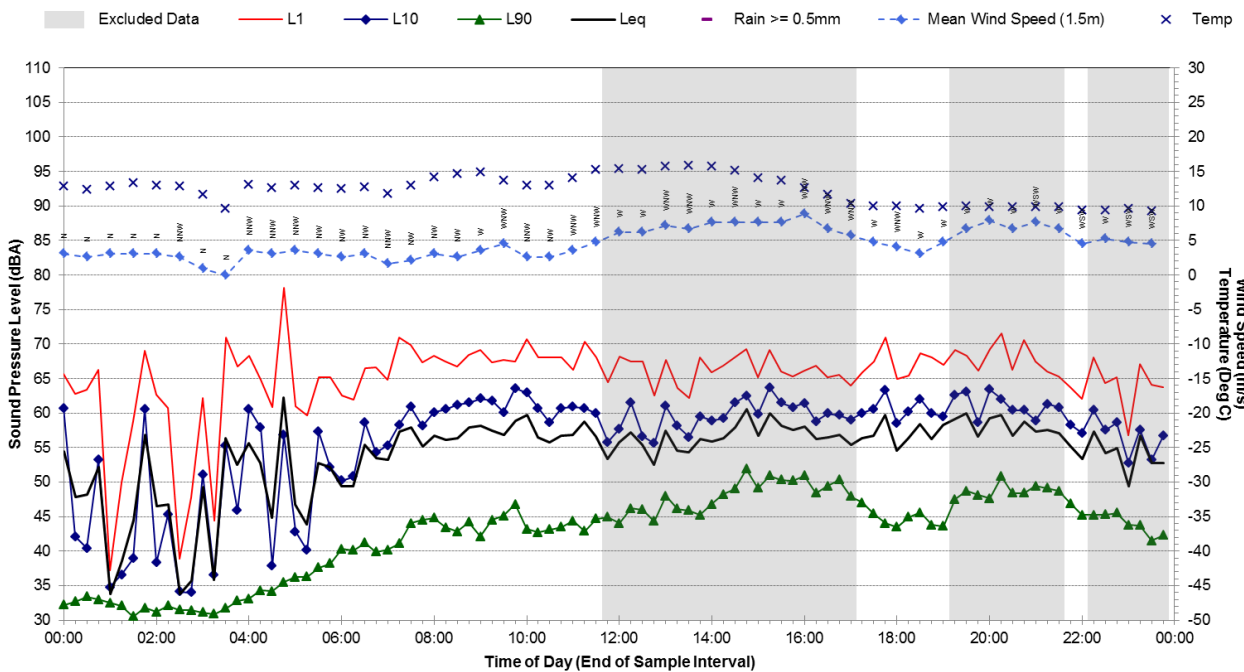
Statistical Ambient Noise Levels

B.09 - Thursday, 23 June 2016



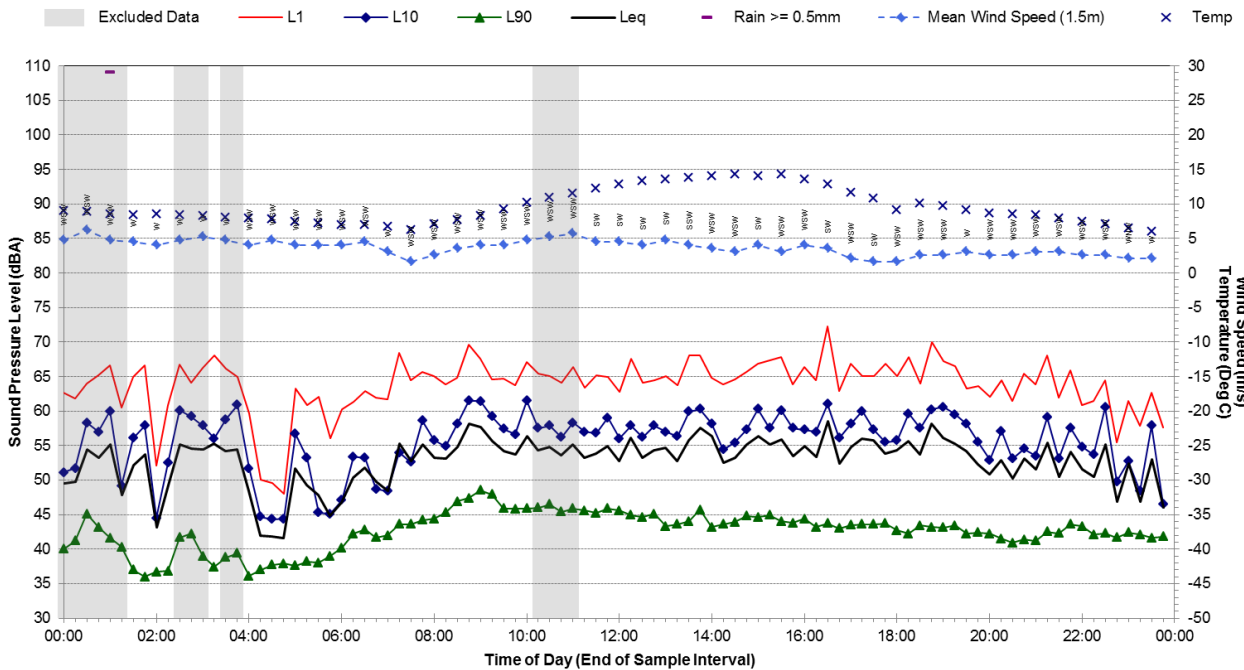
Statistical Ambient Noise Levels

B.09 - Friday, 24 June 2016



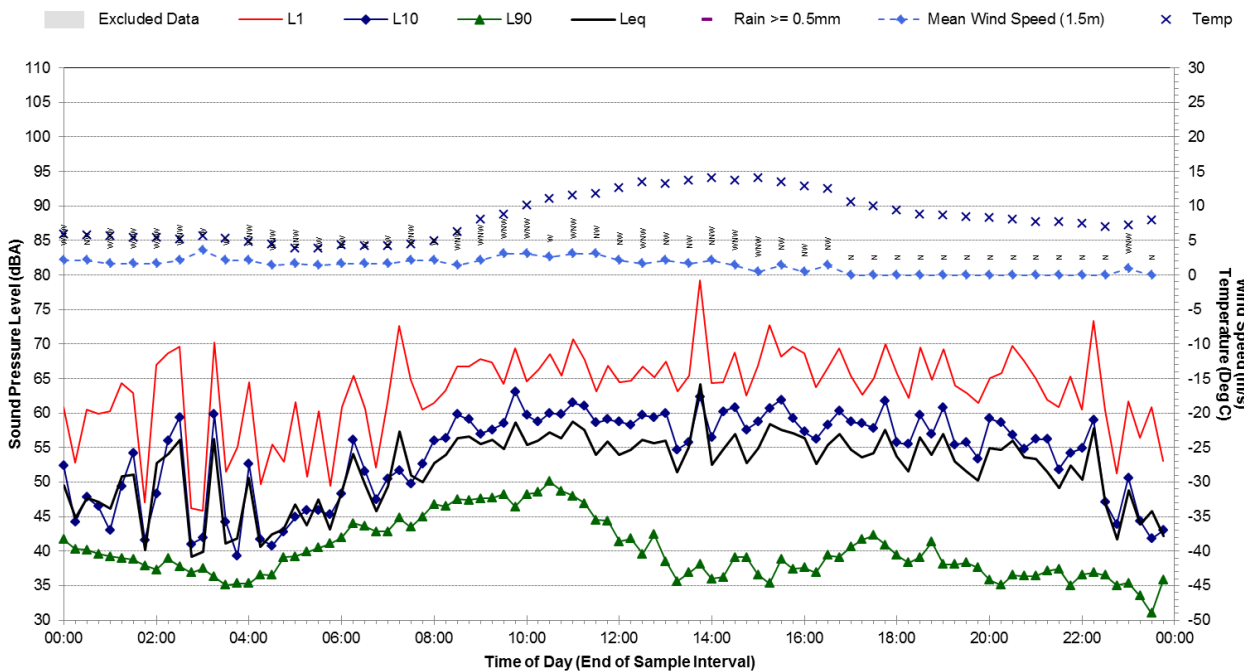
Statistical Ambient Noise Levels

B.09 - Saturday, 25 June 2016



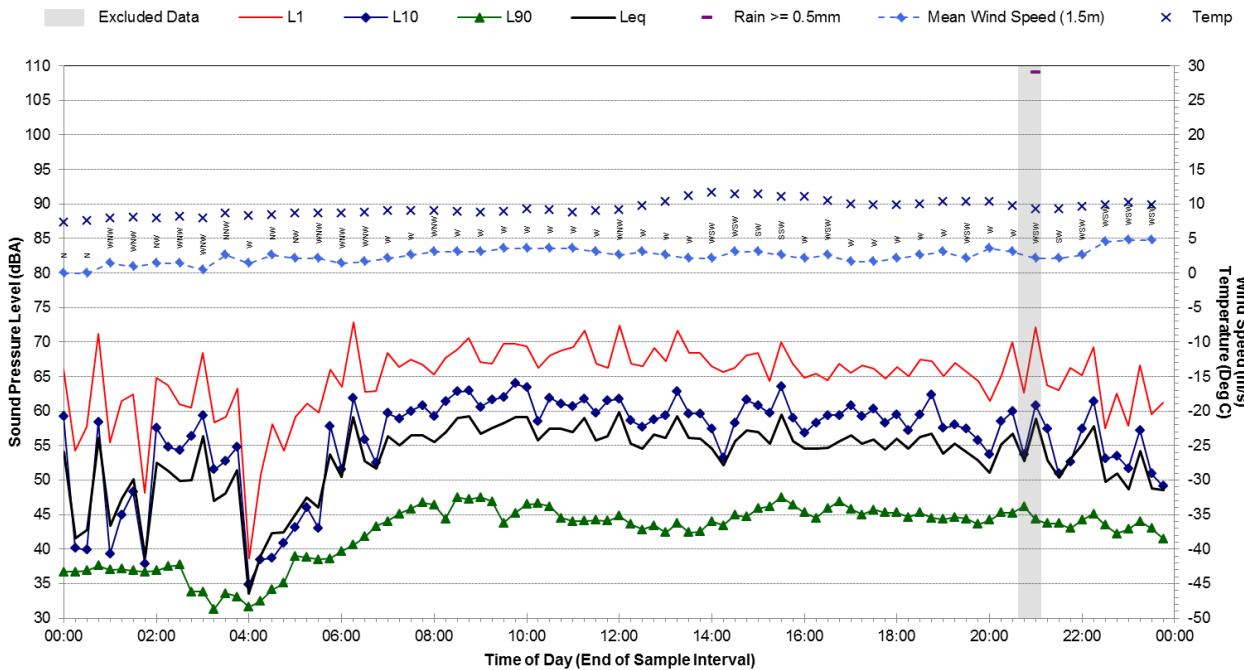
Statistical Ambient Noise Levels

B.09 - Sunday, 26 June 2016



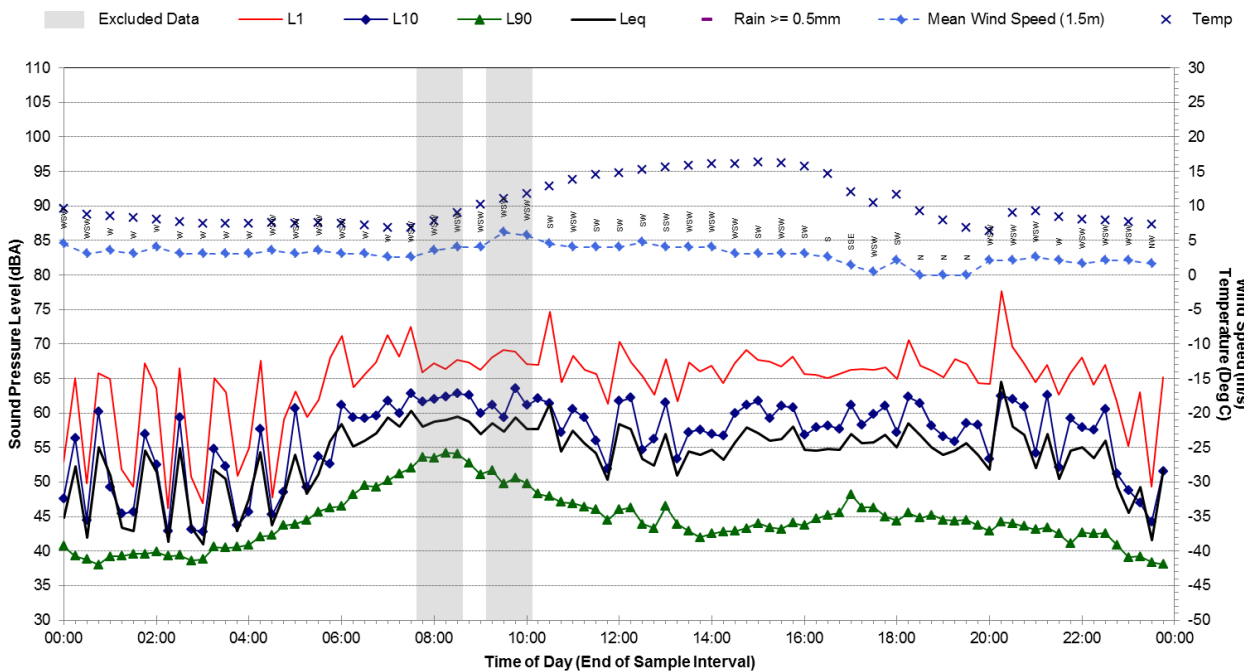
Statistical Ambient Noise Levels

B.09 - Monday, 27 June 2016



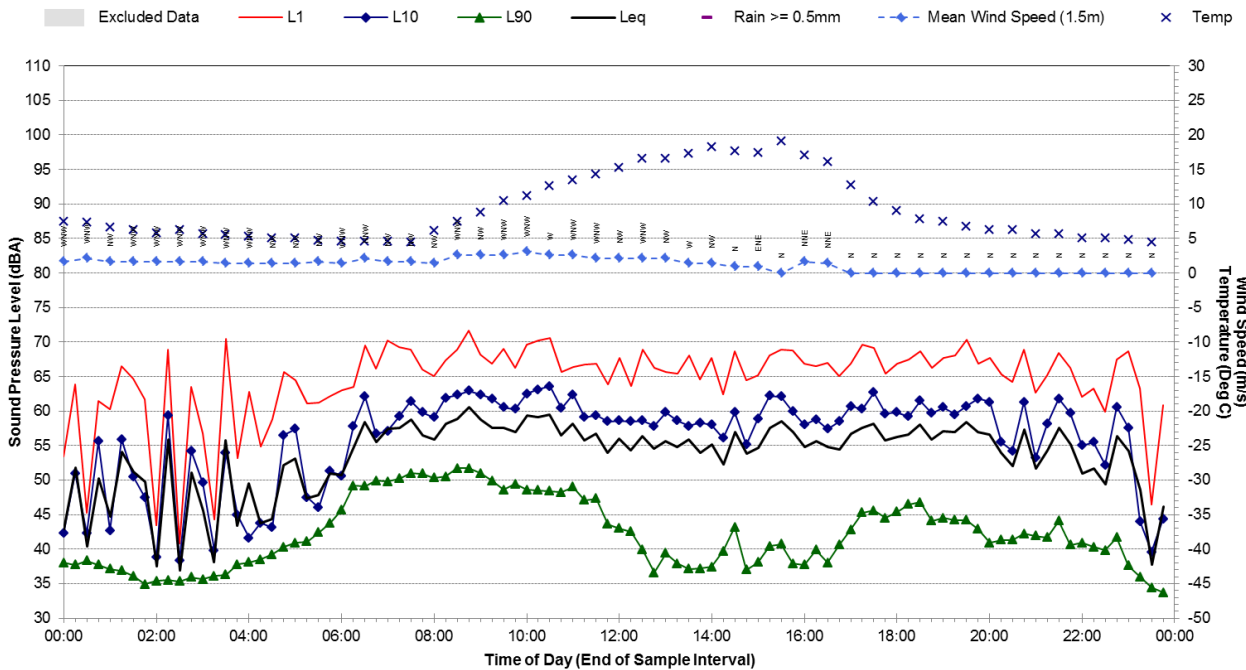
Statistical Ambient Noise Levels

B.09 - Tuesday, 28 June 2016



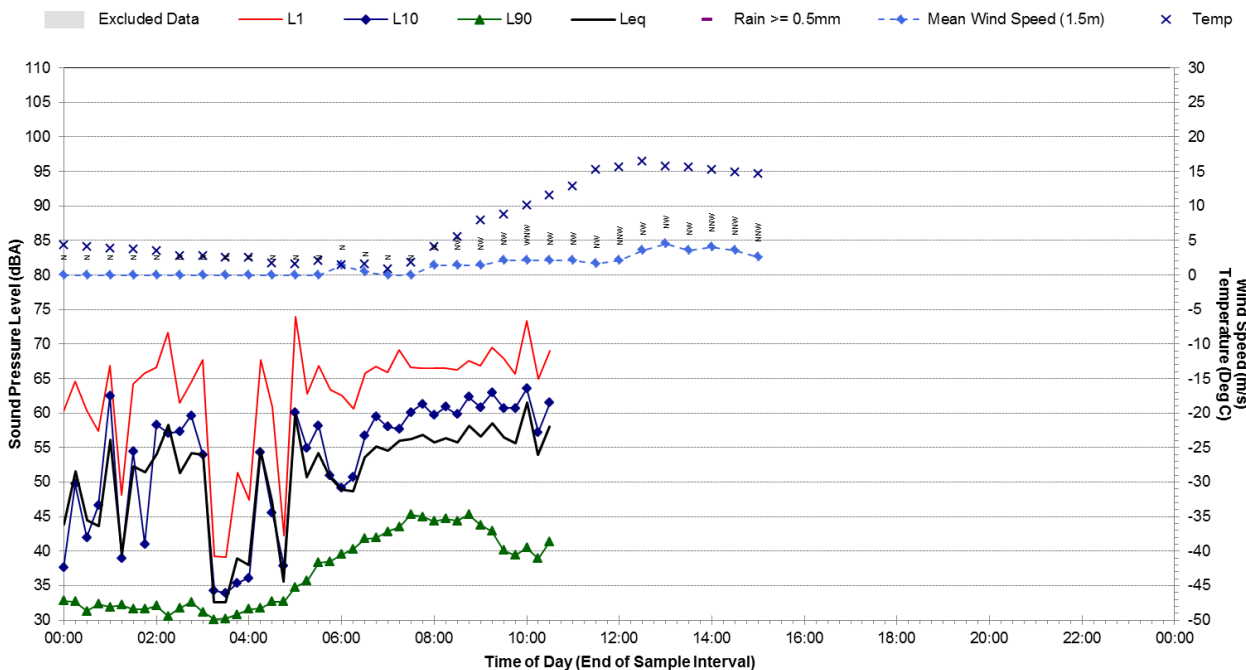
Statistical Ambient Noise Levels

B.09 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.09 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.06

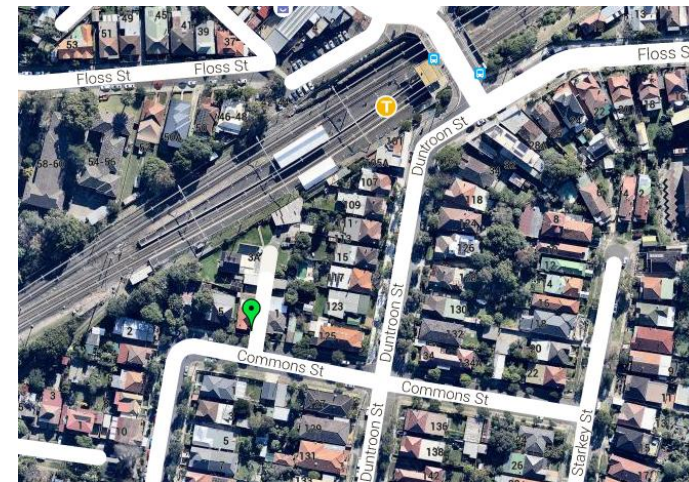
Noise Monitoring Location: B.06 **Map of Noise Monitoring Location**

Noise Monitoring Address: 3 Commons Street, Hurlstone Park 2193

Logger Device Type: ARL-EL316
 Logger Serial No: 16-207-048

Ambient noise logger deployed at the south east of the residential address 3 Commons Street, Hurlstone Park. Logger located in the front garden adjacent to a northbound laneway off Commons Street. There is a 270 degrees line of sight over Commons Street and northbound laneway towards Hurlstone Park station.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by distant road traffic noise and aircraft noise. Recorded LAeq levels were influenced by suburban neighbourhood noise and rail noise due to the monitoring location lying approximately 55m south of the nearest Bankstown Line track.

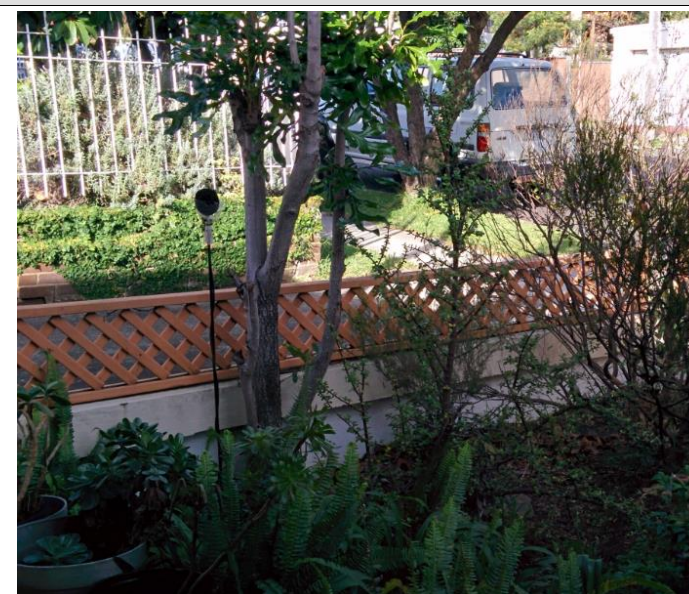
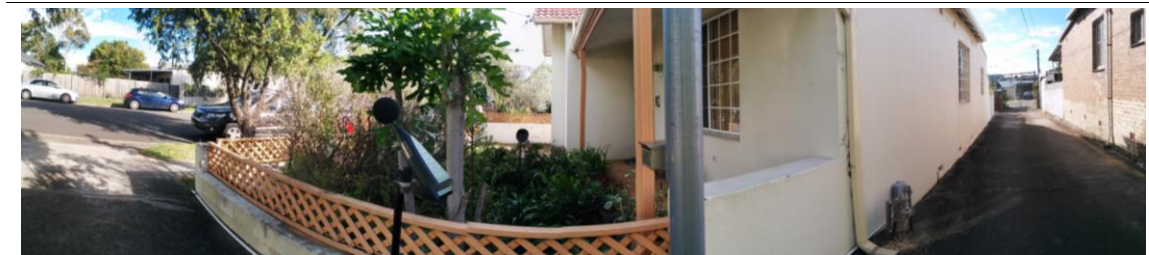


Ambient Noise Logging Results – INP Defined Time Periods **Photo of Noise Monitoring Location**

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	38	56	57	67
Evening	39	53	54	63
Night-time	34	49	46	56

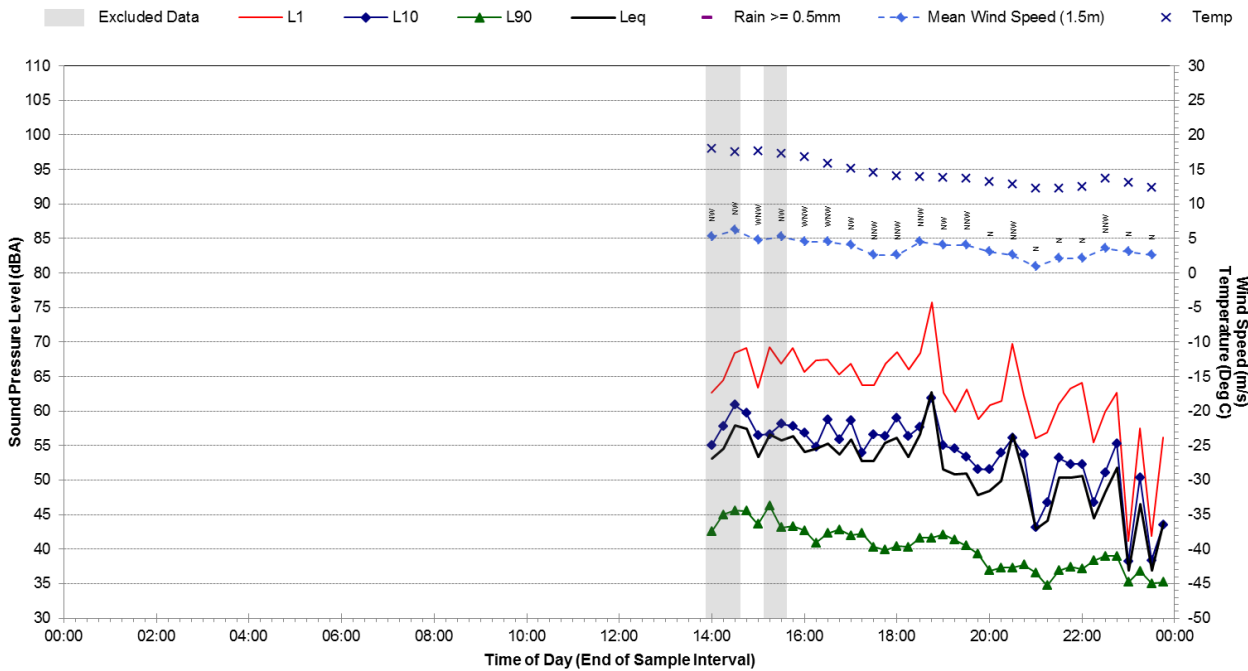
Attended Noise Measurement Results

Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	13:43	44	51	68



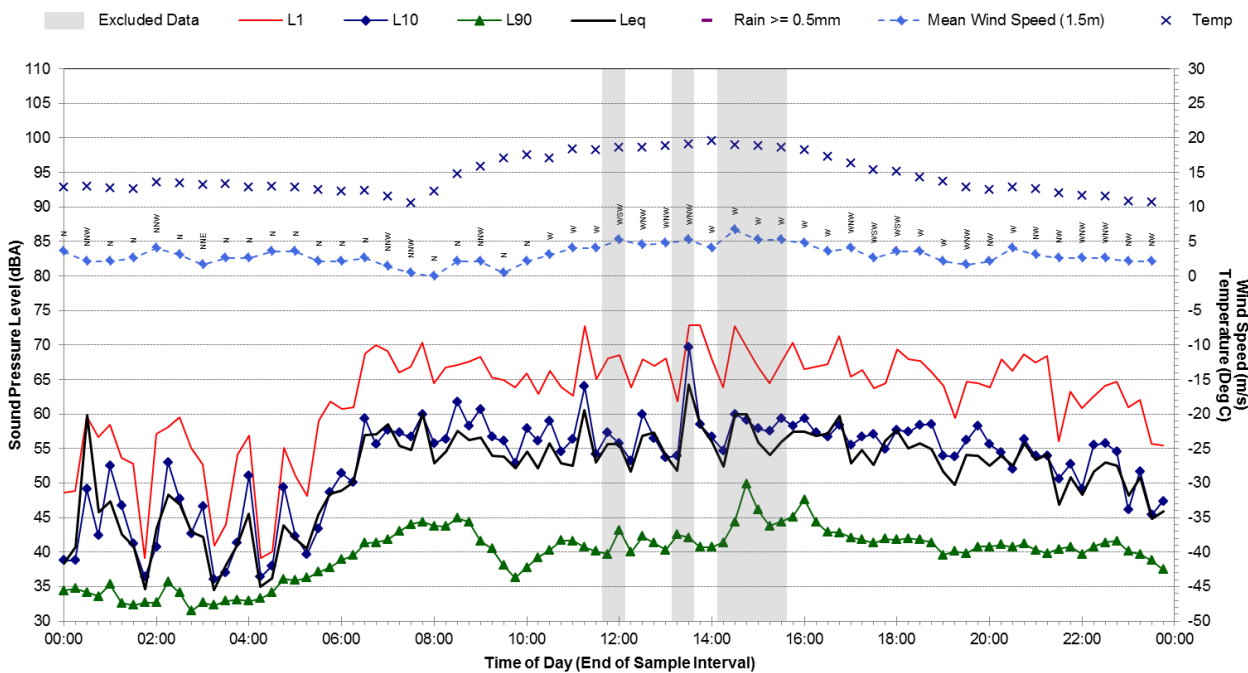
Statistical Ambient Noise Levels

B.10 - Tuesday, 21 June 2016



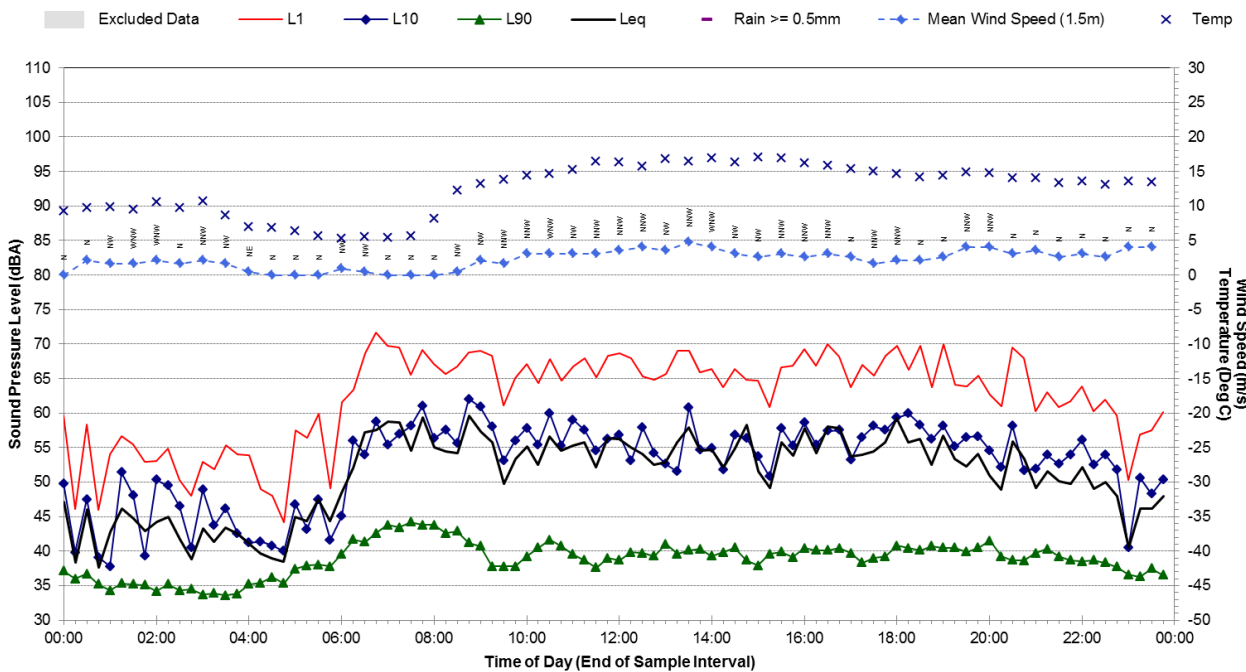
Statistical Ambient Noise Levels

B.10 - Wednesday, 22 June 2016



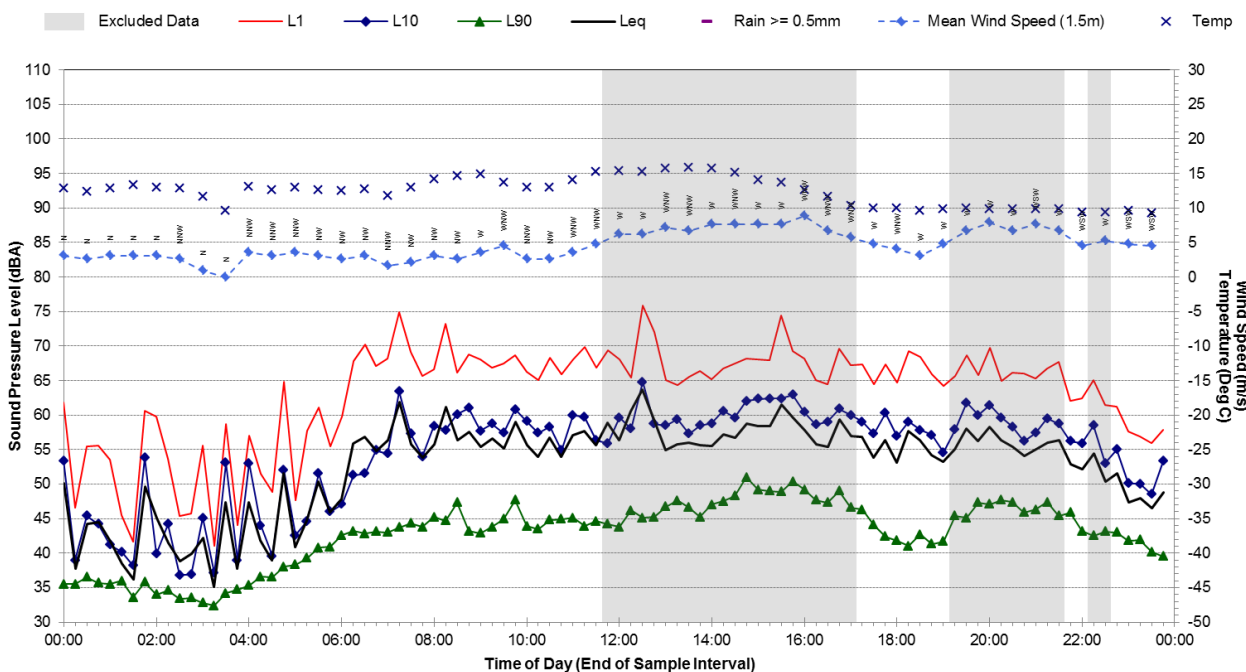
Statistical Ambient Noise Levels

B.10 - Thursday, 23 June 2016



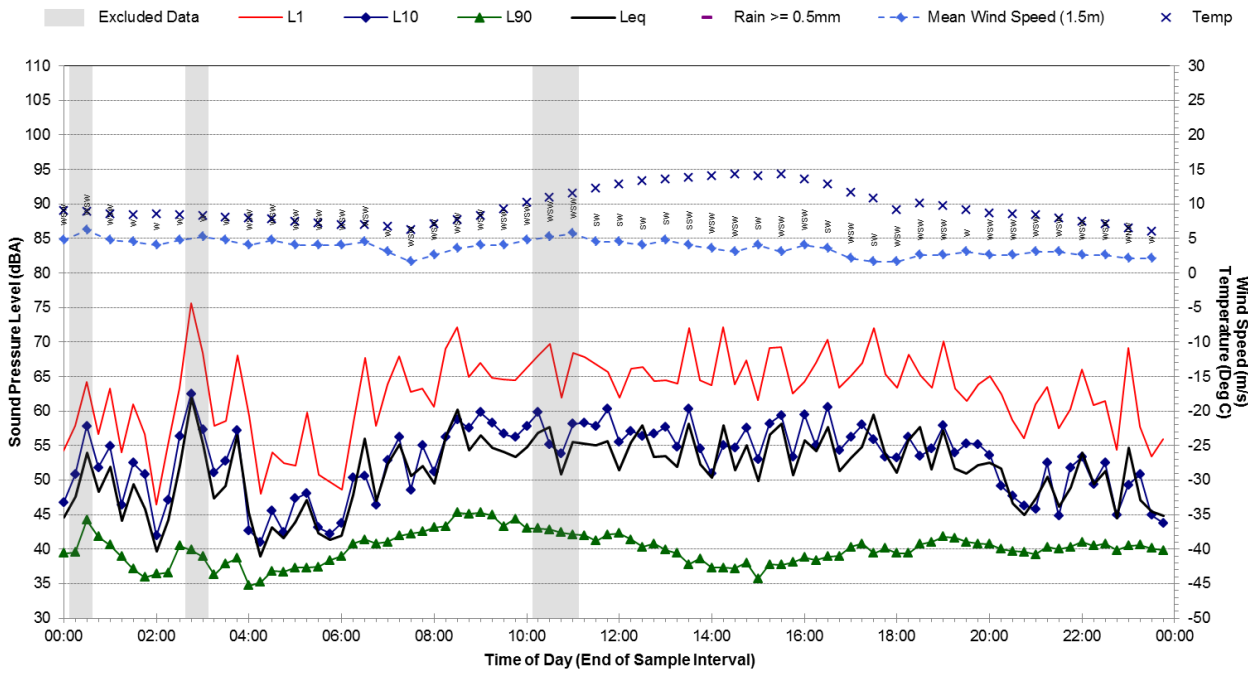
Statistical Ambient Noise Levels

B.10 - Friday, 24 June 2016



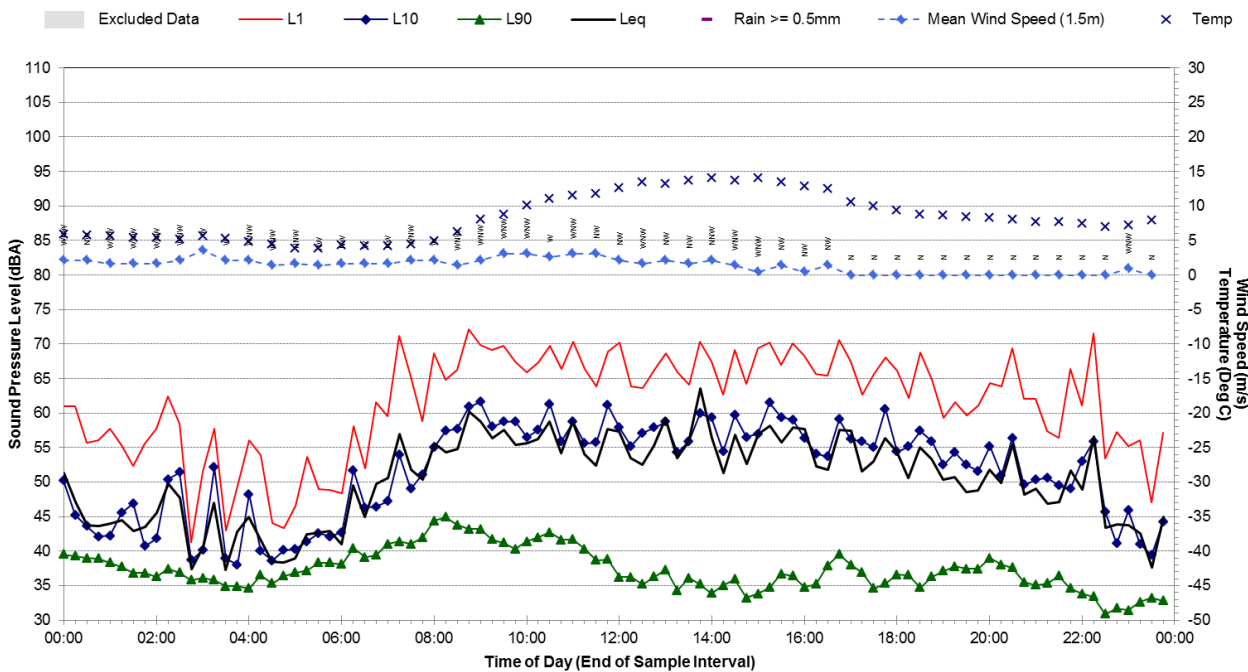
Statistical Ambient Noise Levels

B.10 - Saturday, 25 June 2016



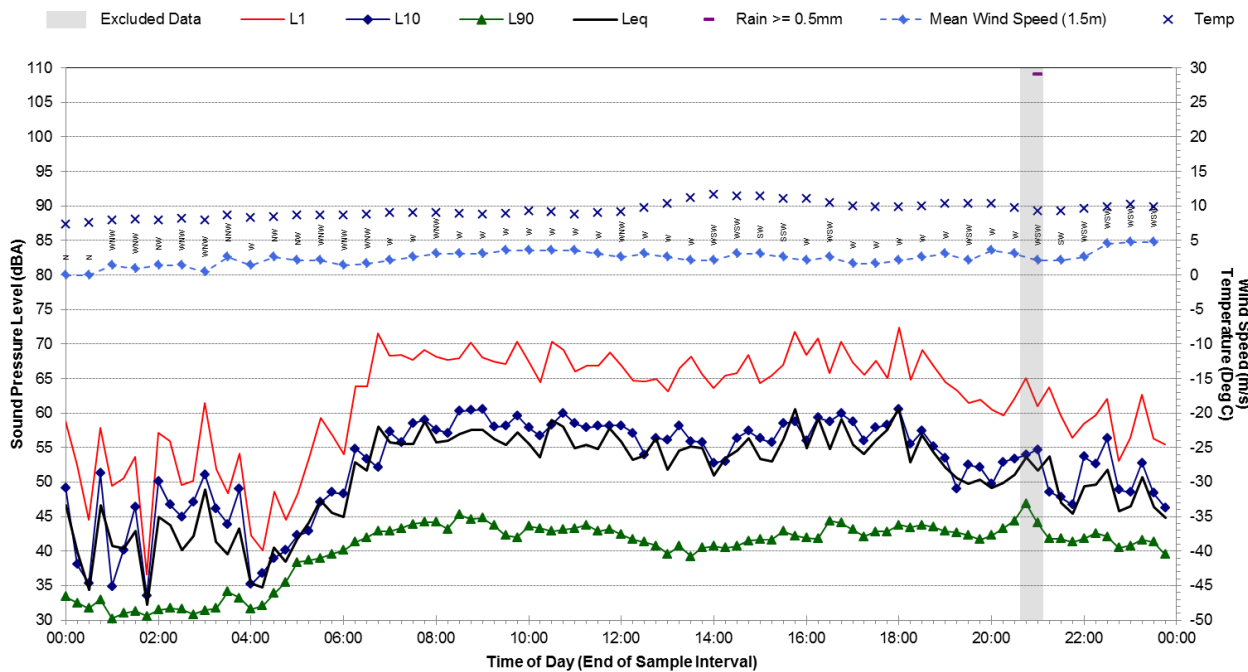
Statistical Ambient Noise Levels

B.10 - Sunday, 26 June 2016



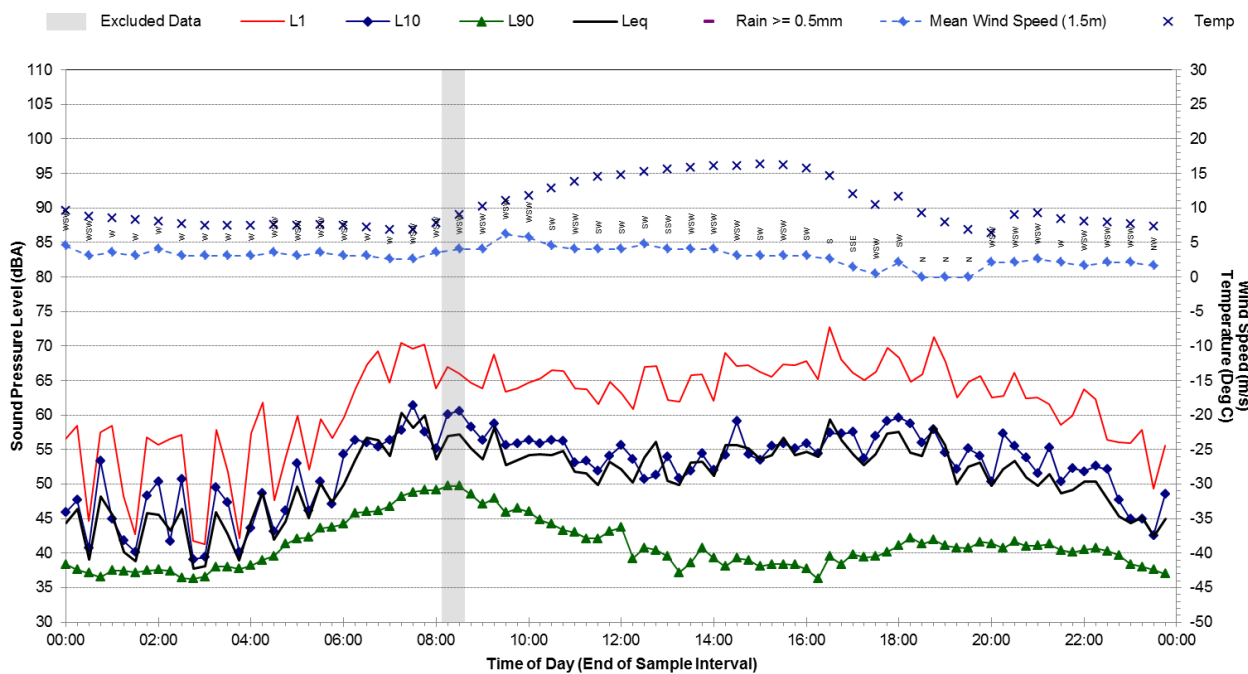
Statistical Ambient Noise Levels

B.10 - Monday, 27 June 2016



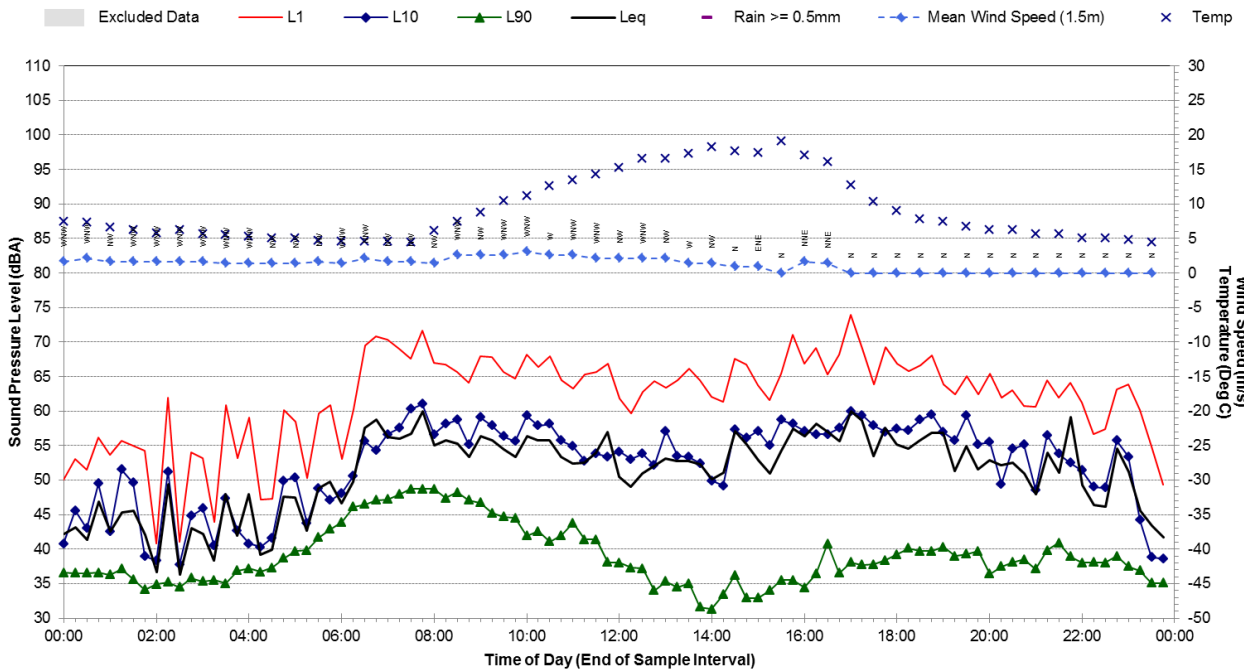
Statistical Ambient Noise Levels

B.10 - Tuesday, 28 June 2016



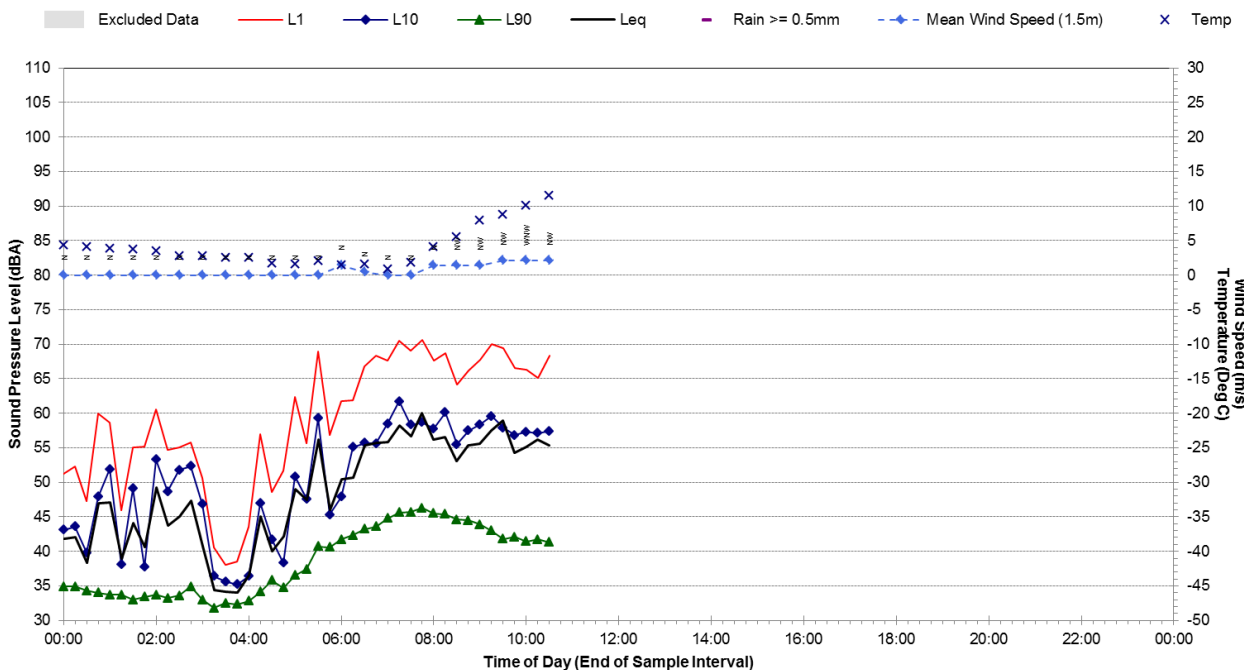
Statistical Ambient Noise Levels

B.10 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.10 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.07

Noise Monitoring Location: B.07 **Map of Noise Monitoring Location**

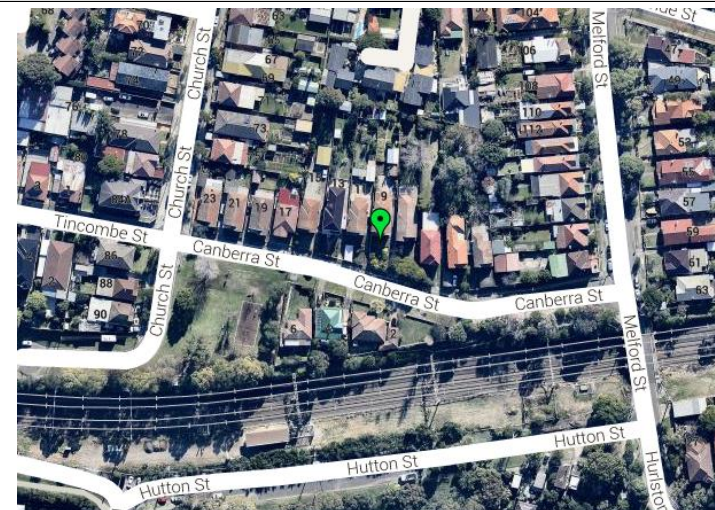
Noise Monitoring Address: 9 Canberra Street, Hurlstone Park 2193

Logger Device Type: ARL-EL316

Logger Serial No: 16-203-508

Ambient noise logger deployed at the south of the residential address 9 Canberra Street, Hurlstone Park. Logger located beside a tree in the front yard of the premises, with line of sight south over the garden and Canberra Street.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by distant road traffic noise and aircraft noise. LAeq noise levels at this location were influenced by neighbourhood noise (dog barking, birds etc) and rail noise due to the property lying approximately 55m north of the nearest Bankstown Line track.

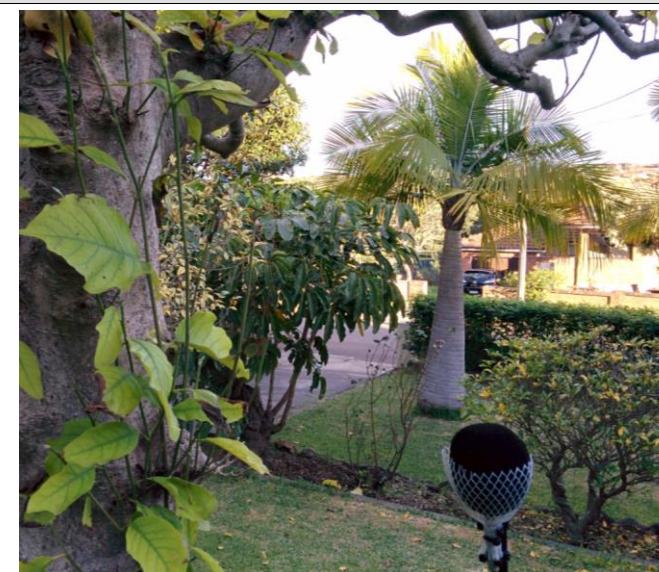


Ambient Noise Logging Results – INP Defined Time Periods **Photo of Noise Monitoring Location**

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	40	53	54	61
Evening	40	50	51	59
Night-time	35	47	46	55

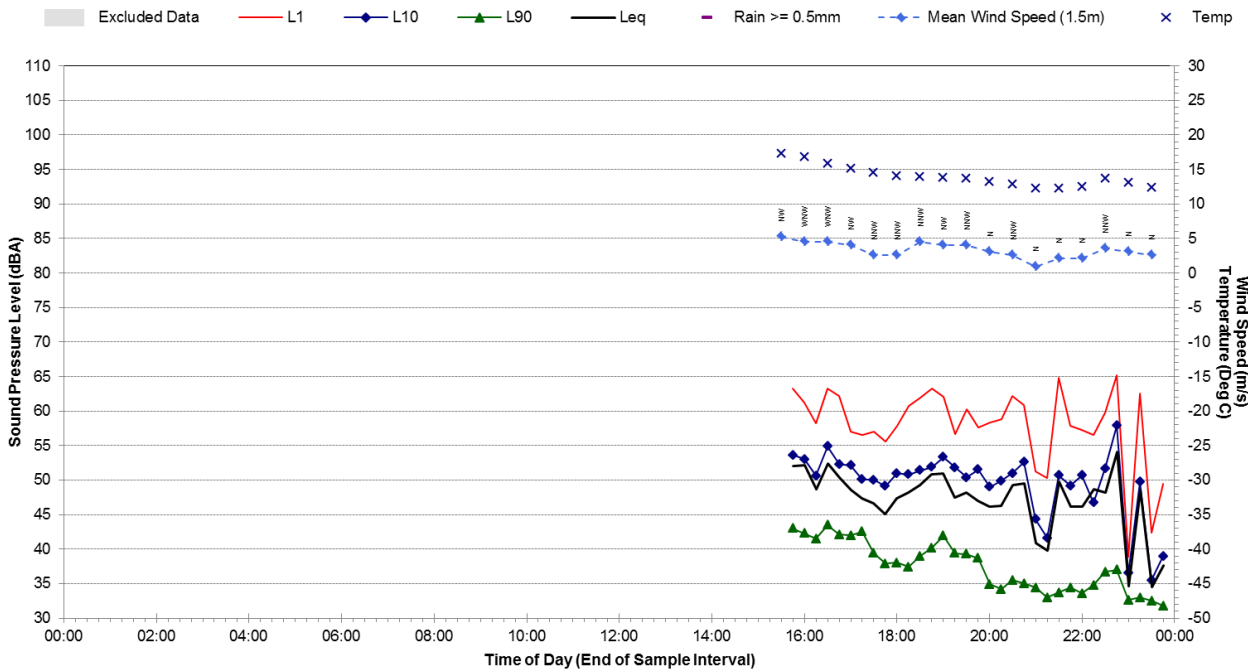
Attended Noise Measurement Results

Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	15:26	44	51	72



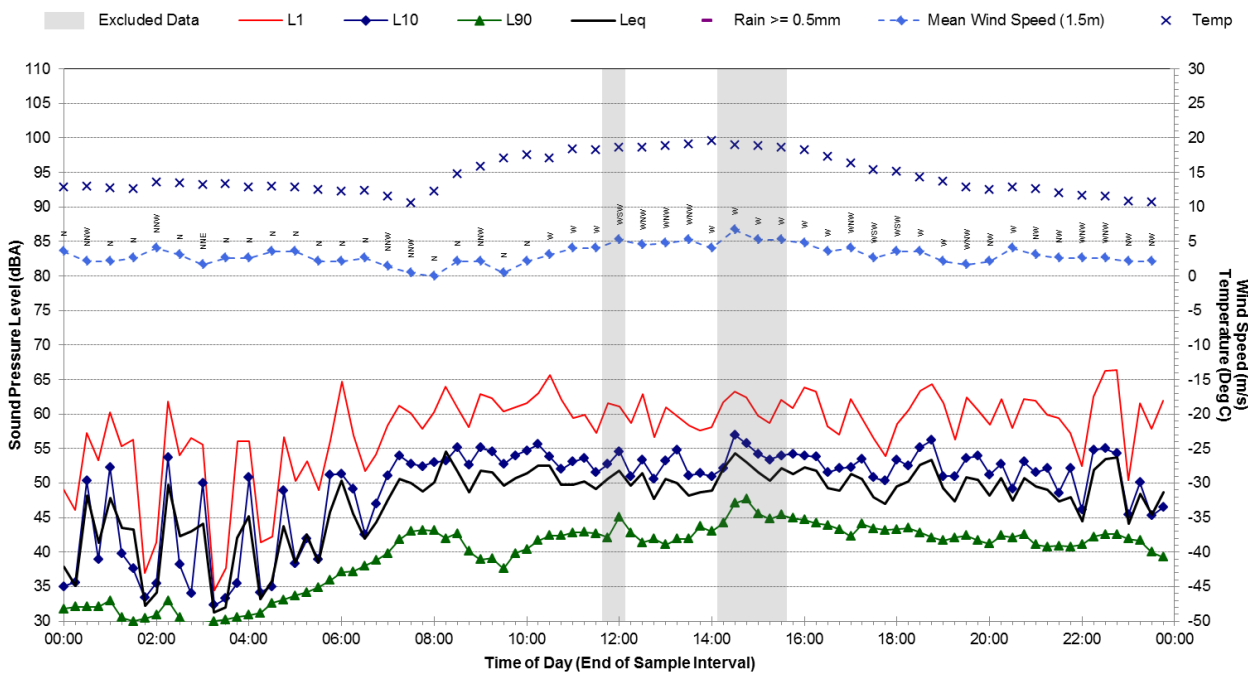
Statistical Ambient Noise Levels

B.11 - Tuesday, 21 June 2016



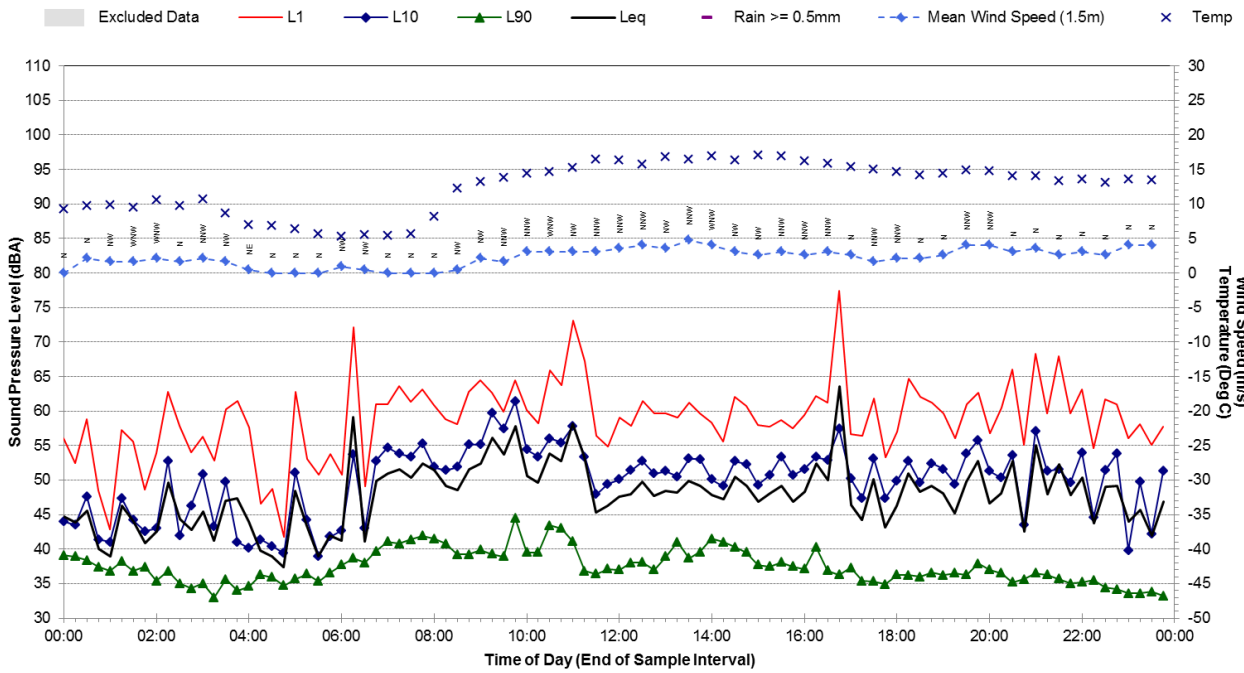
Statistical Ambient Noise Levels

B.11 - Wednesday, 22 June 2016



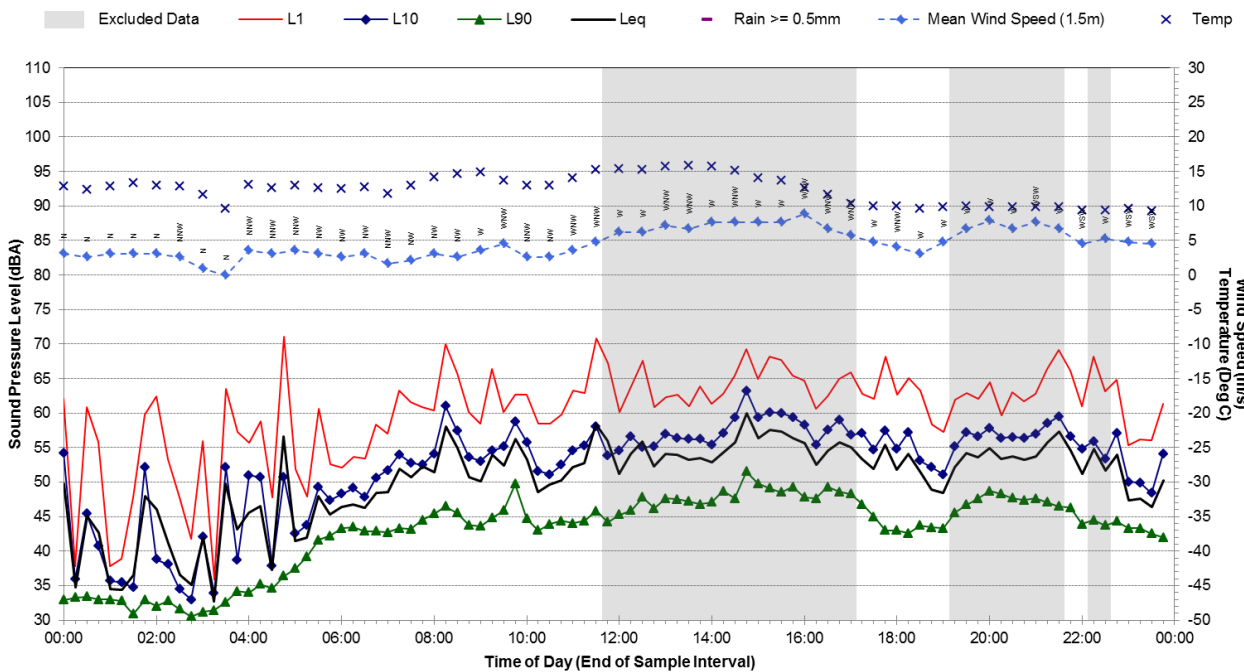
Statistical Ambient Noise Levels

B.11 - Thursday, 23 June 2016



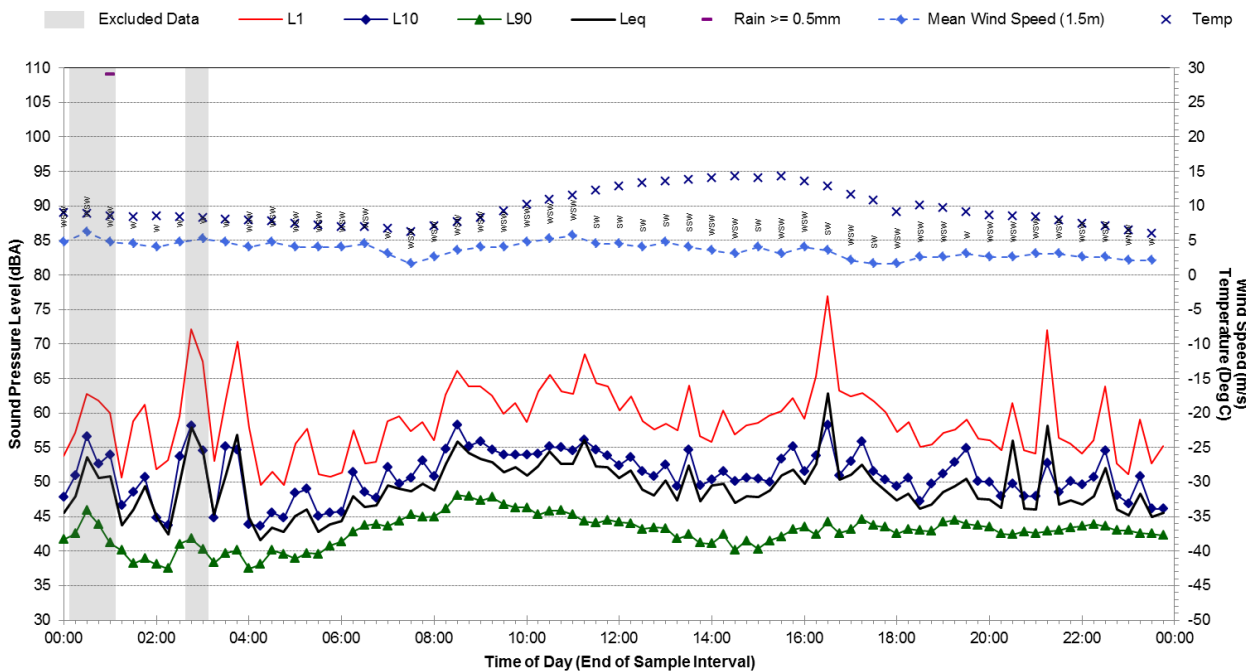
Statistical Ambient Noise Levels

B.11 - Friday, 24 June 2016



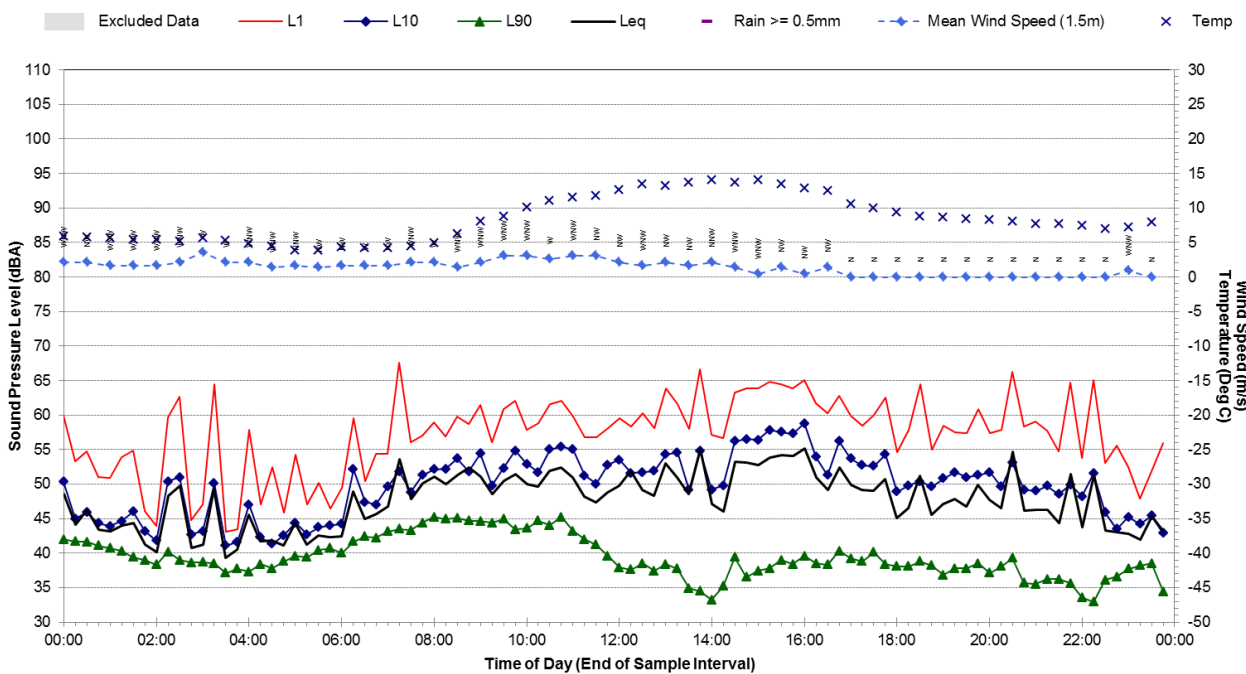
Statistical Ambient Noise Levels

B.11 - Saturday, 25 June 2016



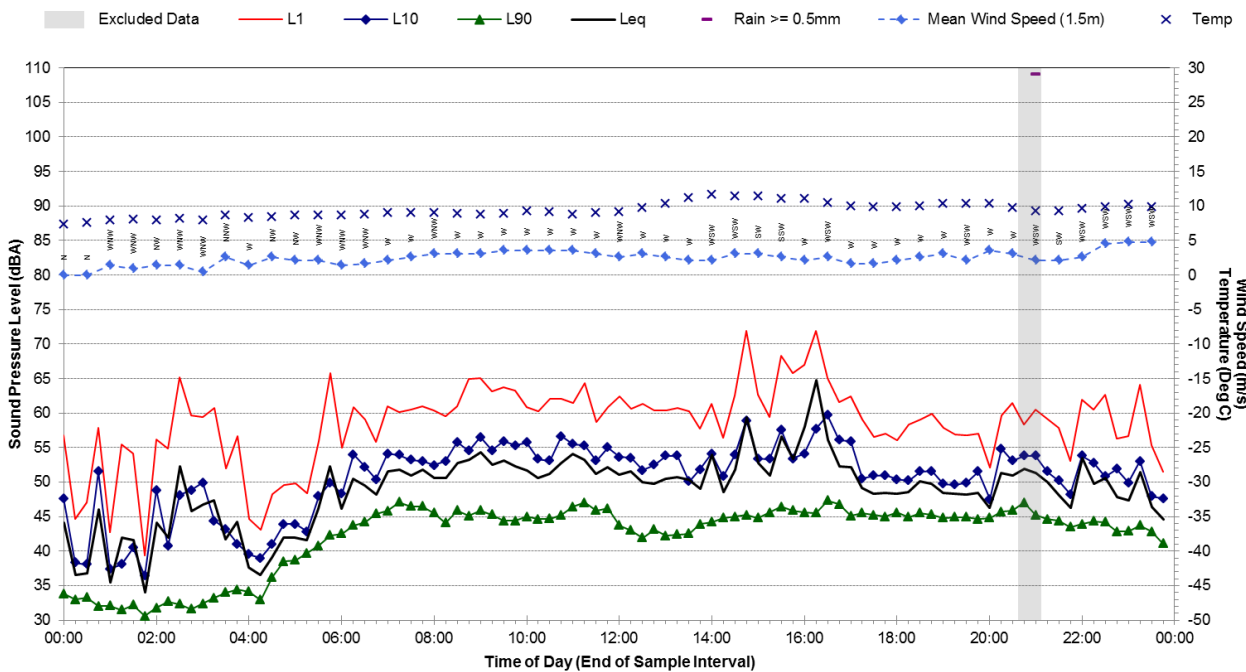
Statistical Ambient Noise Levels

B.11 - Sunday, 26 June 2016



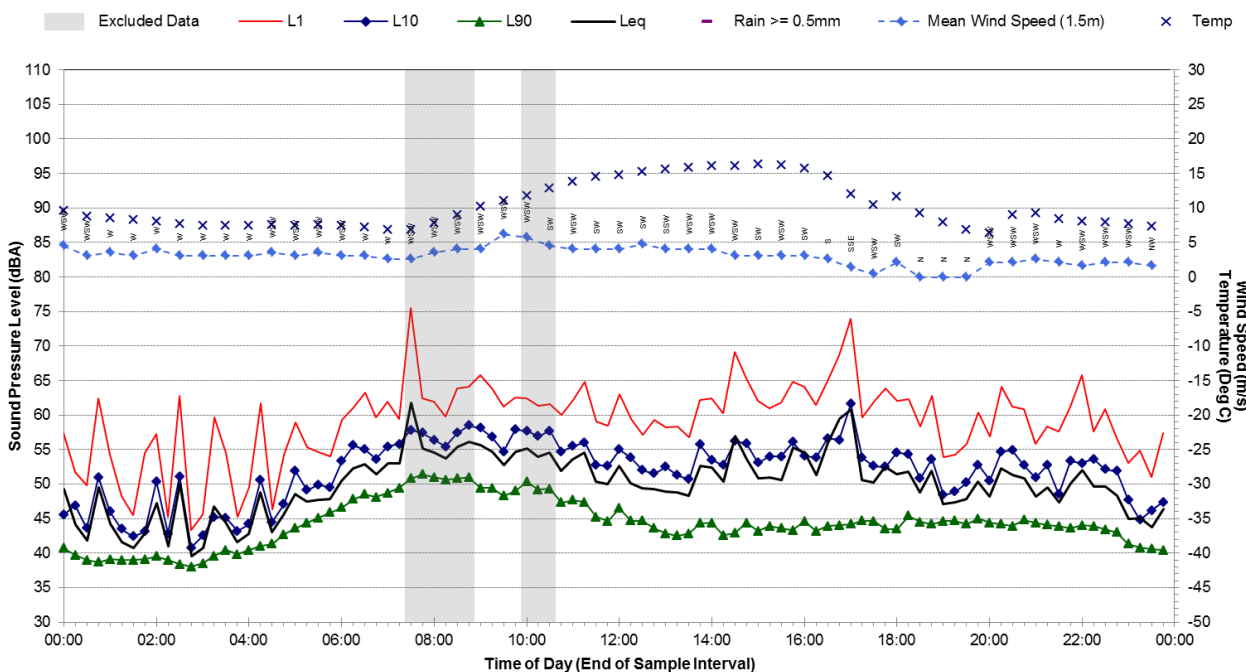
Statistical Ambient Noise Levels

B.11 - Monday, 27 June 2016



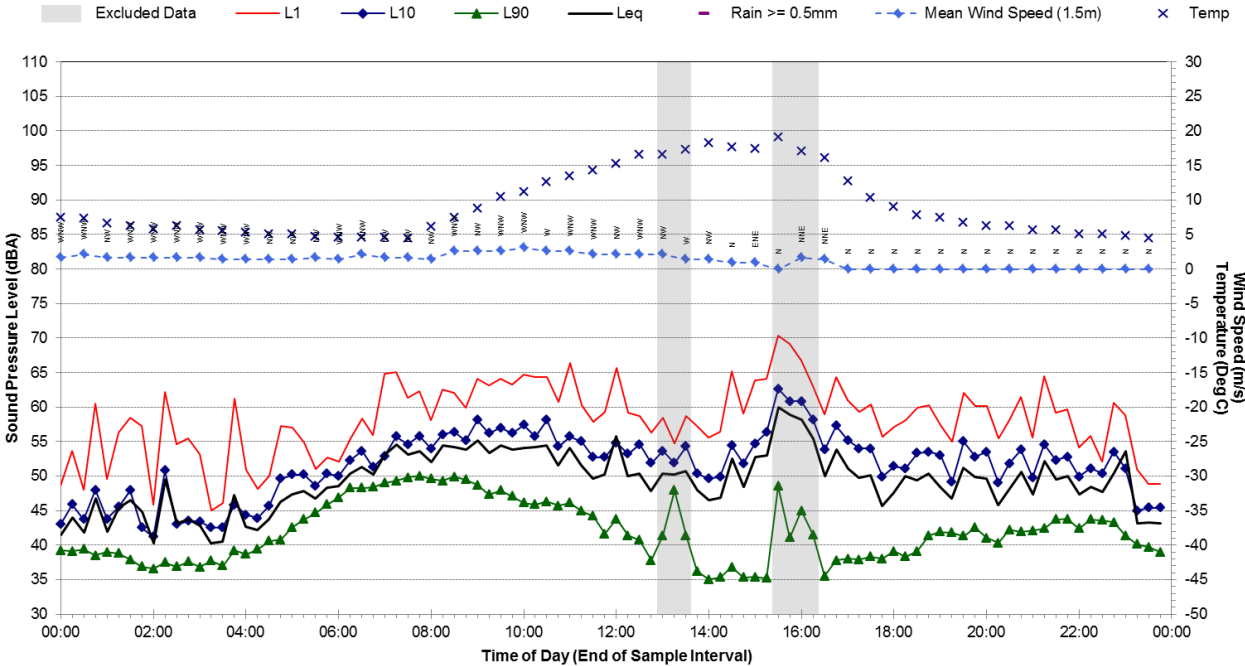
Statistical Ambient Noise Levels

B.11 - Tuesday, 28 June 2016



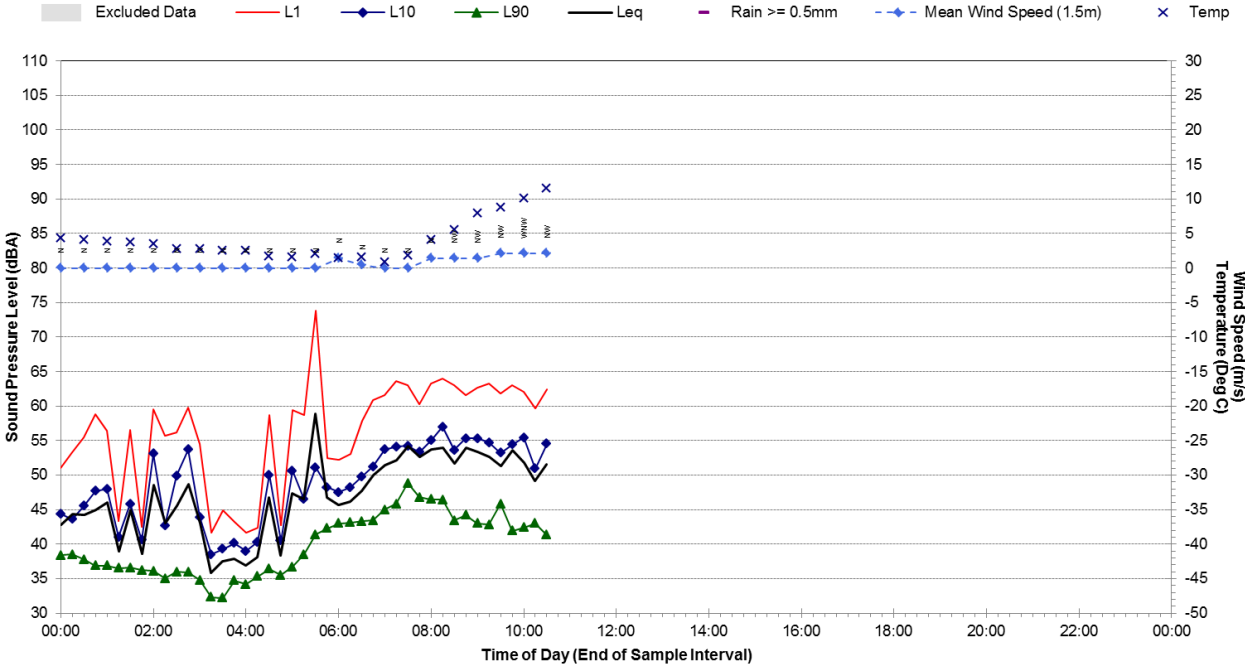
Statistical Ambient Noise Levels

B.11 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.11 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.08

Noise Monitoring Location:	B.08
Noise Monitoring Address:	23 Tincombe Street, Canterbury 2193

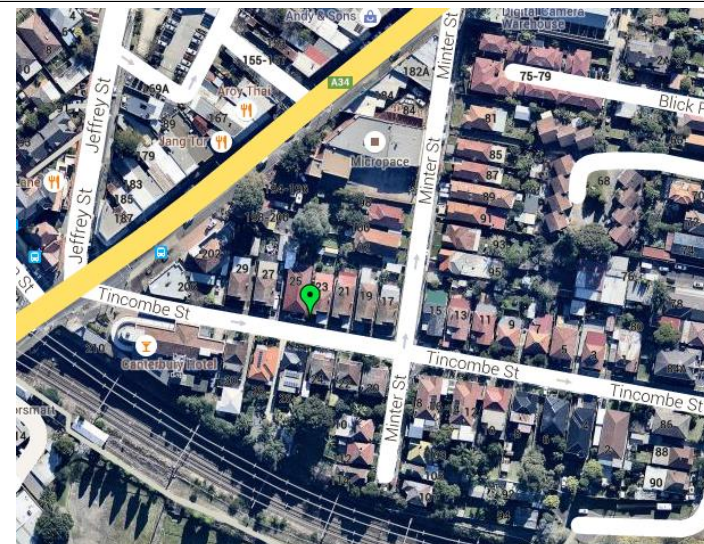
Logger Device Type: ARL-EL316

Logger Serial No: 16-203-528

Ambient noise logger deployed at the south of the residential address 23 Tincombe Street, Hurlstone Park. Logger located just inside the property and beside the front fence. Logger line of sight south over Tincombe Street.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by distant construction noise, road traffic noise (mostly from Canterbury Road) and aircraft noise. LAeq noise levels at this location were influenced by neighbourhood noise (dog barking, birds, pedestrian voices etc) and rail noise due to the property lying approximately 65m north of the nearest Bankstown Line track.

Map of Noise Monitoring Location



Ambient Noise Logging Results – INP Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	43	56	55	66
Evening	43	53	53	64
Night-time	36	49	47	56

Attended Noise Measurement Results

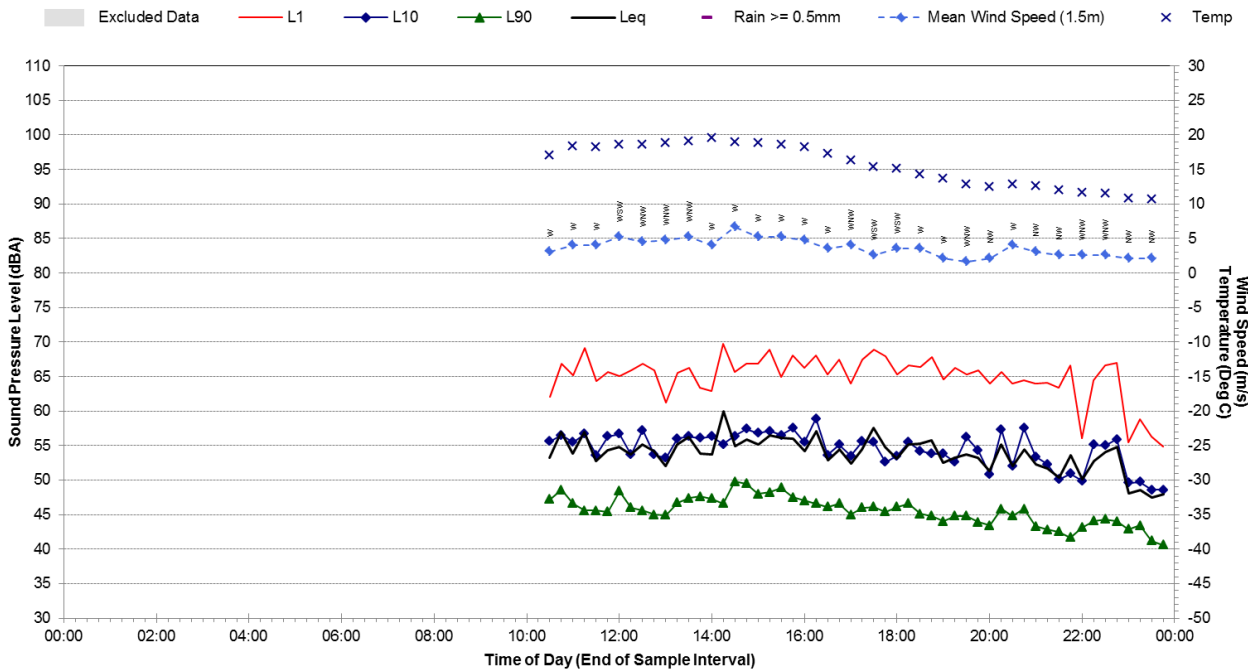
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
22/06/2016	10:10	48	54	70

Photo of Noise Monitoring Location



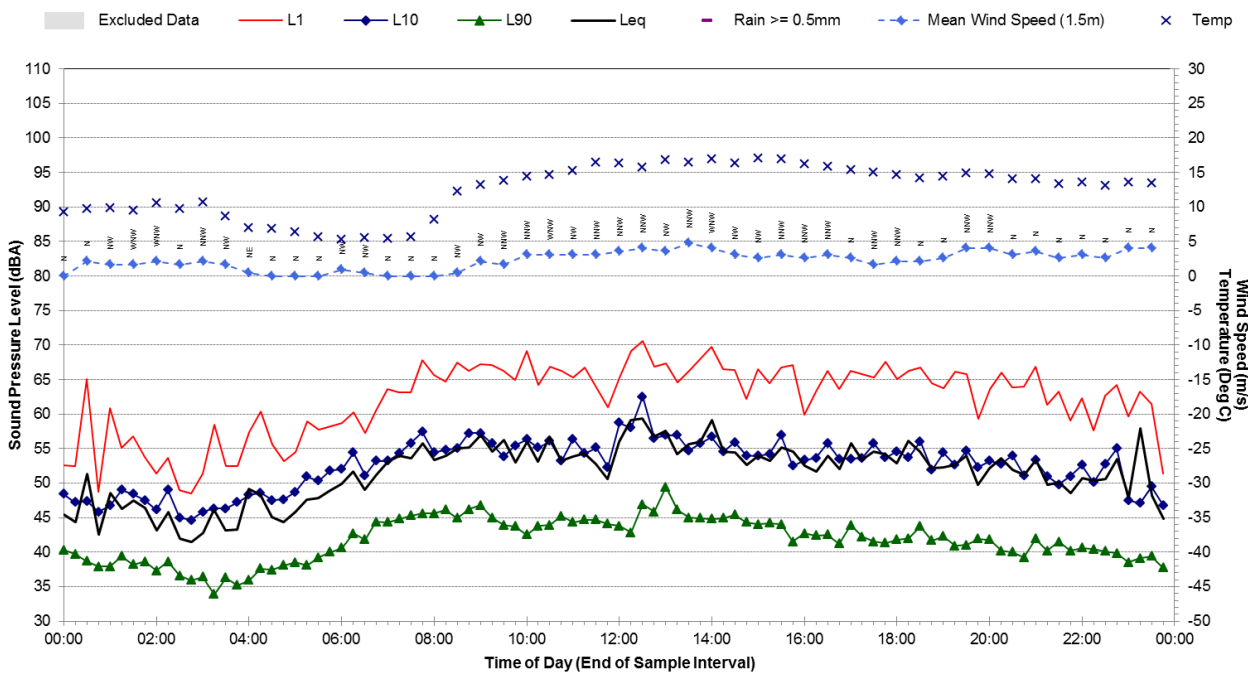
Statistical Ambient Noise Levels

B.12 - Wednesday, 22 June 2016



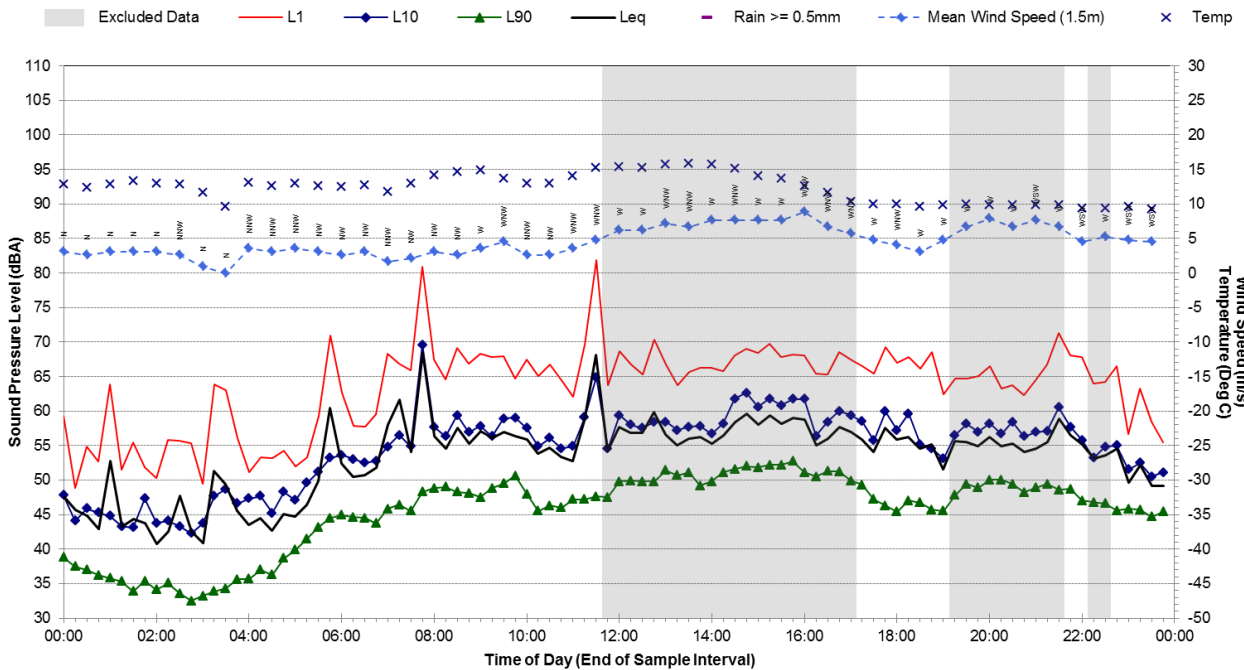
Statistical Ambient Noise Levels

B.12 - Thursday, 23 June 2016



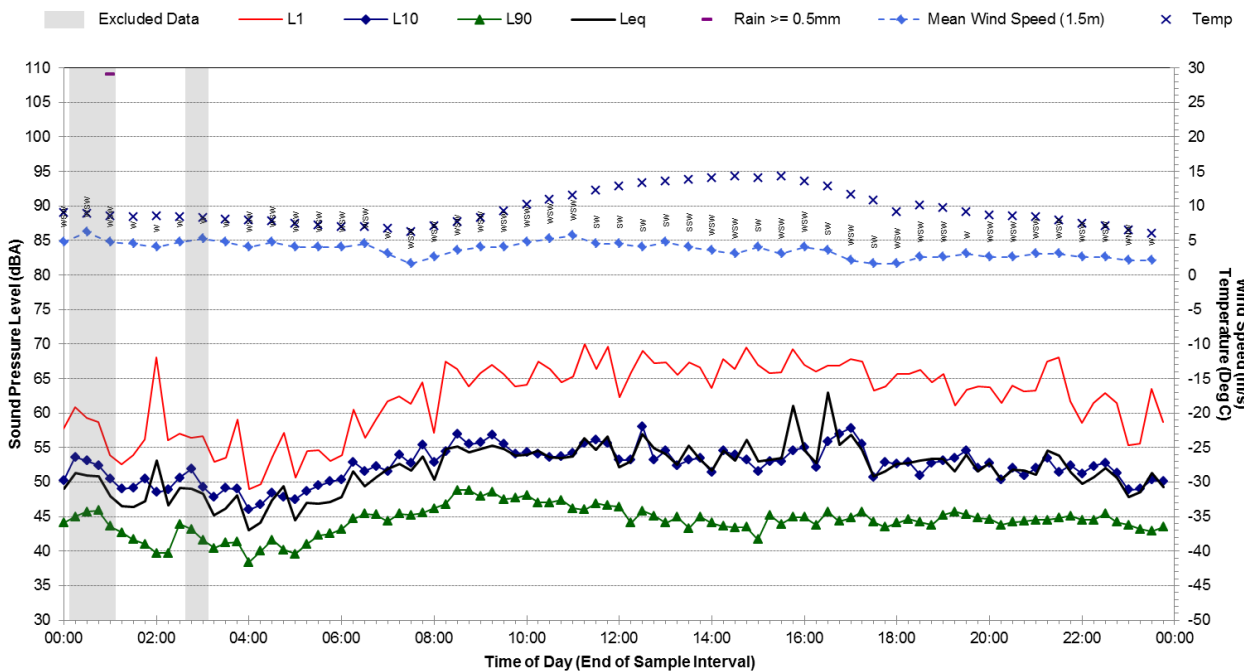
Statistical Ambient Noise Levels

B.12 - Friday, 24 June 2016



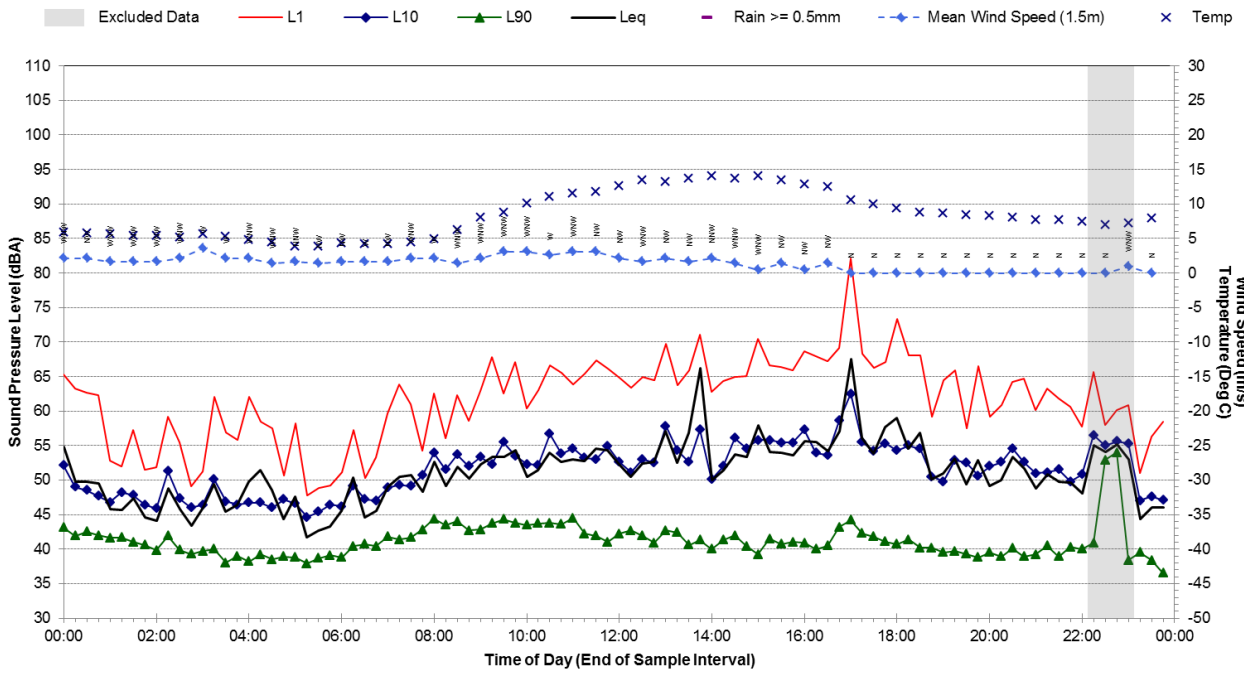
Statistical Ambient Noise Levels

B.12 - Saturday, 25 June 2016



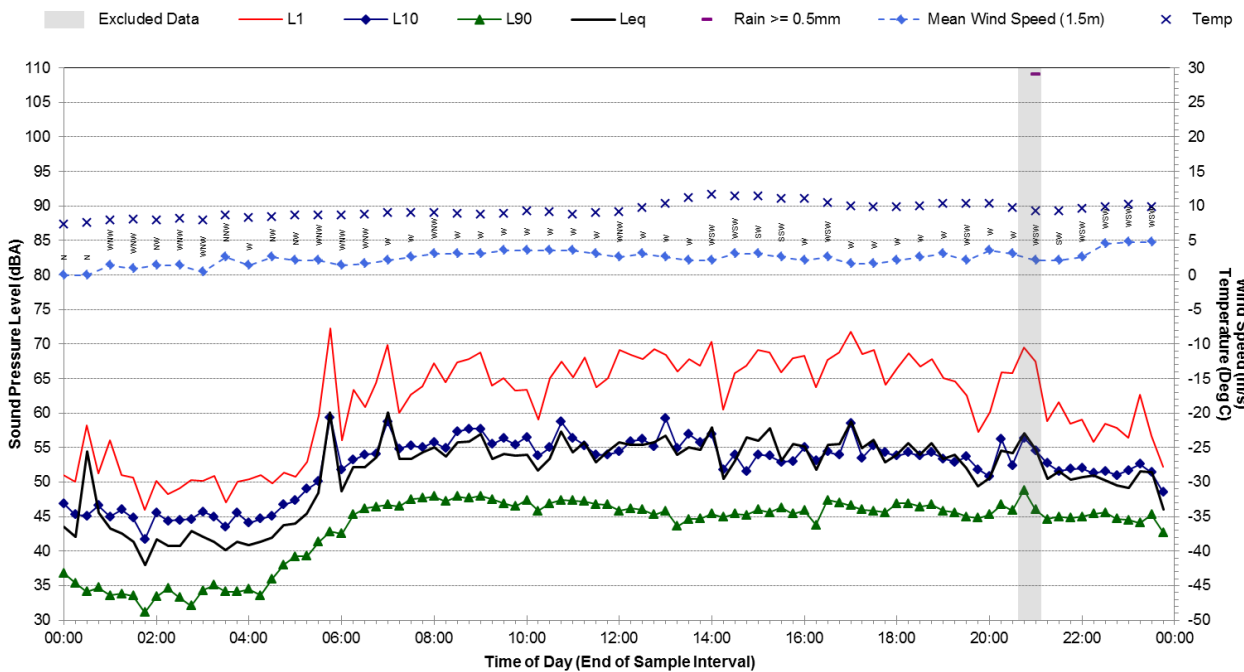
Statistical Ambient Noise Levels

B.12 - Sunday, 26 June 2016



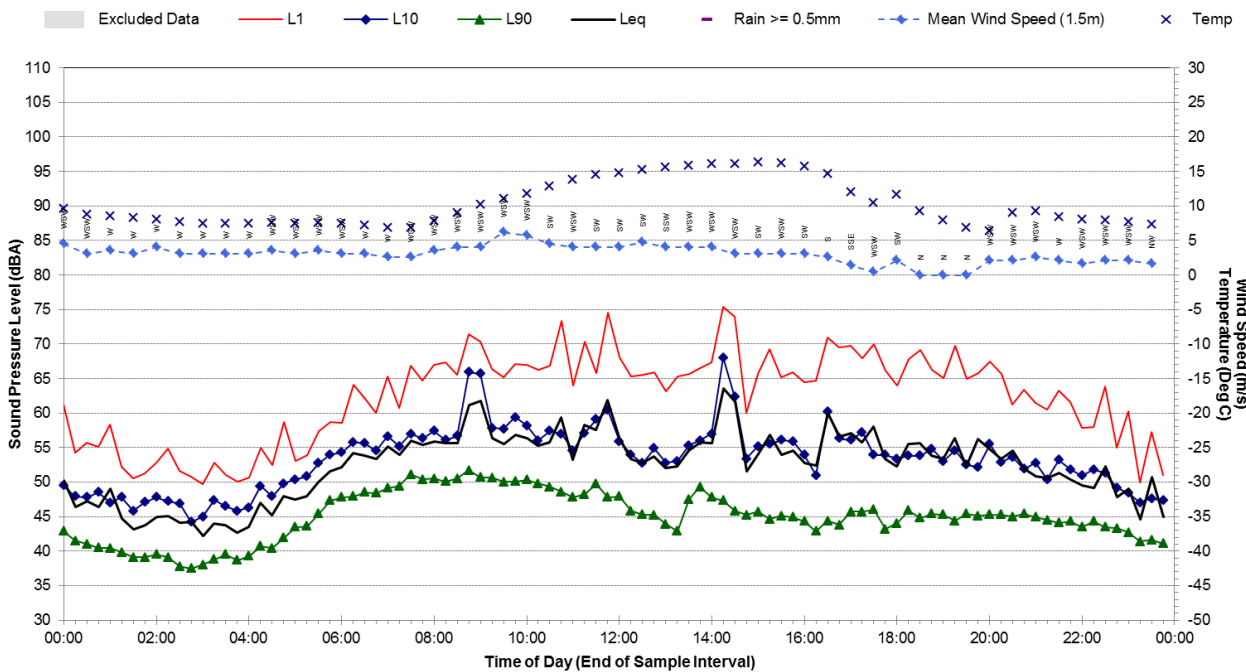
Statistical Ambient Noise Levels

B.12 - Monday, 27 June 2016



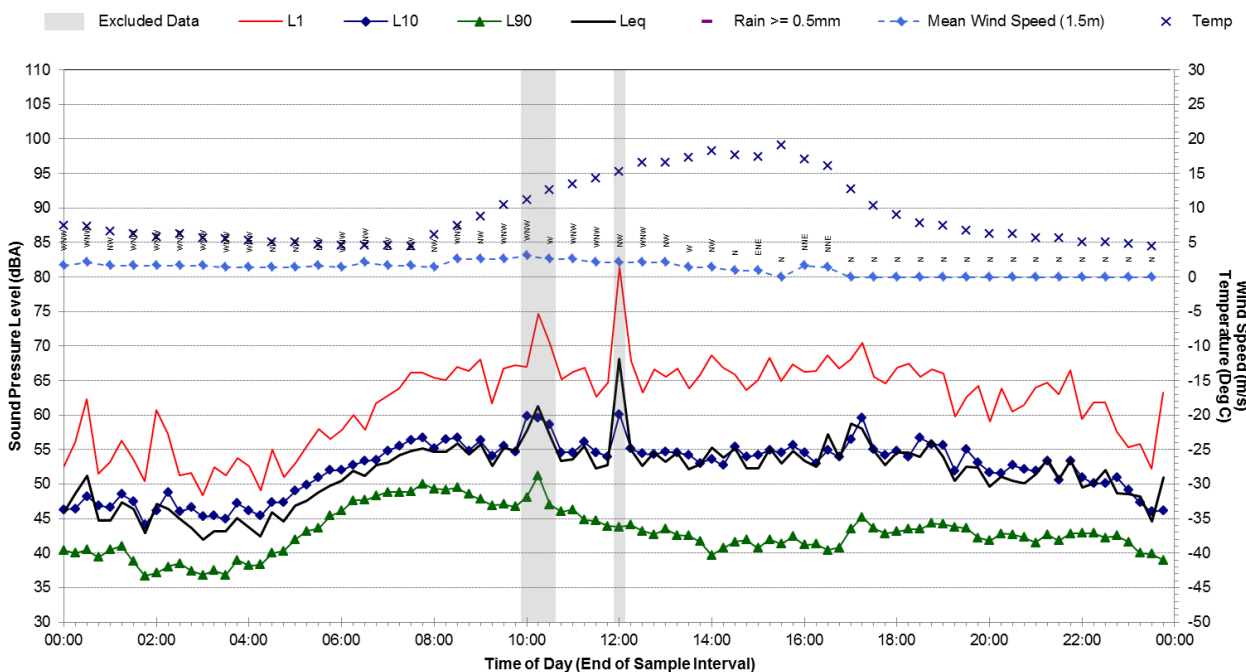
Statistical Ambient Noise Levels

B.12 - Tuesday, 28 June 2016



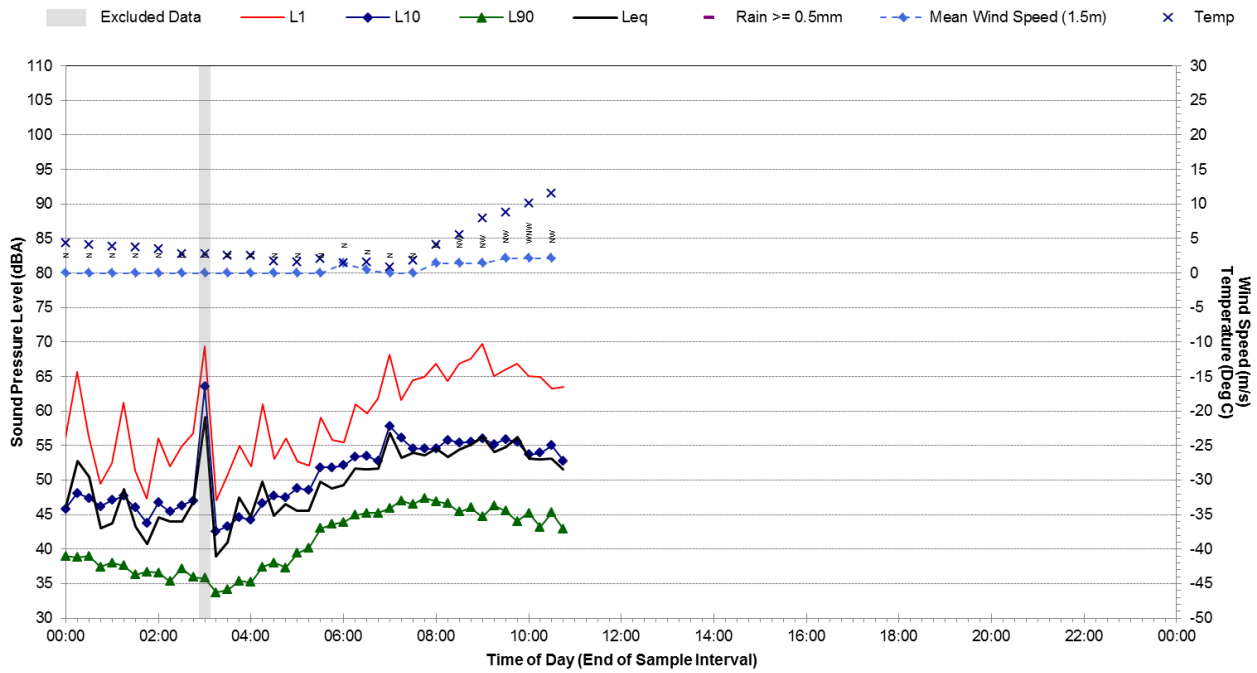
Statistical Ambient Noise Levels

B.12 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.12 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.09

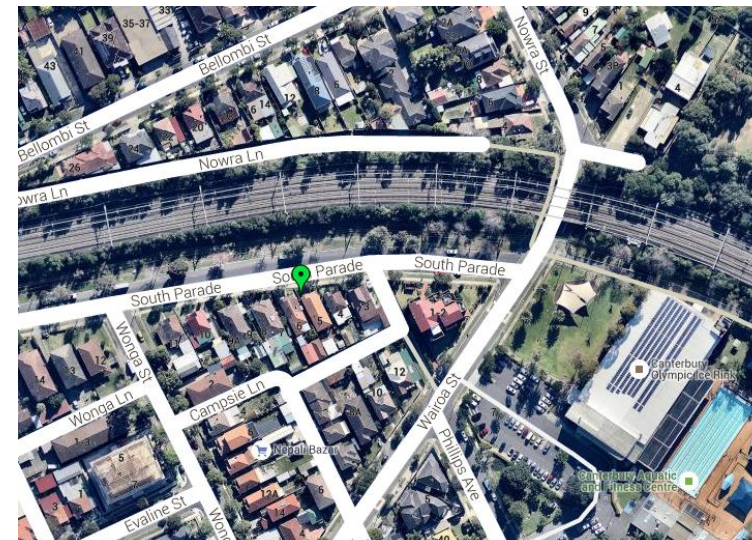
Noise Monitoring Location: B.09 **Map of Noise Monitoring Location**

Noise Monitoring Address: 5 South Parade, Canterbury 2193

Logger Device Type: Bruel & Kjaer 2250 Light
 Logger Serial No: 3004638

Ambient noise logger deployed at the north of the residential address 5 South Parade, Canterbury. Logger located inside the property and beside the front facade. Logger line of sight north over South Parade and the Bankstown Line corridor.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by distant road traffic noise and wildlife noise (insects, frogs, birds etc). LAeq noise levels at this location were influenced by neighbourhood noise (dog barking, pedestrian voices etc), aircraft noise and rail noise due to the property lying approximately 45m south of the nearest Bankstown Line track.



Ambient Noise Logging Results – INP Defined Time Periods **Photo of Noise Monitoring Location**

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	36	57	59	69
Evening	37	57	58	69
Night-time	32	54	49	67

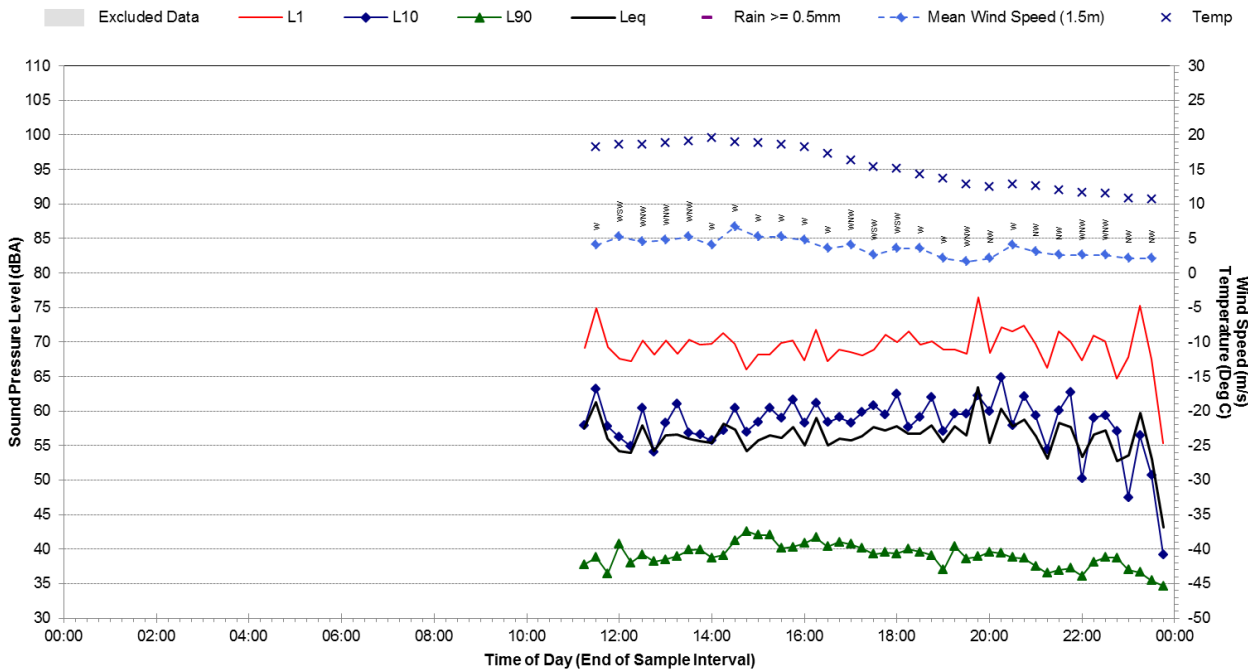
Attended Noise Measurement Results

Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
22/06/2016	11:07	40	63	86



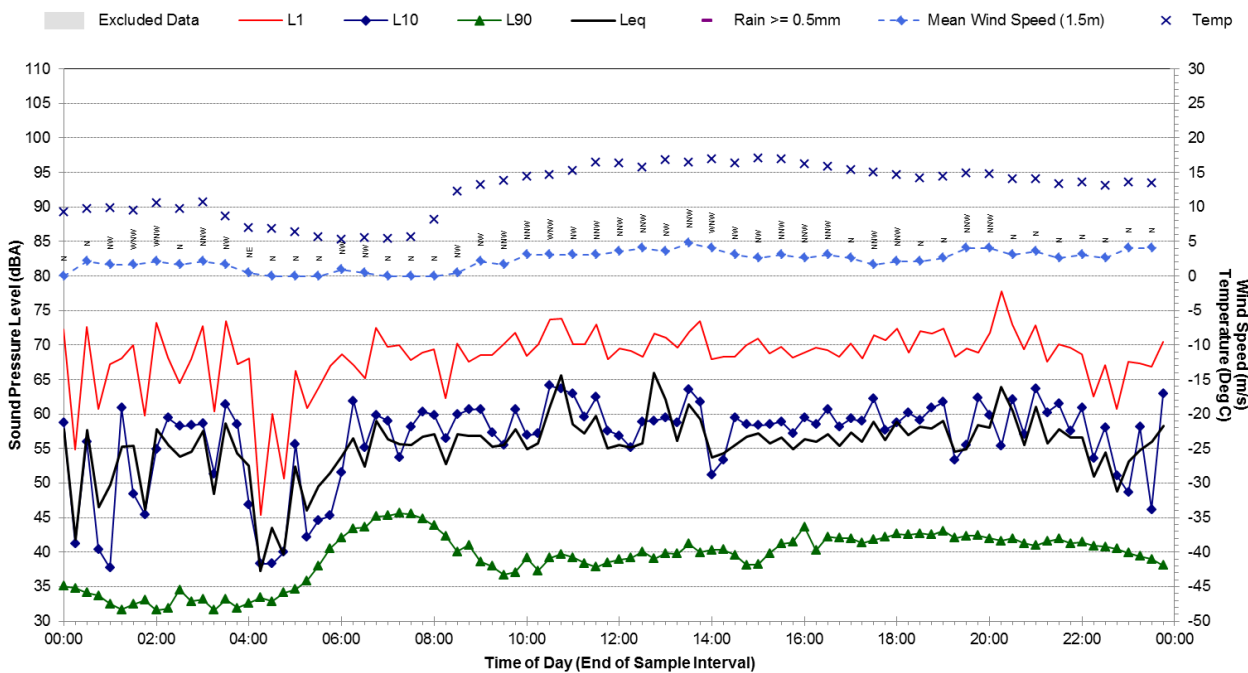
Statistical Ambient Noise Levels

B.13 - Wednesday, 22 June 2016



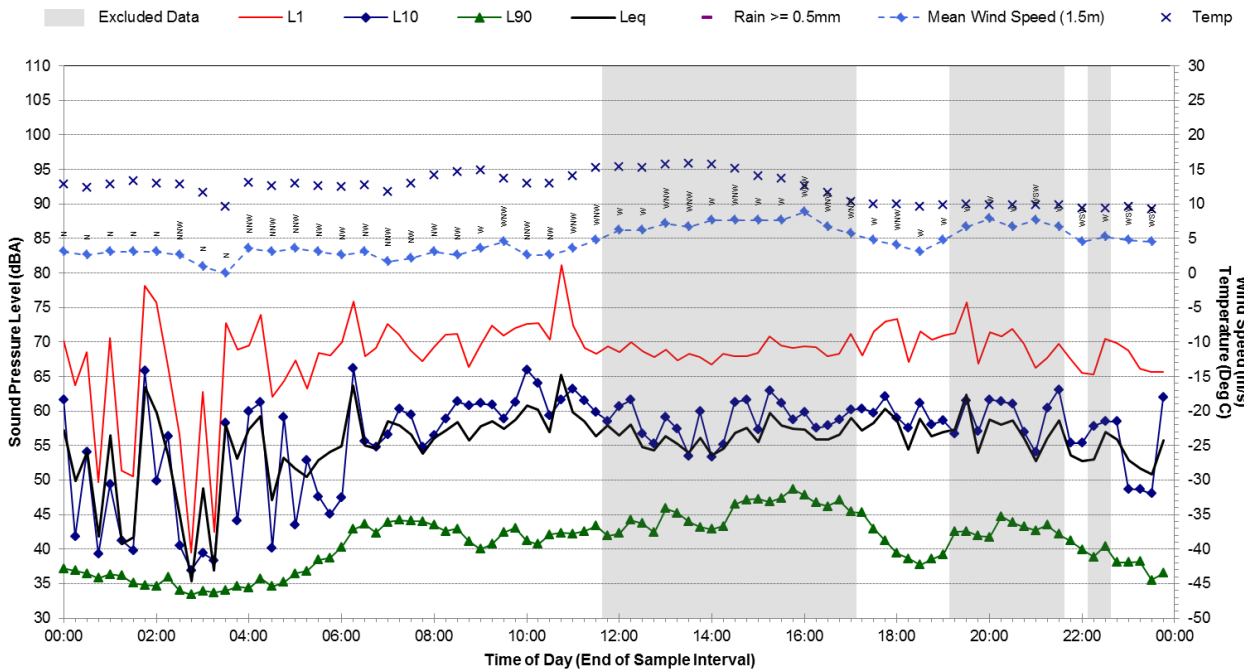
Statistical Ambient Noise Levels

B.13 - Thursday, 23 June 2016



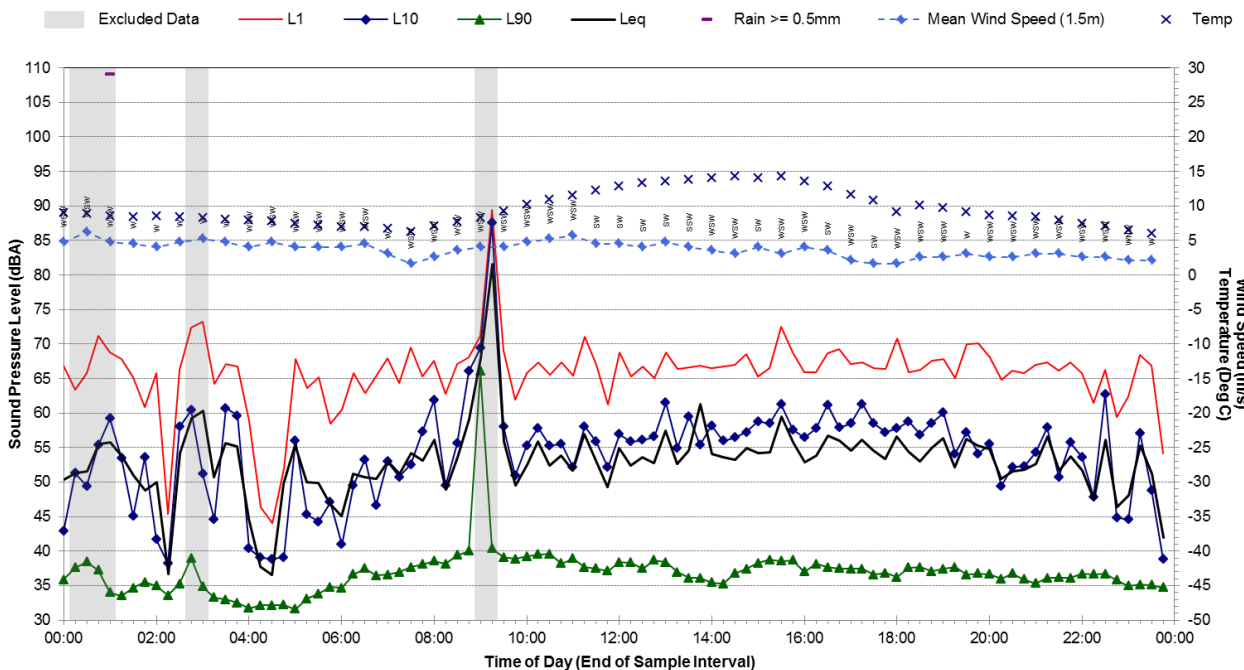
Statistical Ambient Noise Levels

B.13 - Friday, 24 June 2016



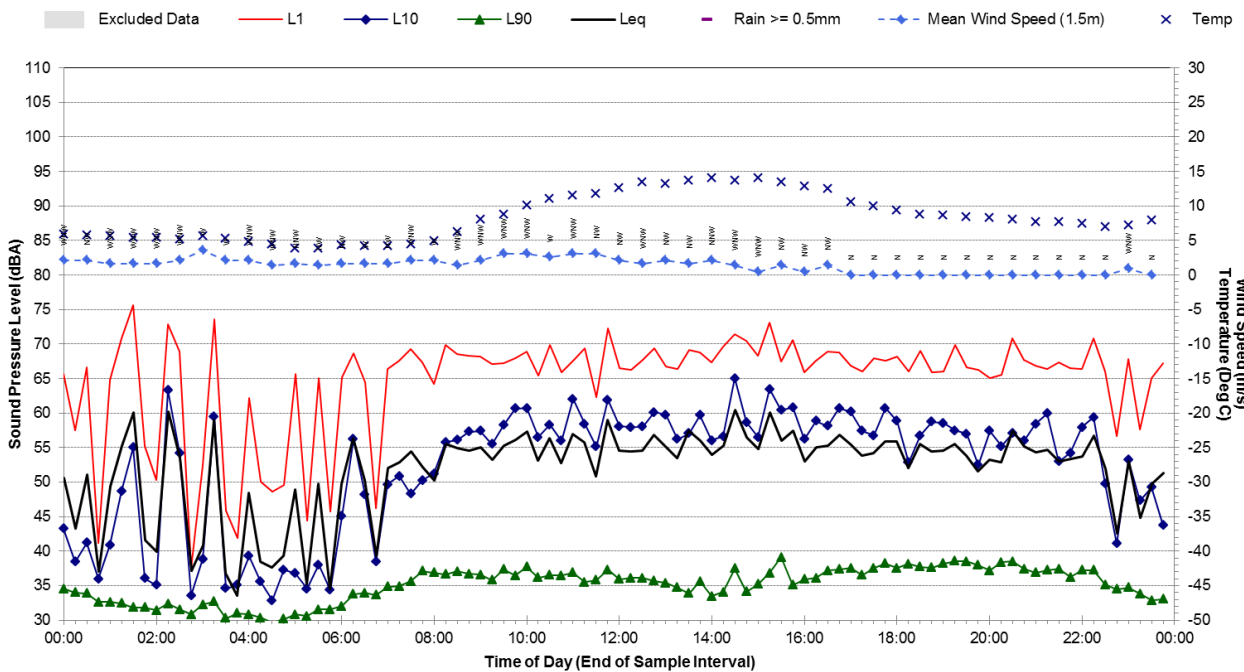
Statistical Ambient Noise Levels

B.13 - Saturday, 25 June 2016



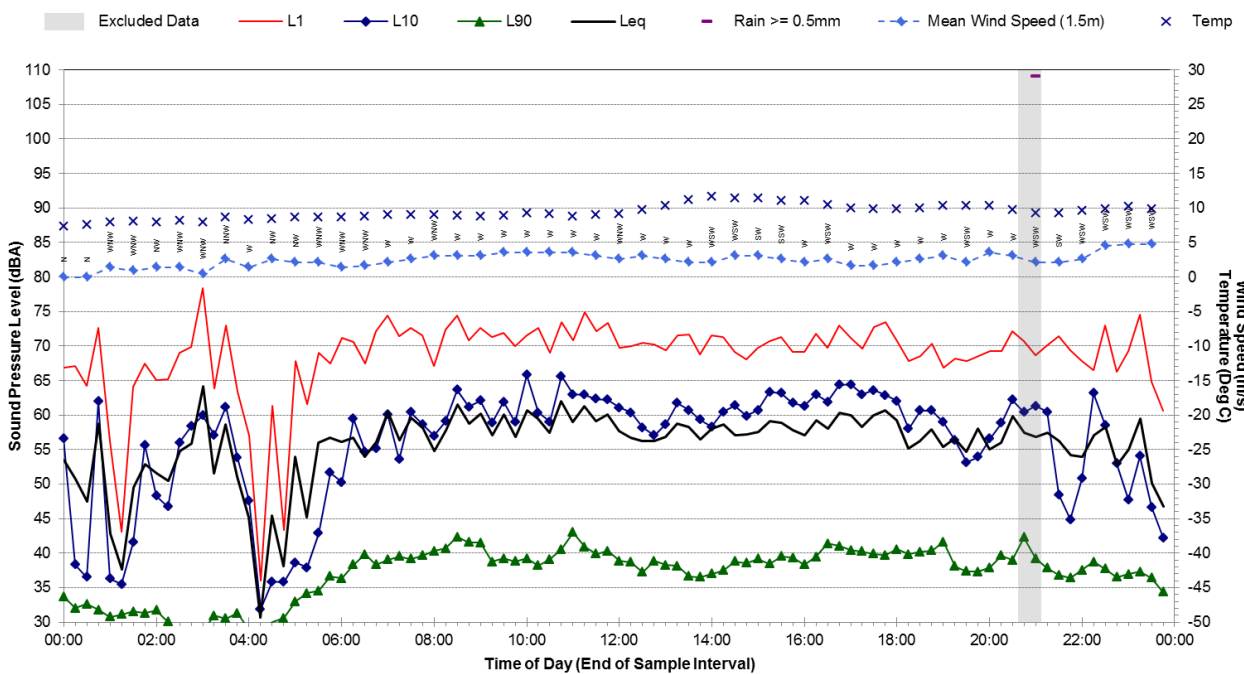
Statistical Ambient Noise Levels

B.13 - Sunday, 26 June 2016



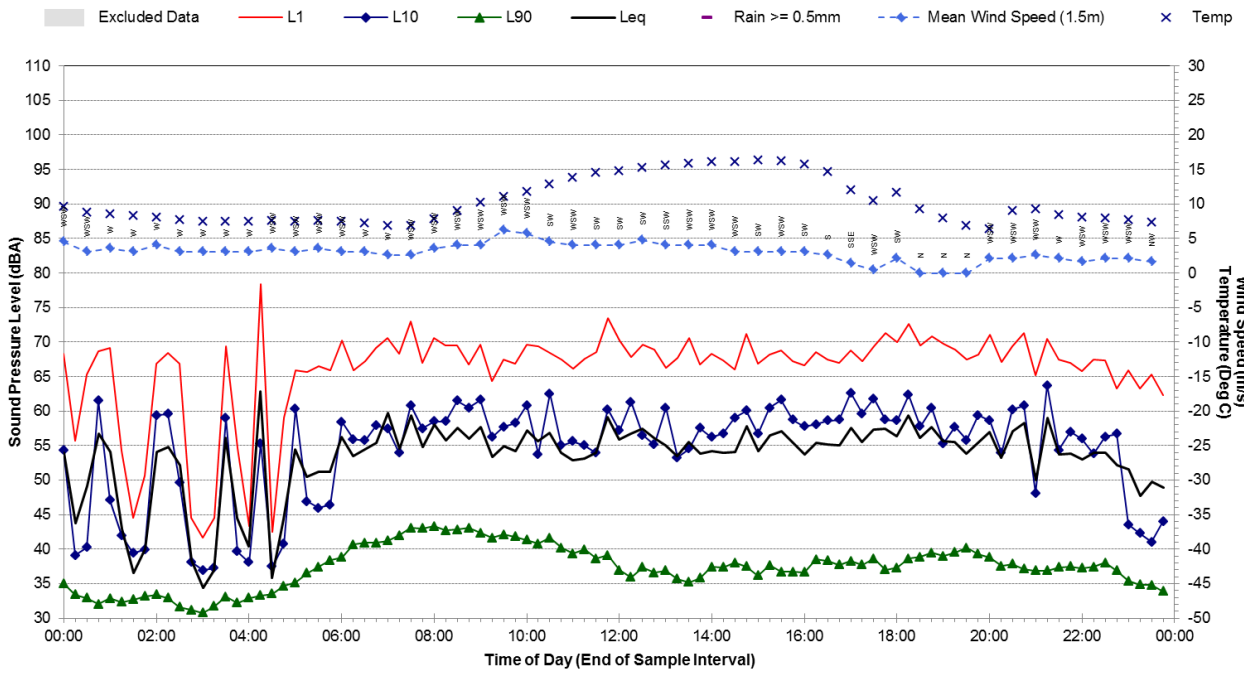
Statistical Ambient Noise Levels

B.13 - Monday, 27 June 2016



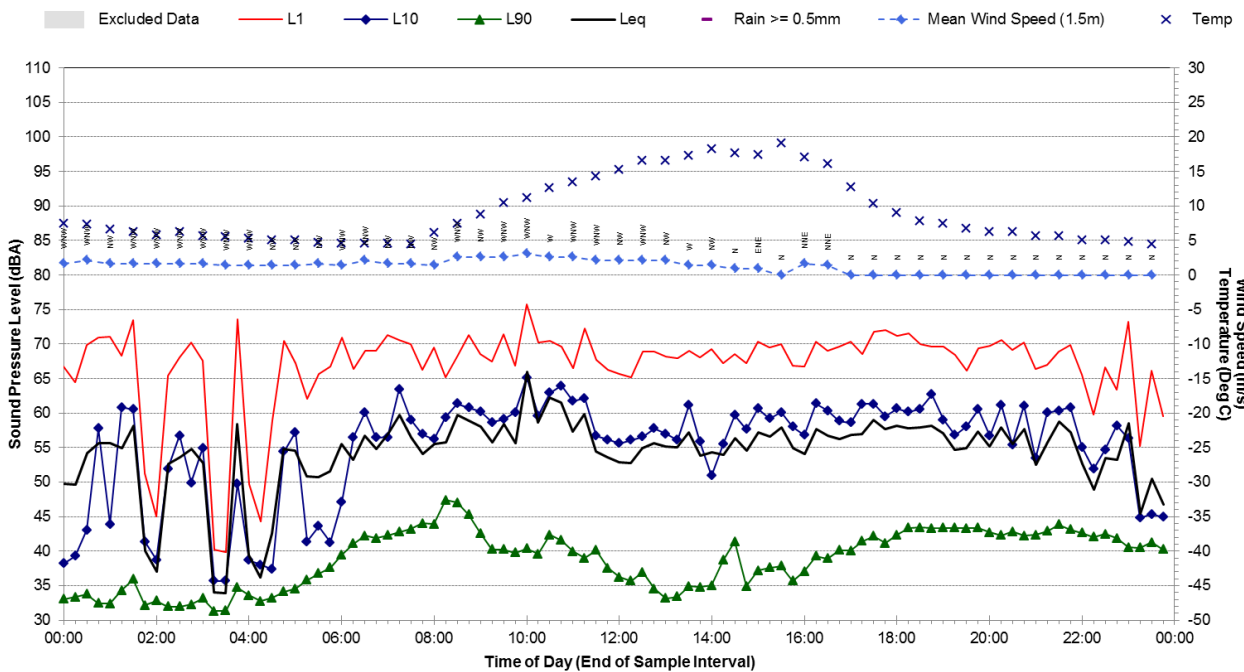
Statistical Ambient Noise Levels

B.13 - Tuesday, 28 June 2016



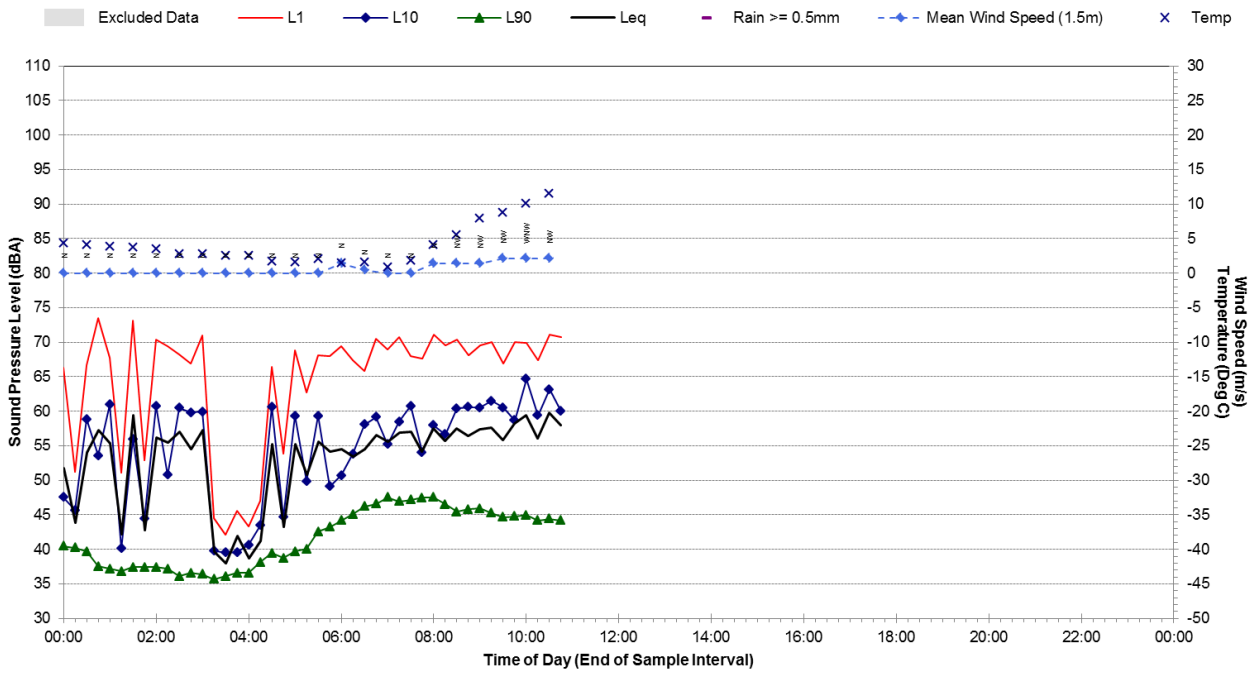
Statistical Ambient Noise Levels

B.13 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.13 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.10

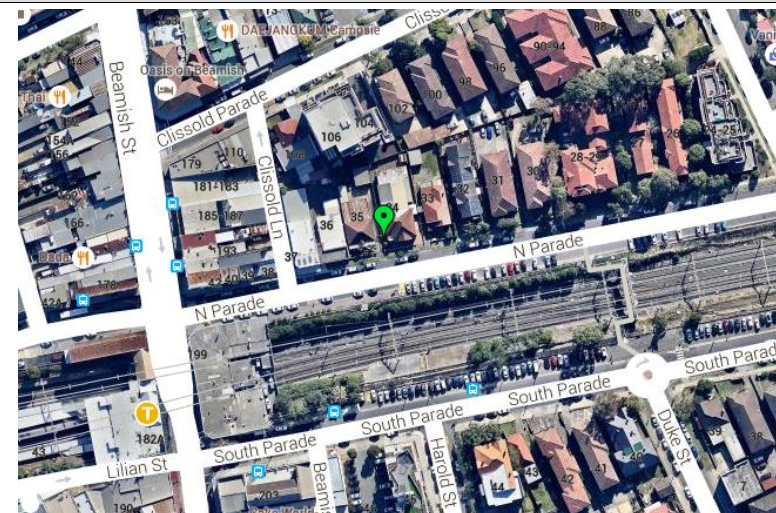
Noise Monitoring Location: B.10
Noise Monitoring Address: 34 North Parade, Campsie 2194

Logger Device Type: Svantek 957
 Logger Serial No: 20667

Ambient noise logger deployed at the south of the residential address 34 North Parade, Campsie. Logger located inside the front garden of the property and beside the neighbour's driveway on the western side. A270 degrees line of sight south west over North Parade and the Bankstown Line corridor.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by both distant and local road traffic noise and aircraft noise. LAeq noise levels at this location were influenced by neighbourhood noise (pedestrian voices and footsteps etc) and rail noise due to the property lying approximately 30m north of the nearest Bankstown Line track.

Map of Noise Monitoring Location



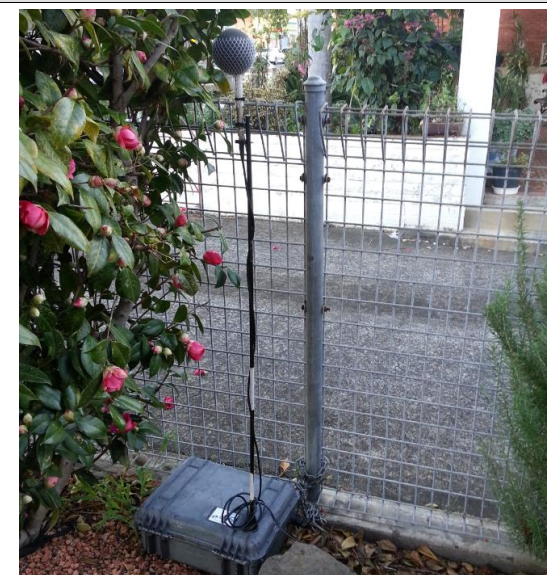
Ambient Noise Logging Results – INP Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	45	55	57	63
Evening	42	55	57	64
Night-time	35	54	53	63

Attended Noise Measurement Results

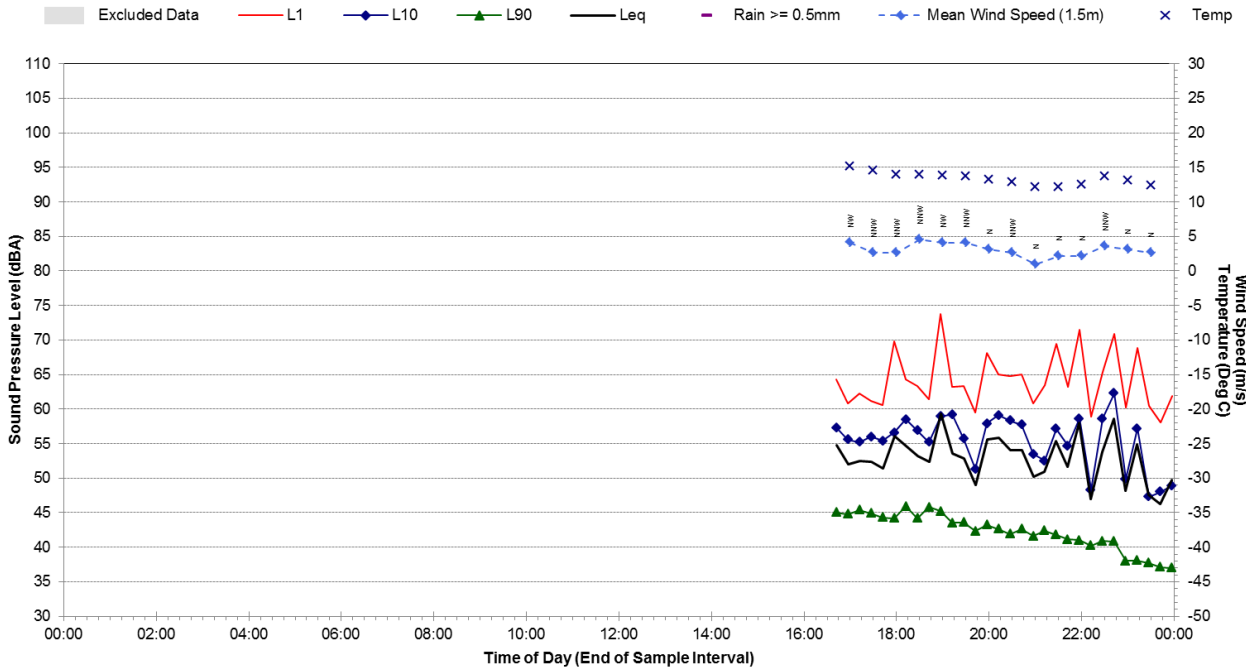
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	16:17:28	47	54	65

Photo of Noise Monitoring Location



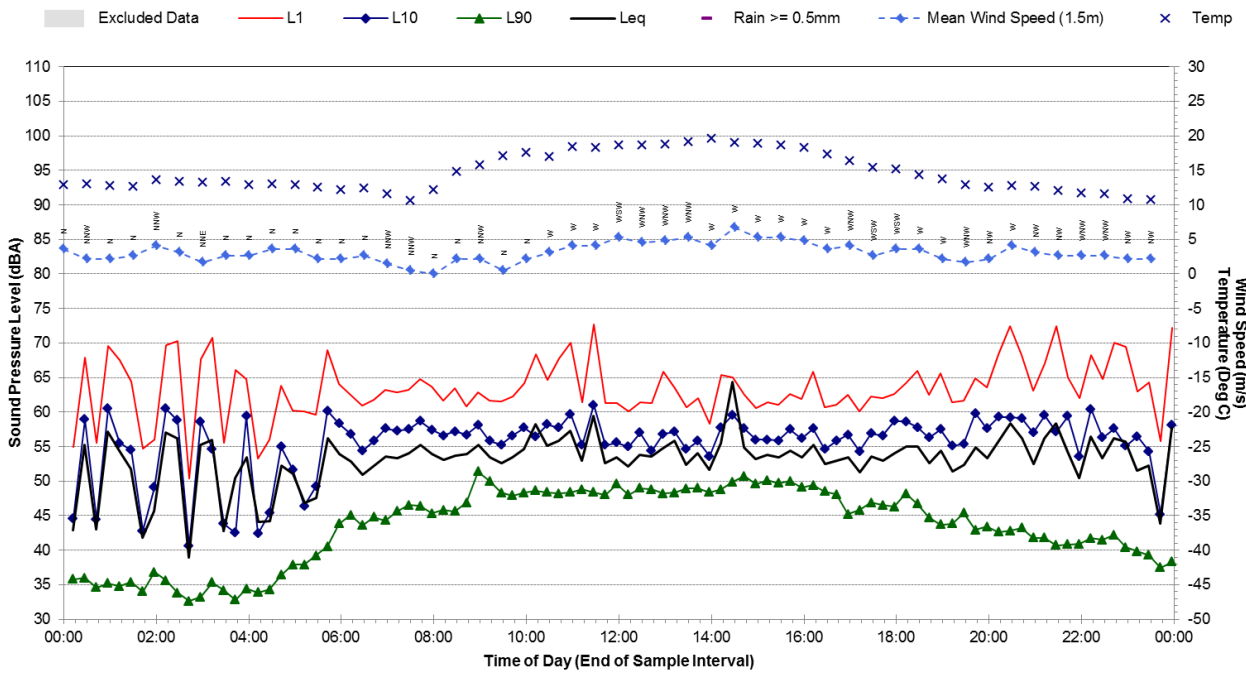
Statistical Ambient Noise Levels

B.14 - Tuesday, 21 June 2016



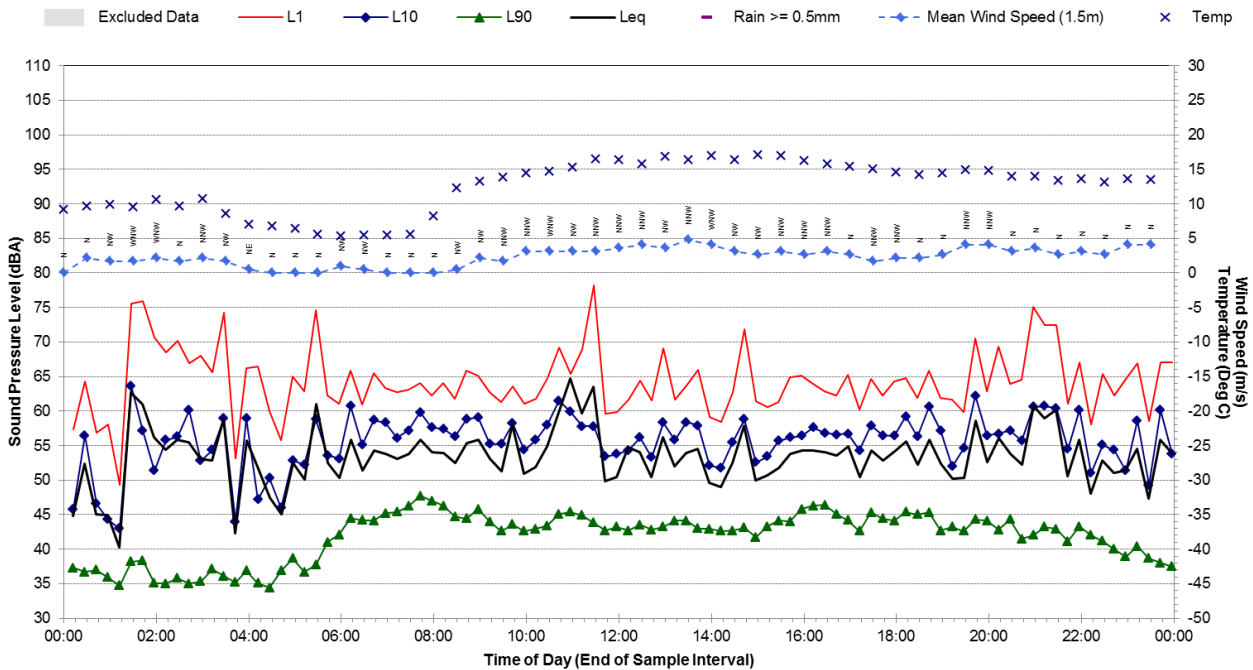
Statistical Ambient Noise Levels

B.14 - Wednesday, 22 June 2016



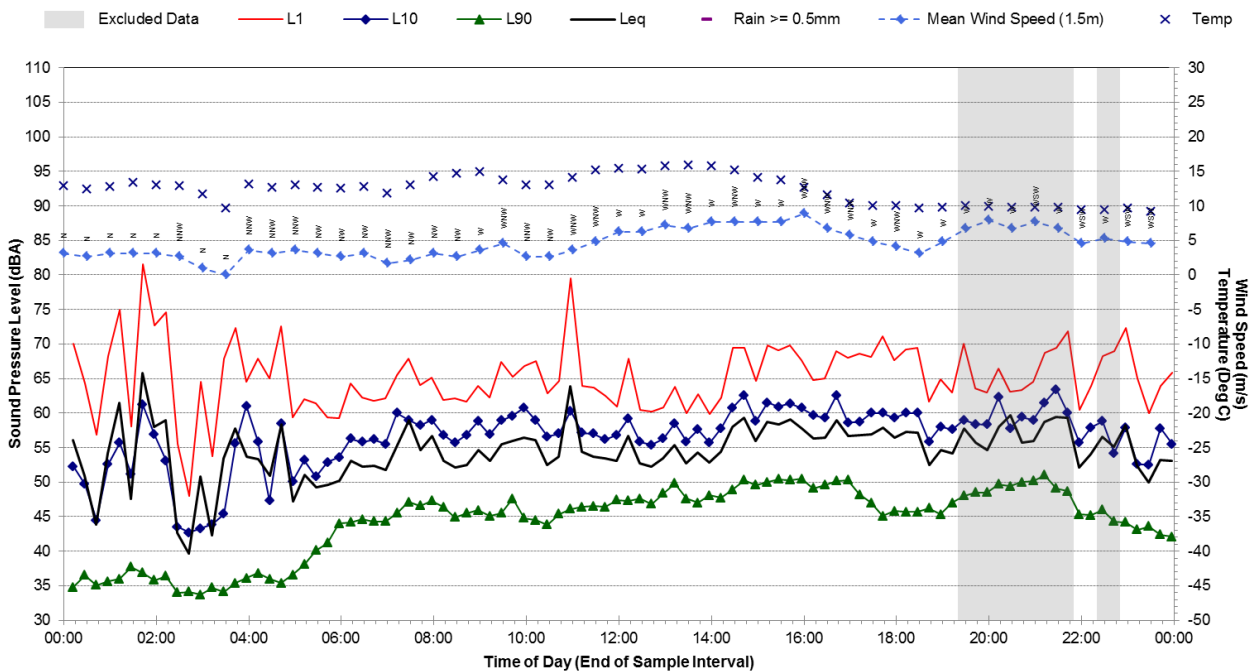
Statistical Ambient Noise Levels

B.14 - Thursday, 23 June 2016



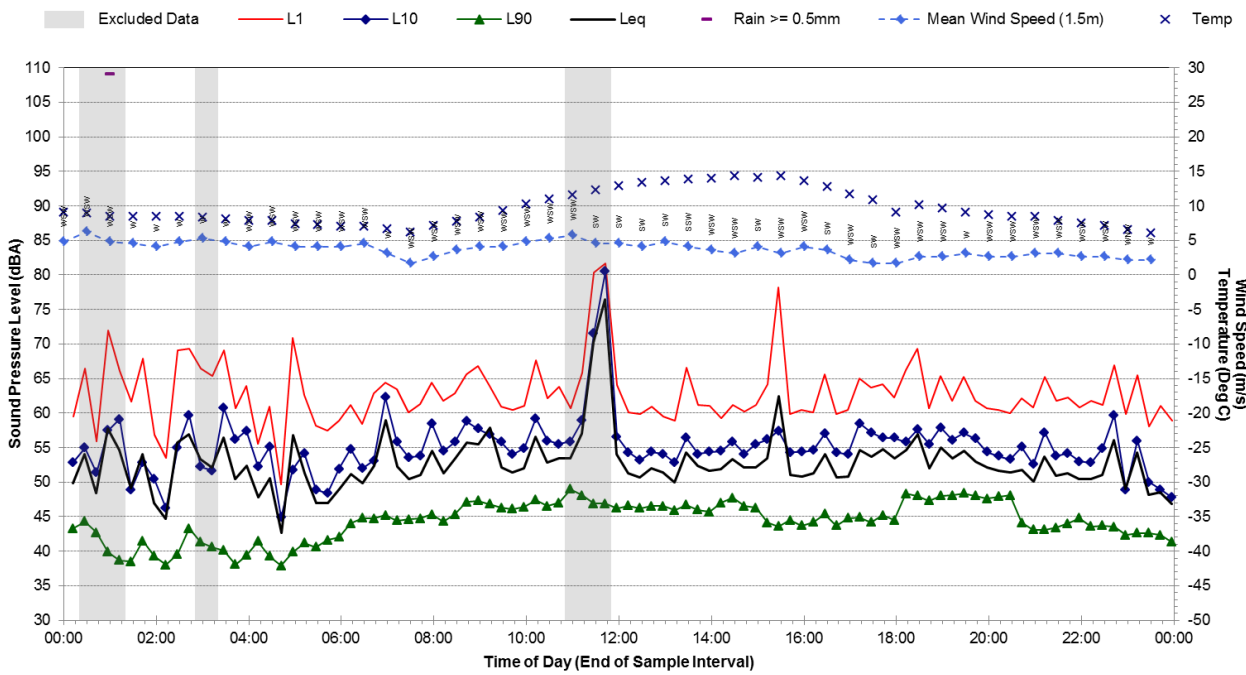
Statistical Ambient Noise Levels

B.14 - Friday, 24 June 2016



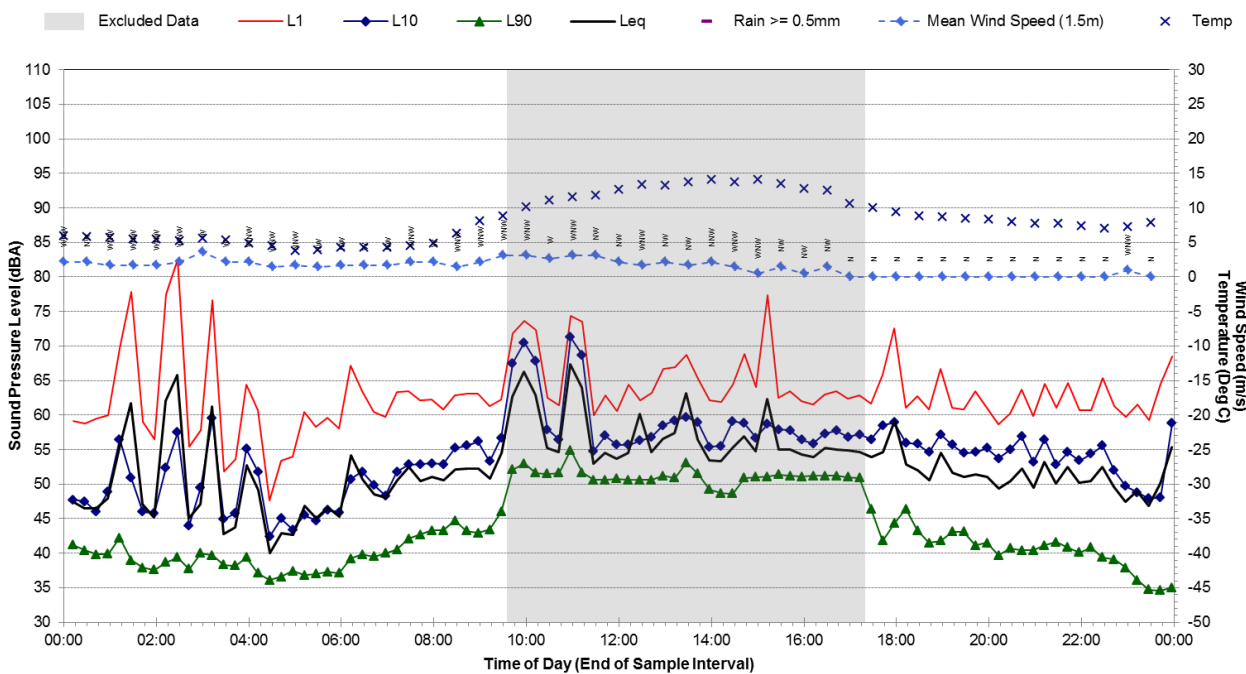
Statistical Ambient Noise Levels

B.14 - Saturday, 25 June 2016



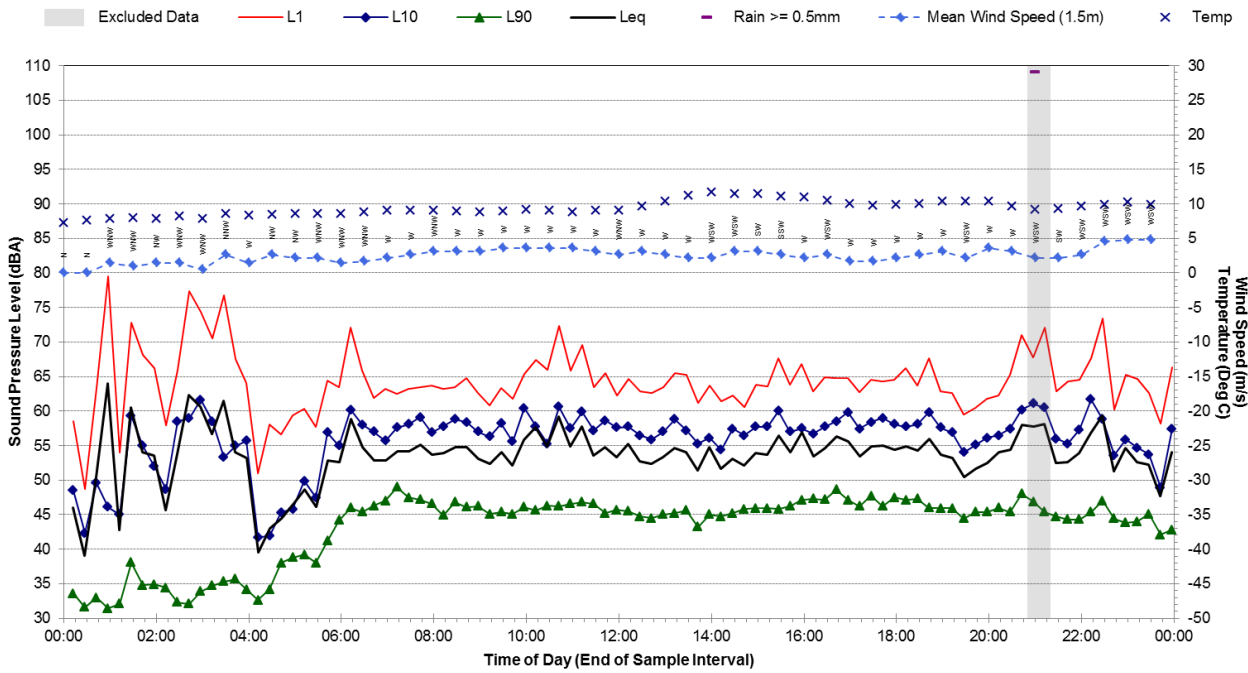
Statistical Ambient Noise Levels

B.14 - Sunday, 26 June 2016



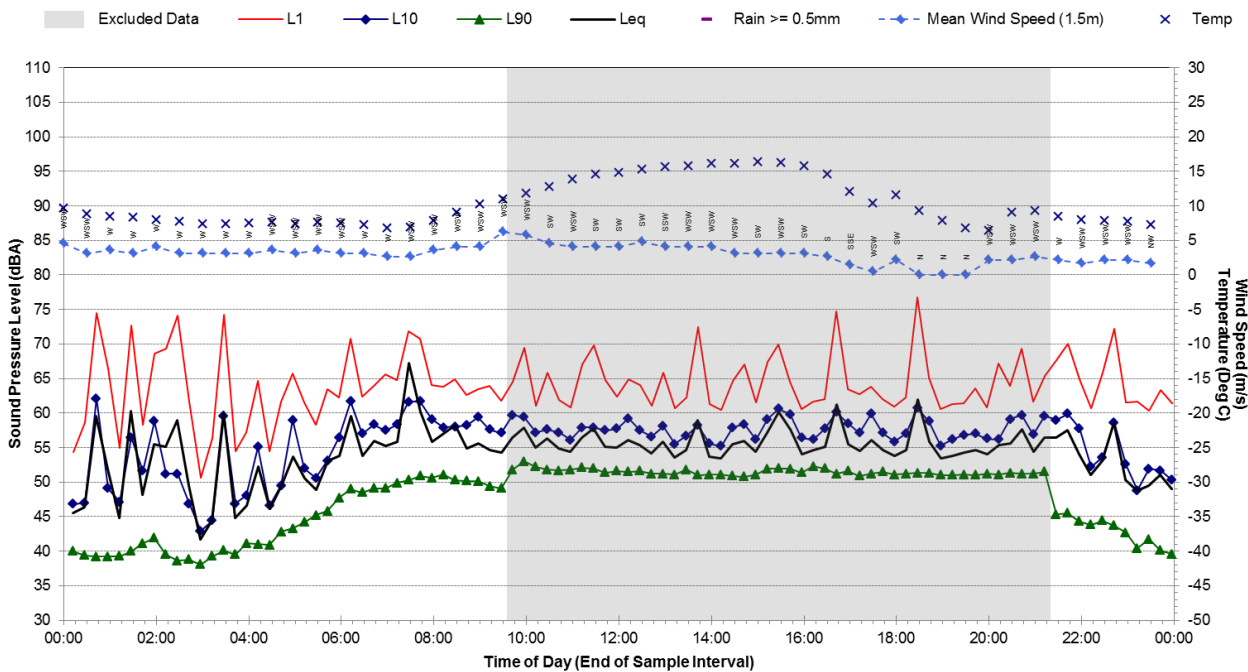
Statistical Ambient Noise Levels

B.14 - Monday, 27 June 2016



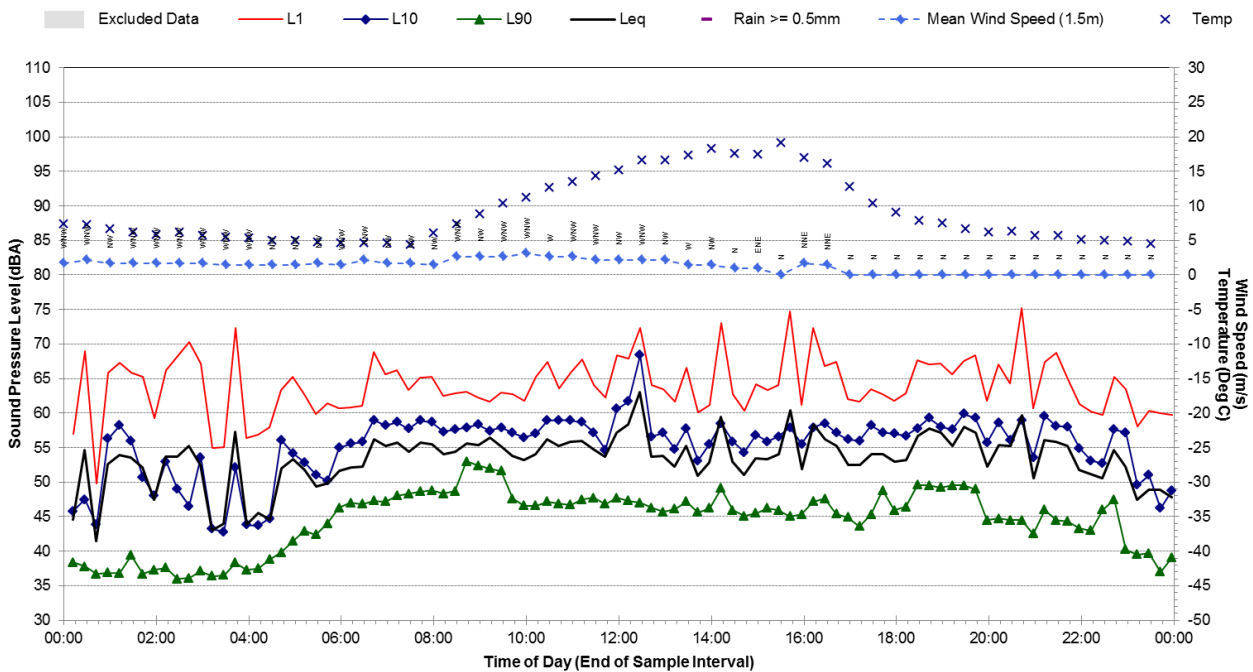
Statistical Ambient Noise Levels

B.14 - Tuesday, 28 June 2016



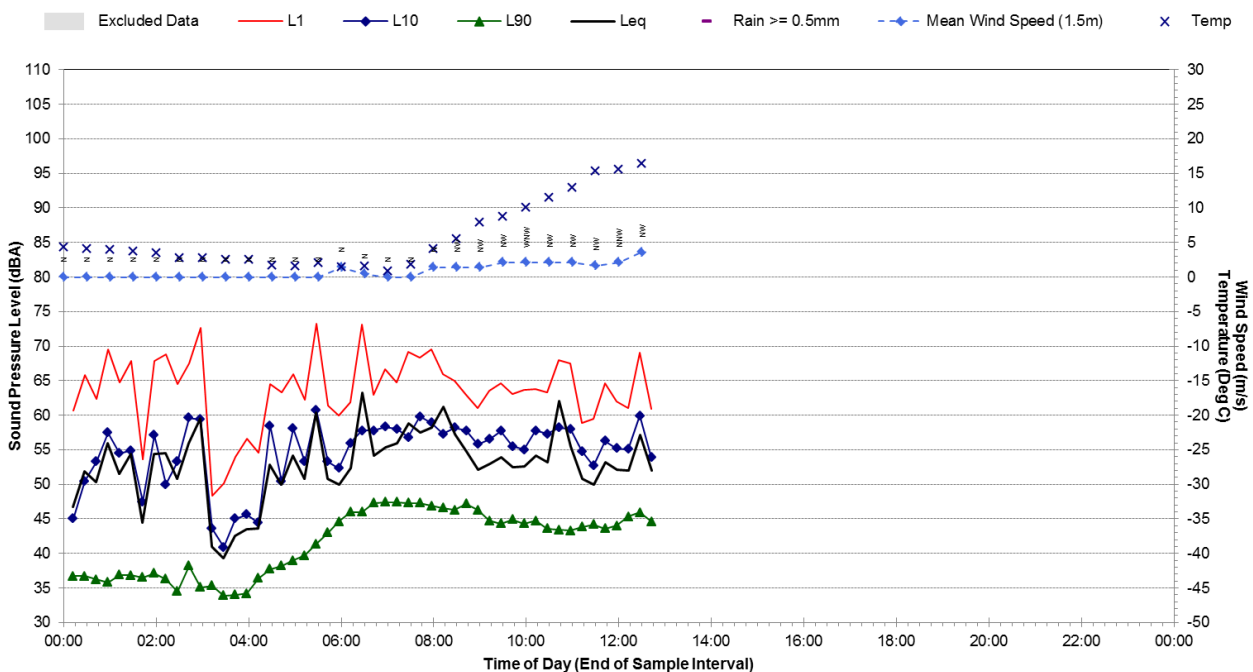
Statistical Ambient Noise Levels

B.14 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.14 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.11

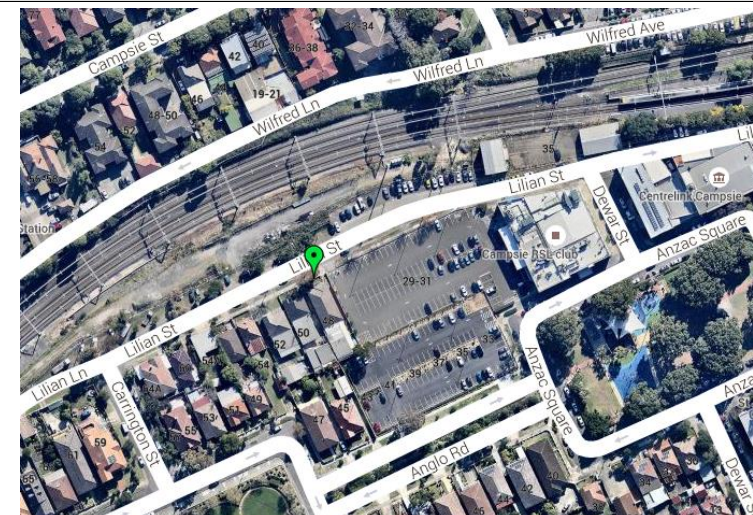
Noise Monitoring Location: B.11
Noise Monitoring Address: 48 Lilian Street, Campsie 2194

Logger Device Type: Svantek 957
 Logger Serial No: 20675

Ambient noise logger deployed at the north of the residential address 48 Lilian Street, Campsie. Logger located just inside the front garden of the property and beside the neighbour's driveway on the western side (separated by a 1m aluminium fence). Logger line of sight north over Lilian Street and the Bankstown Line corridor.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by distant construction and industrial noise and intermittent bird chatter. LAeq noise levels at this location were influenced by local traffic passby noise, aircraft noise and rail noise due to the property lying approximately 50m south of the nearest Bankstown Line track.

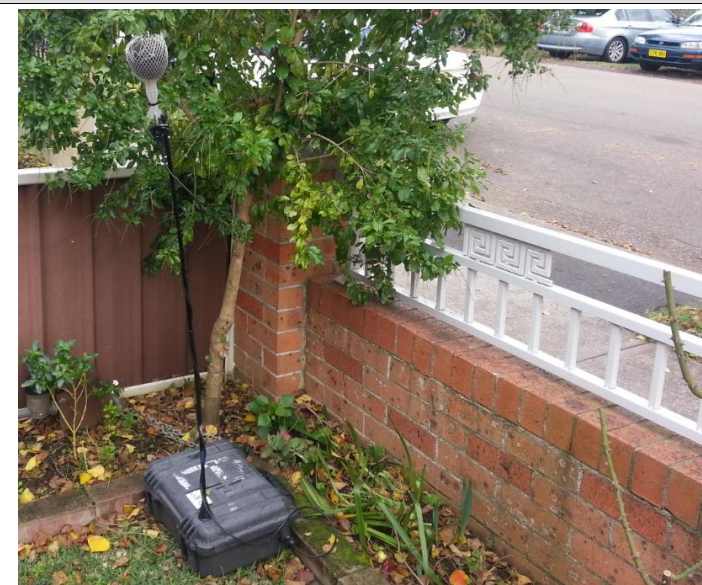
Map of Noise Monitoring Location



Ambient Noise Logging Results – INP Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	44	59	60	67
Evening	45	57	59	66
Night-time	40	57	52	64

Photo of Noise Monitoring Location



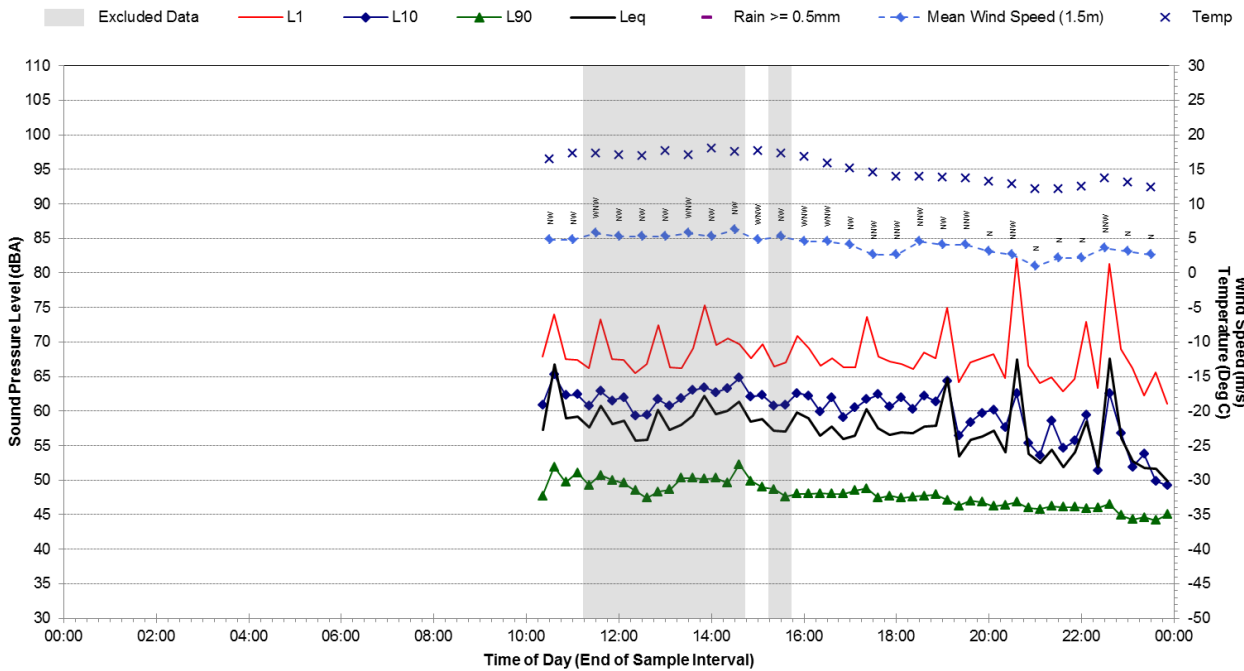
Attended Noise Measurement Results

Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	09:47	48	57	74



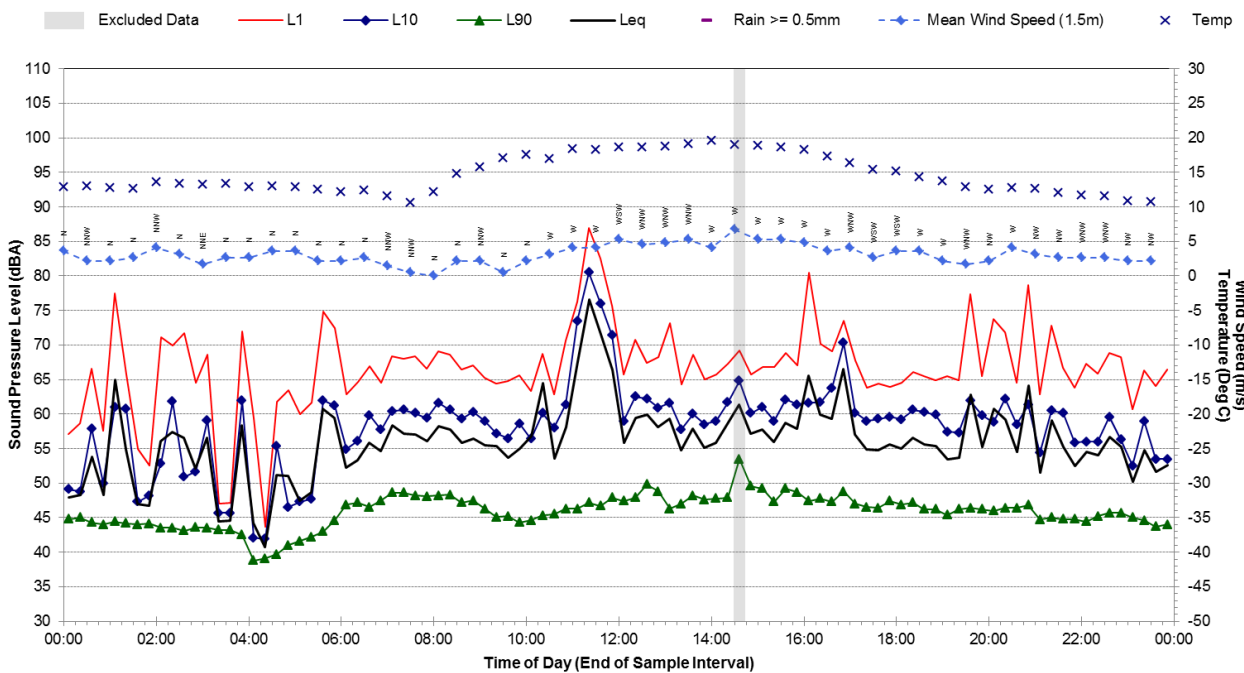
Statistical Ambient Noise Levels

B.15 - Tuesday, 21 June 2016

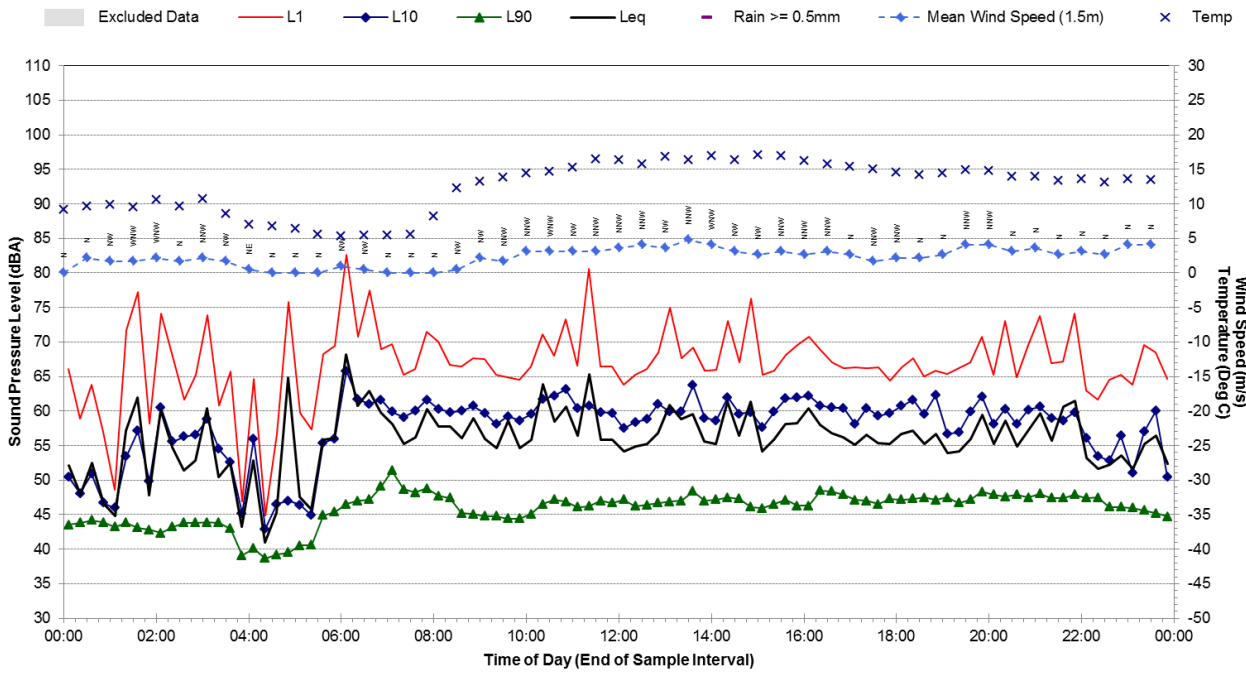


Statistical Ambient Noise Levels

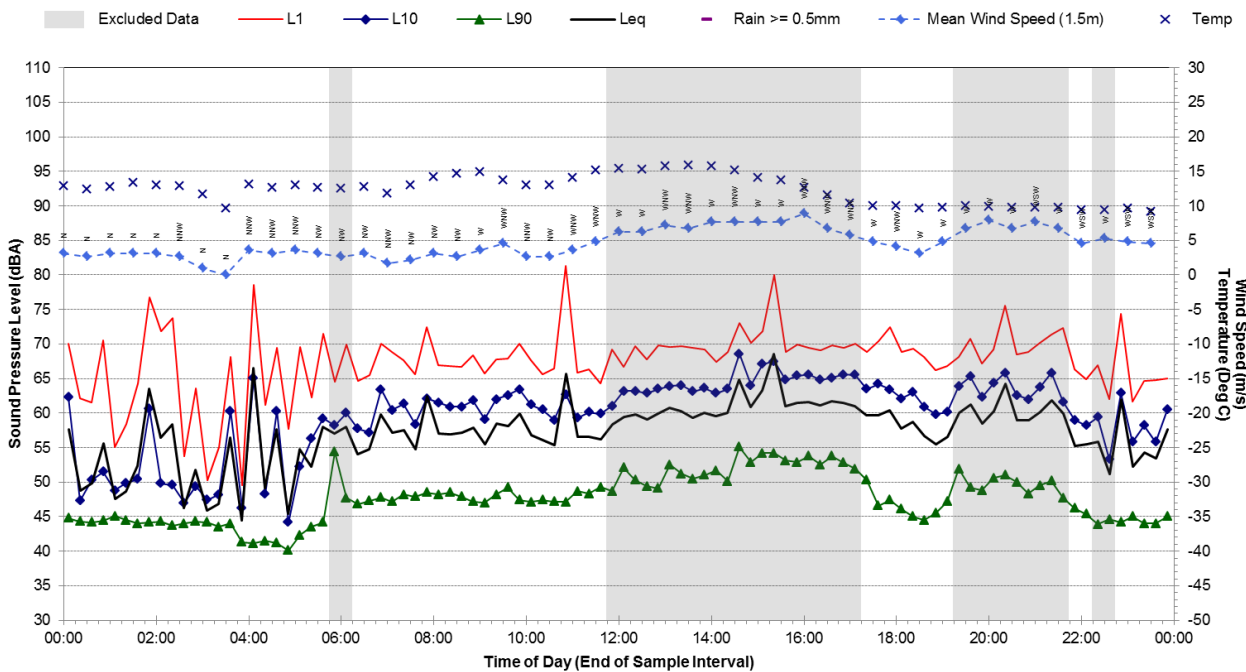
B.15 - Wednesday, 22 June 2016



Statistical Ambient Noise Levels B.15 - Thursday, 23 June 2016

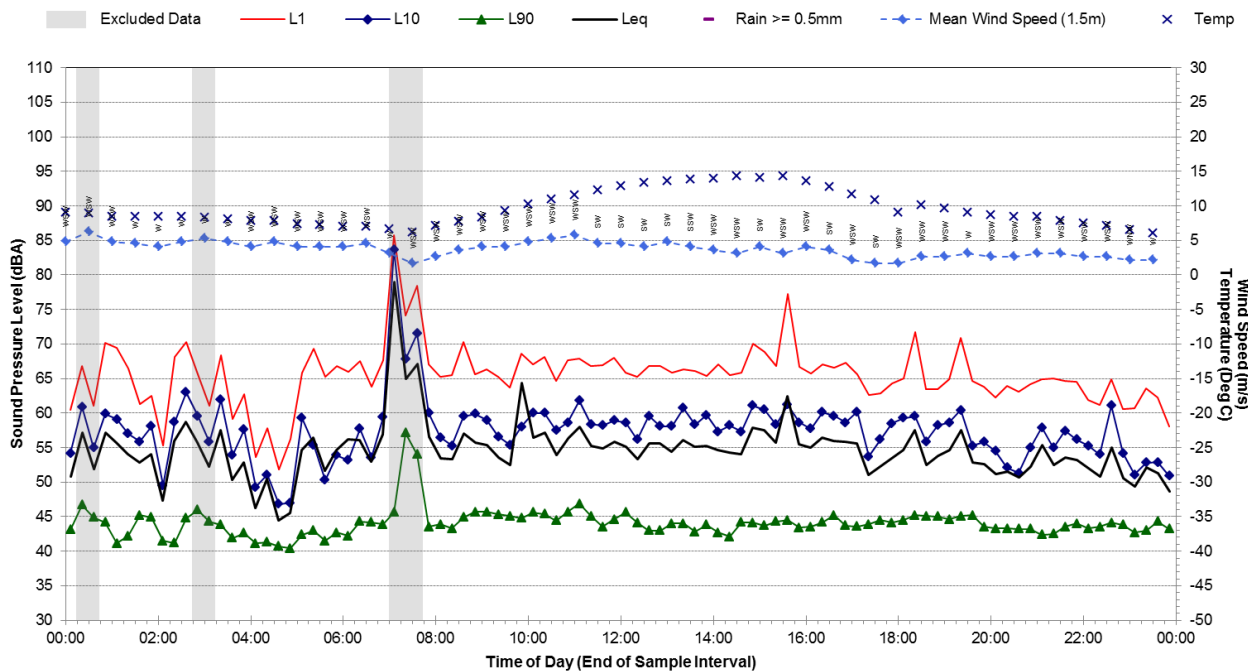


Statistical Ambient Noise Levels B.15 - Friday, 24 June 2016



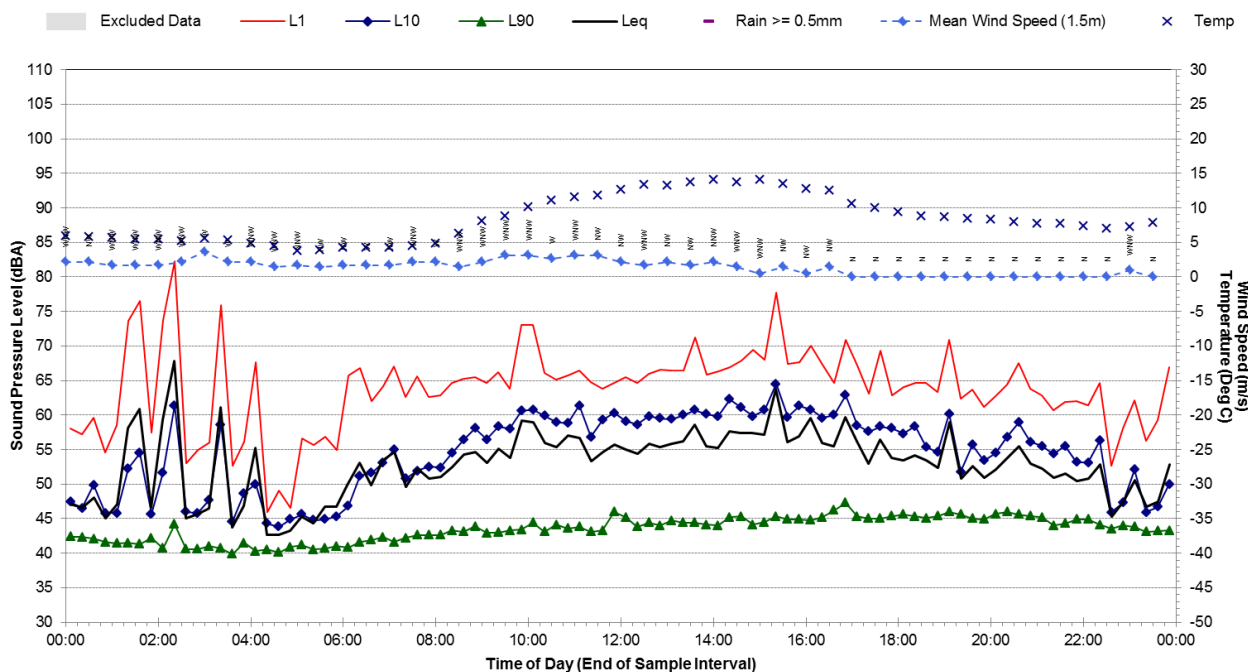
Statistical Ambient Noise Levels

B.15 - Saturday, 25 June 2016



Statistical Ambient Noise Levels

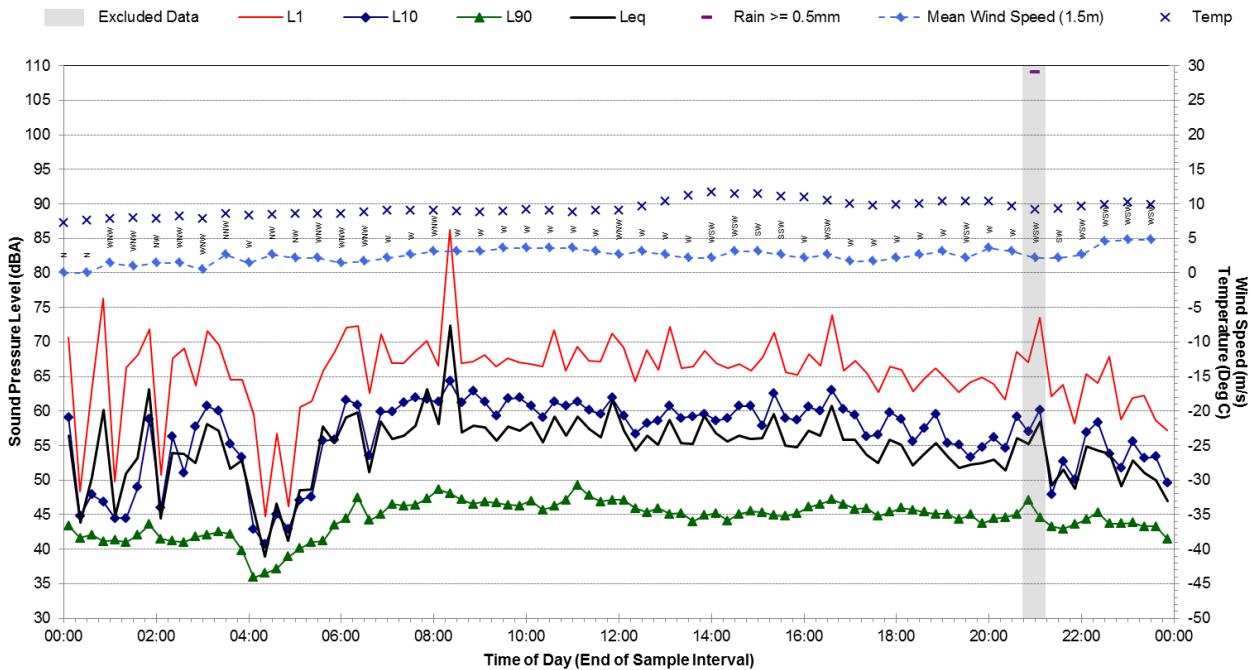
B.15 - Sunday, 26 June 2016



Background Noise Monitoring Results – B.11

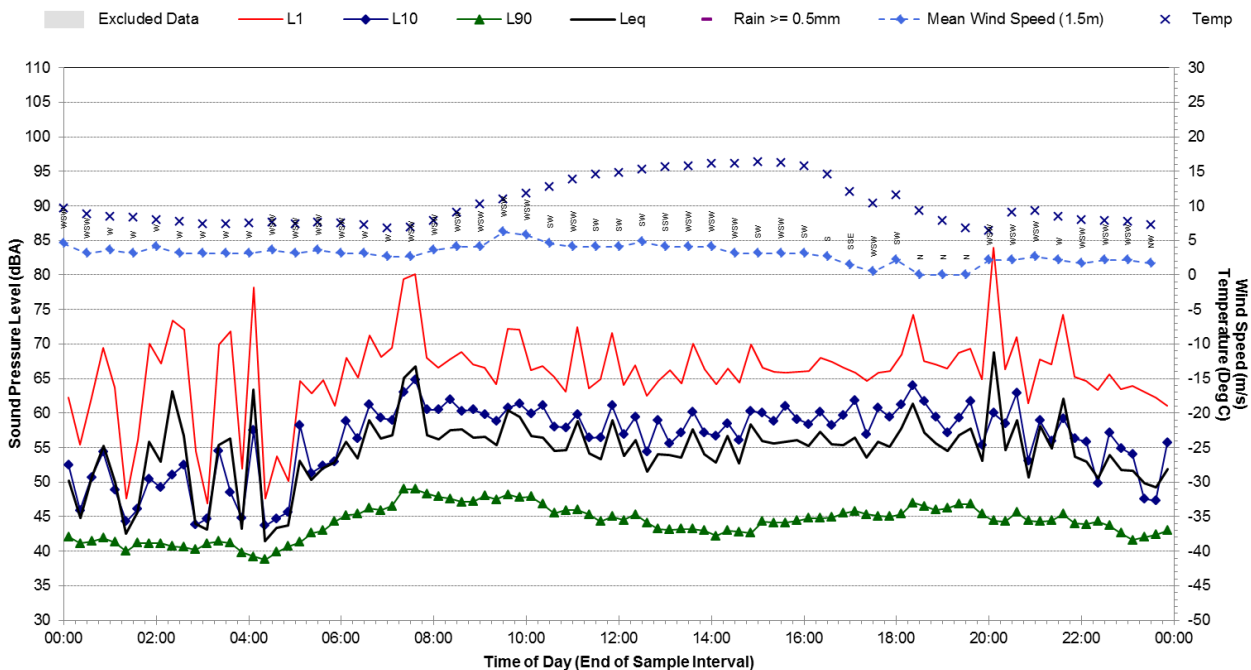
Statistical Ambient Noise Levels

B.15 - Monday, 27 June 2016



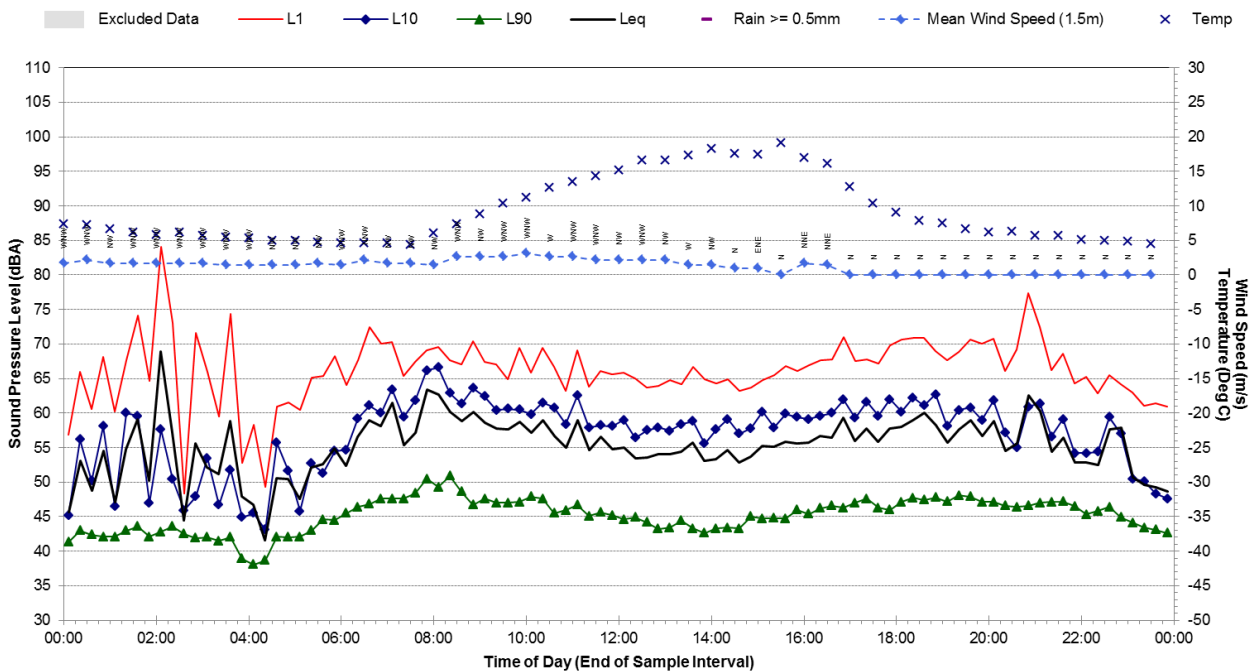
Statistical Ambient Noise Levels

B.15 - Tuesday, 28 June 2016



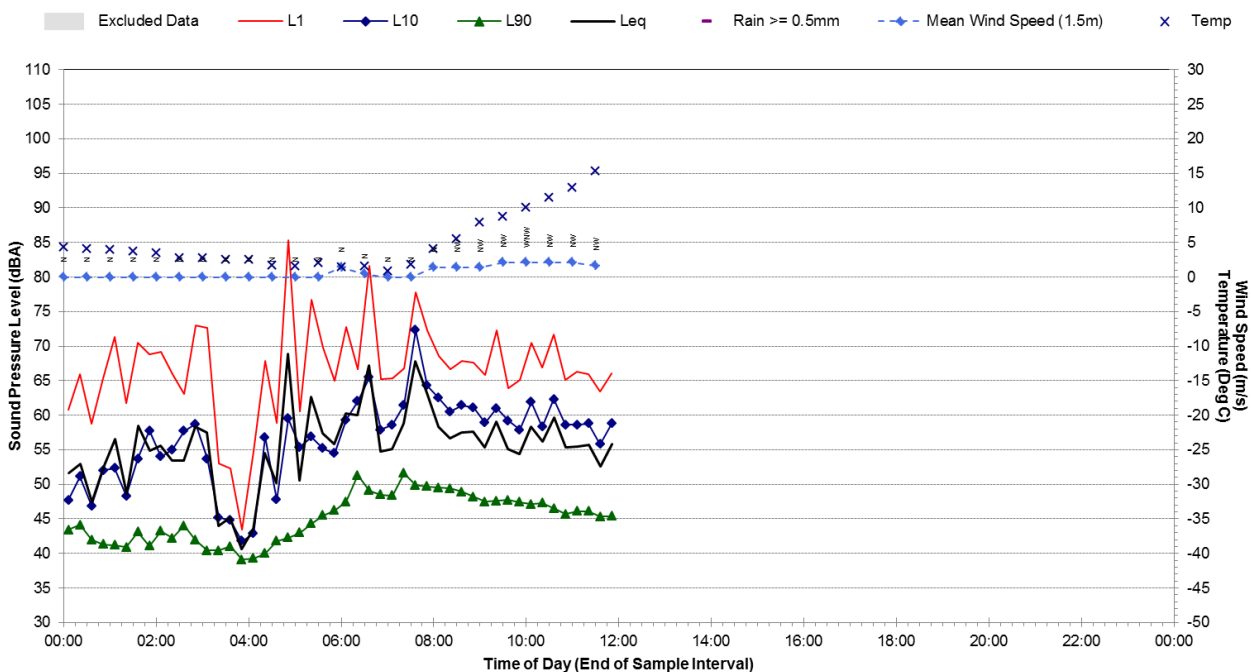
Statistical Ambient Noise Levels

B.15 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.15 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.12

Noise Monitoring Location:	B.12
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Noise Monitoring Address:	1 Lark Street, Belmore 2192
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Logger Device Type: Svantek 957
 Logger Serial No: 23293

Ambient noise logger deployed at the south of the residential address 1 Lark Street, Belmore. Logger located beside the entrance landing of the residence. Logger line of sight generally south east over Lark Street and into the shared Bankstown Line and freight line corridor area.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by distant construction and industrial noise and intermittent bird chatter. LAeq noise levels at this location were influenced by aircraft noise and rail noise due to the property lying approximately 85m south west of the nearest freight line track and 125m north west of the nearest Bankstown Line track.

Map of Noise Monitoring Location



Ambient Noise Logging Results – INP Defined Time Periods	Photo of Noise Monitoring Location
-----------------------------------------------------------------	-------------------------------------------

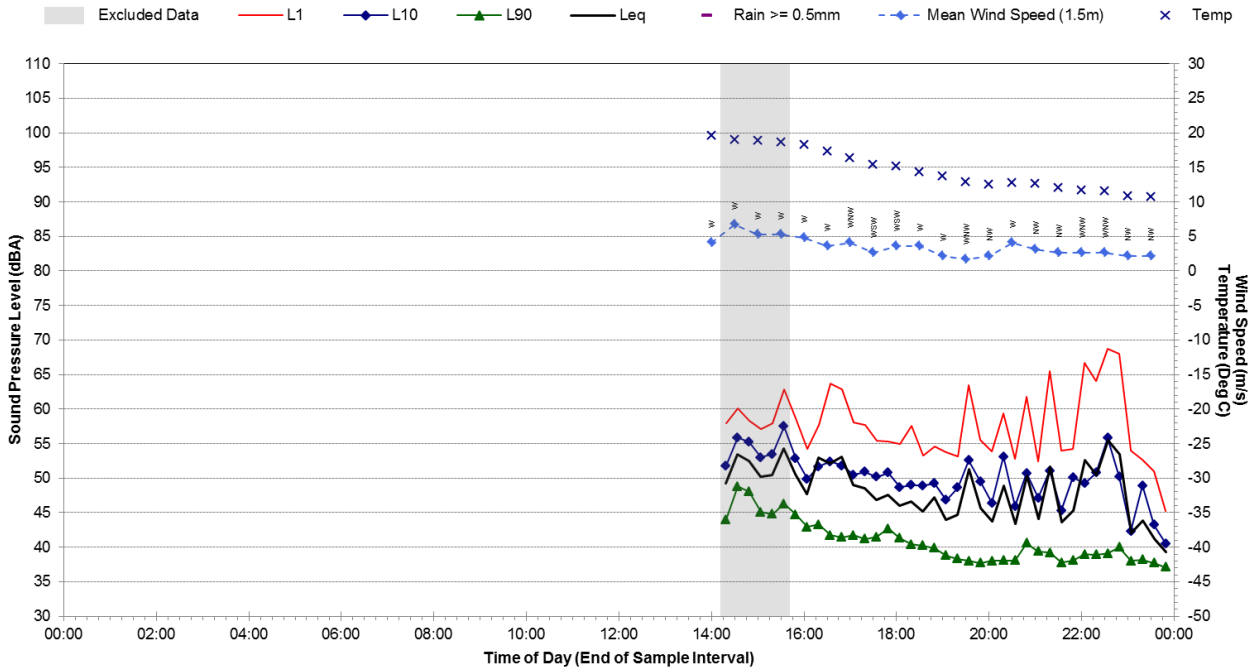
Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	37	50	51	56
Evening	40	48	50	55
Night-time	33	46	46	54

Attended Noise Measurement Results				
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
22/06/2016	13:14	41	48	60



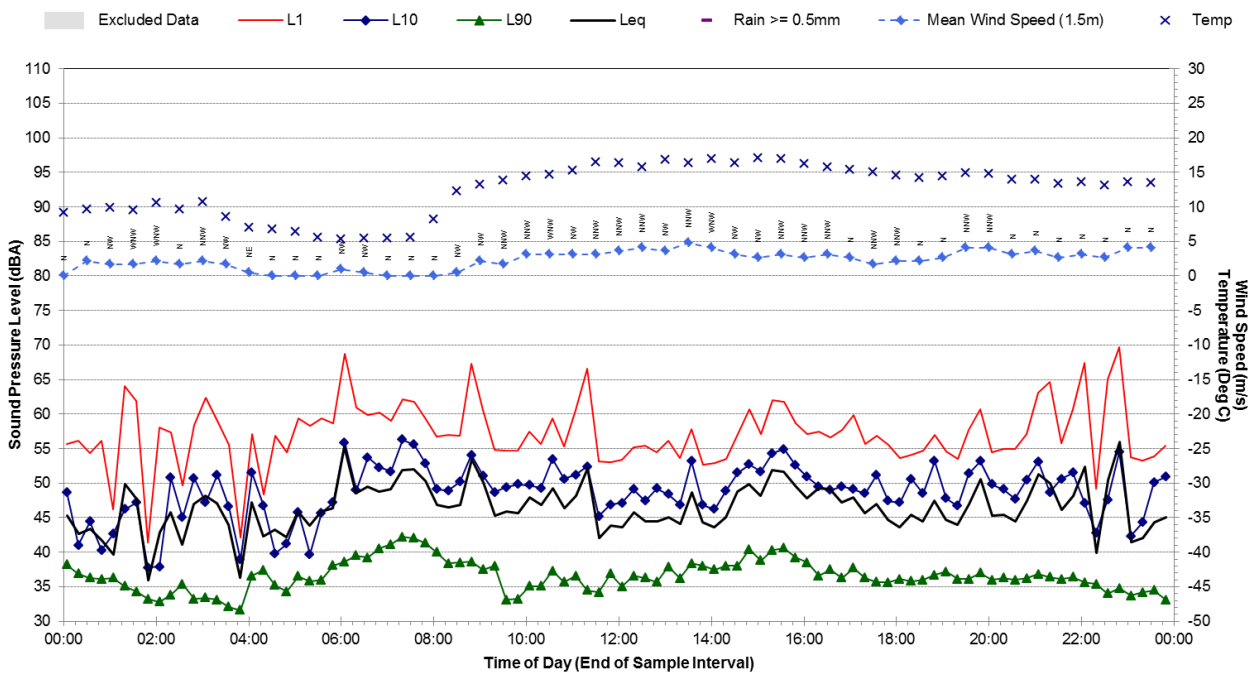
Statistical Ambient Noise Levels

B.16 - Wednesday, 22 June 2016



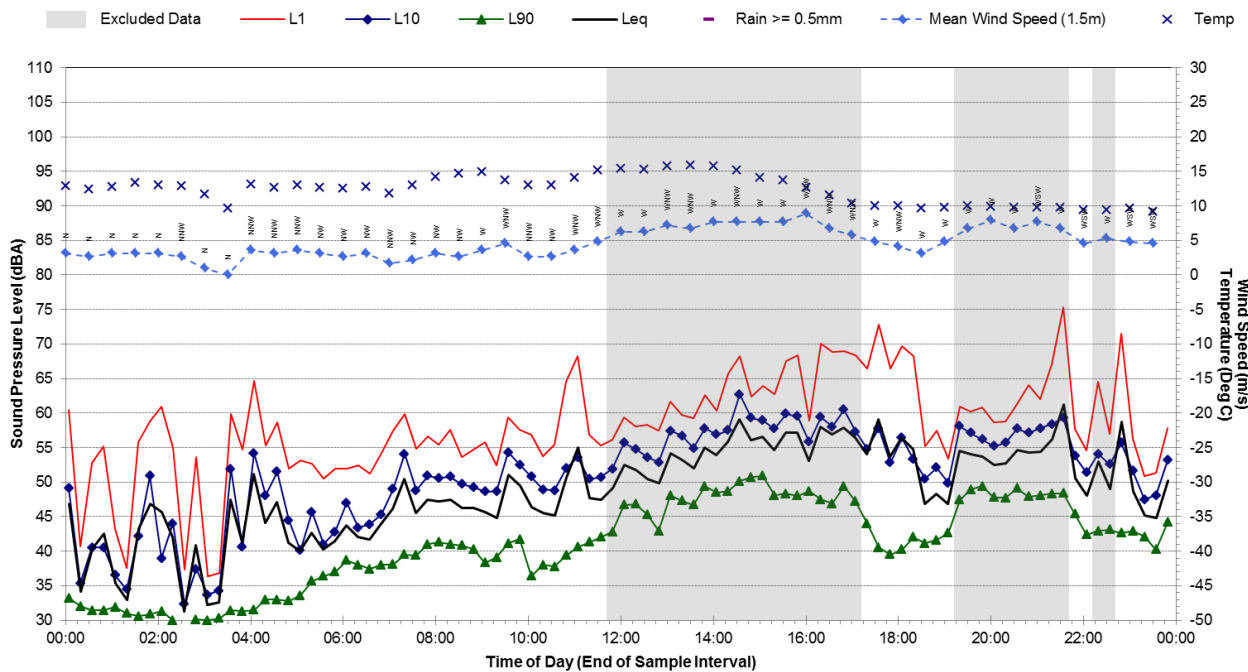
Statistical Ambient Noise Levels

B.16 - Thursday, 23 June 2016



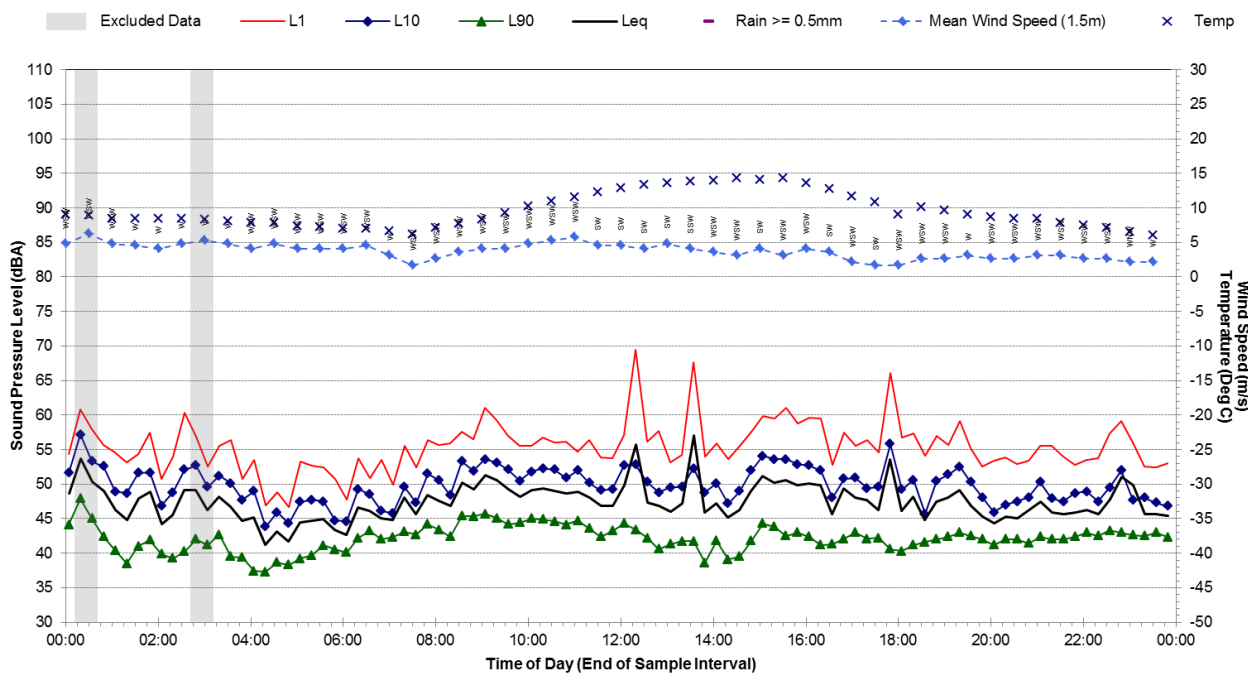
Statistical Ambient Noise Levels

B.16 - Friday, 24 June 2016



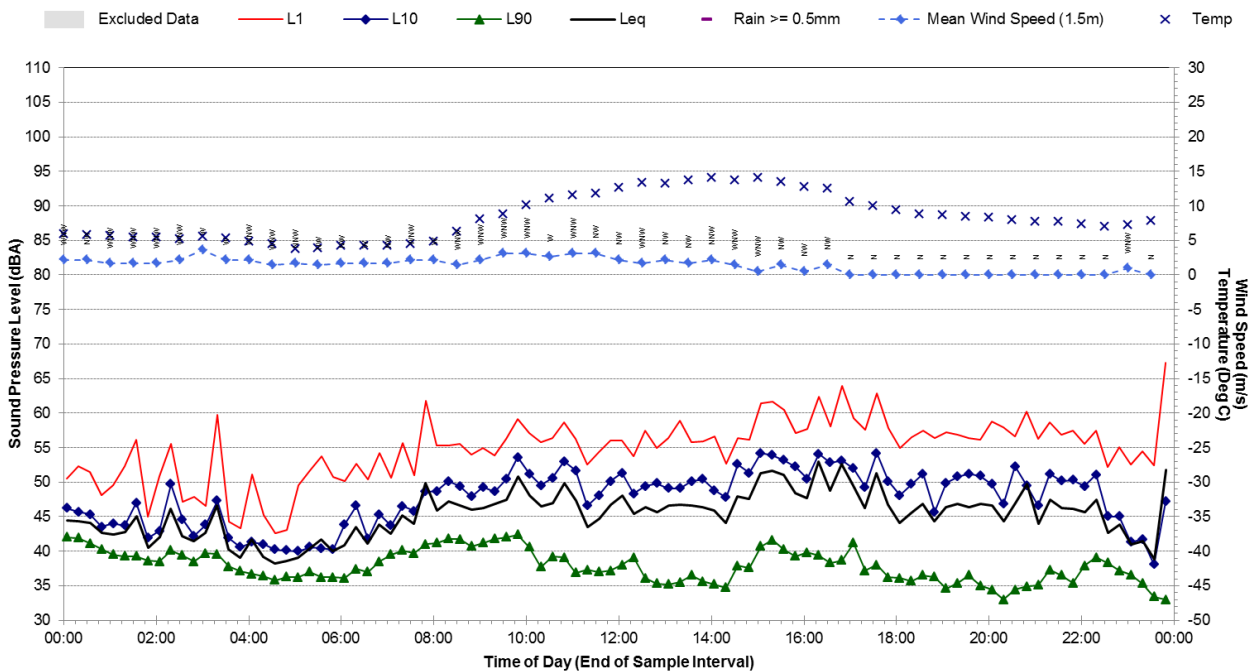
Statistical Ambient Noise Levels

B.16 - Saturday, 25 June 2016



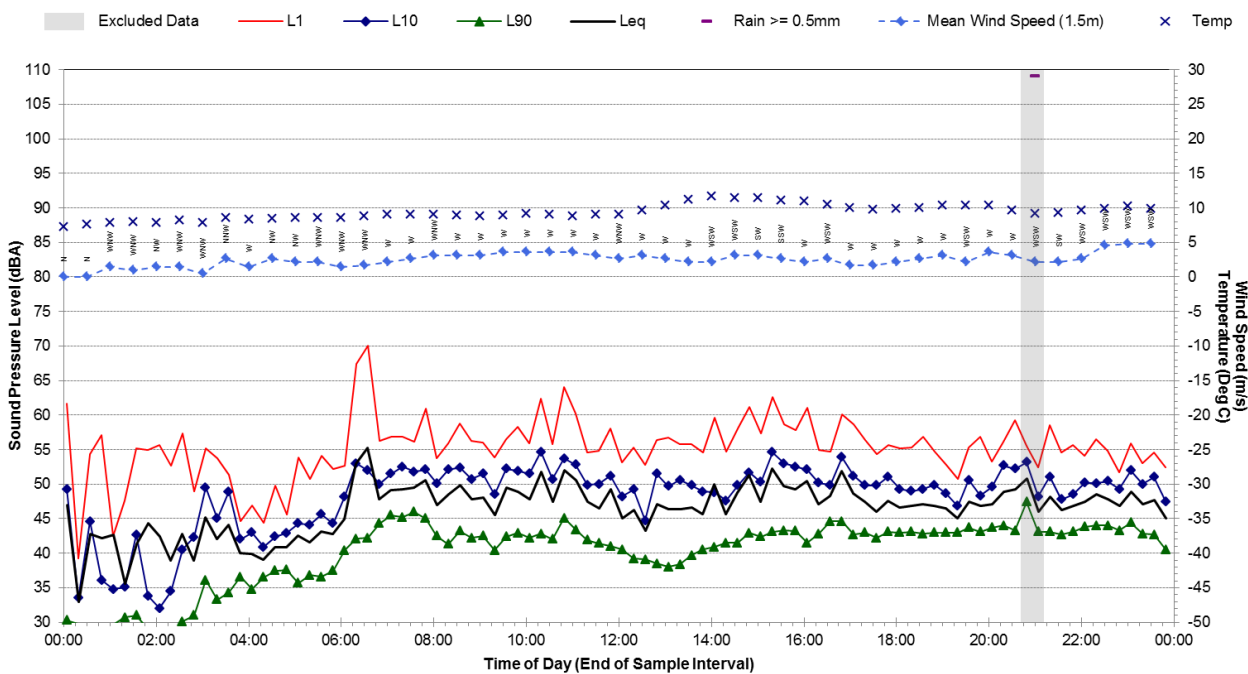
Statistical Ambient Noise Levels

B.16 - Sunday, 26 June 2016



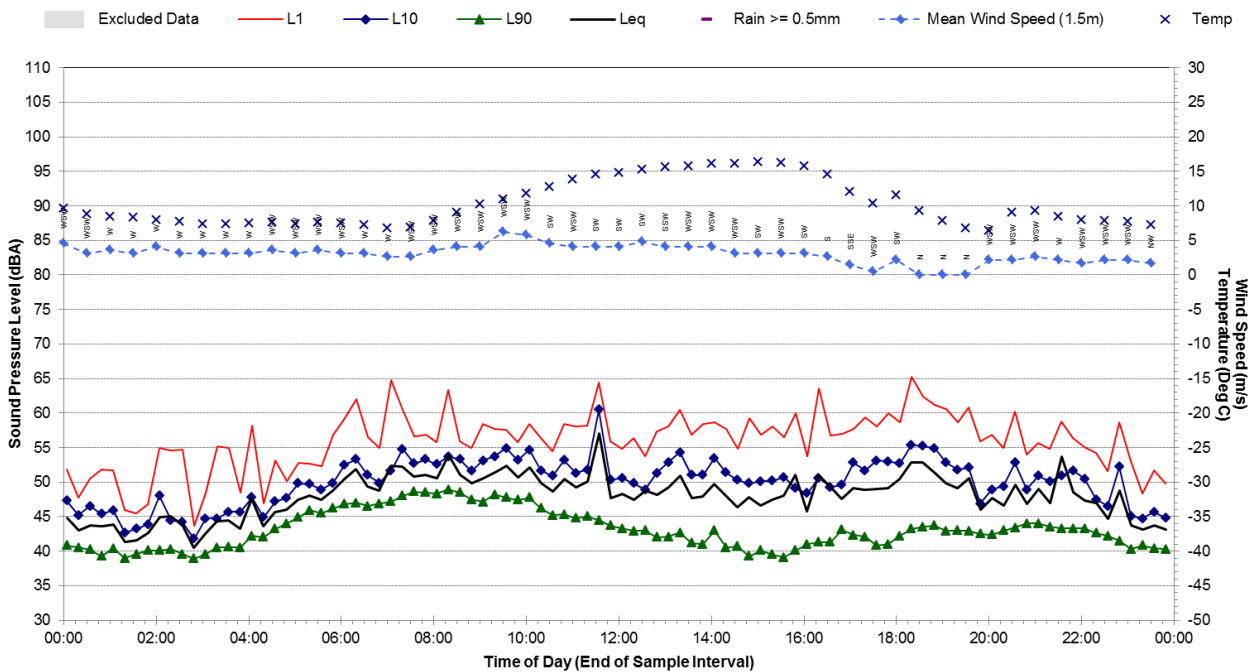
Statistical Ambient Noise Levels

B.16 - Monday, 27 June 2016



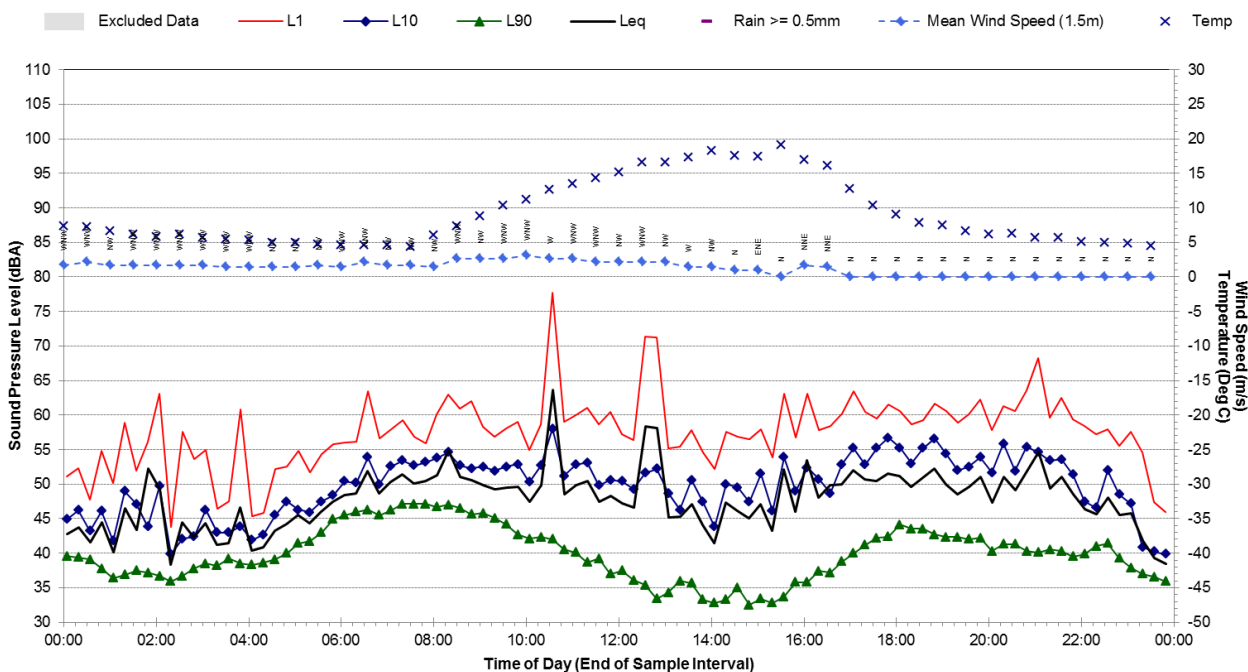
Statistical Ambient Noise Levels

B.16 - Tuesday, 28 June 2016



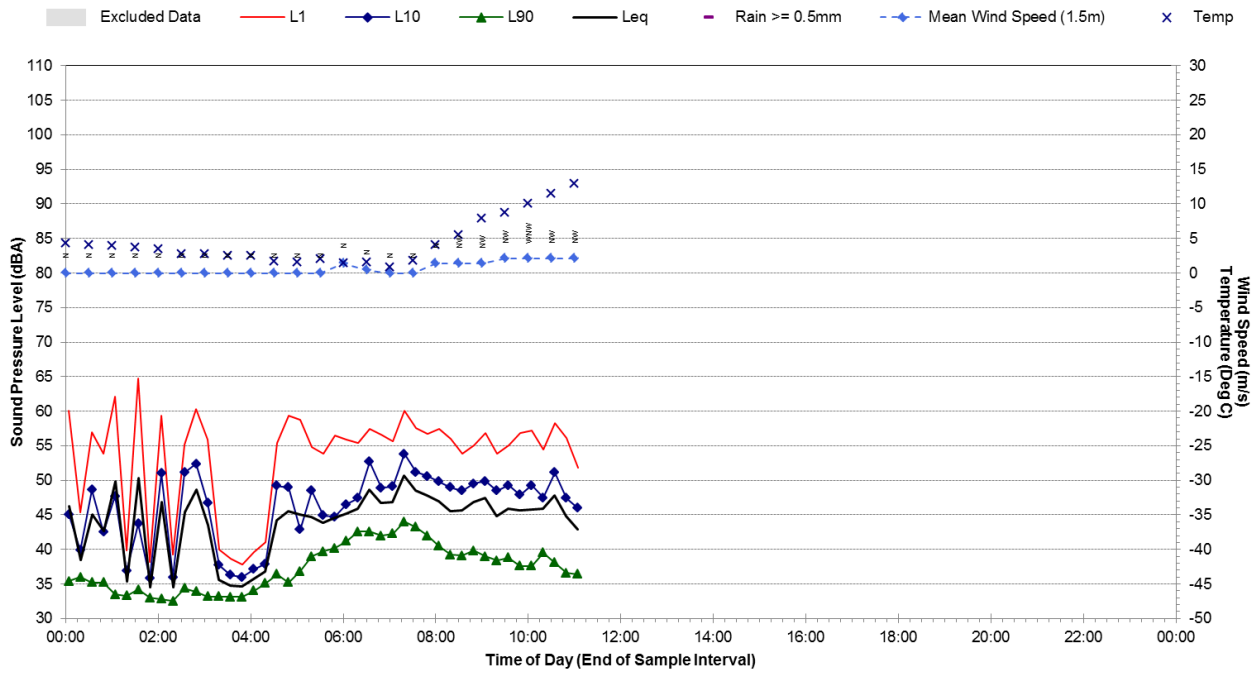
Statistical Ambient Noise Levels

B.16 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.16 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.13

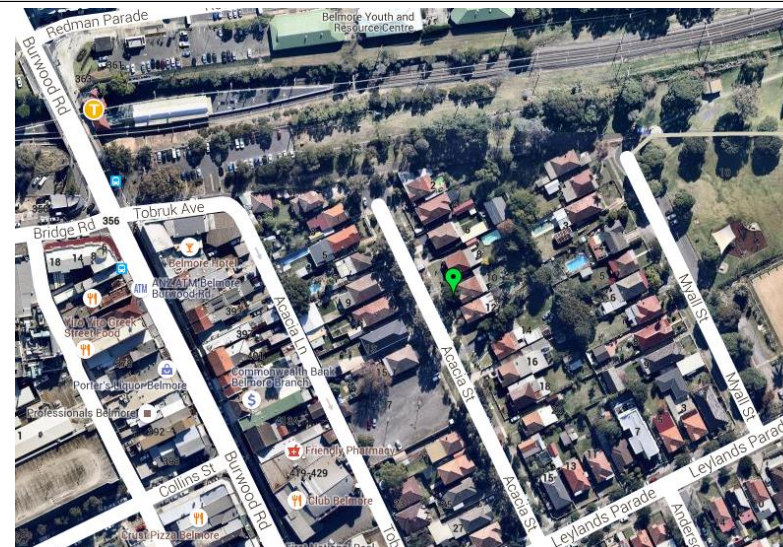
Noise Monitoring Location: B.13
Noise Monitoring Address: 10 Acacia Street, Belmore 2192

Logger Device Type: Bruel & Kjaer 2250 Light
 Logger Serial No: 3005908

Ambient noise logger deployed at the west of the residential address 10 Acacia Street, Belmore. Logger located beside a tree in the front garden of the residence. Logger line of sight west over Acacia Street.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by distant road traffic and construction noise, aircraft noise and intermittent bird chatter. LAeq noise levels at this location were influenced by suburban neighbourhood noise (train horn, pedestrian voices, door slams, vehicle revving etc) and local road traffic passbys. Rail noise from the Bankstown Line was noted to be inaudible.

Map of Noise Monitoring Location



Ambient Noise Logging Results – INP Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	41	49	49	56
Evening	41	47	47	54
Night-time	35	46	43	48

Attended Noise Measurement Results

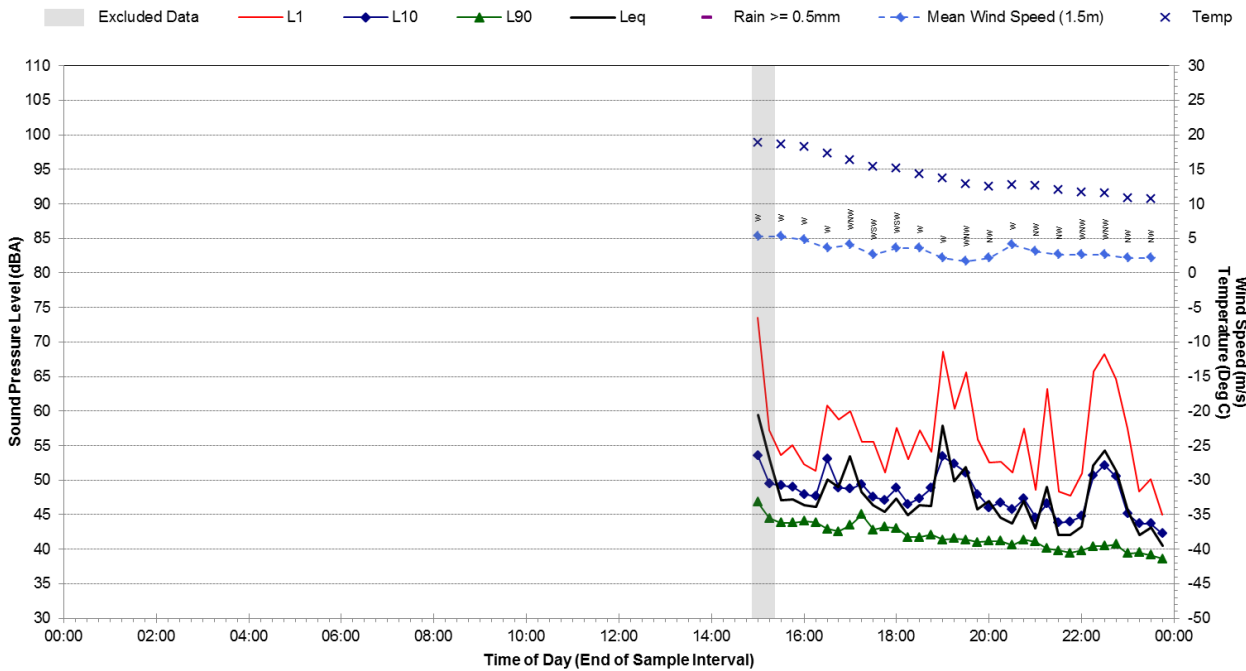
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
30/06/2016	11:20:52	42	50	76

Photo of Noise Monitoring Location



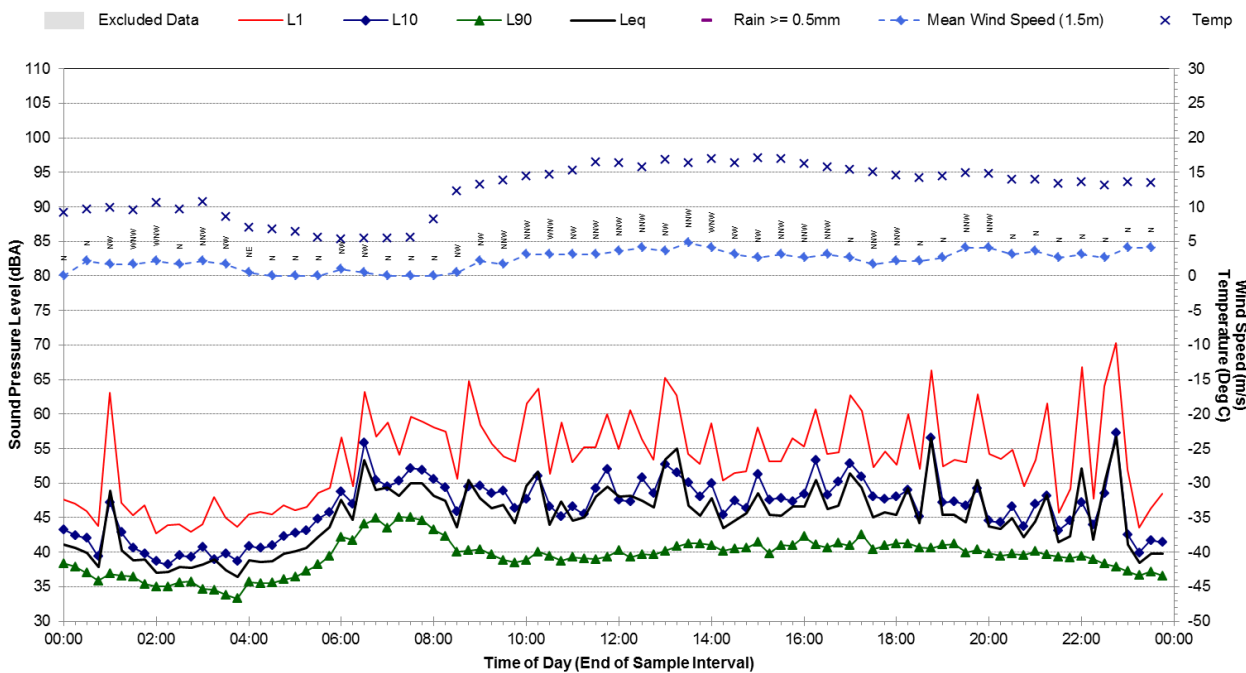
Statistical Ambient Noise Levels

B.17 - Wednesday, 22 June 2016



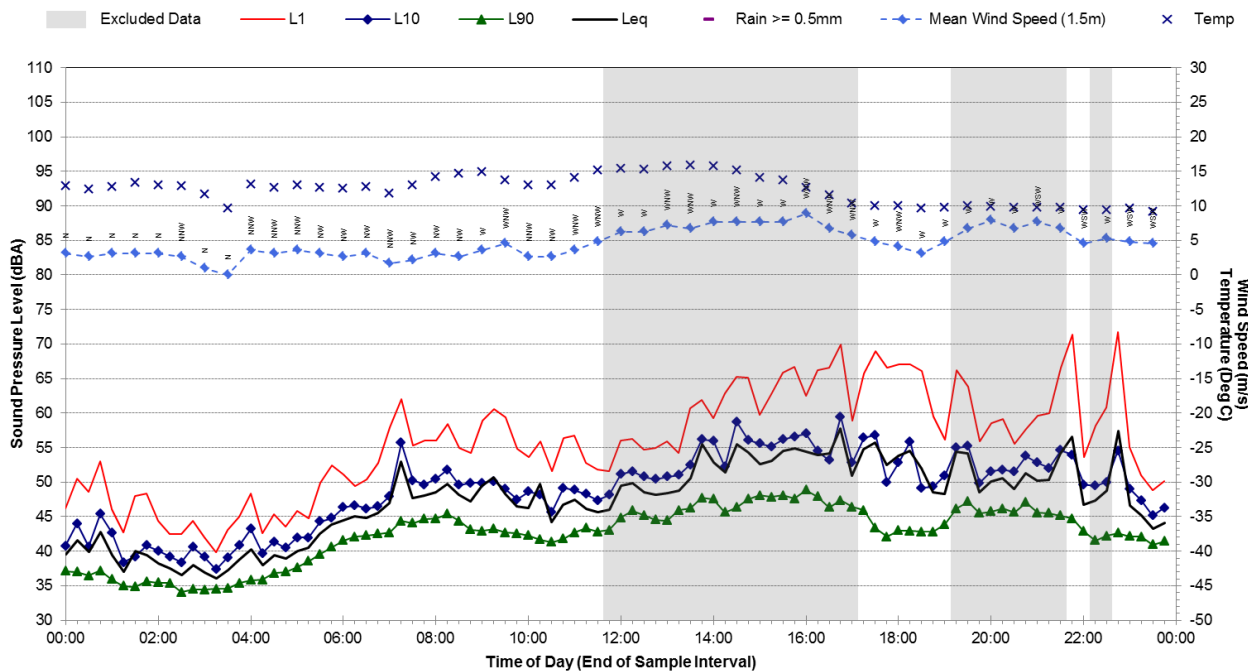
Statistical Ambient Noise Levels

B.17 - Thursday, 23 June 2016



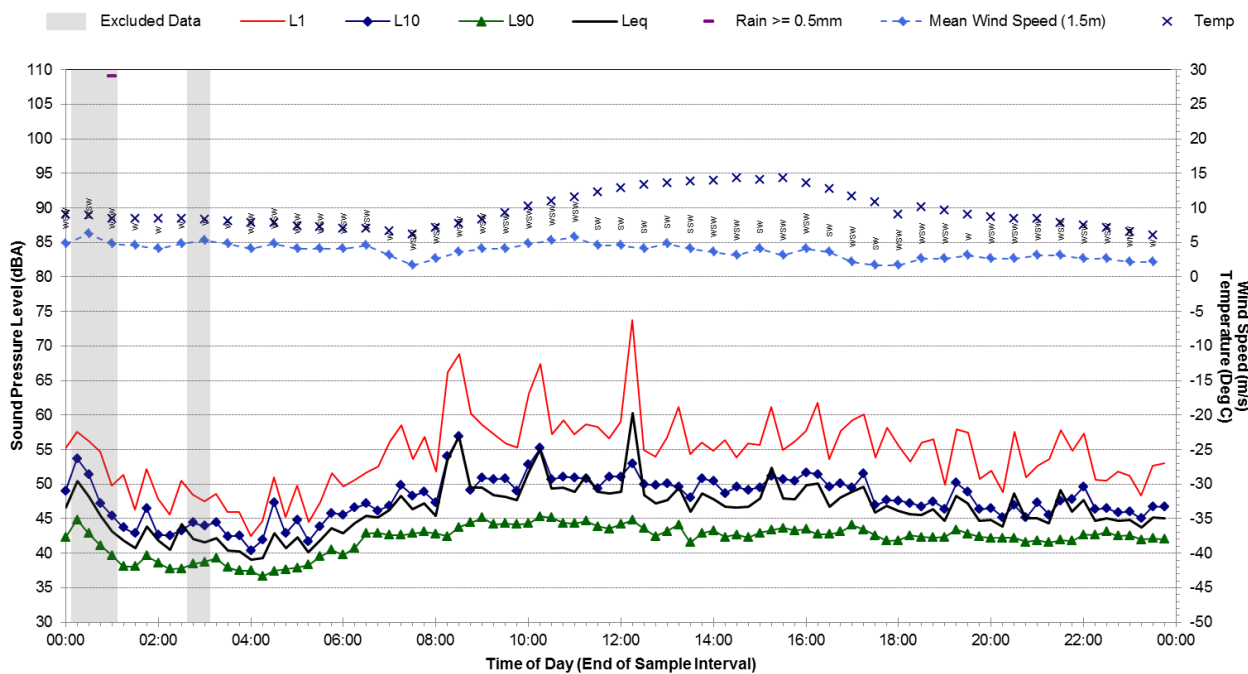
Statistical Ambient Noise Levels

B.17 - Friday, 24 June 2016



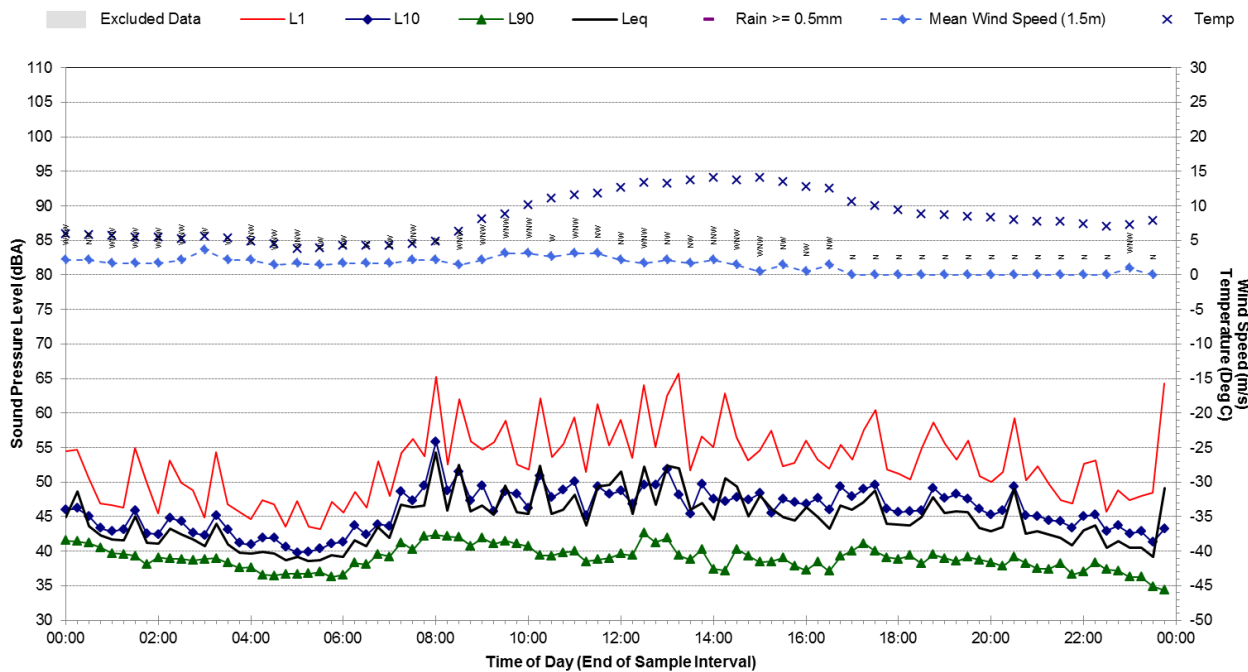
Statistical Ambient Noise Levels

B.17 - Saturday, 25 June 2016



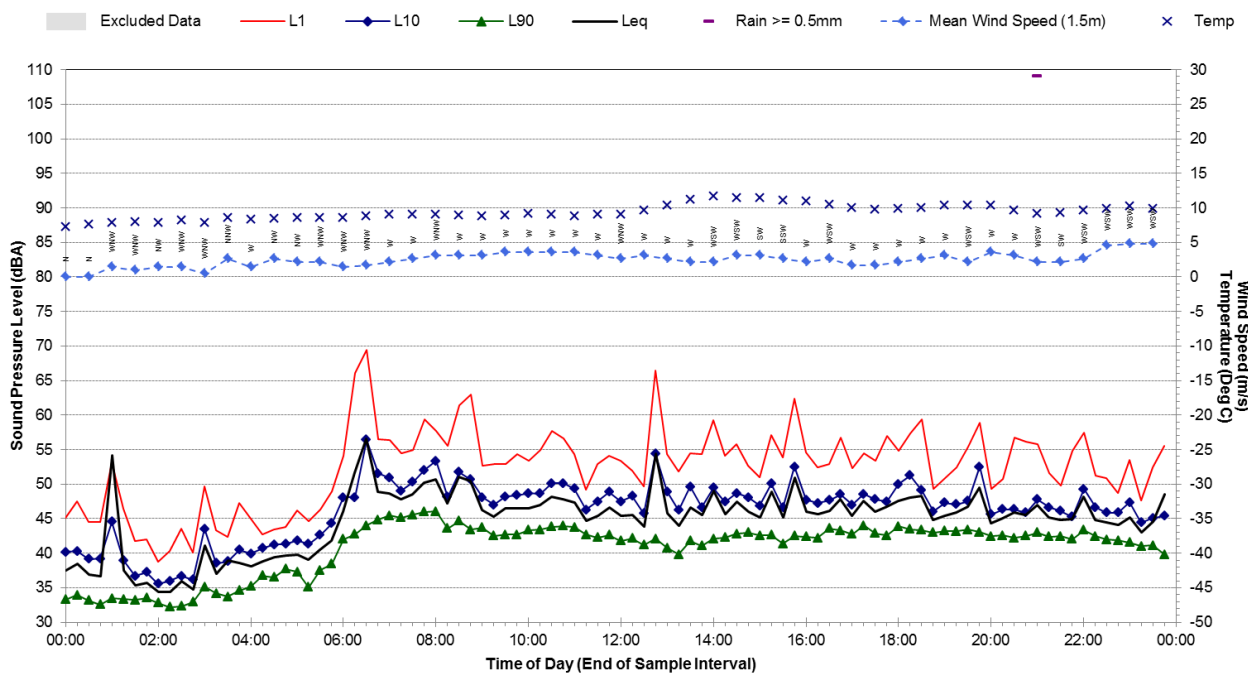
Statistical Ambient Noise Levels

B.17 - Sunday, 26 June 2016



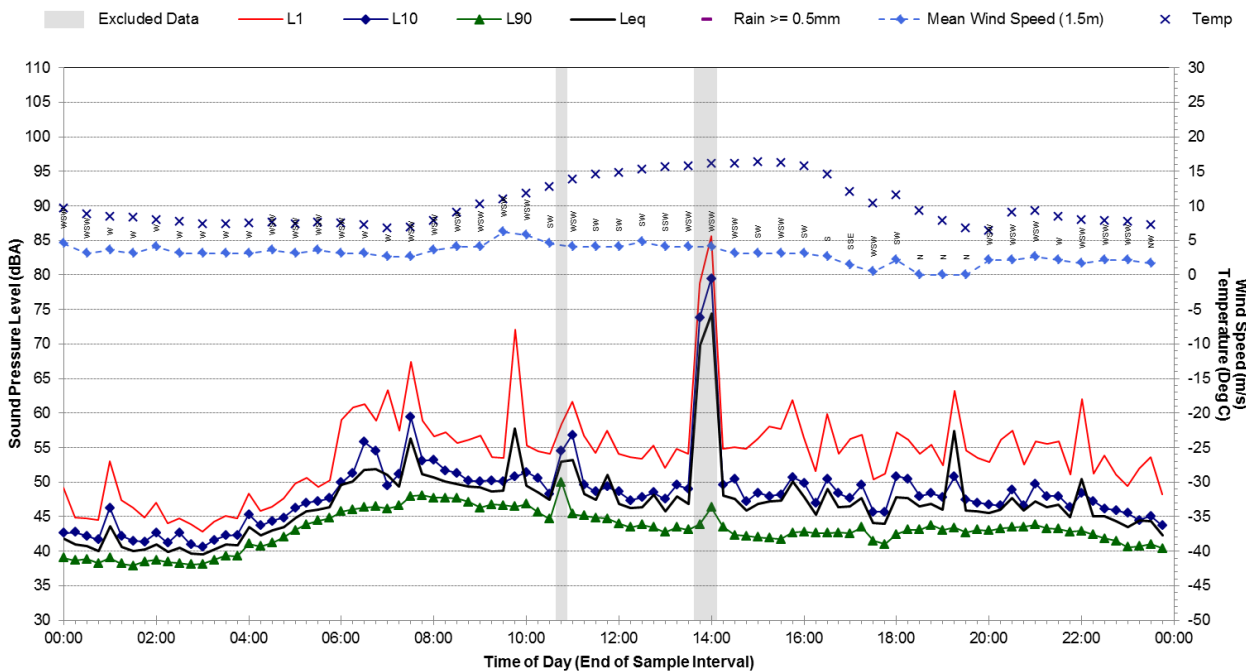
Statistical Ambient Noise Levels

B.17 - Monday, 27 June 2016



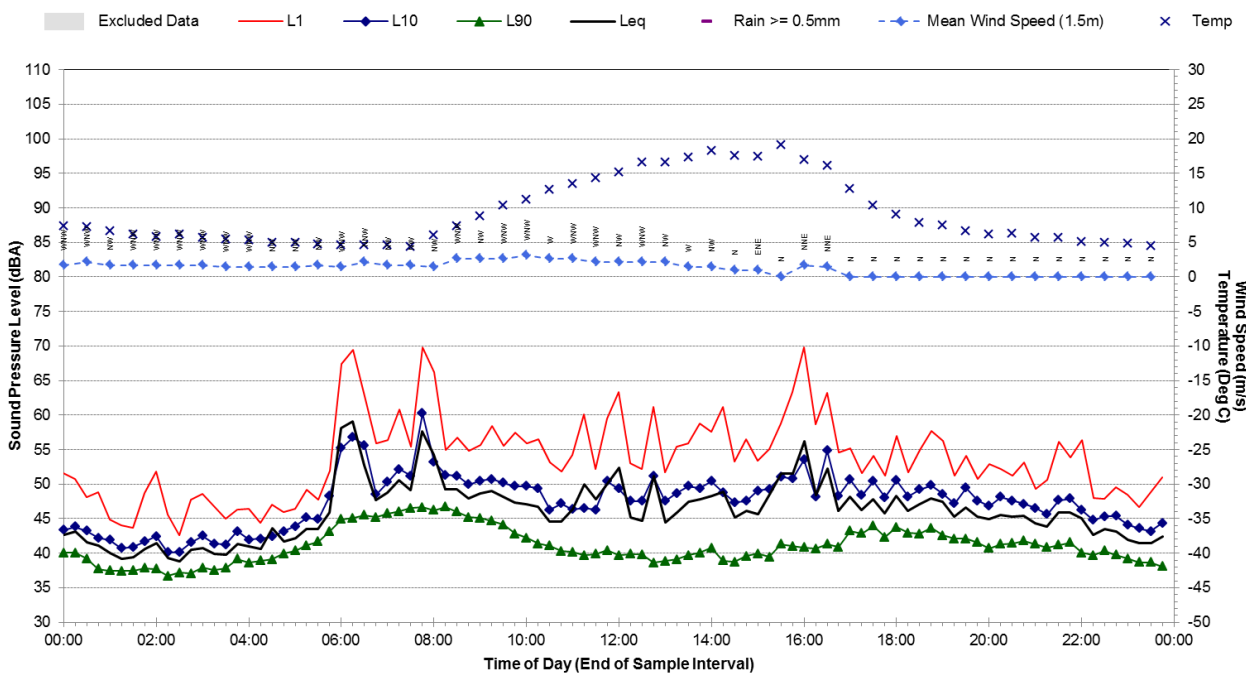
Statistical Ambient Noise Levels

B.17 - Tuesday, 28 June 2016



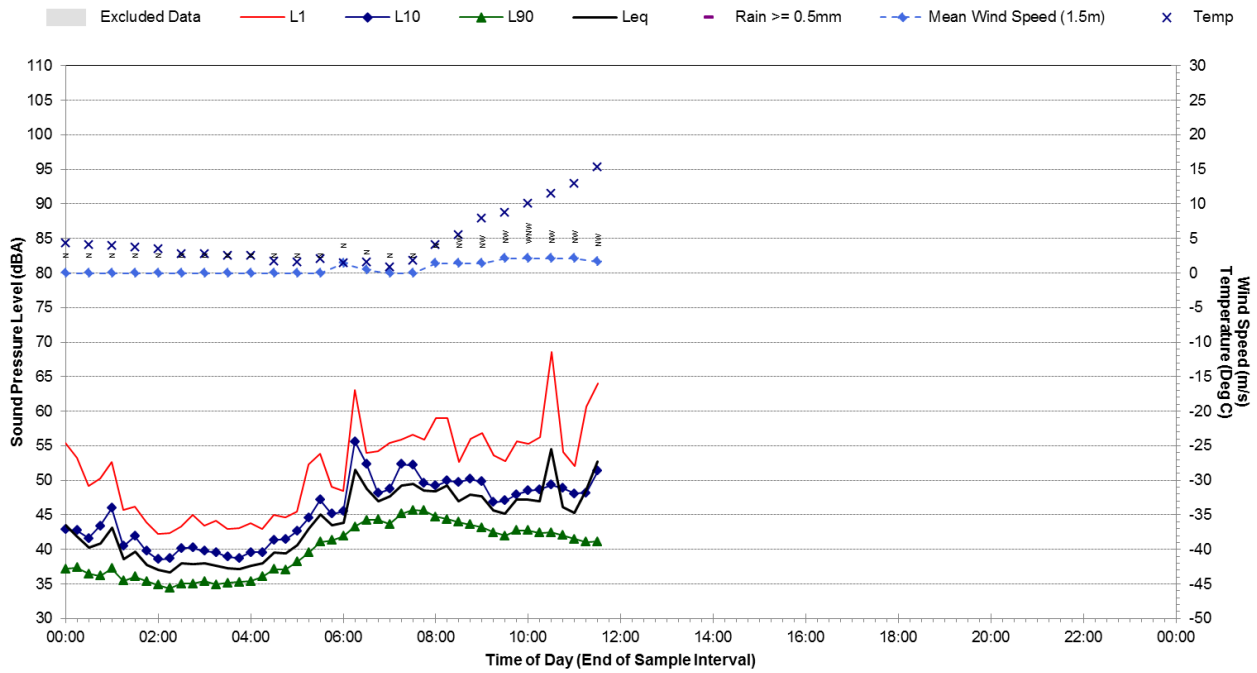
Statistical Ambient Noise Levels

B.17 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.17 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.14

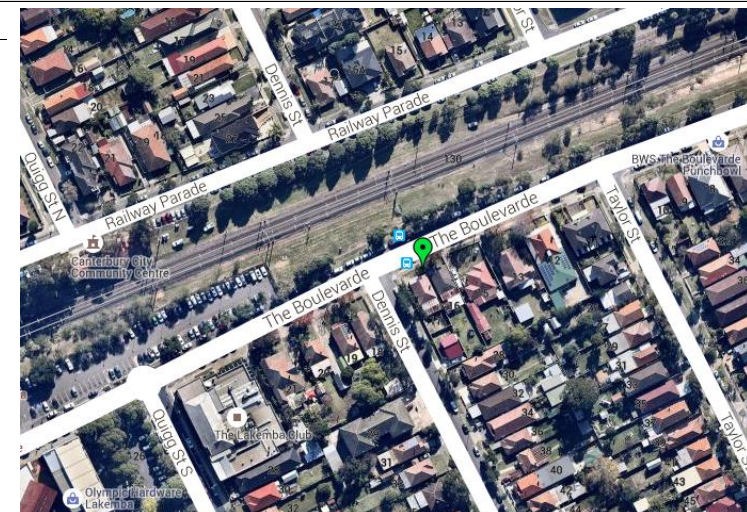
Noise Monitoring Location:	B.14
Noise Monitoring Address:	17 The Boulevard, Lakemba 2195

Logger Device Type: Svantek 957
 Logger Serial No: 23247

Ambient noise logger deployed at the north of the residential address 17 The Boulevard, Lakemba. Logger located in the front garden of the residence. Logger line of sight north over The Boulevard and into the Bankstown Line corridor.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by constant road traffic noise along The Boulevard and aircraft noise. LAeq noise levels at this location were influenced by suburban neighbourhood noise (siren etc), constant local road traffic passbys and rail noise due to the property lying approximately 40m south of the nearest Bankstown Line track.

Map of Noise Monitoring Location



Ambient Noise Logging Results – INP Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	47	65	69	73
Evening	47	63	67	72
Night-time	41	60	61	71

Attended Noise Measurement Results

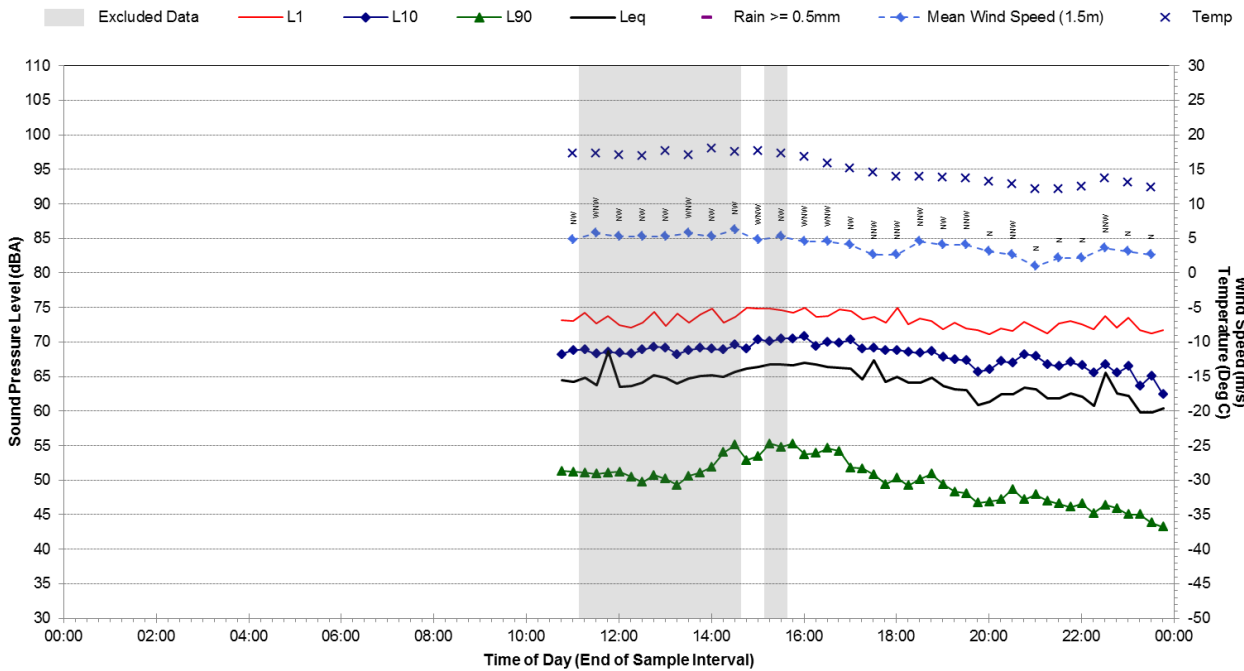
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	10:29:57	52	69	78

Photo of Noise Monitoring Location



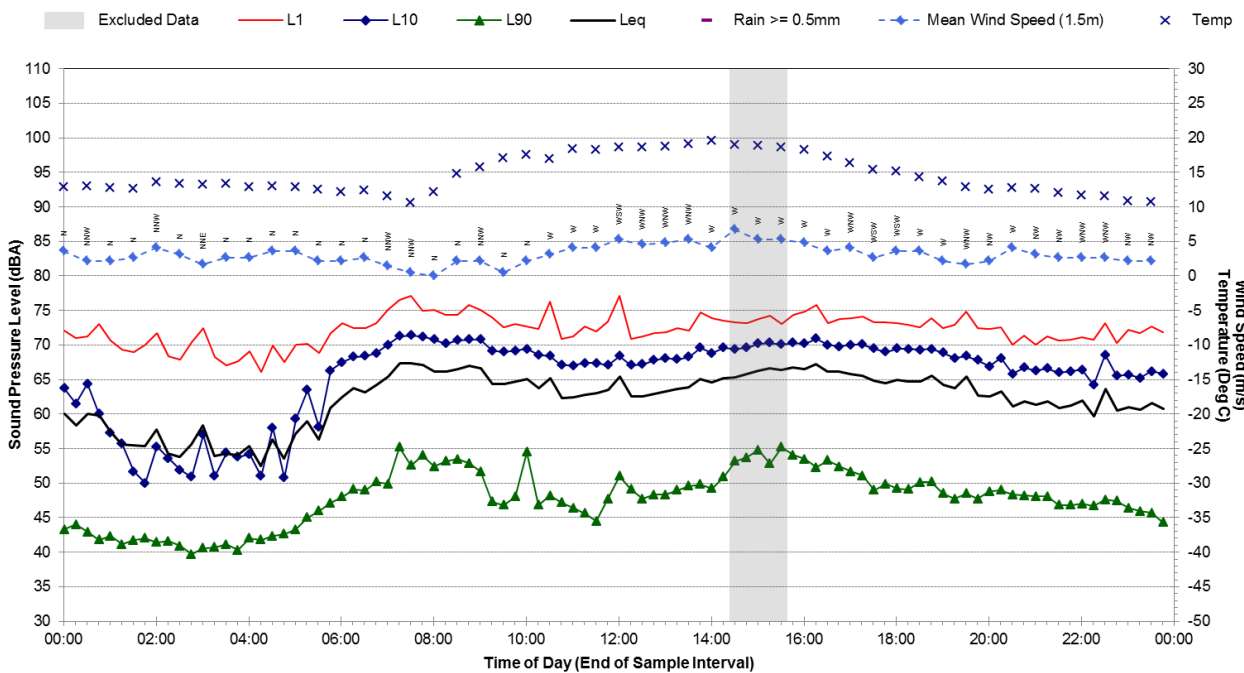
Statistical Ambient Noise Levels

B.18 - Tuesday, 21 June 2016



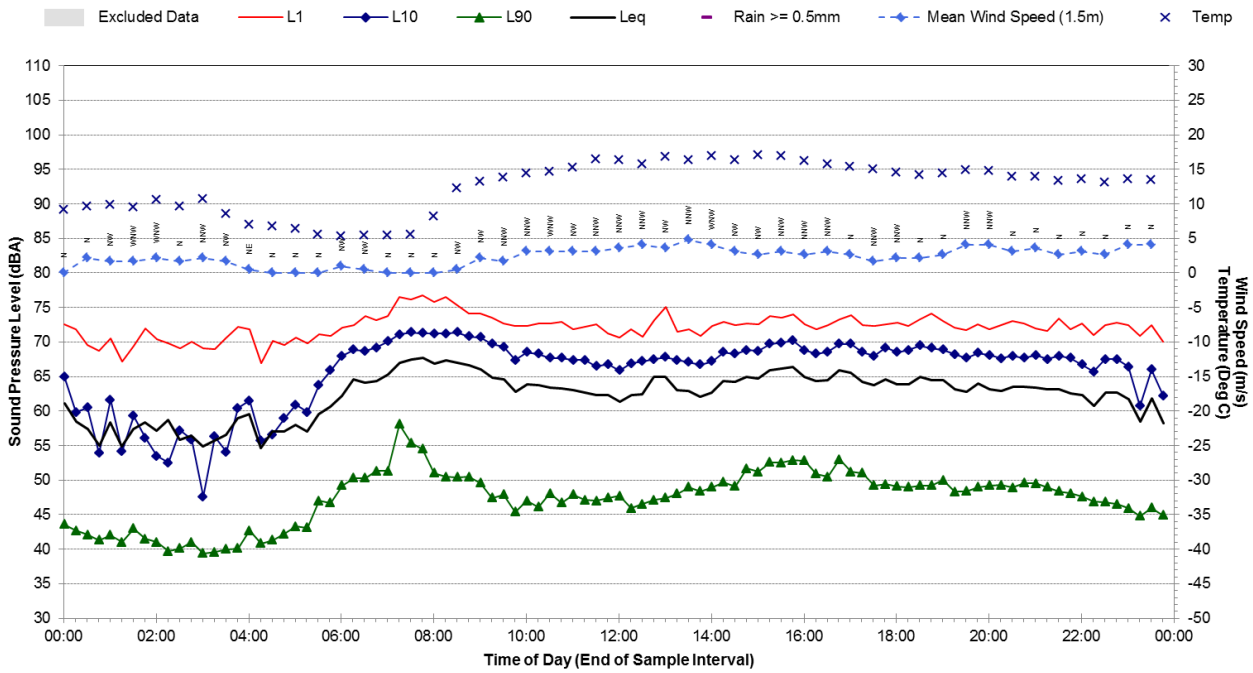
Statistical Ambient Noise Levels

B.18 - Wednesday, 22 June 2016



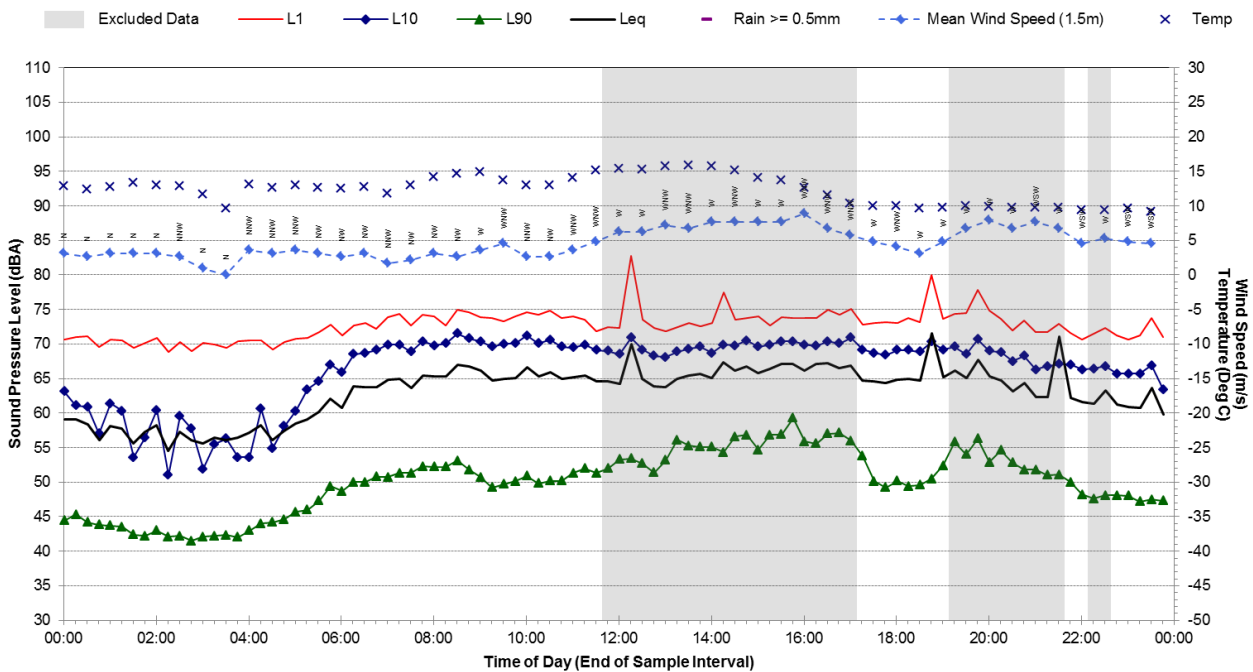
Statistical Ambient Noise Levels

B.18 - Thursday, 23 June 2016



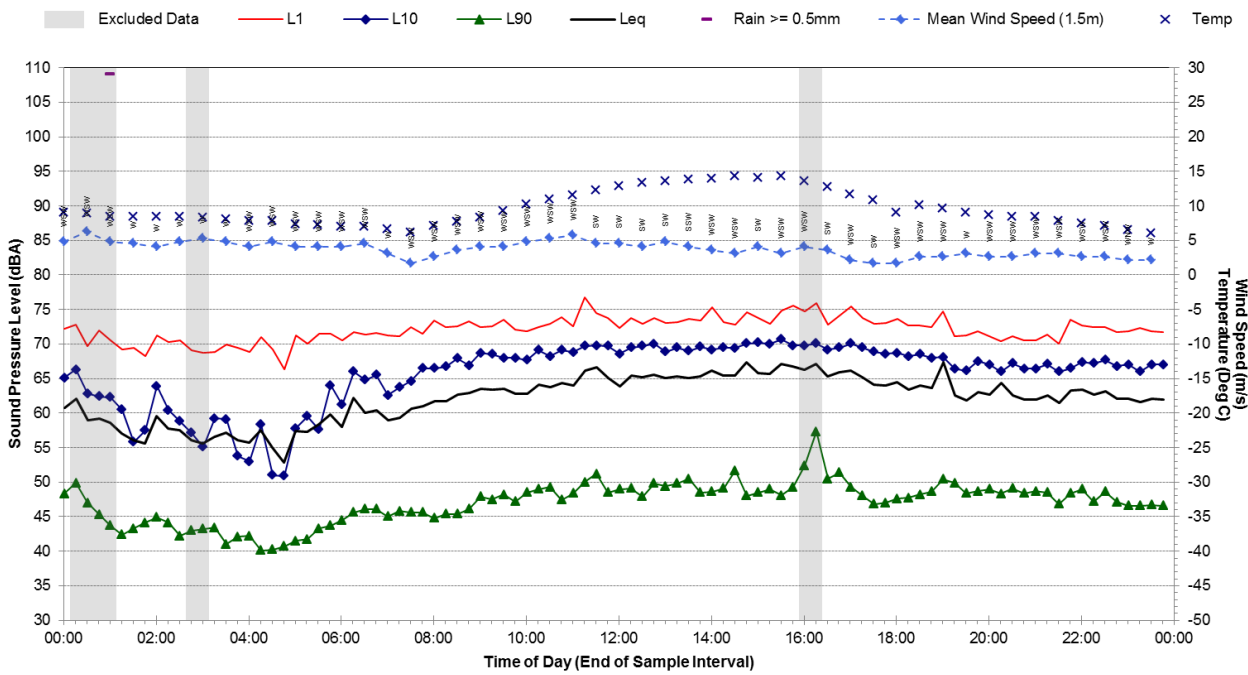
Statistical Ambient Noise Levels

B.18 - Friday, 24 June 2016



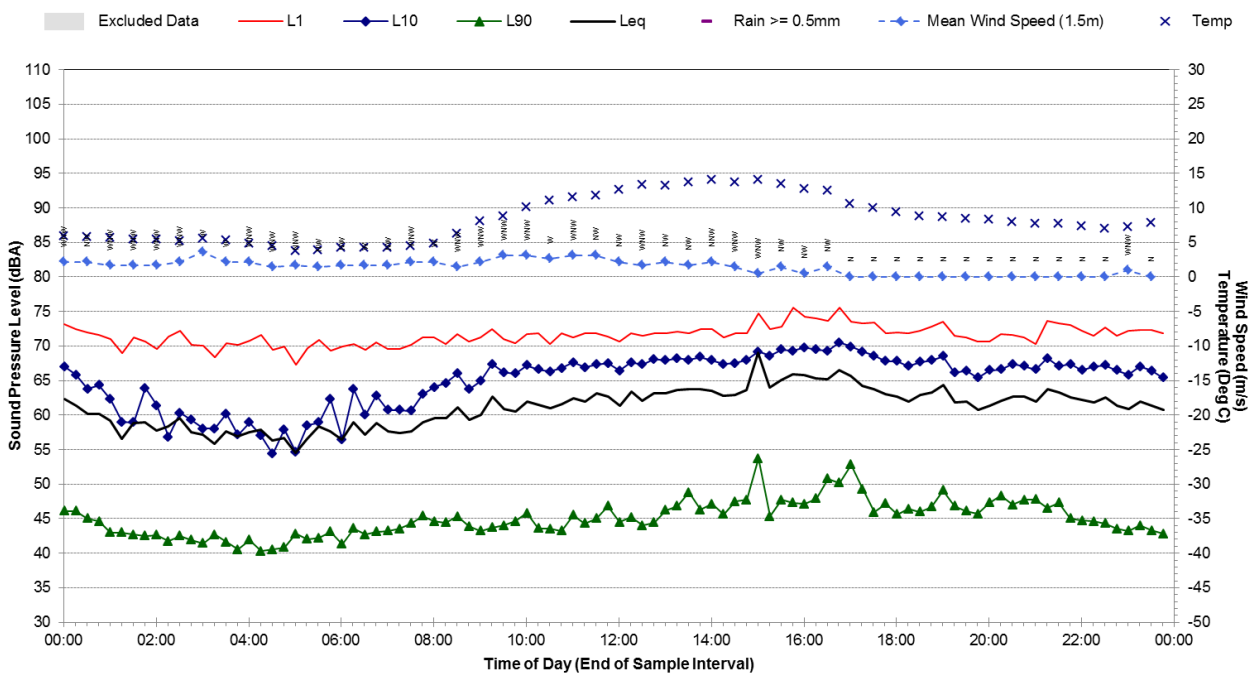
Statistical Ambient Noise Levels

B.18 - Saturday, 25 June 2016



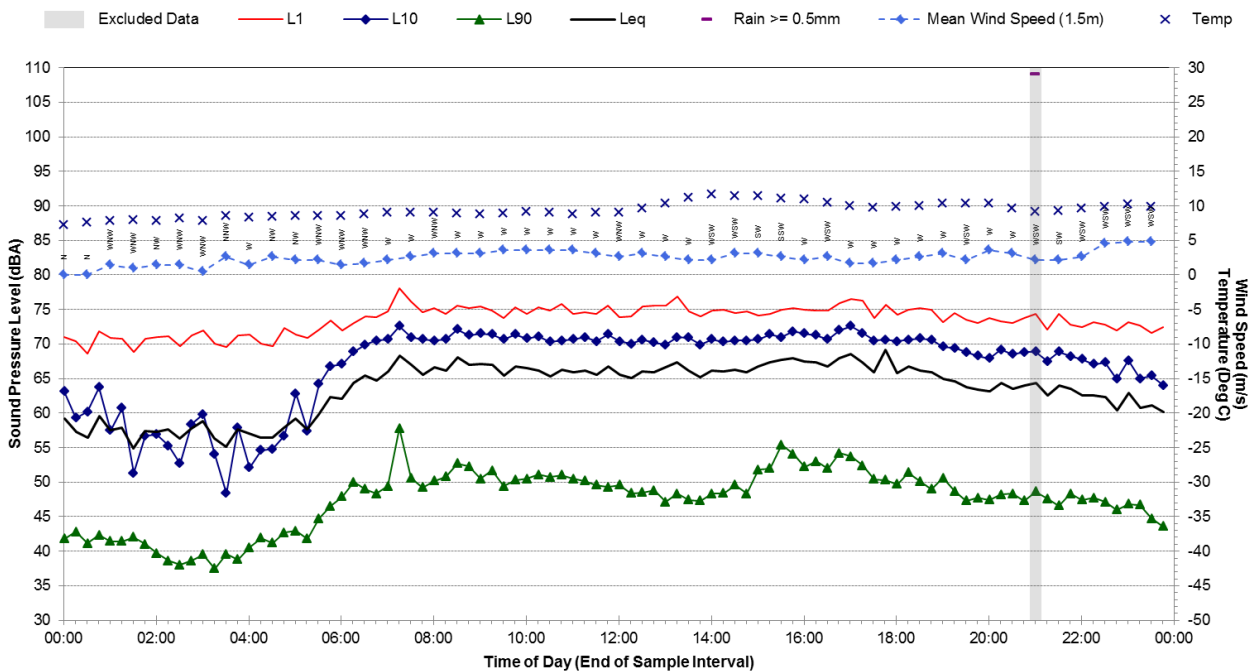
Statistical Ambient Noise Levels

B.18 - Sunday, 26 June 2016



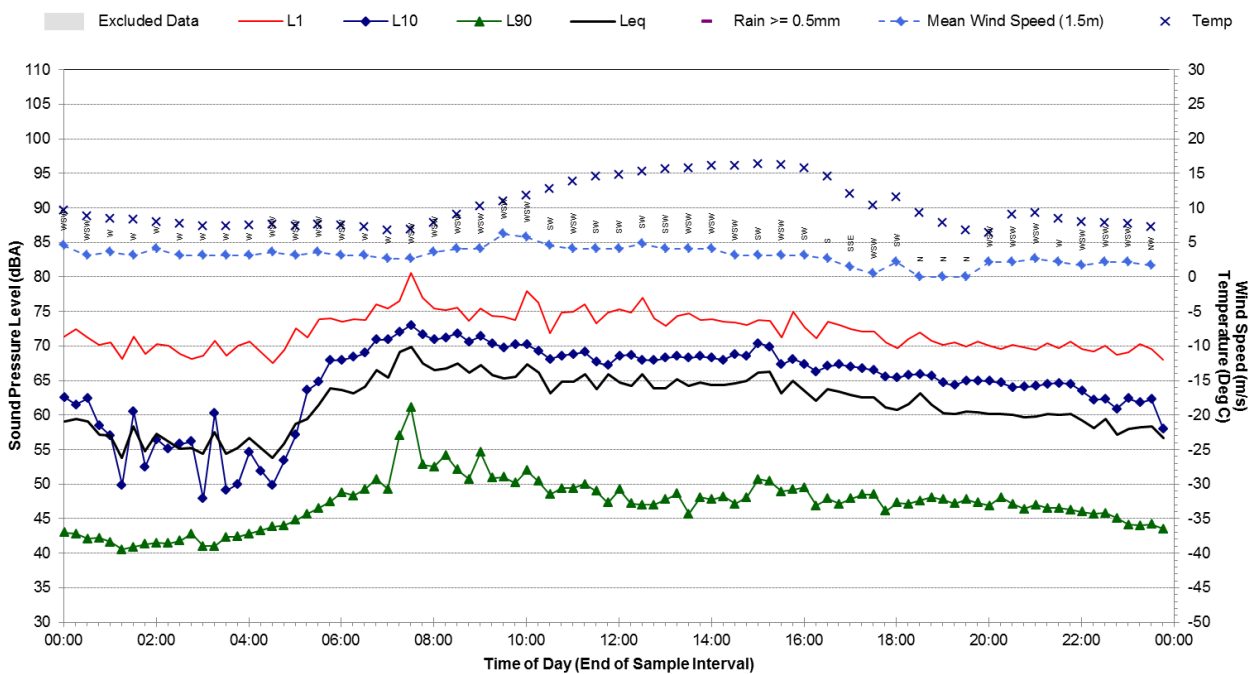
Statistical Ambient Noise Levels

B.18 - Monday, 27 June 2016



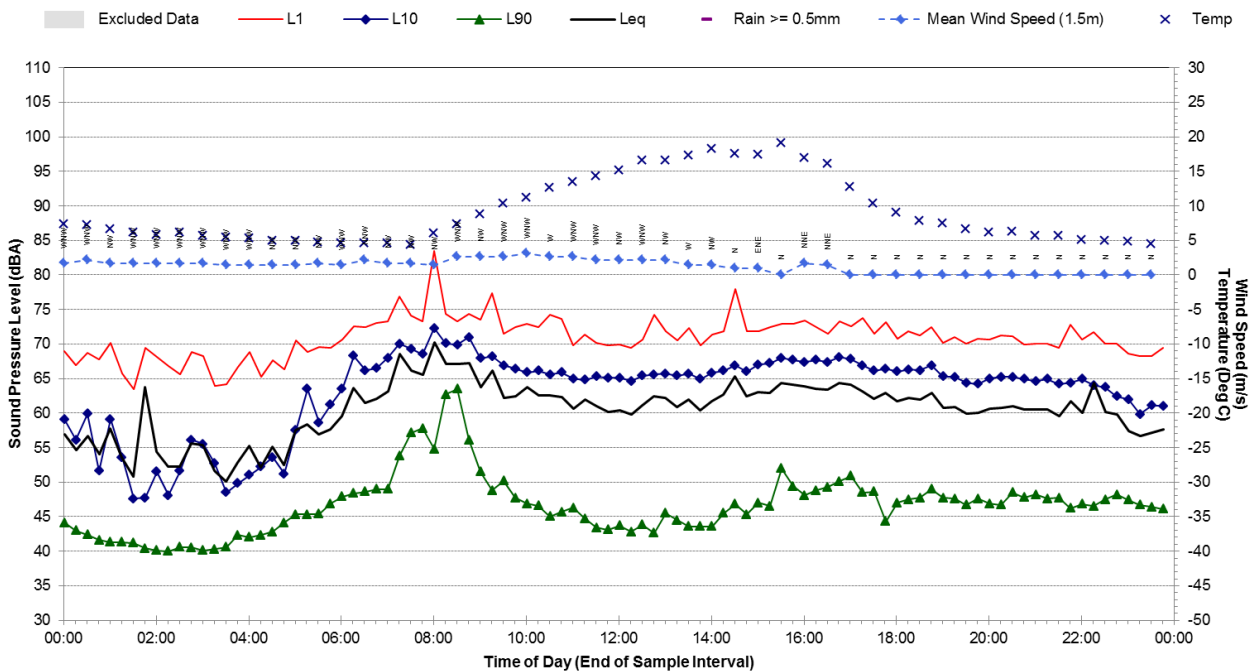
Statistical Ambient Noise Levels

B.18 - Tuesday, 28 June 2016



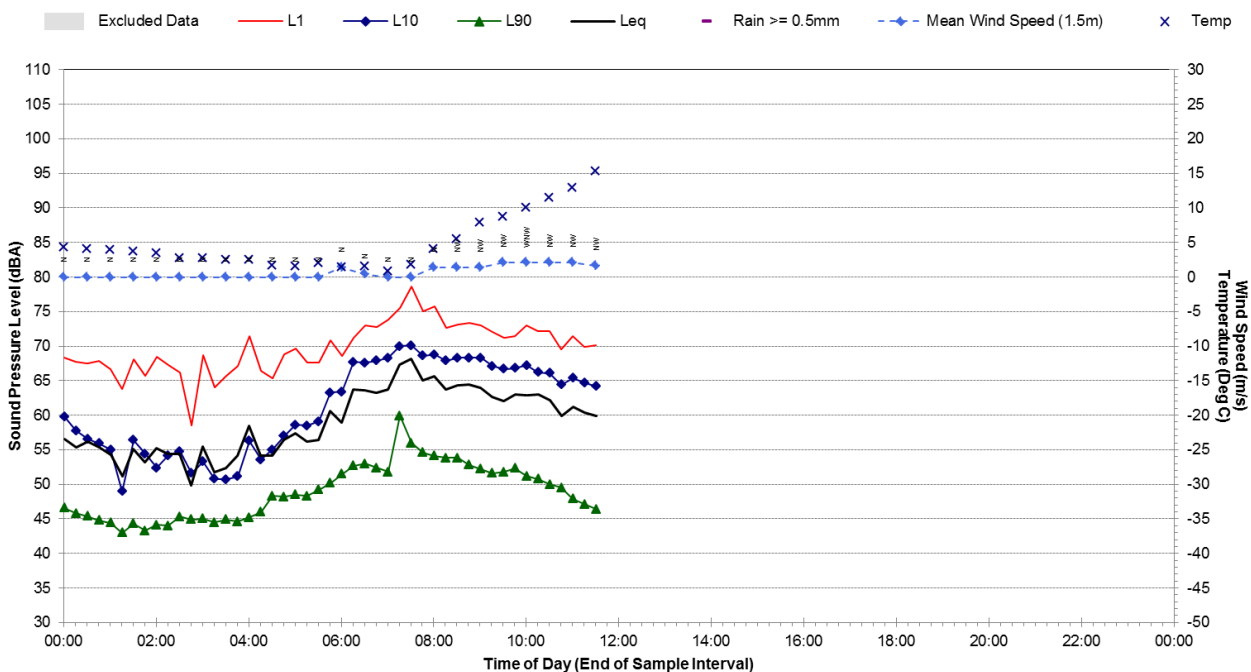
Statistical Ambient Noise Levels

B.18 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.18 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.15

Noise Monitoring Location: B.15	Map of Noise Monitoring Location
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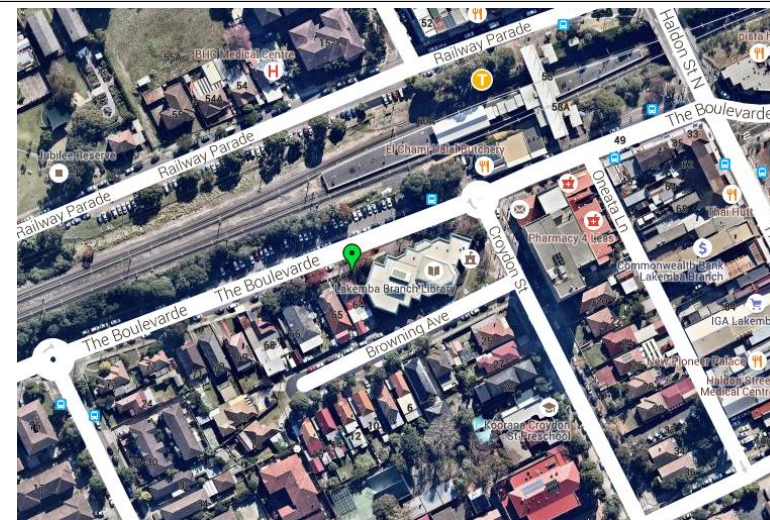
Noise Monitoring Address: 63 The Boulevard, Lakemba 2195	
-----------------------------------------------------------------	--

Logger Device Type: Svantek 957

Logger Serial No: 20665

Ambient noise logger deployed at the north of the residential address 63 The Boulevard, Lakemba and adjacent to Lakemba Branch Library. Logger located in the front garden of the residence. Logger line of sight north over The Boulevard and into the Bankstown Line corridor.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by constant road traffic noise along The Boulevard and aircraft noise. LAeq noise levels at this location were influenced by suburban neighbourhood noise (pedestrians etc), constant local road traffic passbys and rail noise due to the property lying approximately 40m south of the nearest Bankstown Line track and the western end of the Lakemba Station platform.

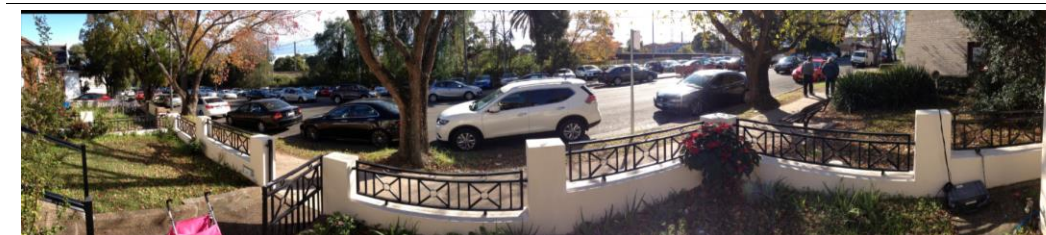


Ambient Noise Logging Results – INP Defined Time Periods	Photo of Noise Monitoring Location
-----------------------------------------------------------------	-------------------------------------------

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	50	63	66	71
Evening	50	64	67	71
Night-time	43	63	66	72

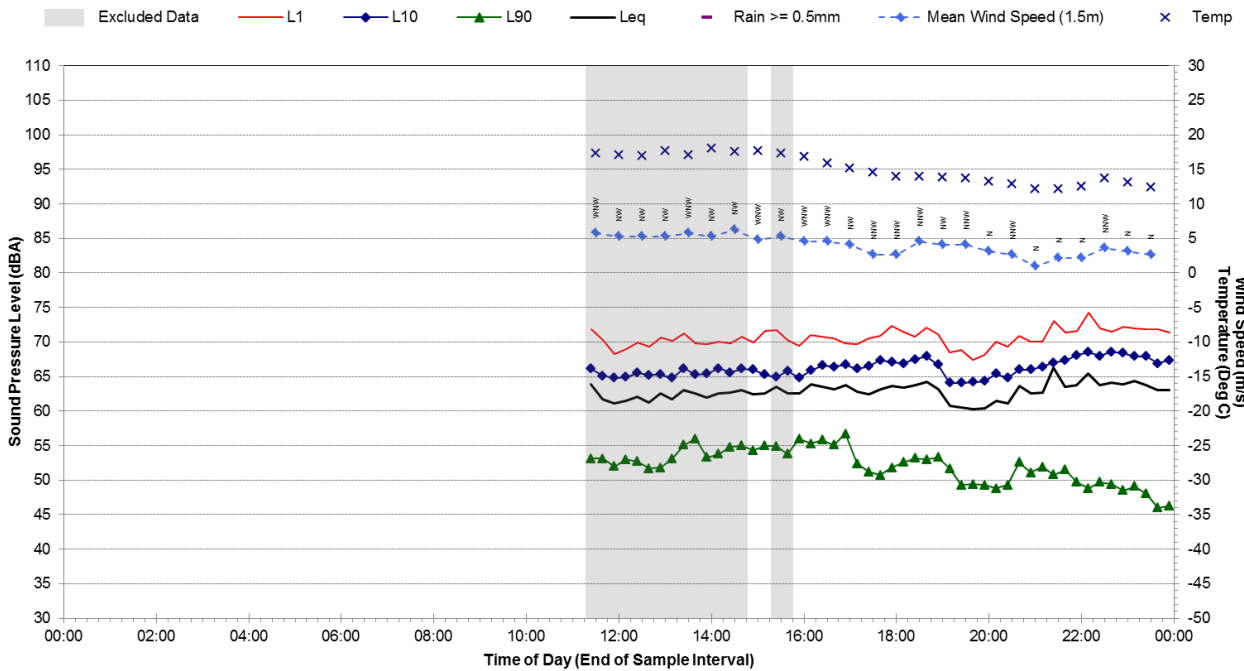
Attended Noise Measurement Results				
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Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	11:09:15	53	63	77



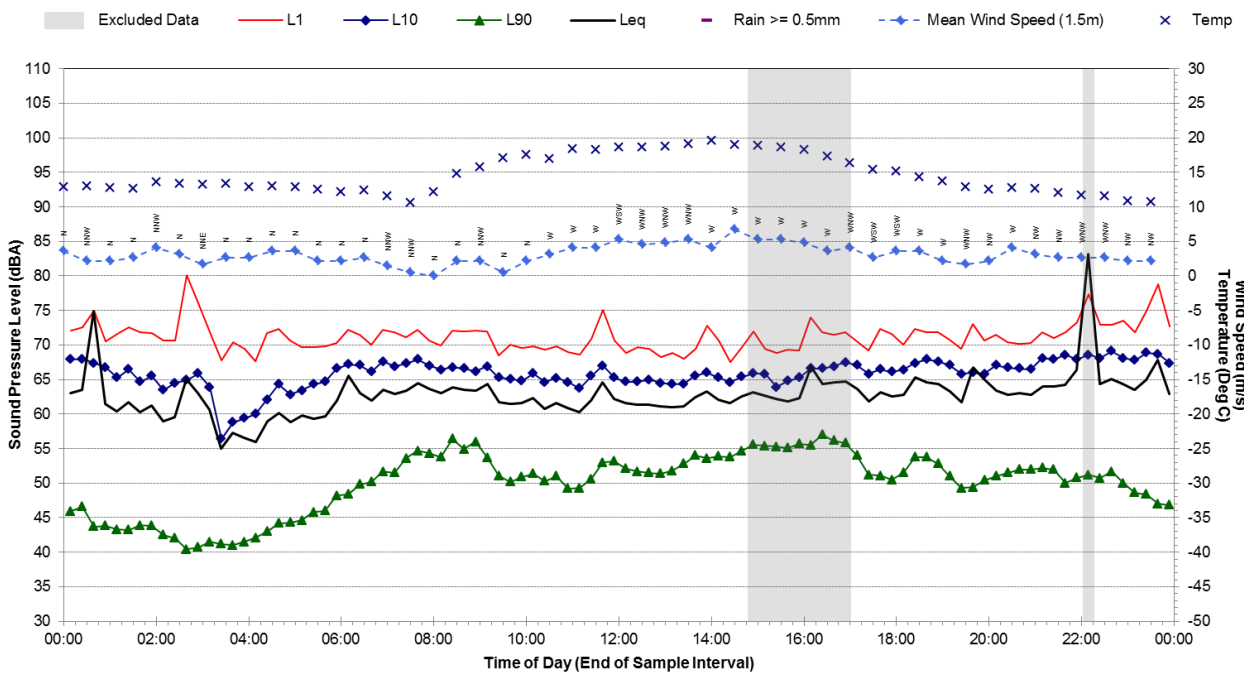
Statistical Ambient Noise Levels

B.19 - Tuesday, 21 June 2016



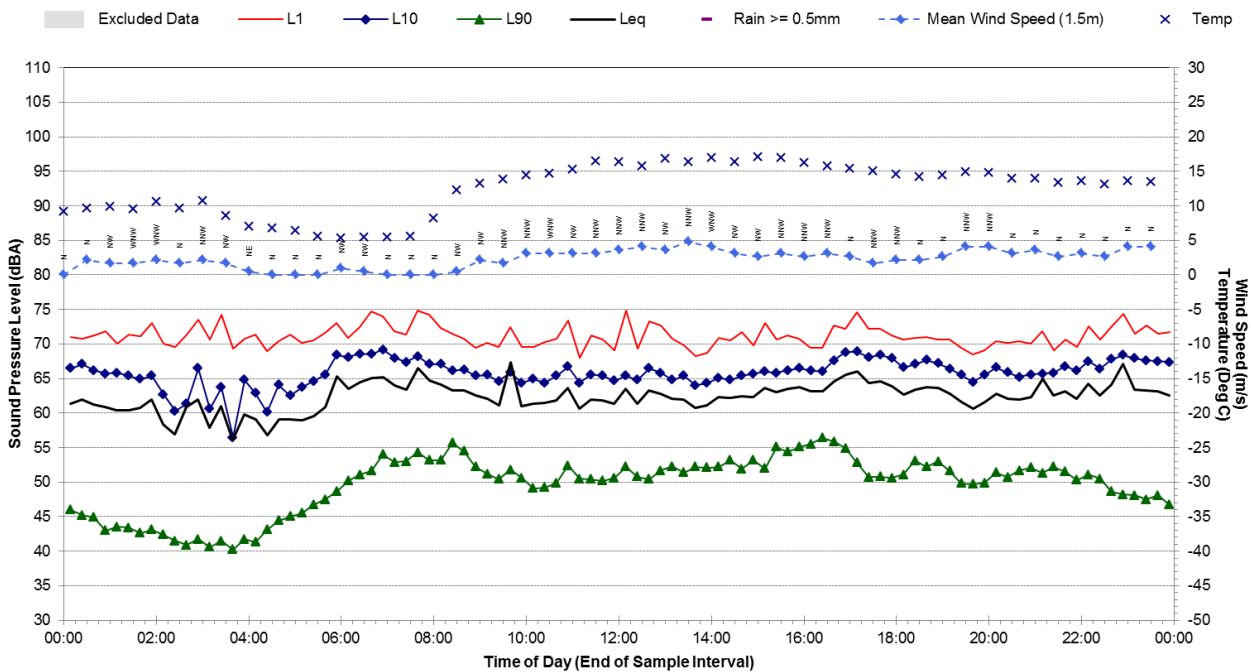
Statistical Ambient Noise Levels

B.19 - Wednesday, 22 June 2016



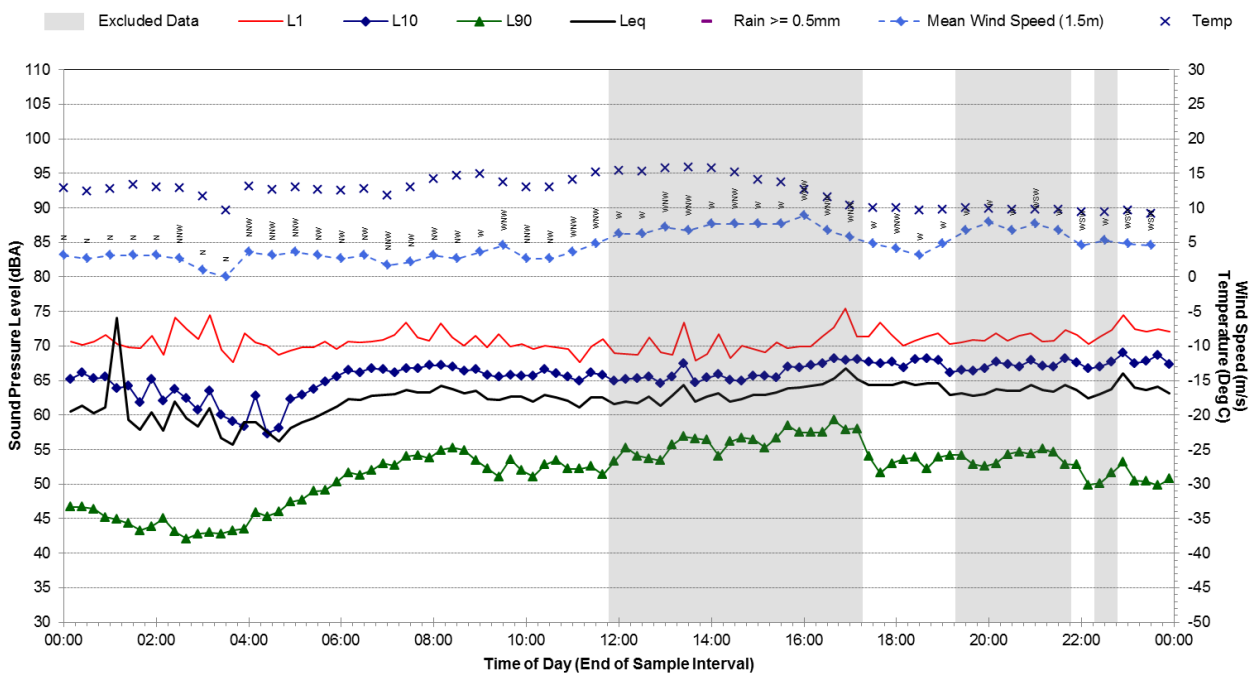
Statistical Ambient Noise Levels

B.19 - Thursday, 23 June 2016



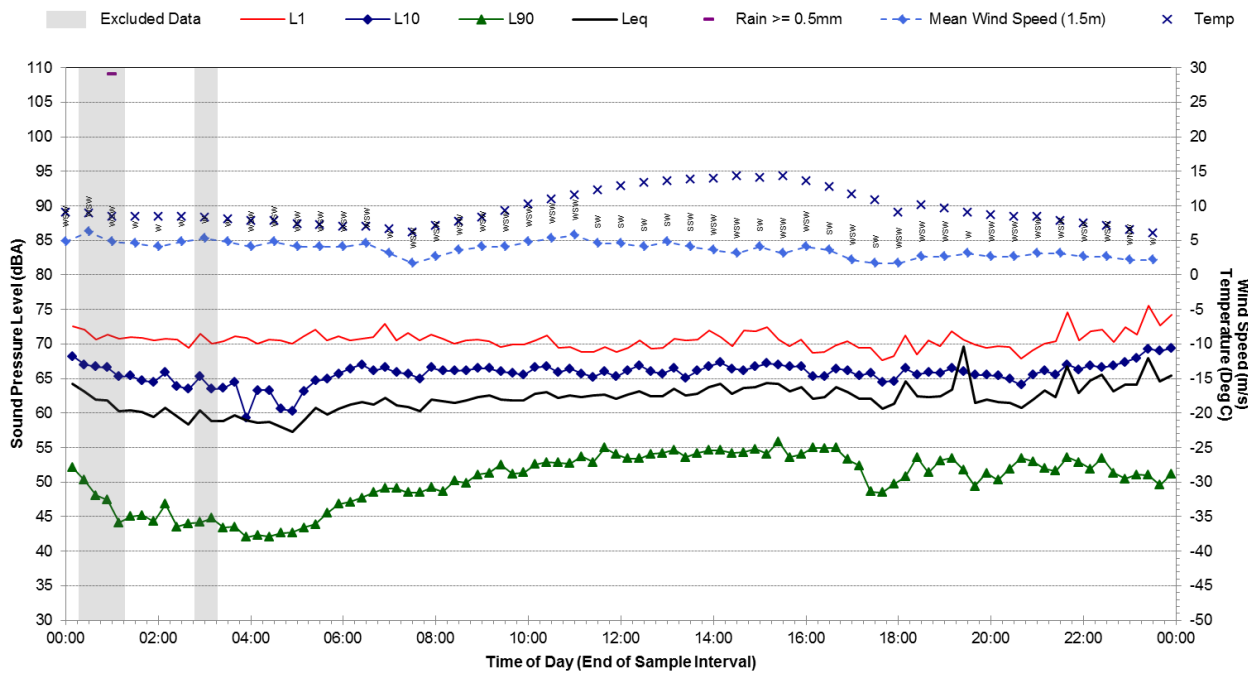
Statistical Ambient Noise Levels

B.19 - Friday, 24 June 2016



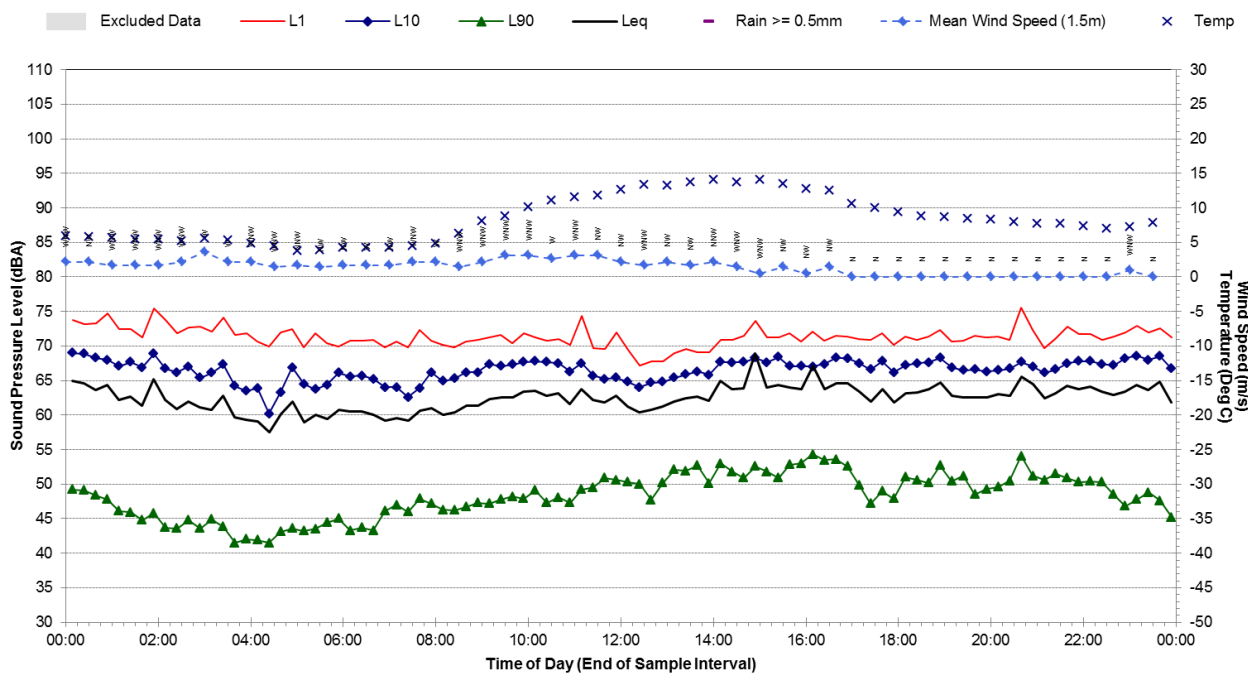
Statistical Ambient Noise Levels

B.19 - Saturday, 25 June 2016



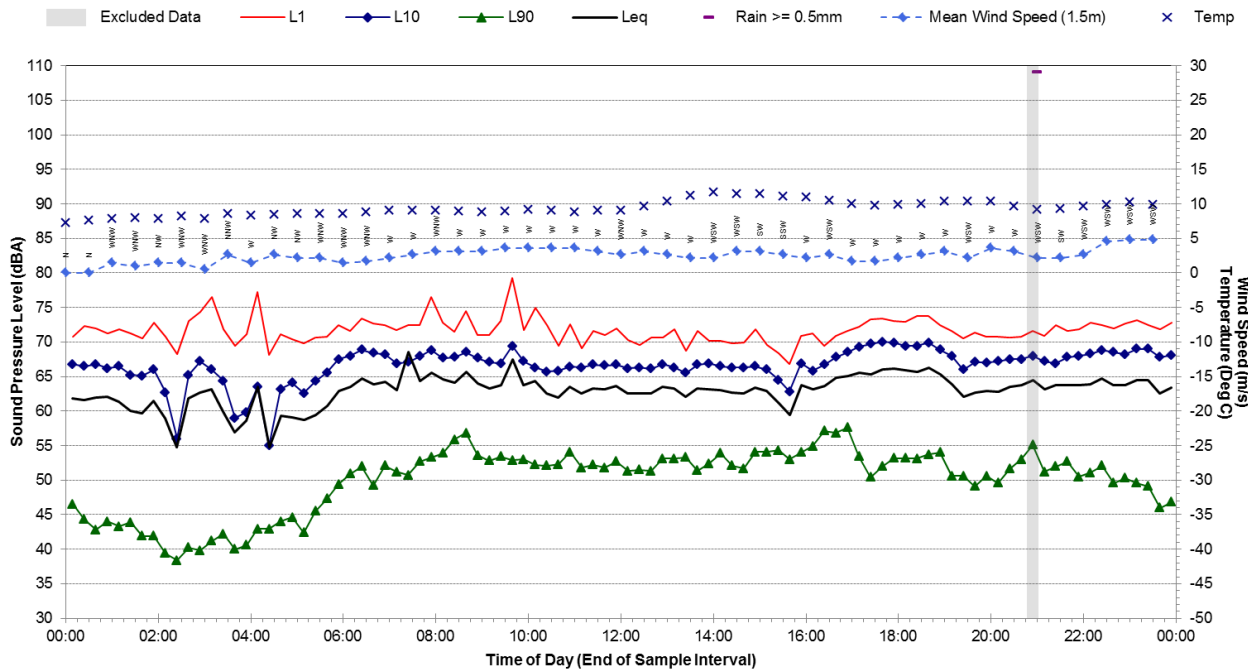
Statistical Ambient Noise Levels

B.19 - Sunday, 26 June 2016



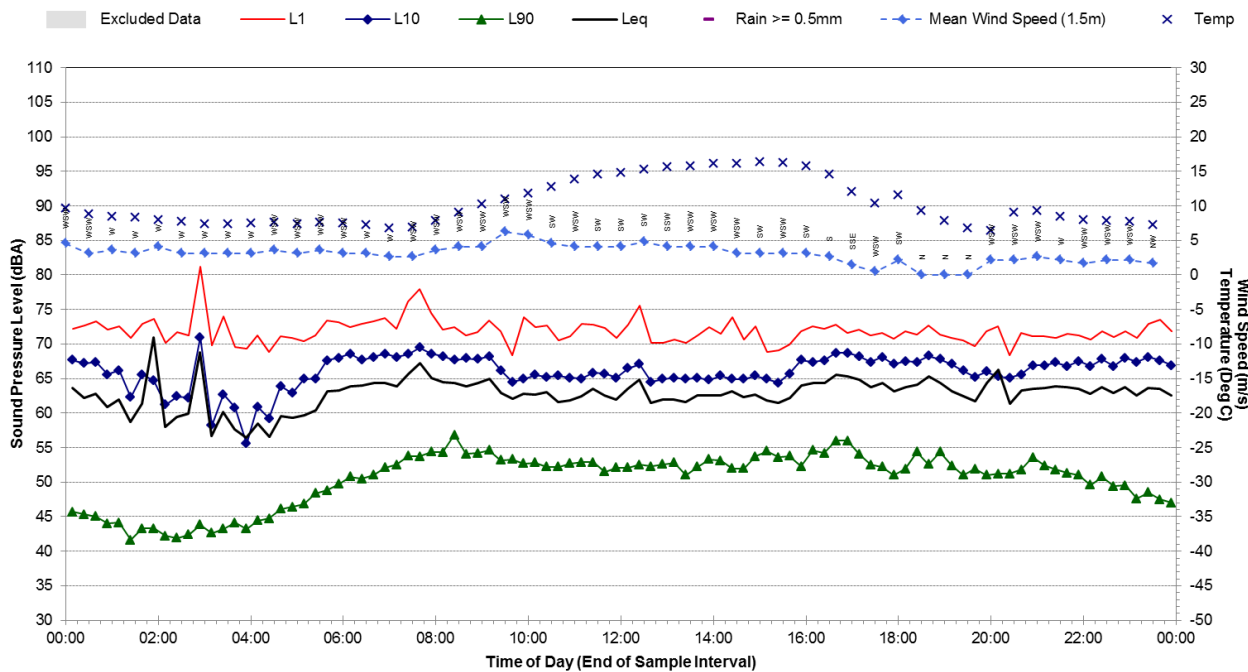
Statistical Ambient Noise Levels

B.19 - Monday, 27 June 2016



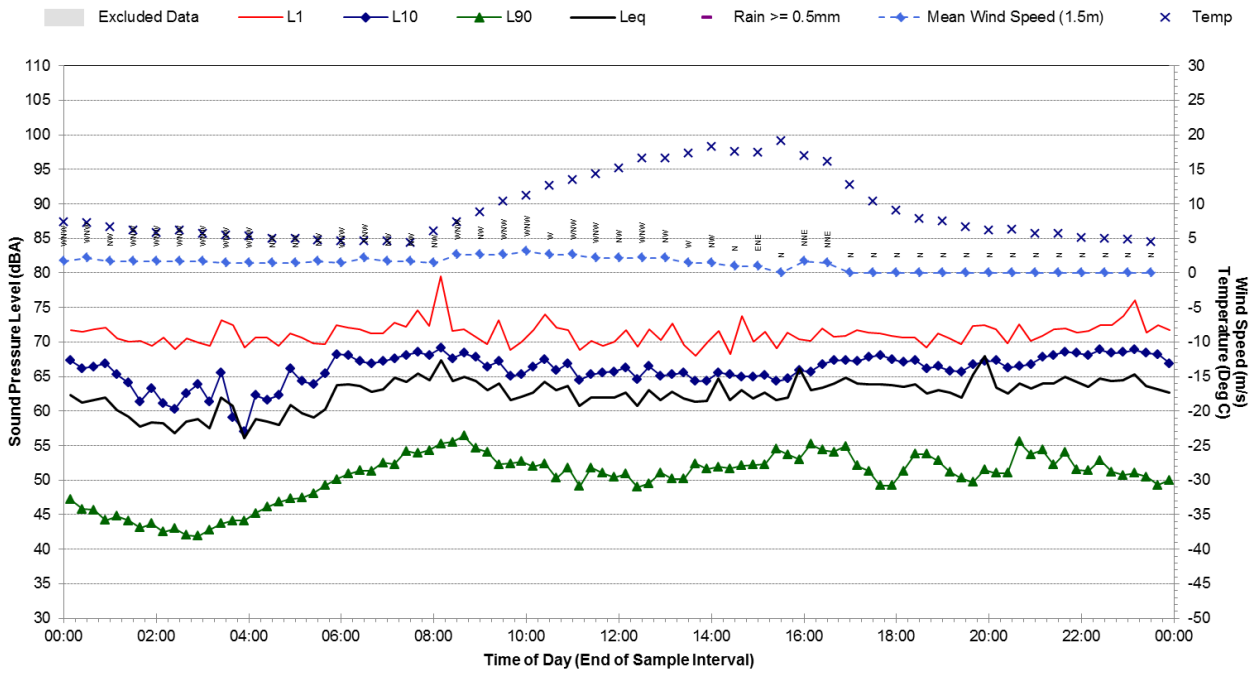
Statistical Ambient Noise Levels

B.19 - Tuesday, 28 June 2016



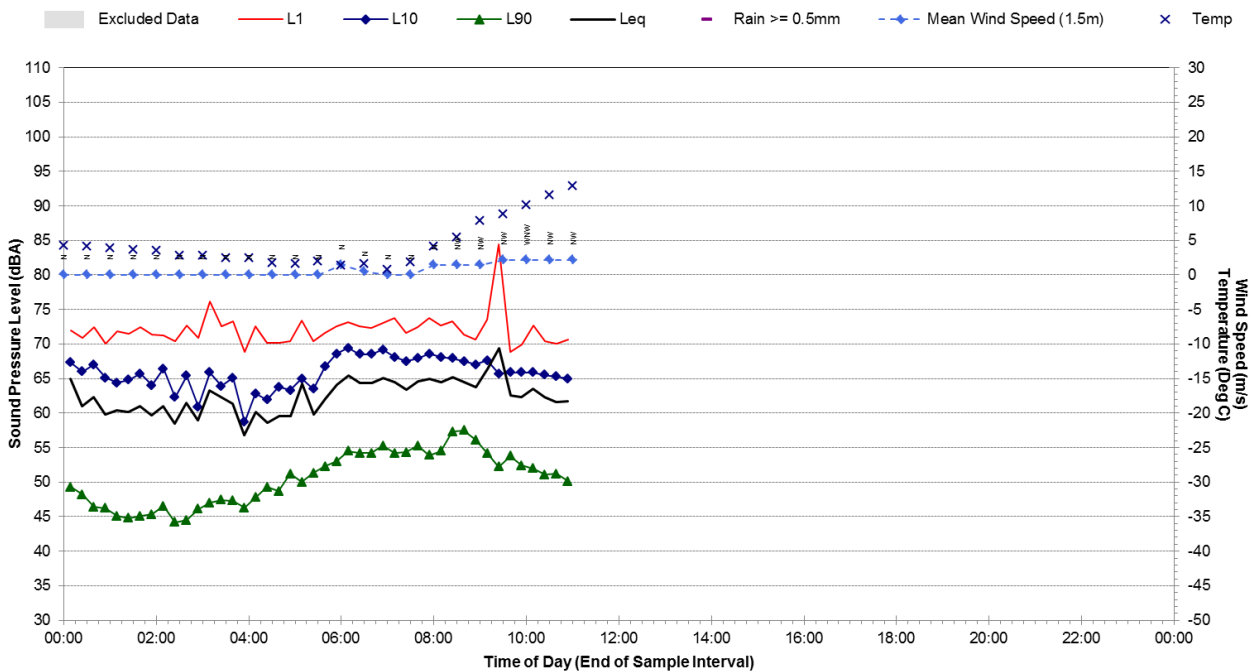
Statistical Ambient Noise Levels

B.19 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.19 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.16

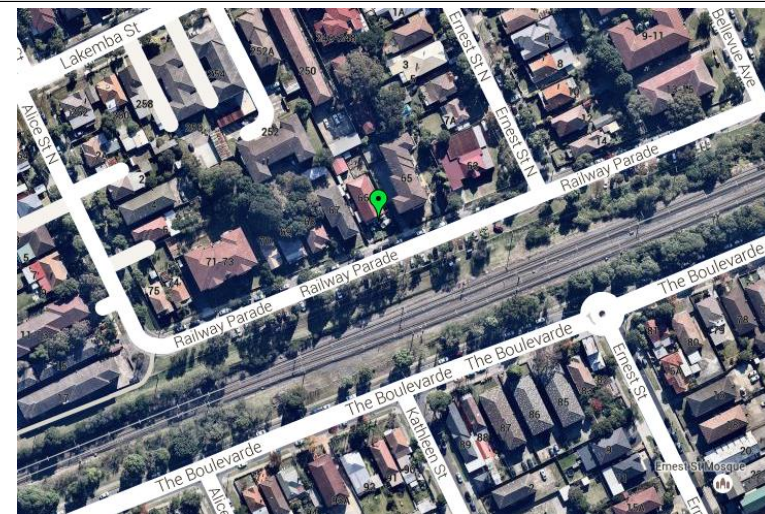
Noise Monitoring Location: B.16 **Map of Noise Monitoring Location**

Noise Monitoring Address: 66 Railway Parade, Lakemba 2195

Logger Device Type: Svantek 957
 Logger Serial No: 27580

Ambient noise logger deployed at the south of the residential address 66 Railway Parade, Lakemba. Logger located beside the steps leading up to the entrance landing of the residence. Logger line of sight south over Railway Parade and into the Bankstown Line corridor.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by both distant and immediate road traffic noise along Railway Parade and aircraft noise. Similarly, LAeq noise levels at this location were influenced by constant local road traffic passby noise, though also by rail noise due to the property lying approximately 45m north of the nearest Bankstown Line track.



Ambient Noise Logging Results – INP Defined Time Periods **Photo of Noise Monitoring Location**

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	44	56	55	69
Evening	44	55	53	69
Night-time	36	51	49	60

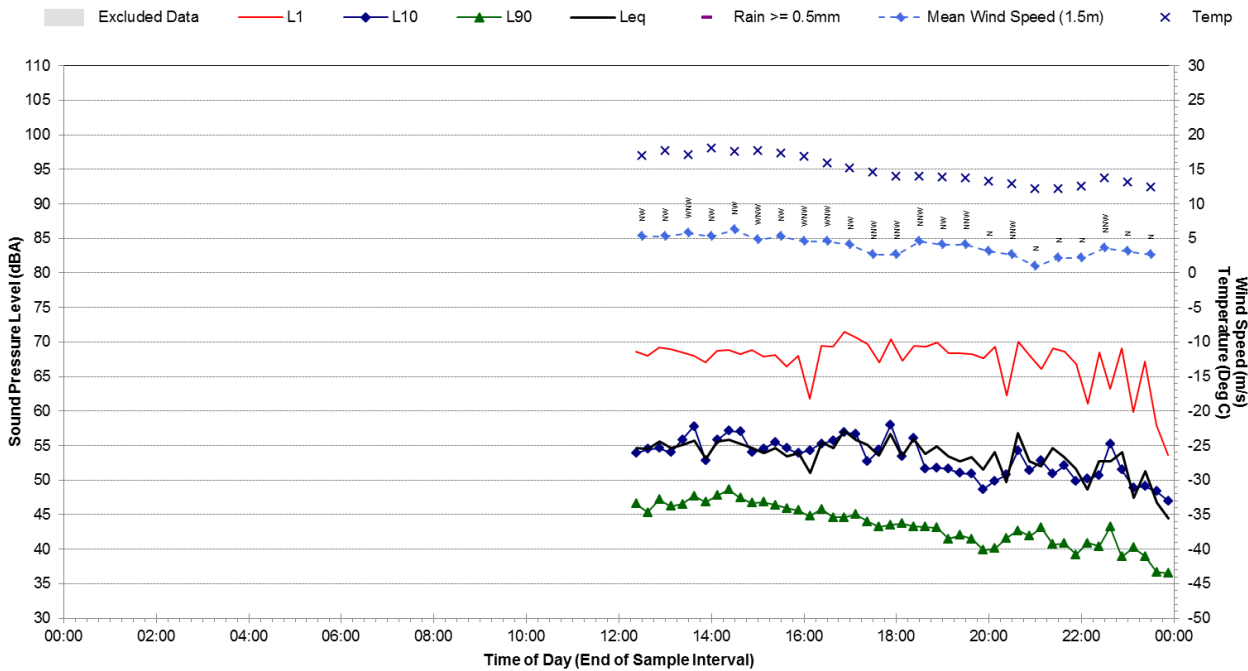
Attended Noise Measurement Results

Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	11:53:05	48	58	75



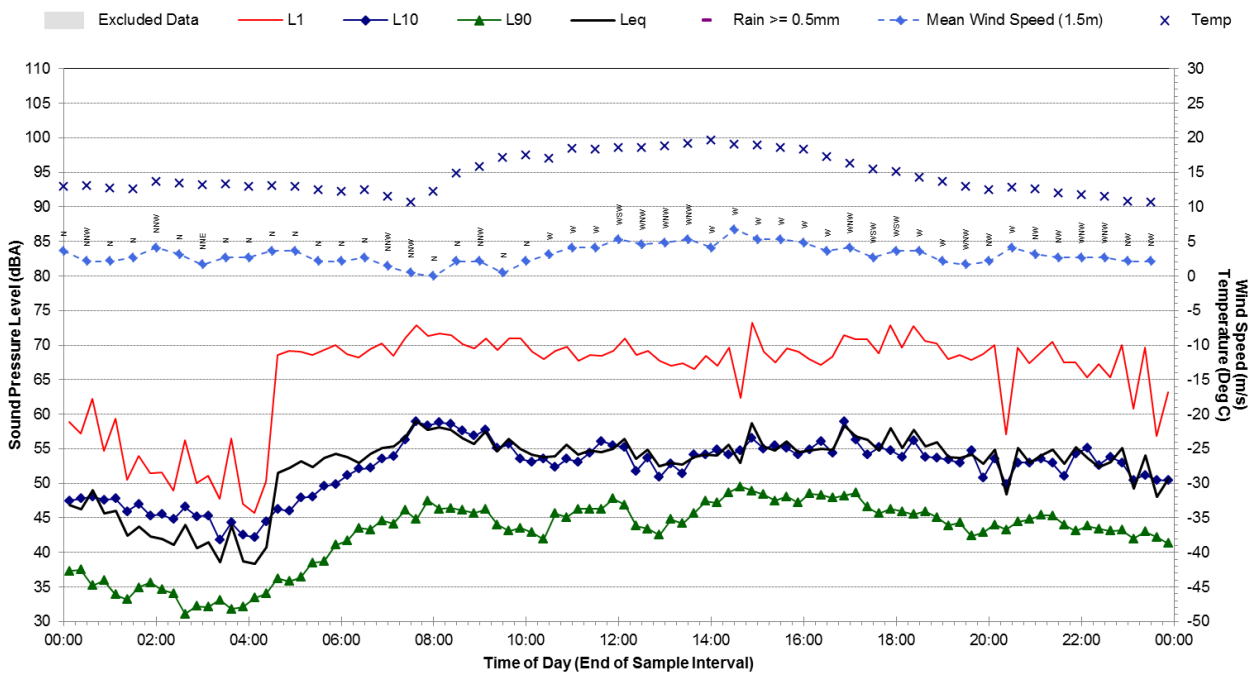
Statistical Ambient Noise Levels

B.20 - Tuesday, 21 June 2016



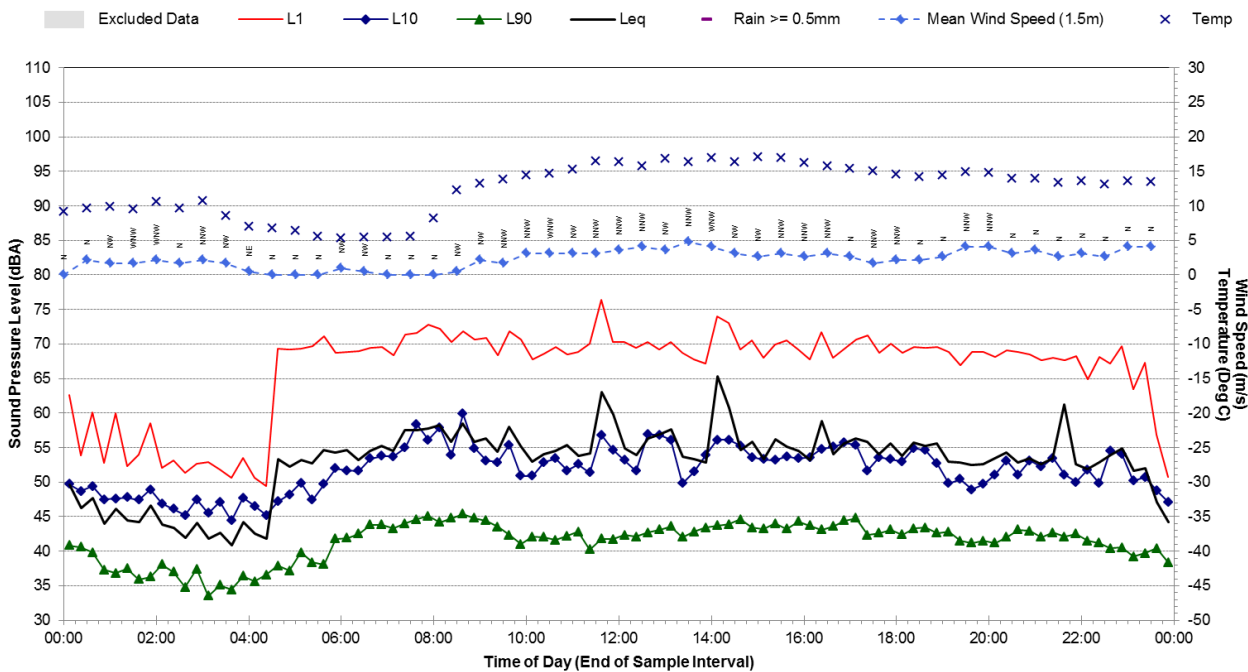
Statistical Ambient Noise Levels

B.20 - Wednesday, 22 June 2016



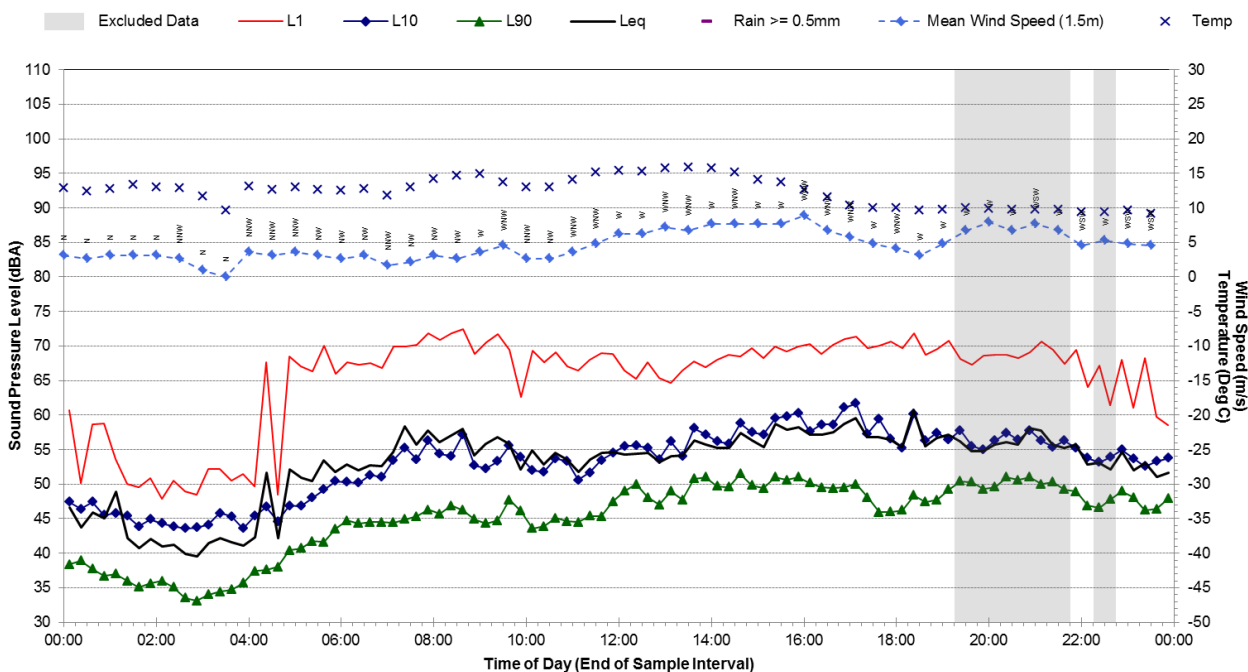
Statistical Ambient Noise Levels

B.20 - Thursday, 23 June 2016



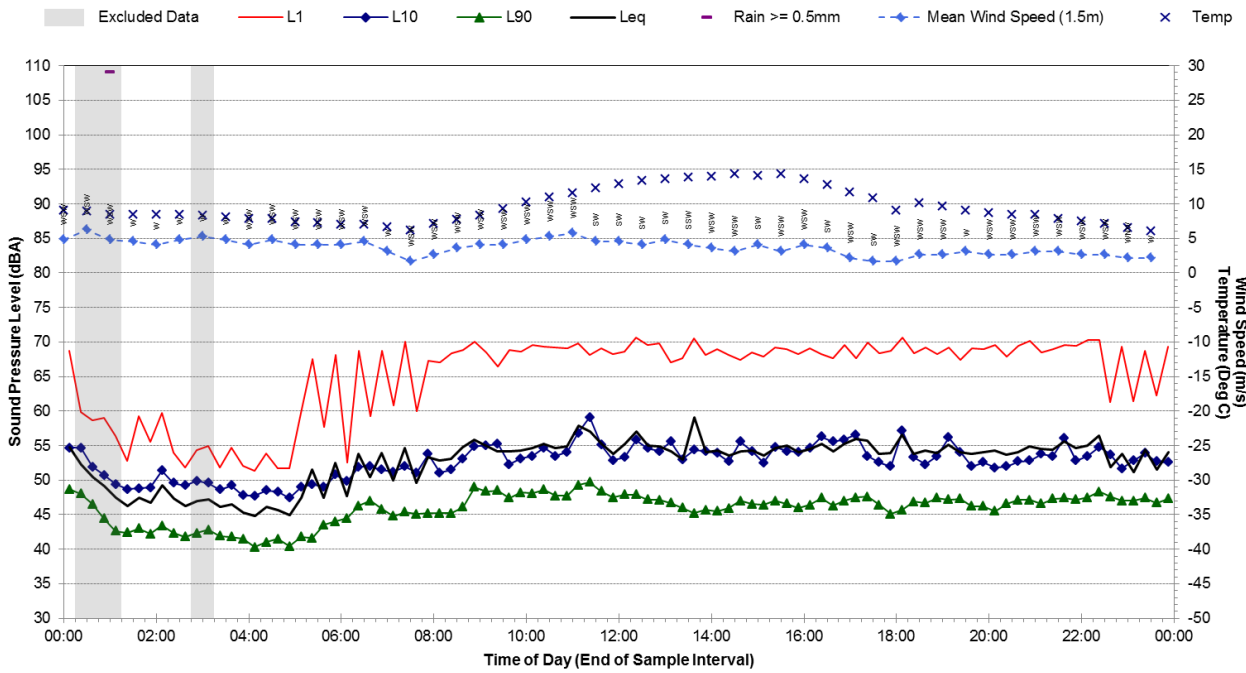
Statistical Ambient Noise Levels

B.20 - Friday, 24 June 2016



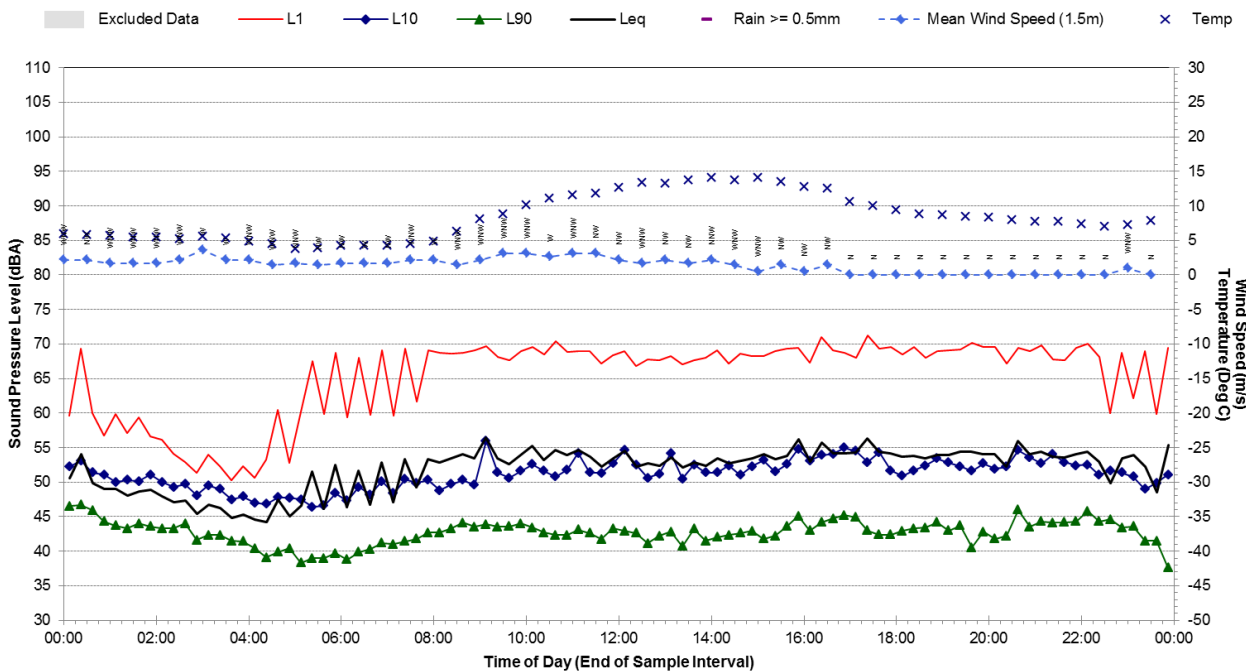
Statistical Ambient Noise Levels

B.20 - Saturday, 25 June 2016



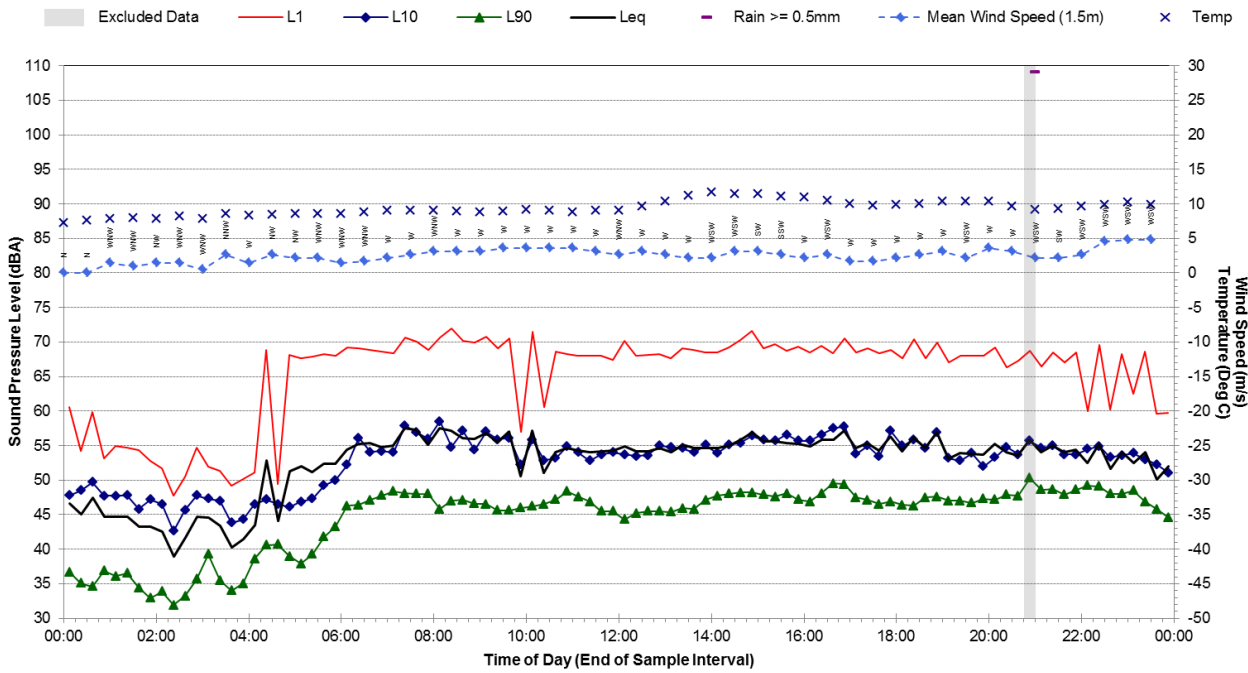
Statistical Ambient Noise Levels

B.20 - Sunday, 26 June 2016



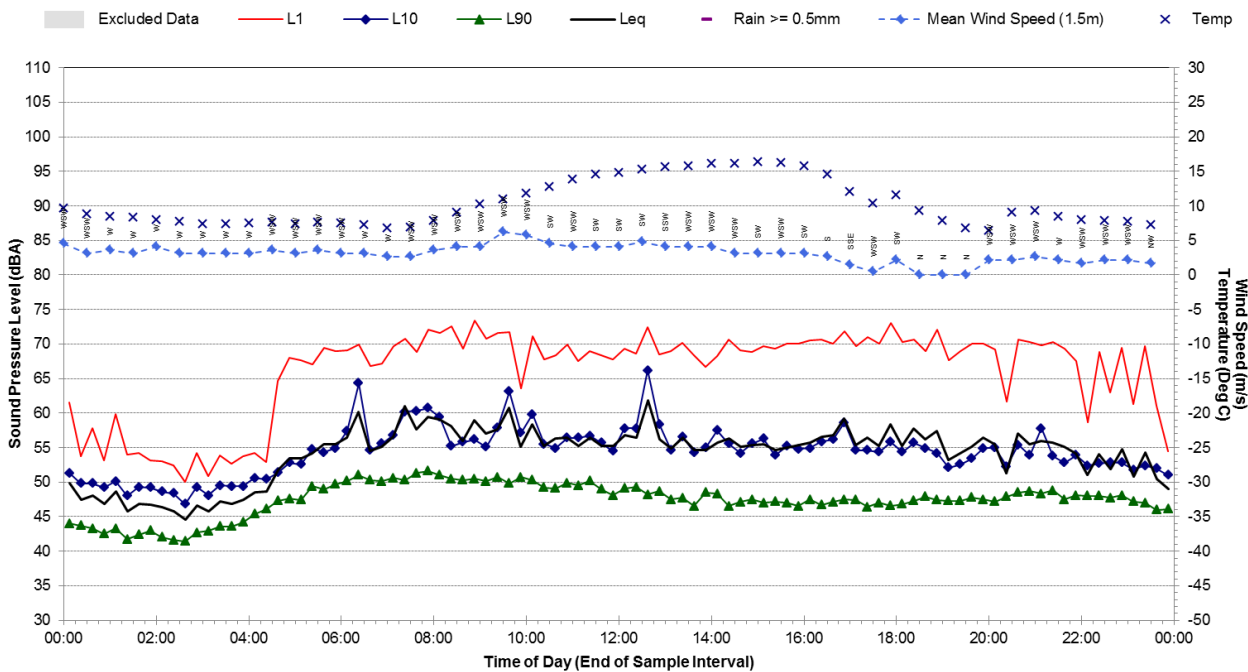
Statistical Ambient Noise Levels

B.20 - Monday, 27 June 2016



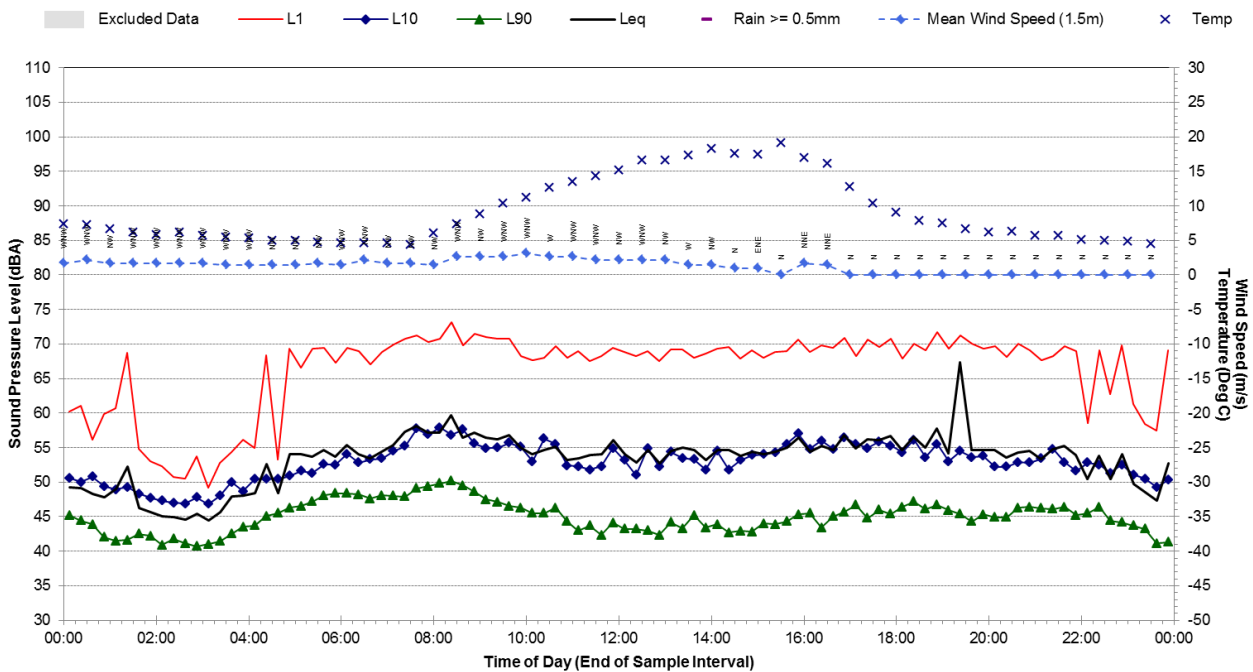
Statistical Ambient Noise Levels

B.20 - Tuesday, 28 June 2016



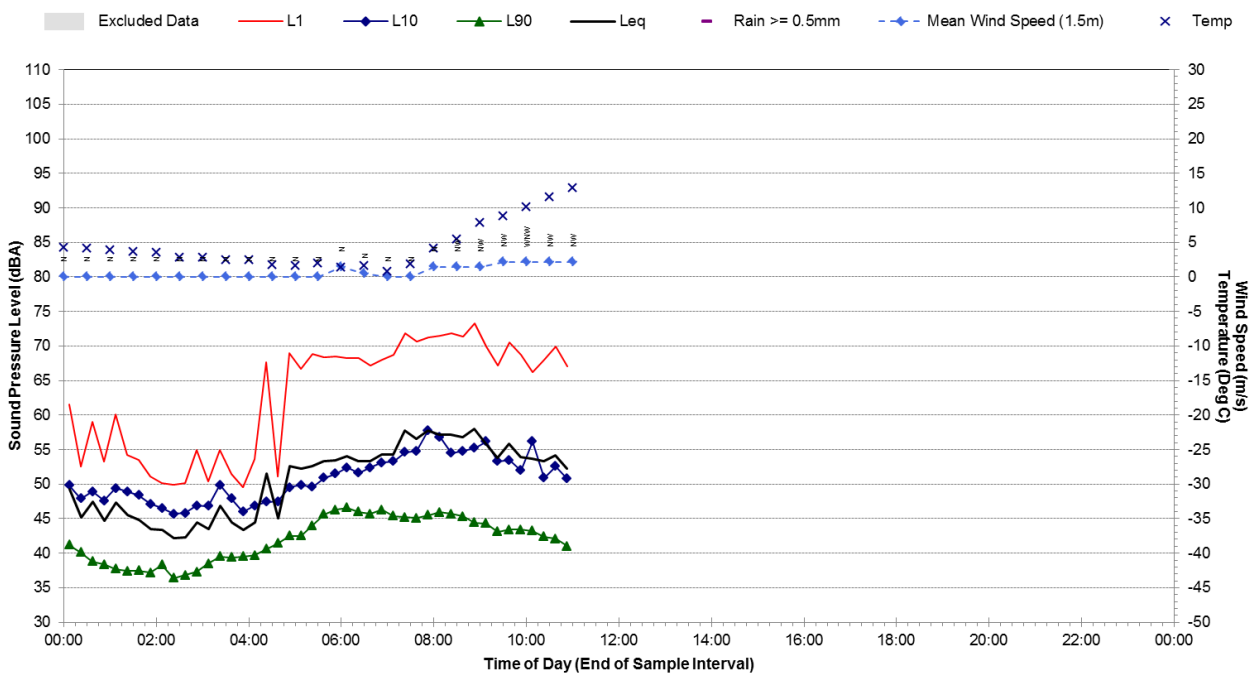
Statistical Ambient Noise Levels

B.20 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.20 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.17

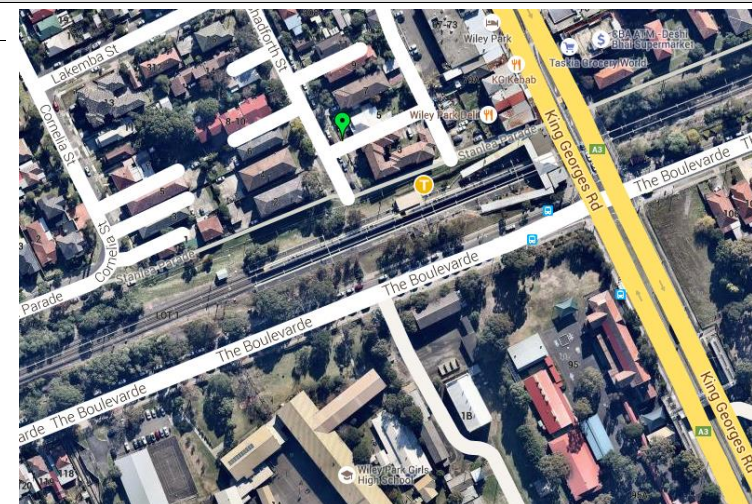
Noise Monitoring Location: B.17
Noise Monitoring Address: 5 Shadforth Street, Wiley Park 2195

Logger Device Type: Svantek 957
 Logger Serial No: 20668

Ambient noise logger deployed at the west of the residential address 5 Shadforth Street, Wiley Park. Logger located just inside the property boundary and beside both neighbouring and front fences.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by both distant road traffic and construction noise and aircraft noise. LAeq noise levels at this location were influenced by intermittent local road traffic passby noise and suburban neighbourhood noise (guard's whistle, station announcement etc), and also by rail noise due to the property lying approximately 50m north of the nearest Bankstown Line track.

Map of Noise Monitoring Location



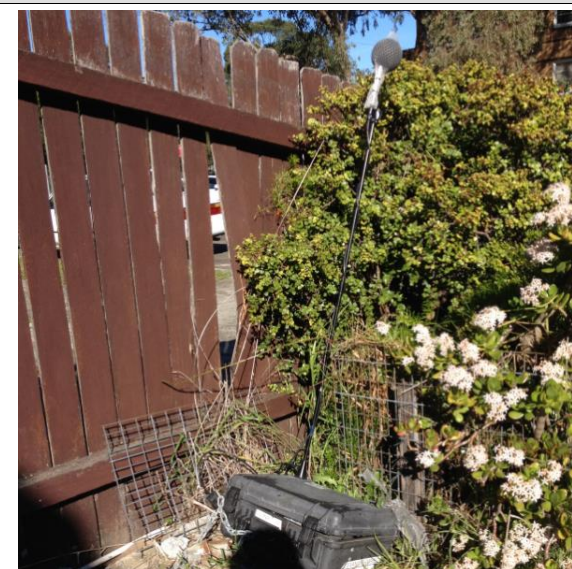
Ambient Noise Logging Results – INP Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	44	52	53	59
Evening	46	51	52	58
Night-time	41	49	49	54

Attended Noise Measurement Results

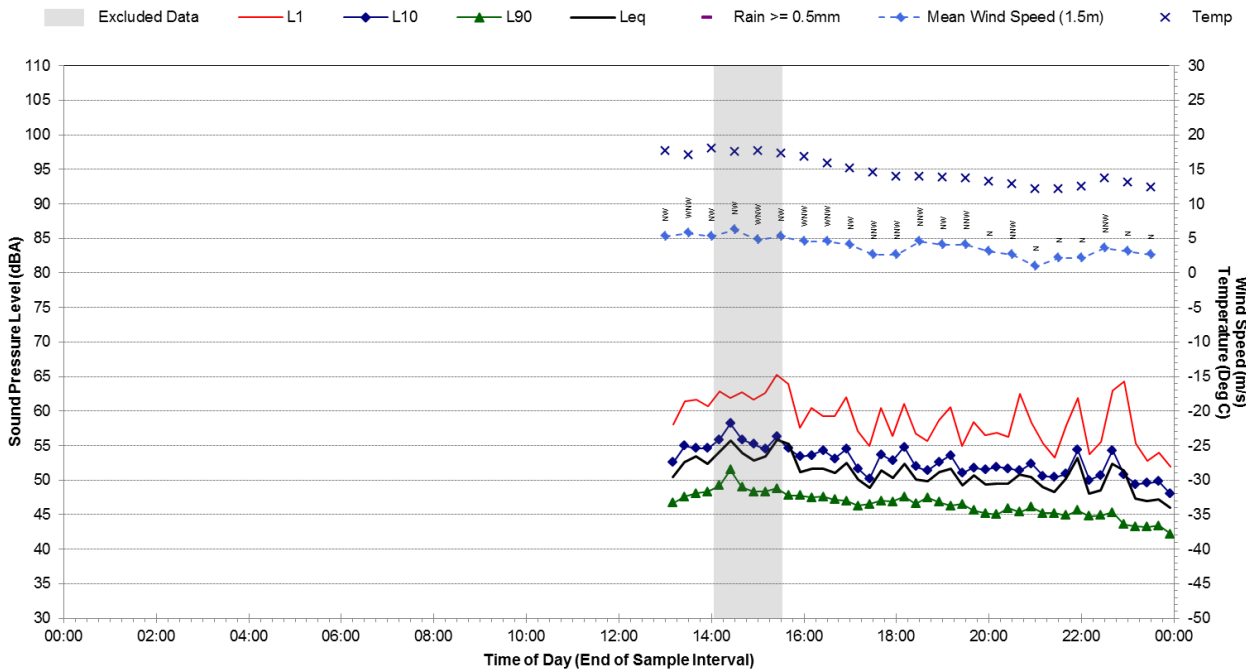
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	12:42:14	49	53	78

Photo of Noise Monitoring Location



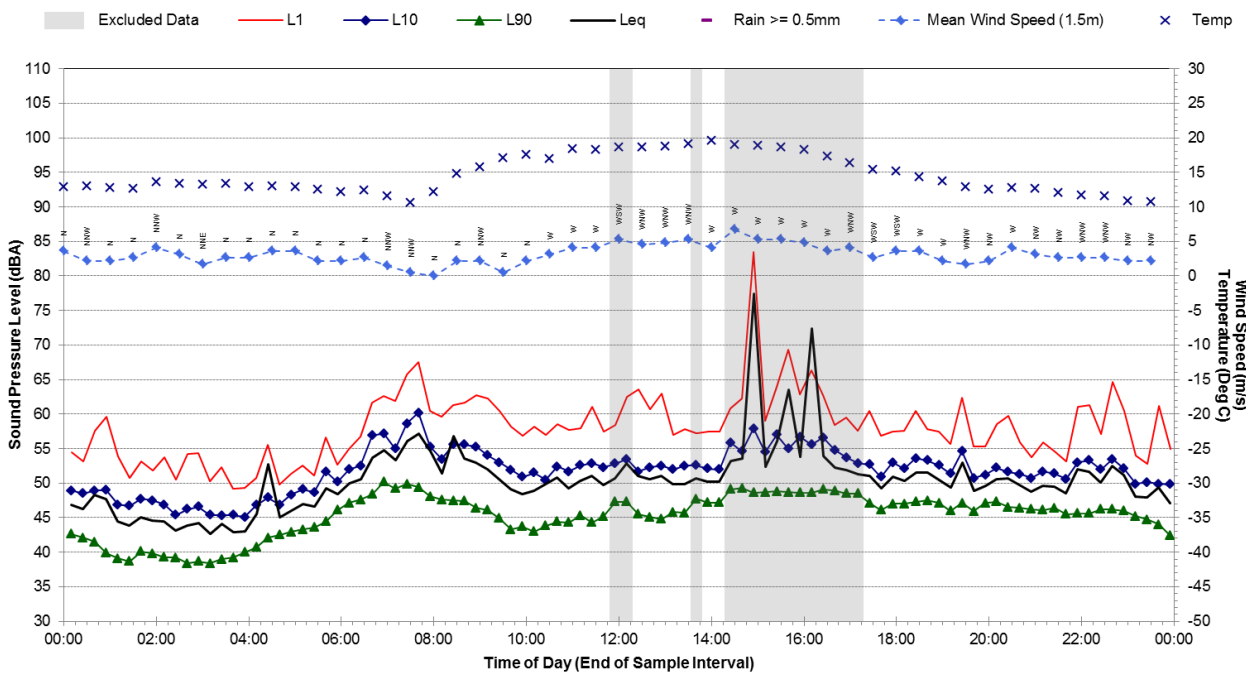
Statistical Ambient Noise Levels

B.21 - Tuesday, 21 June 2016



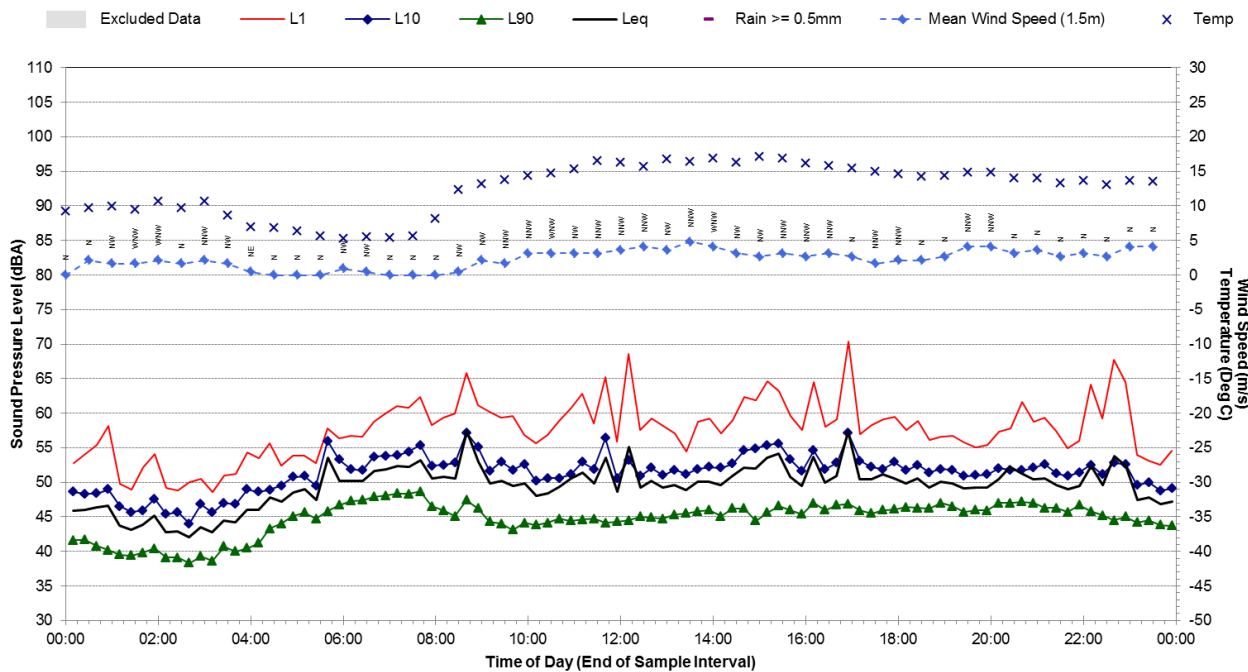
Statistical Ambient Noise Levels

B.21 - Wednesday, 22 June 2016



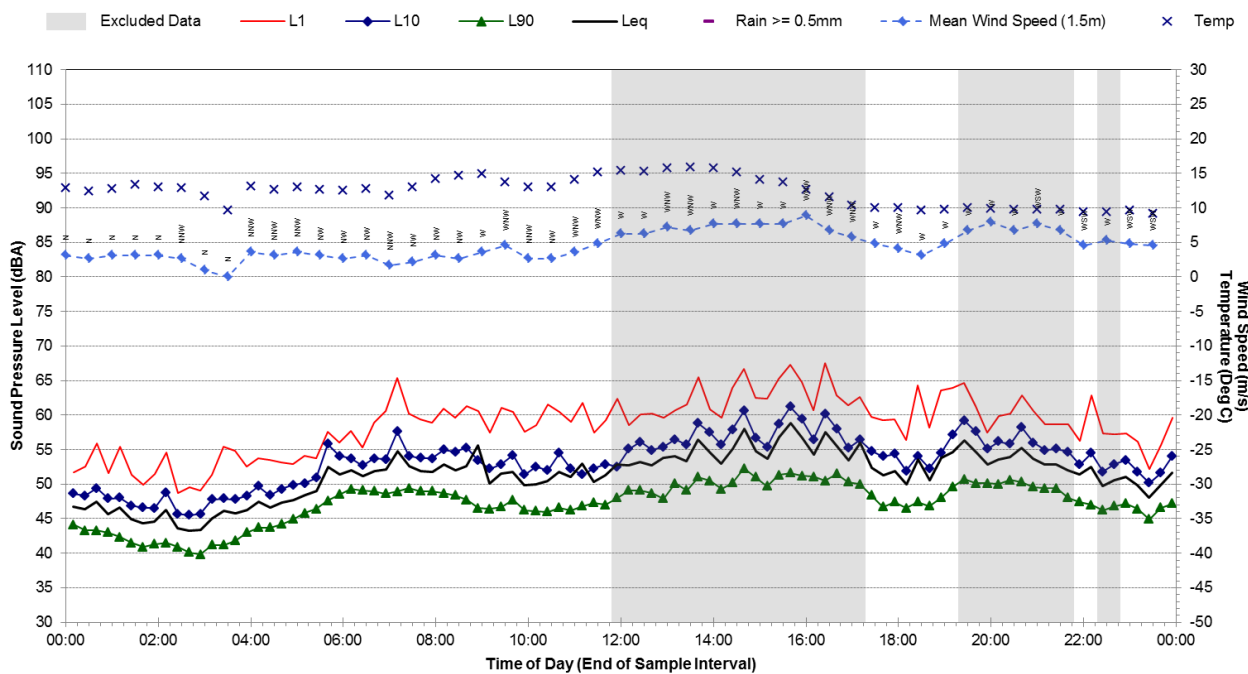
Statistical Ambient Noise Levels

B.21 - Thursday, 23 June 2016



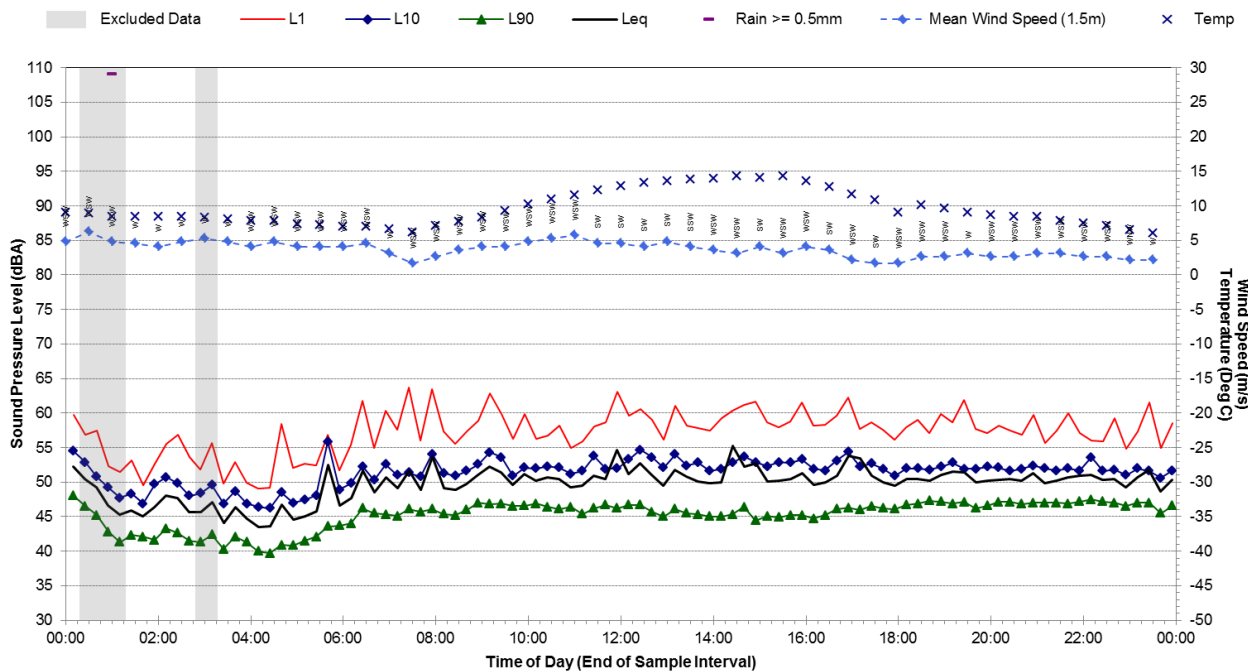
Statistical Ambient Noise Levels

B.21 - Friday, 24 June 2016



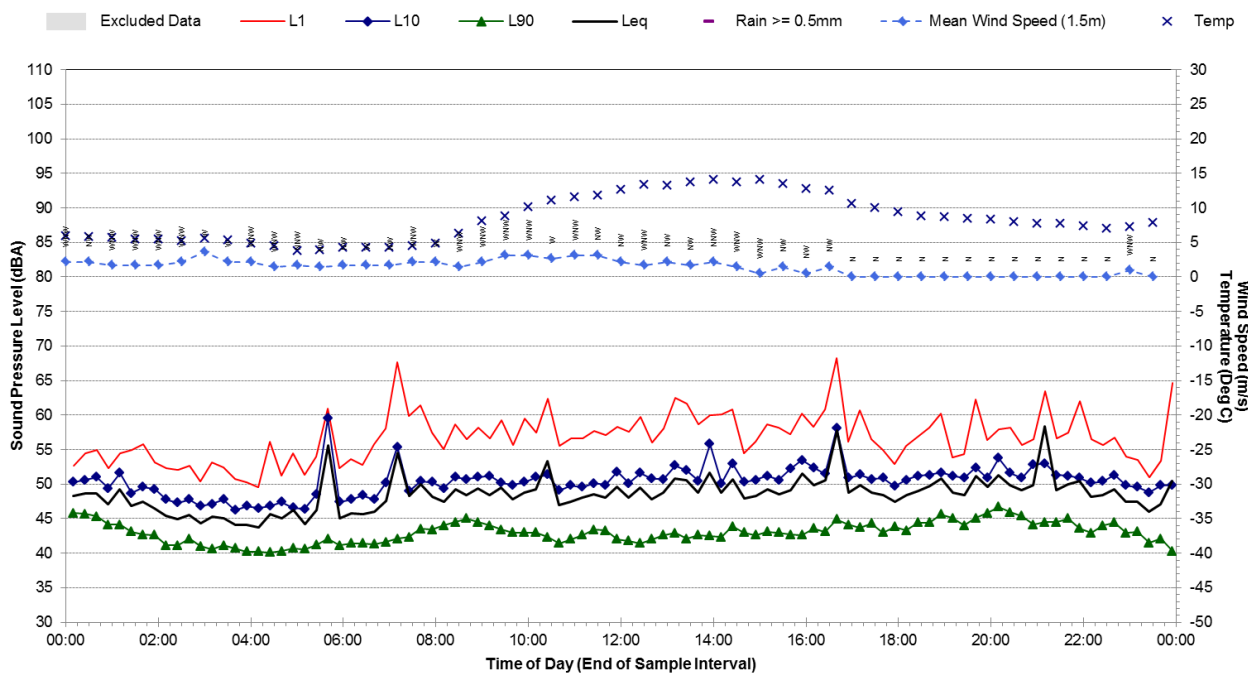
Statistical Ambient Noise Levels

B.21 - Saturday, 25 June 2016



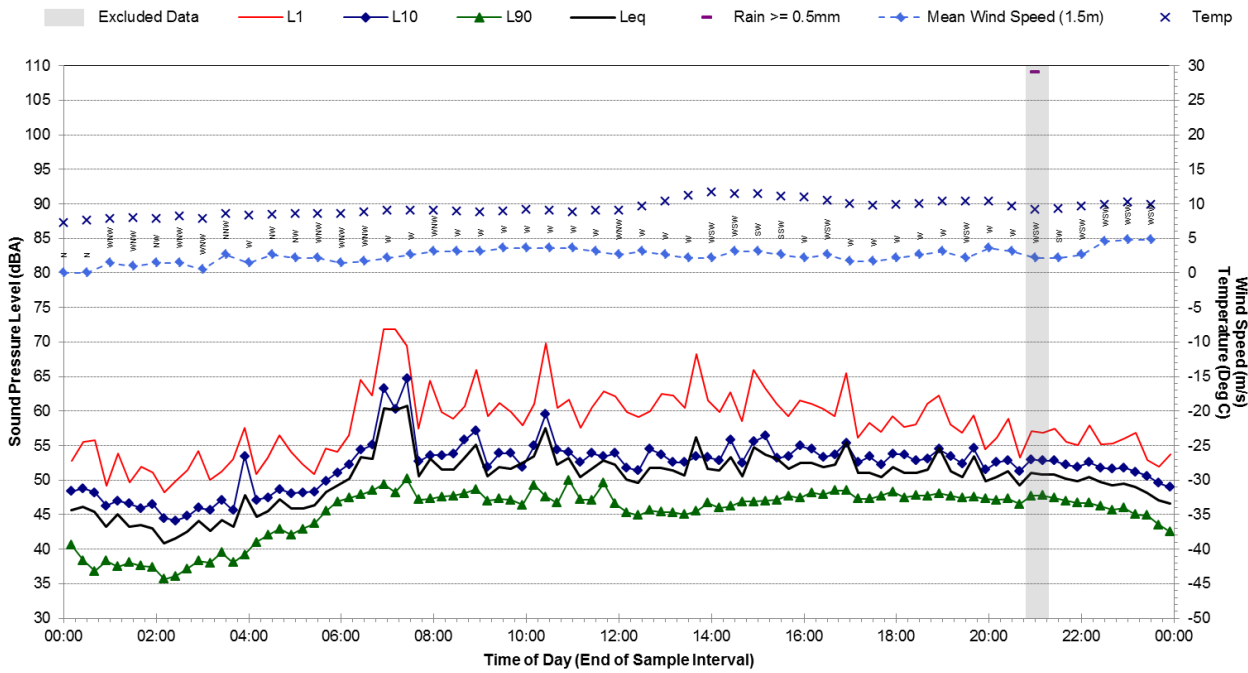
Statistical Ambient Noise Levels

B.21 - Sunday, 26 June 2016



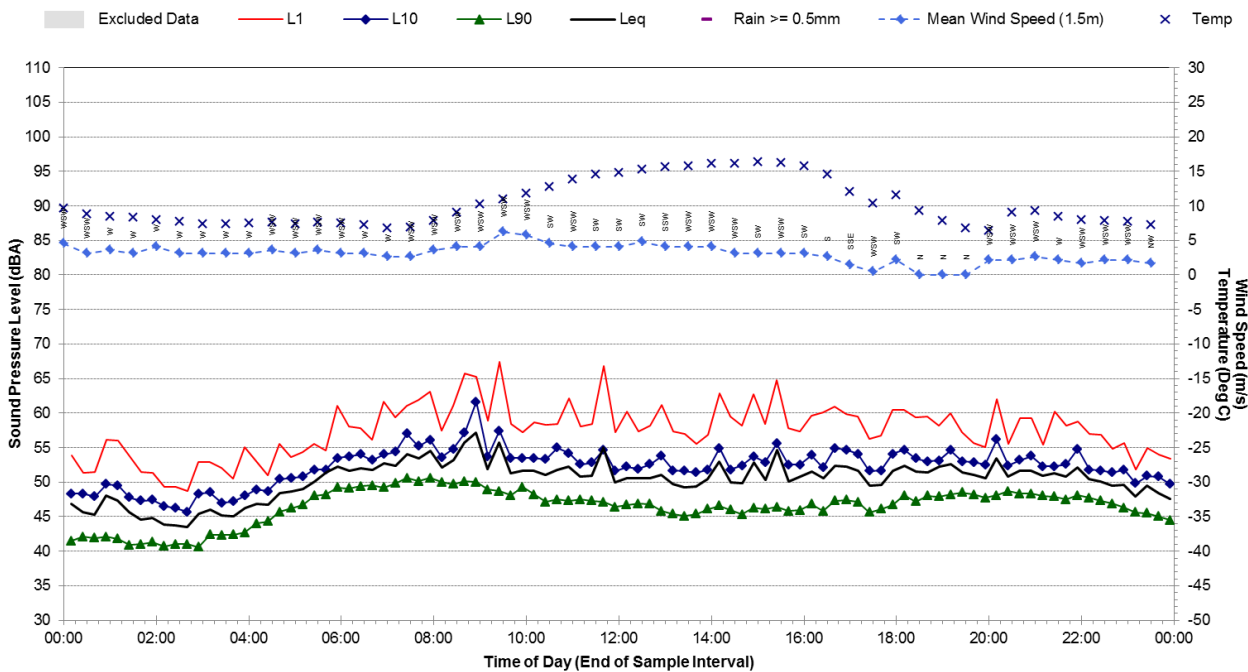
Statistical Ambient Noise Levels

B.21 - Monday, 27 June 2016



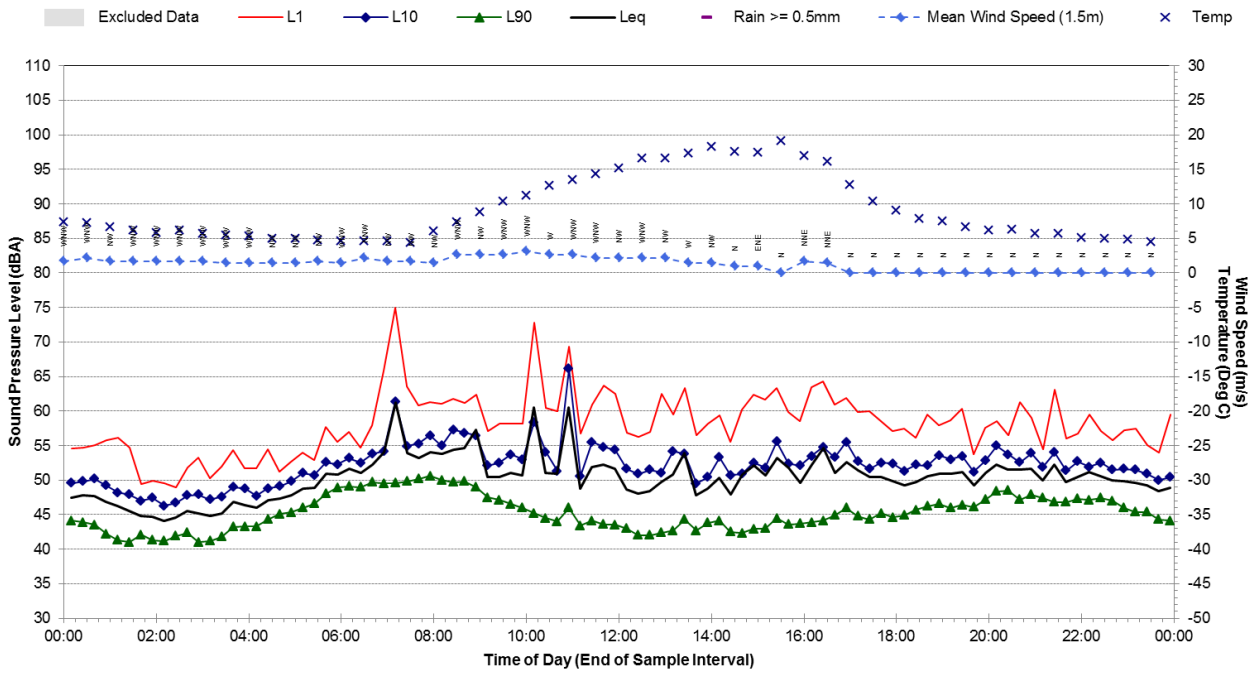
Statistical Ambient Noise Levels

B.21 - Tuesday, 28 June 2016



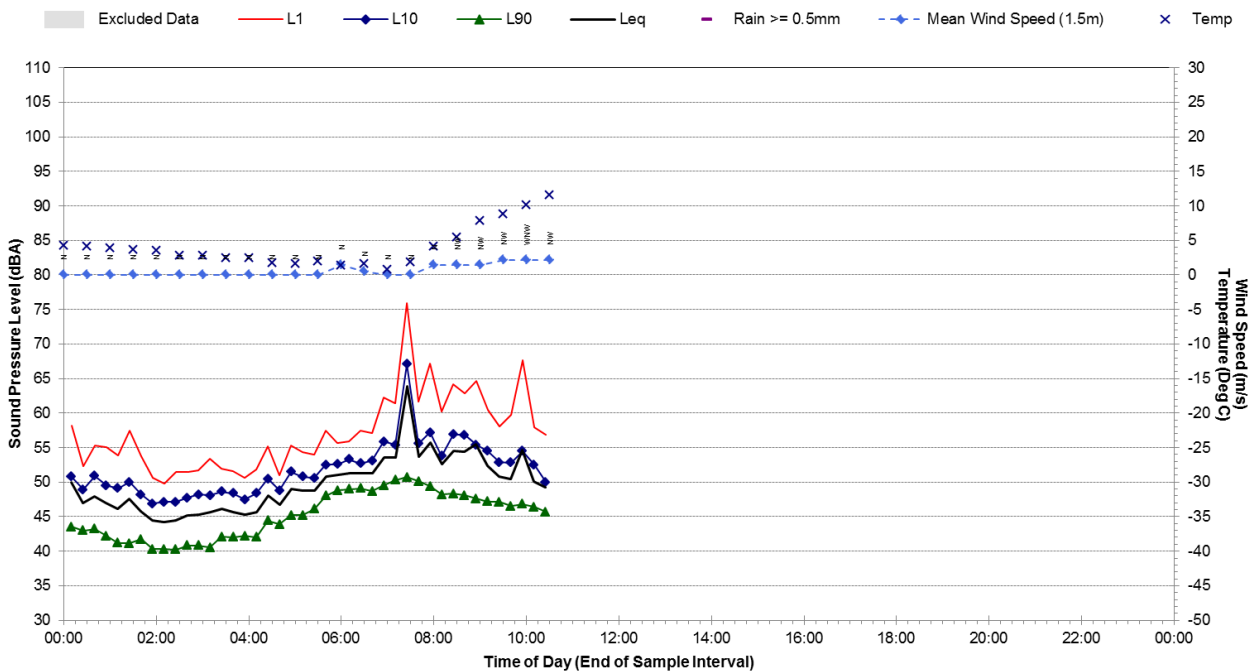
Statistical Ambient Noise Levels

B.21 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.21 - Thursday, 30 June 2016



Appendix C

Report 610.15897

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Background Noise Monitoring Results – B.18

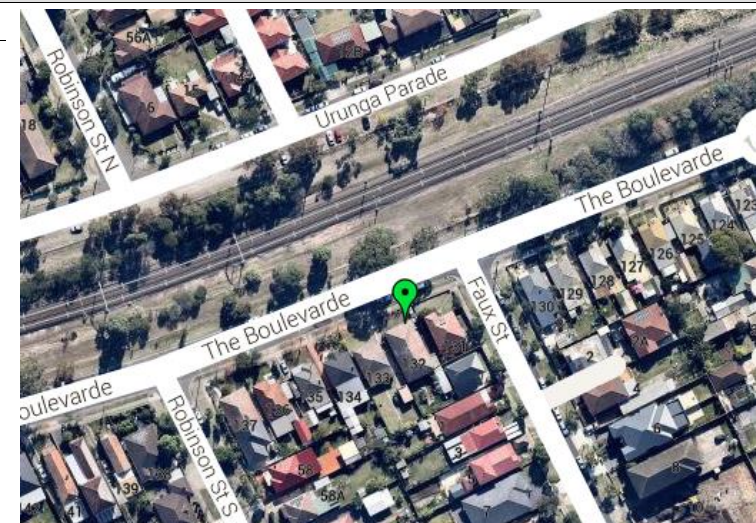
Noise Monitoring Location:	B.18
Noise Monitoring Address:	132 The Boulevard, Wiley Park 2195

Logger Device Type: Svantek 957
 Logger Serial No: 23243

Ambient noise logger deployed at the north west of the residential address 132 The Boulevard, Wiley Park. Logger located on the front balcony of the property, with line of sight north over The Boulevard and into the Bankstown Line corridor.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by constant road traffic. LAeq noise levels at this location were influenced by tyre noise from local road traffic, and also rail noise due to the property lying approximately 45m south of the nearest Bankstown Line track.

Map of Noise Monitoring Location



Ambient Noise Logging Results – INP Defined Time Periods

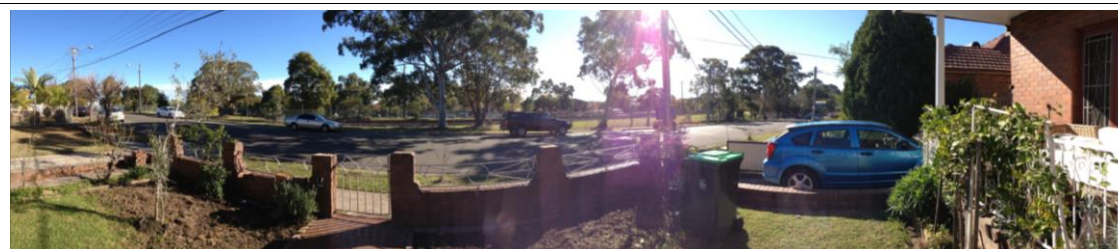
Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	46	65	69	73
Evening	49	65	68	73
Night-time	39	61	63	71

Photo of Noise Monitoring Location



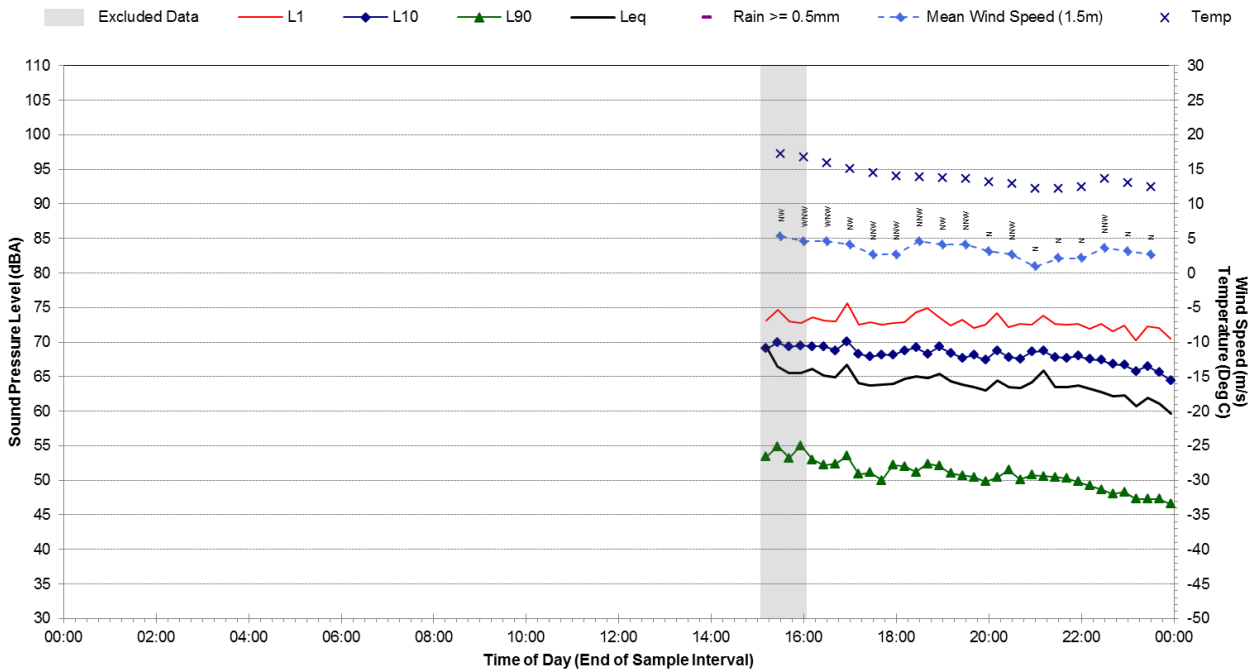
Attended Noise Measurement Results

Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	14:56:02	53	67	84



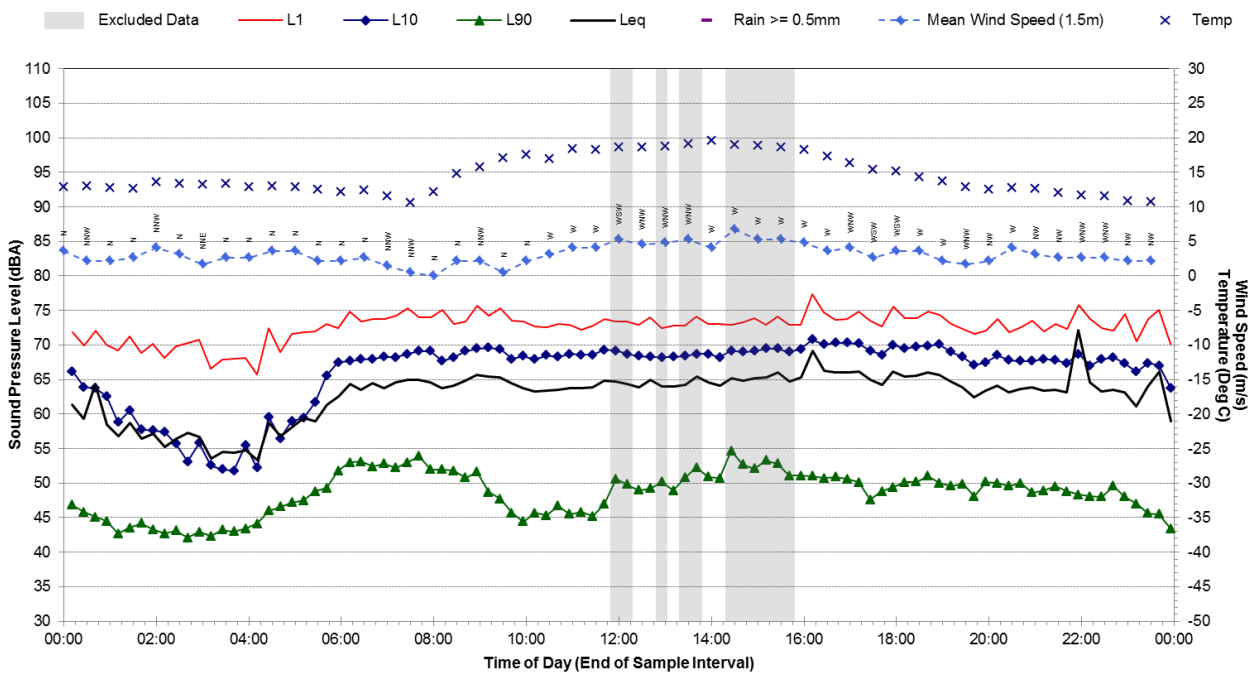
Statistical Ambient Noise Levels

B.22 - Tuesday, 21 June 2016



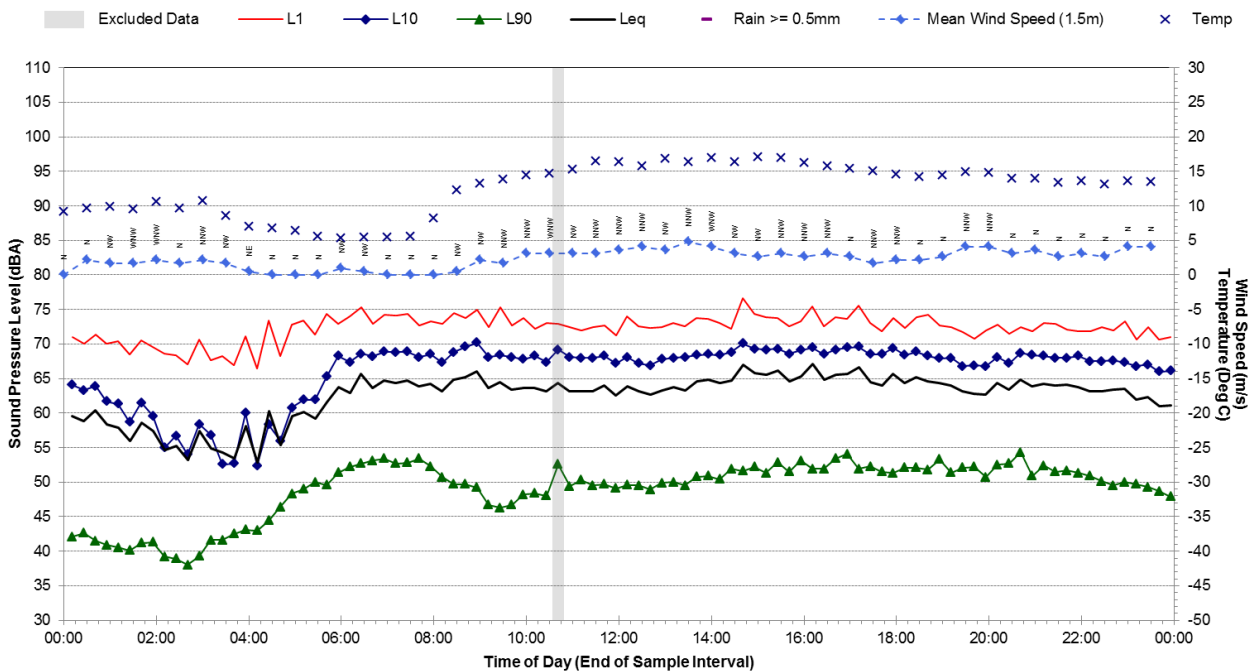
Statistical Ambient Noise Levels

B.22 - Wednesday, 22 June 2016



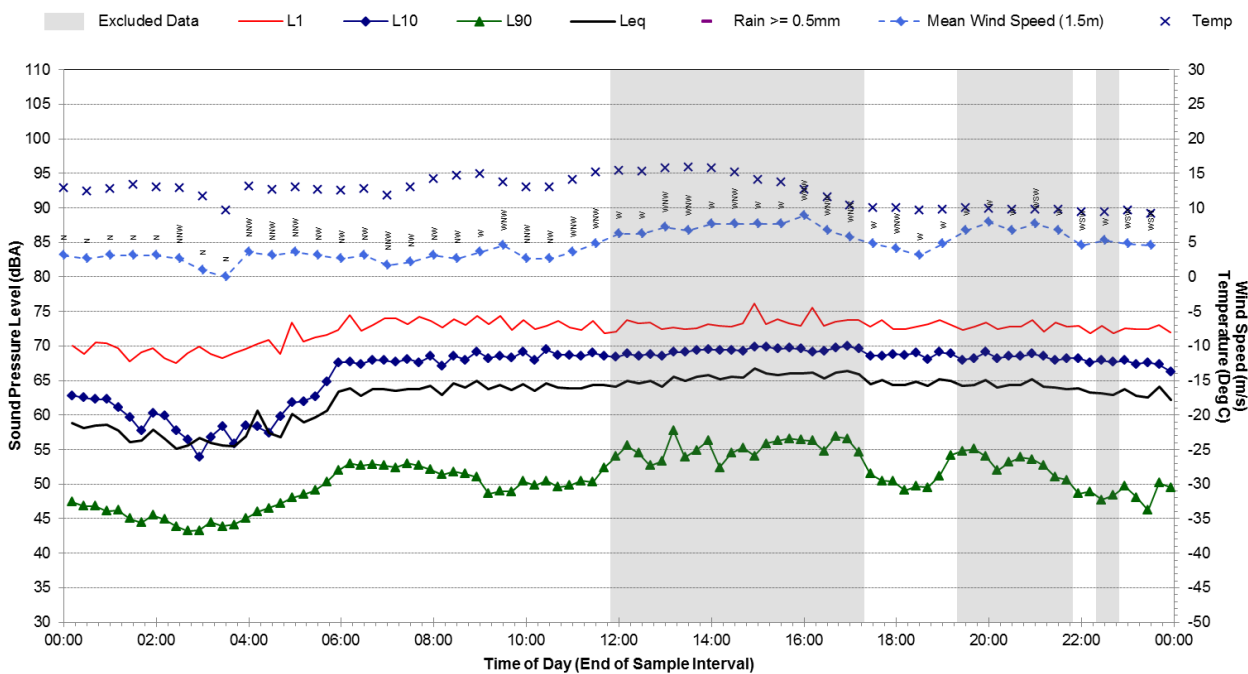
Statistical Ambient Noise Levels

B.22 - Thursday, 23 June 2016



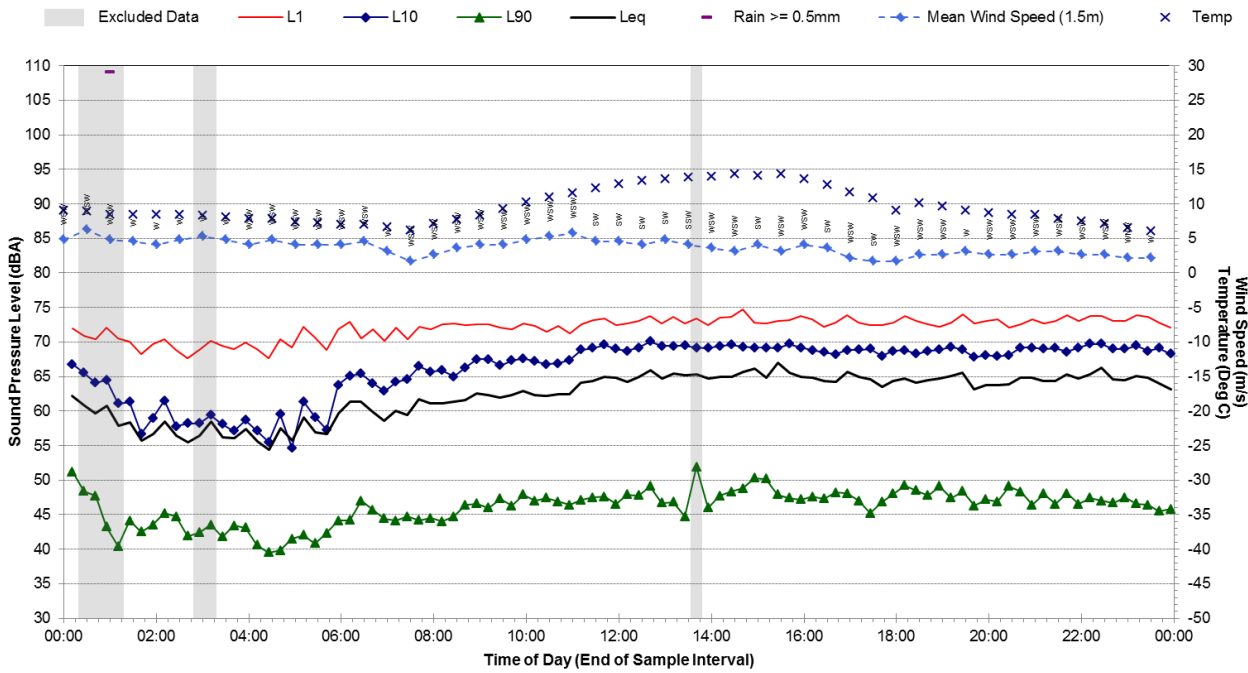
Statistical Ambient Noise Levels

B.22 - Friday, 24 June 2016



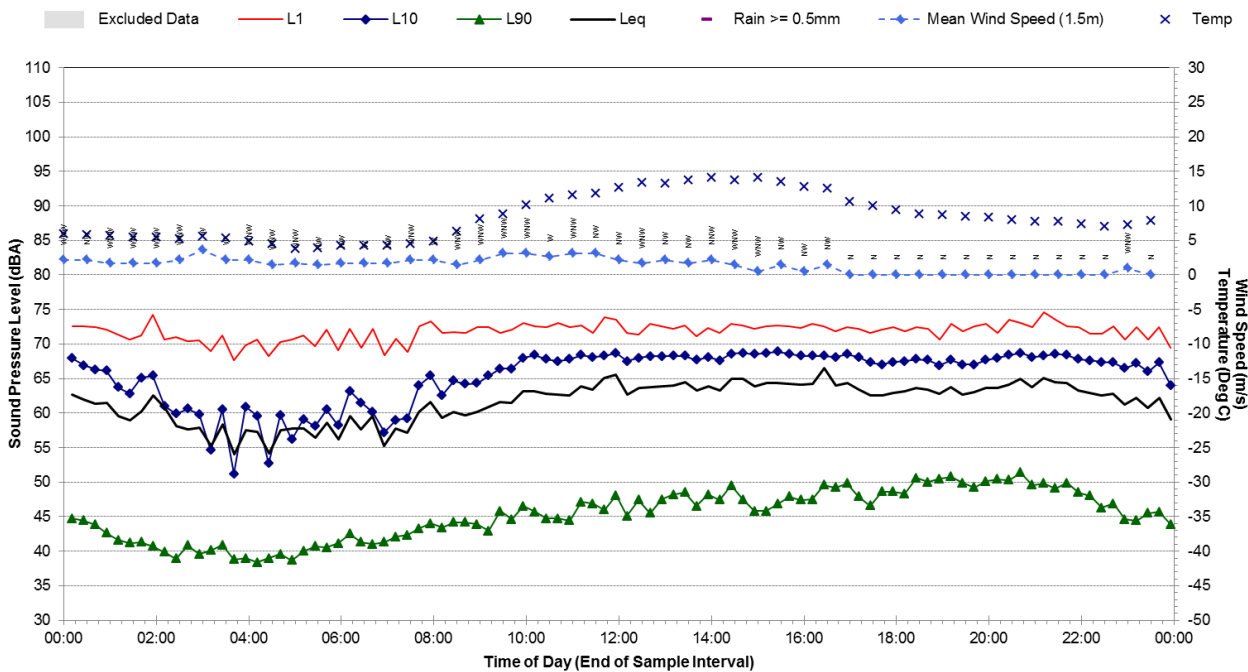
Statistical Ambient Noise Levels

B.22 - Saturday, 25 June 2016



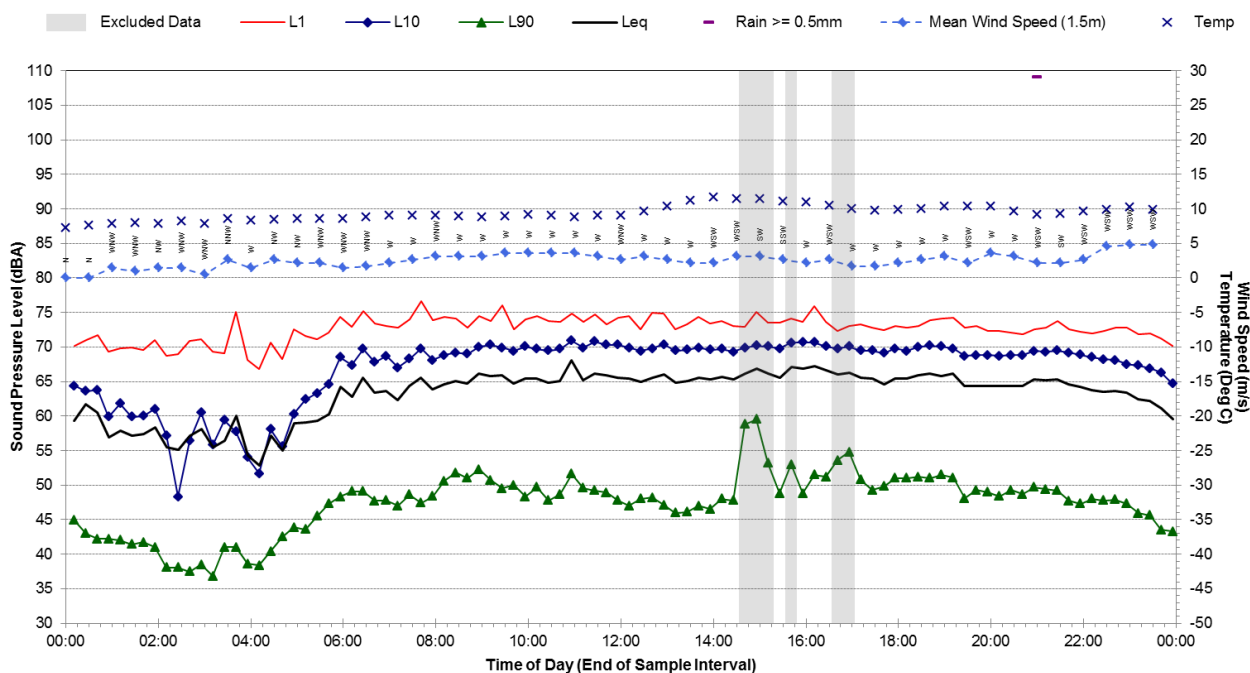
Statistical Ambient Noise Levels

B.22 - Sunday, 26 June 2016



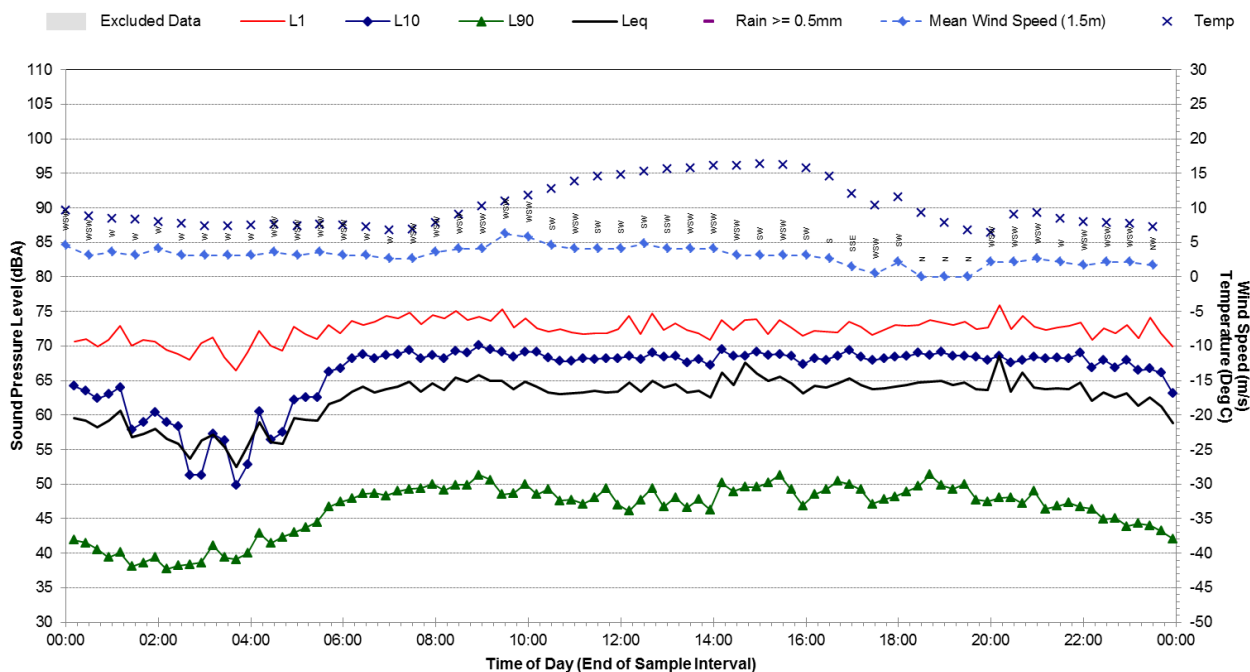
Statistical Ambient Noise Levels

B.22 - Monday, 27 June 2016



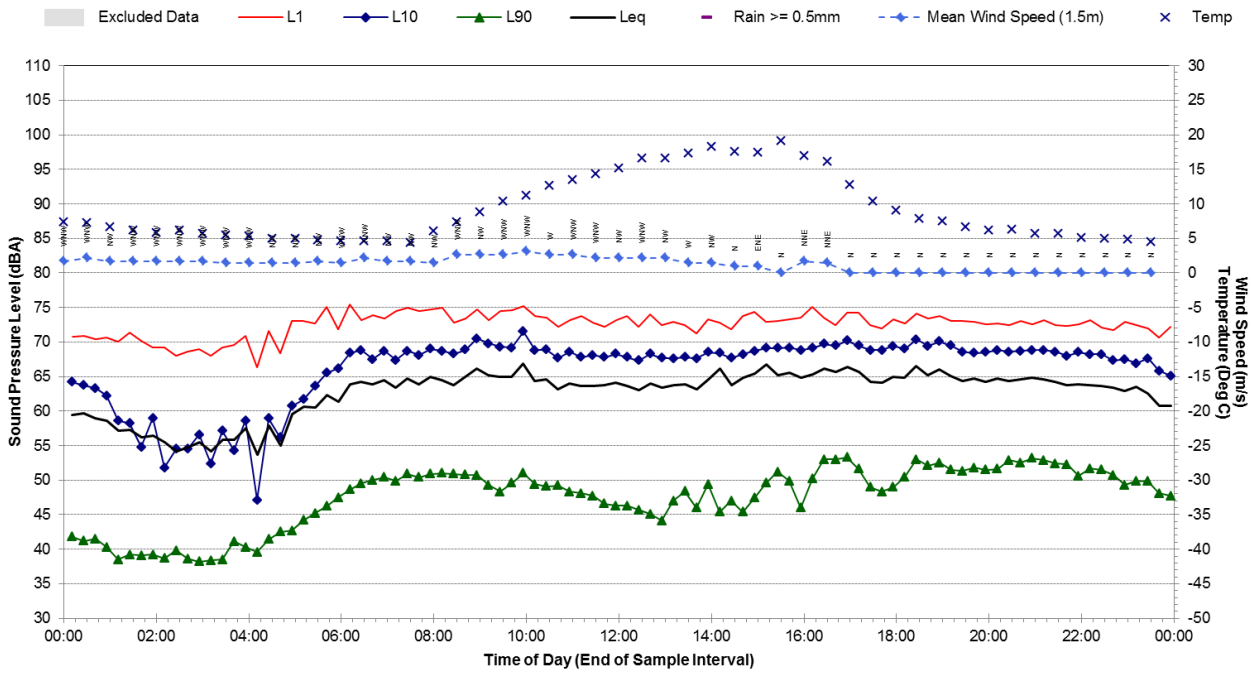
Statistical Ambient Noise Levels

B.22 - Tuesday, 28 June 2016



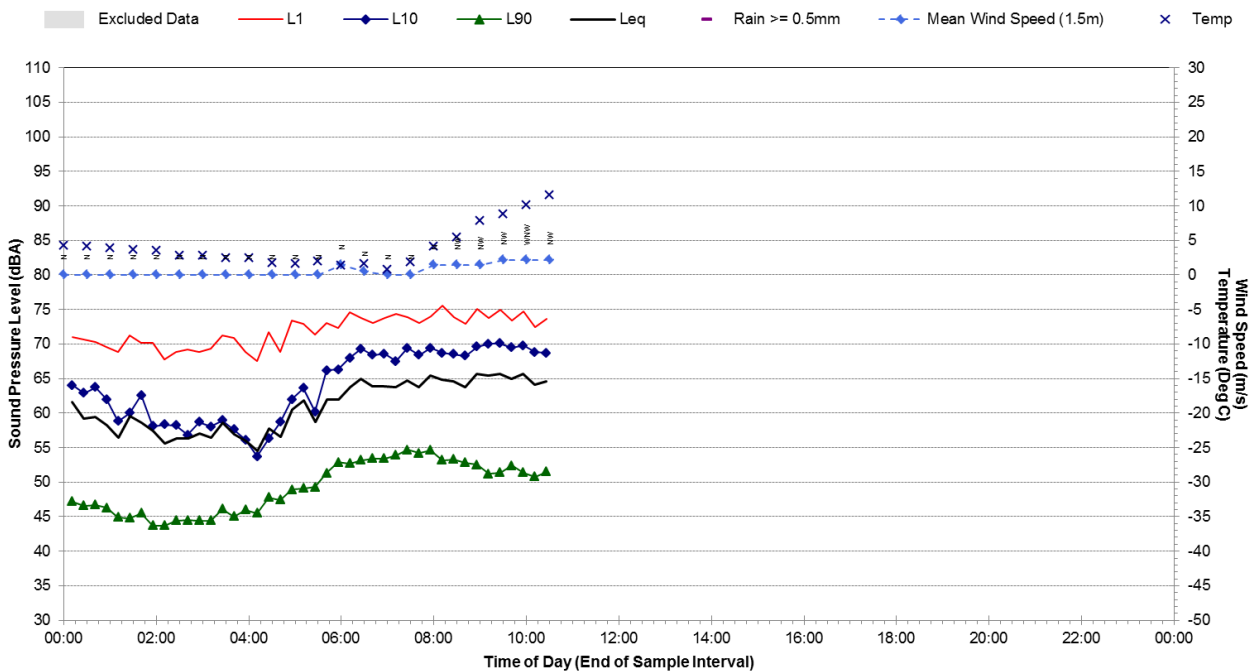
Statistical Ambient Noise Levels

B.22 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.22 - Thursday, 30 June 2016



Appendix C

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Background Noise Monitoring Results – B.19

Noise Monitoring Location: B.19
Noise Monitoring Address: 42 Urunga Parade, Punchbowl 2196

Logger Device Type: Svantek 957
 Logger Serial No: 23816

Ambient noise logger deployed at the south east of the residential address 42 Urunga Parade, Punchbowl. Logger located behind the front fence of the property, with line of sight south over Urunga Parade and into the Bankstown Line corridor.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by constant road traffic from the nearby Punchbowl Road and constant bird noise. LAeq noise levels at this location were influenced by trucks, aircraft noise and rail noise due to the property lying approximately 50m north of the nearest Bankstown Line track.

Map of Noise Monitoring Location

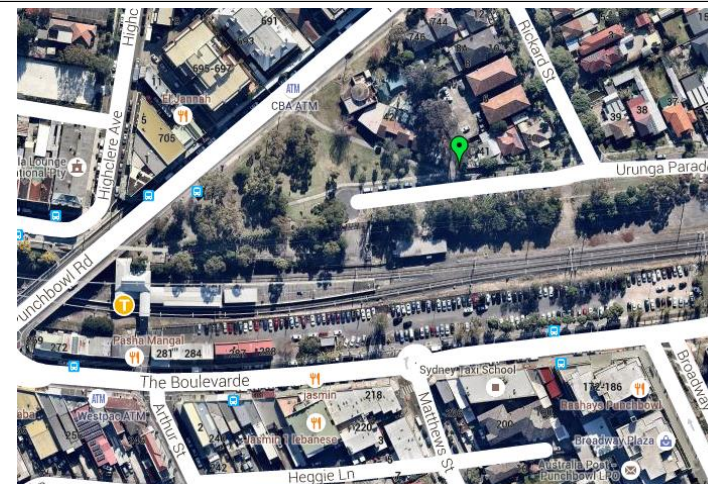
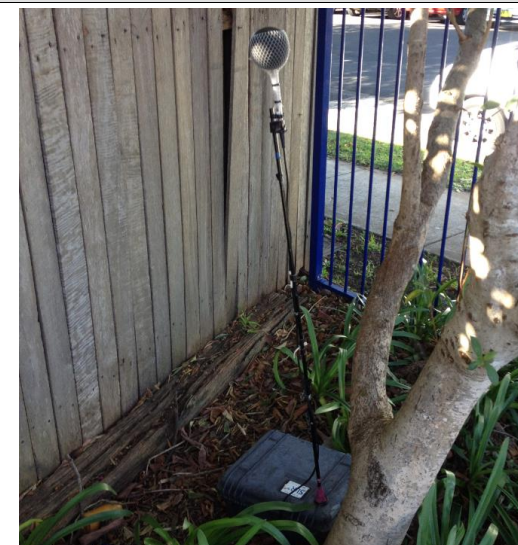


Photo of Noise Monitoring Location



Ambient Noise Logging Results – INP Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	47	57	59	66
Evening	47	54	55	63
Night-time	41	53	53	60

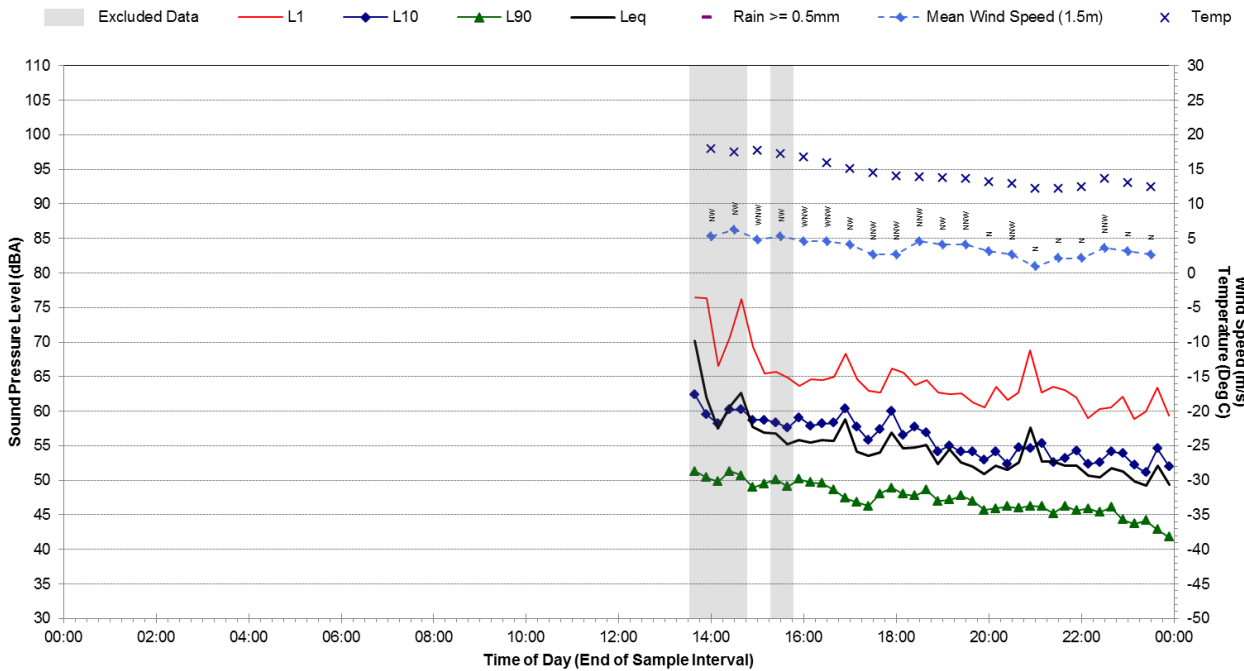
Attended Noise Measurement Results

Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
21/06/2016	13:26:56	52	57	71



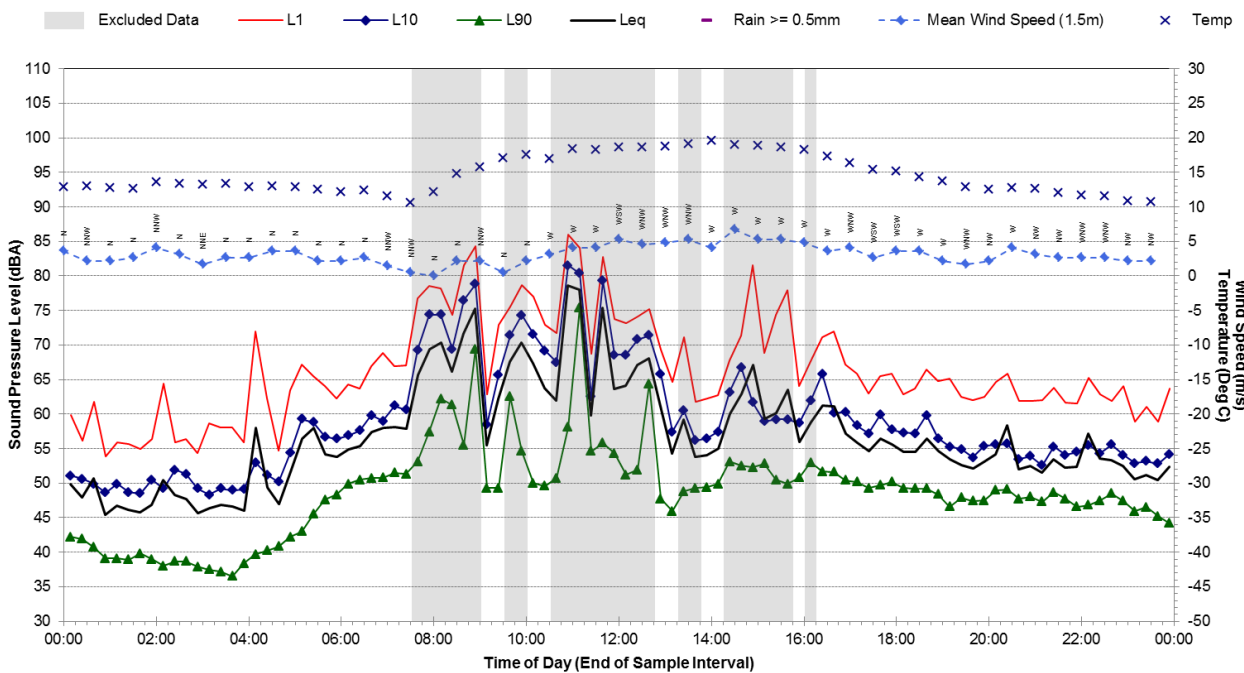
Statistical Ambient Noise Levels

B.23 - Tuesday, 21 June 2016



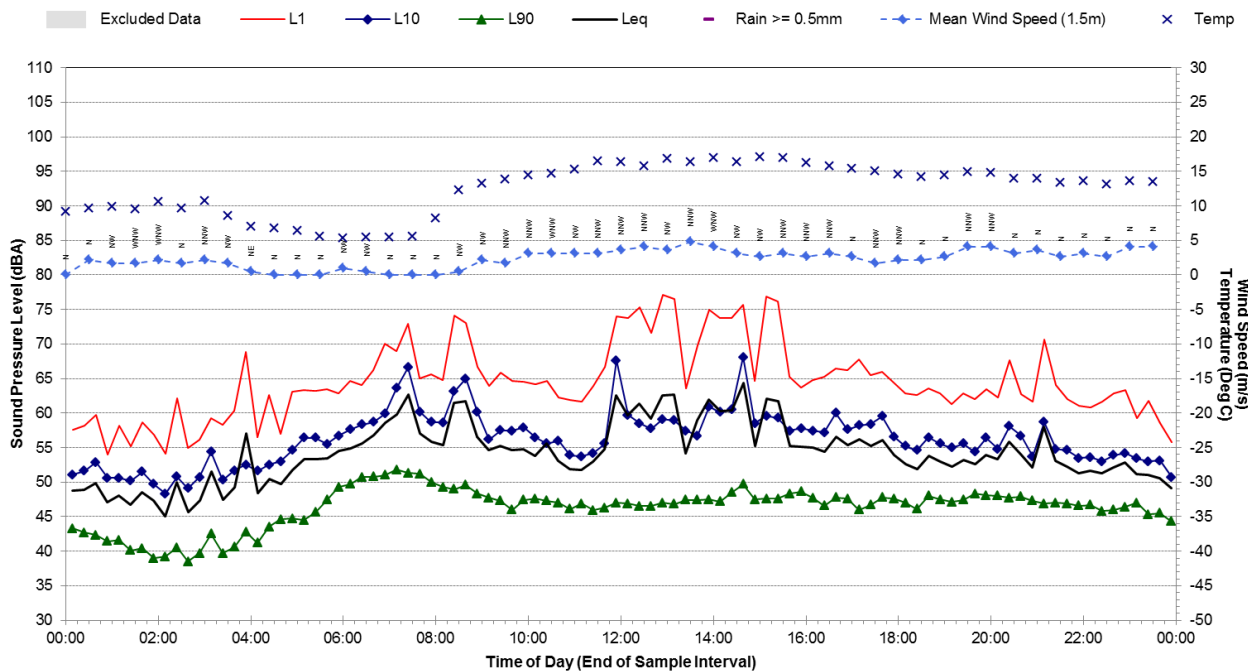
Statistical Ambient Noise Levels

B.23 - Wednesday, 22 June 2016



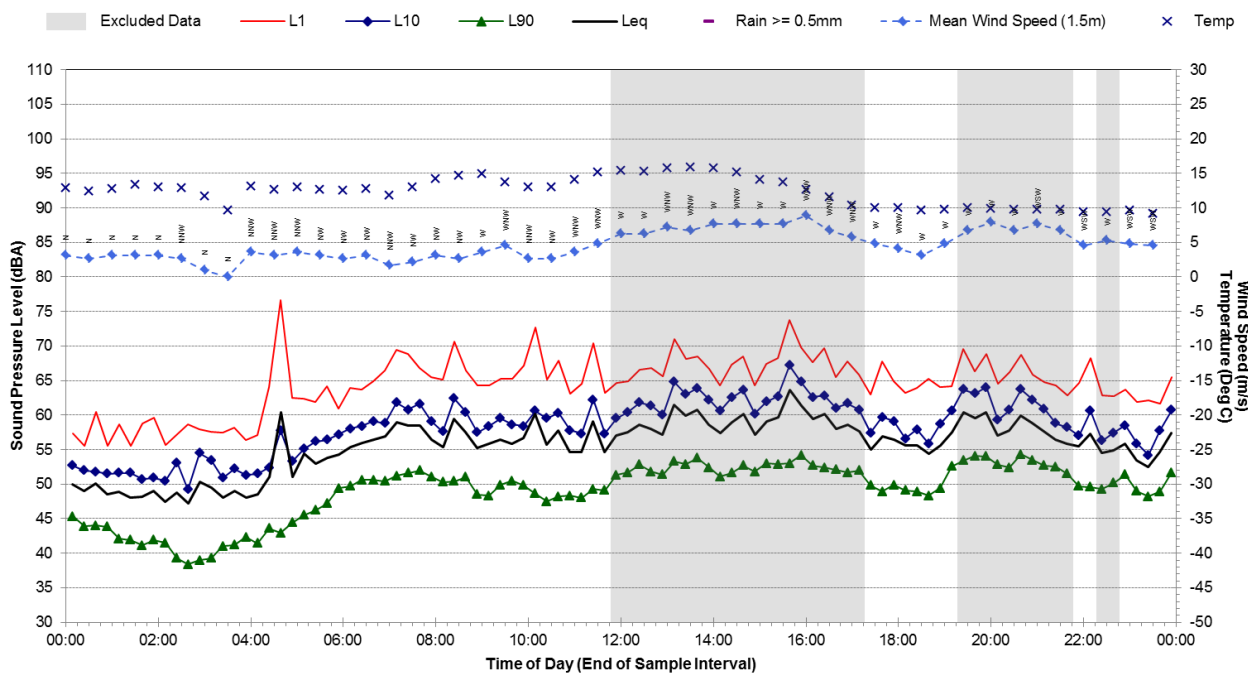
Statistical Ambient Noise Levels

B.23 - Thursday, 23 June 2016



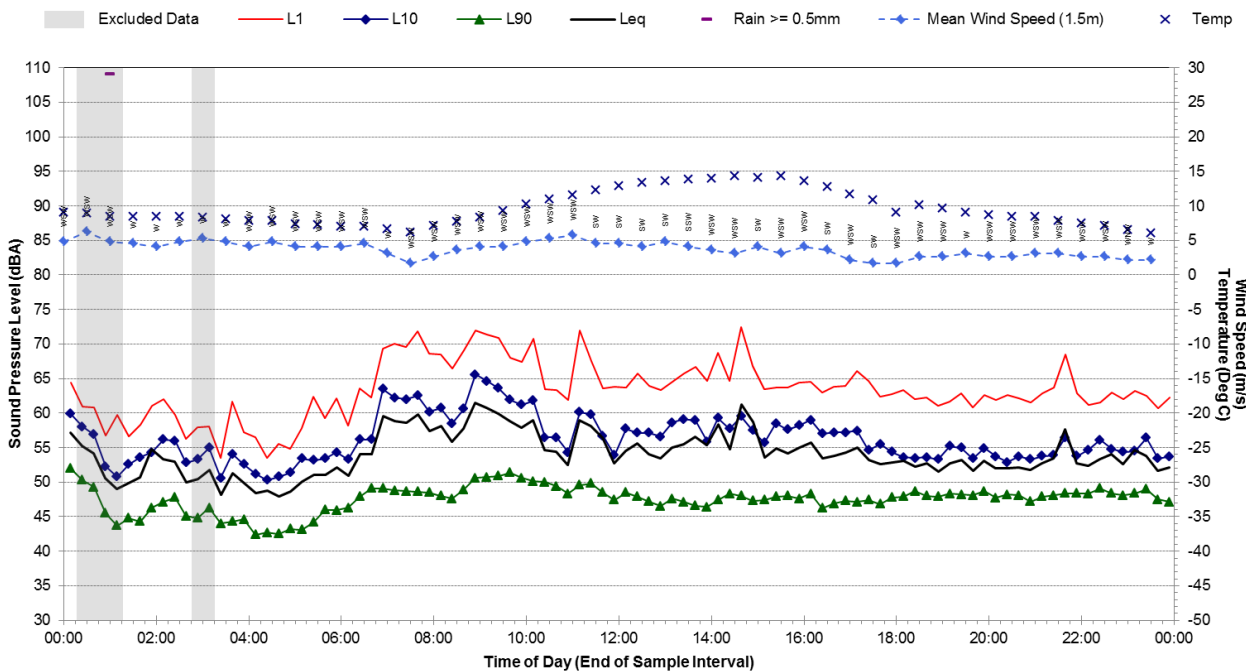
Statistical Ambient Noise Levels

B.23 - Friday, 24 June 2016



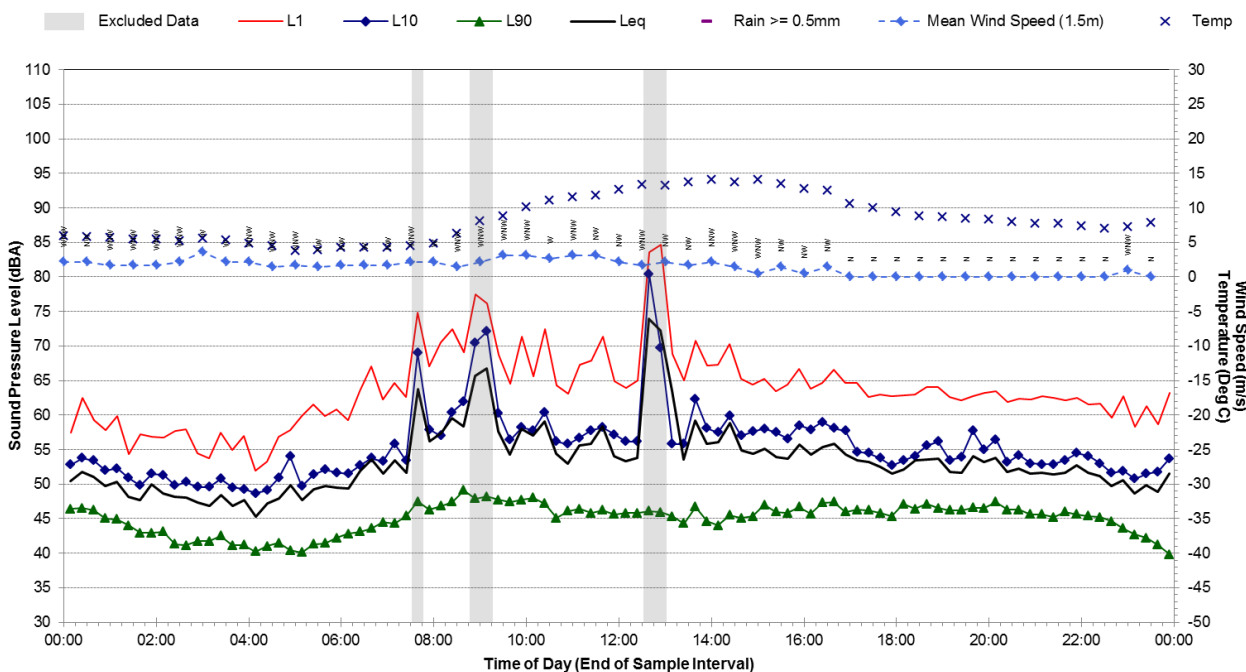
Statistical Ambient Noise Levels

B.23 - Saturday, 25 June 2016



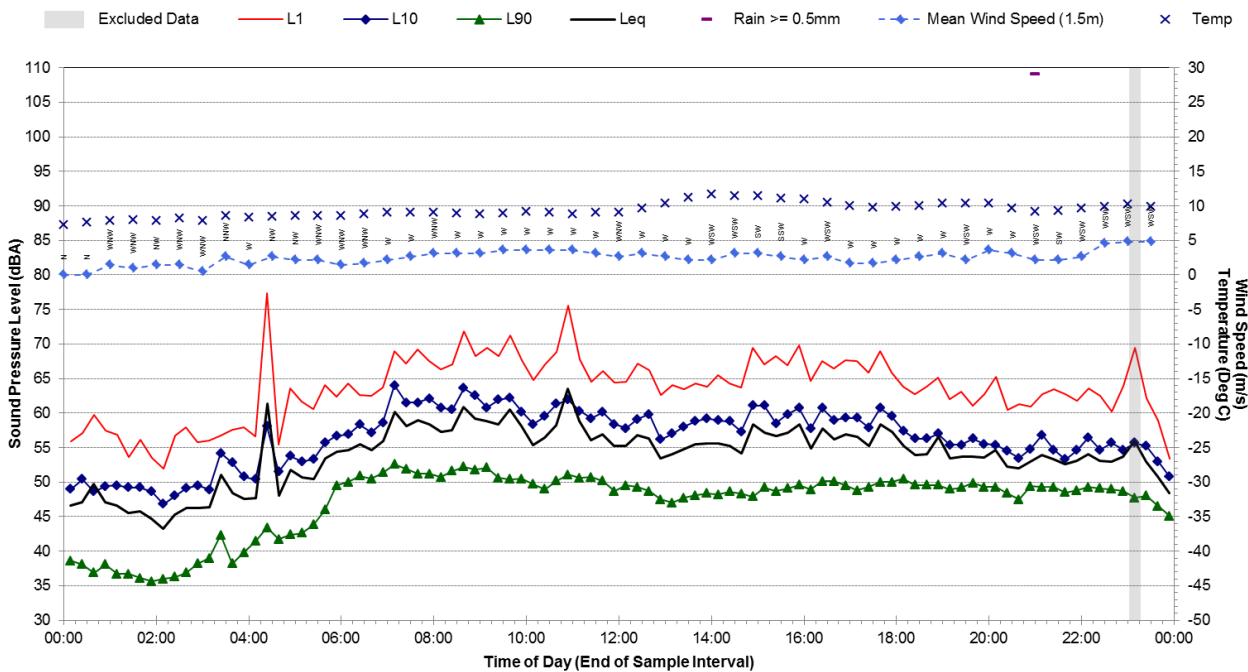
Statistical Ambient Noise Levels

B.23 - Sunday, 26 June 2016



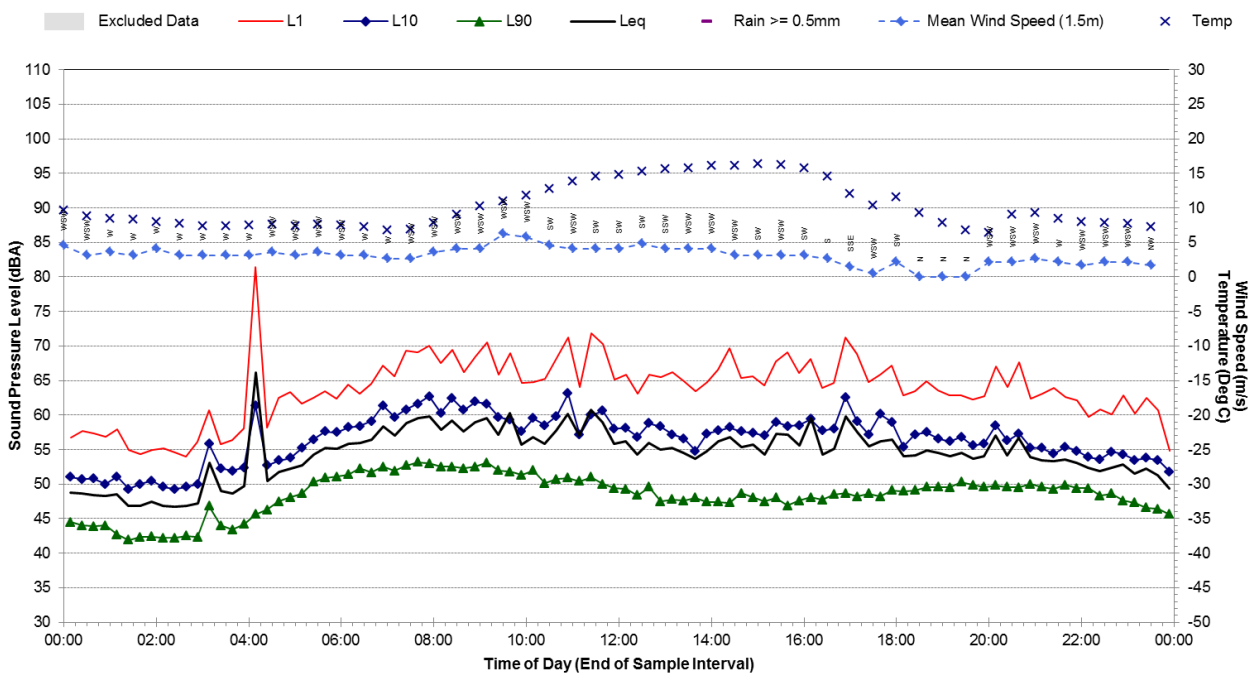
Statistical Ambient Noise Levels

B.23 - Monday, 27 June 2016



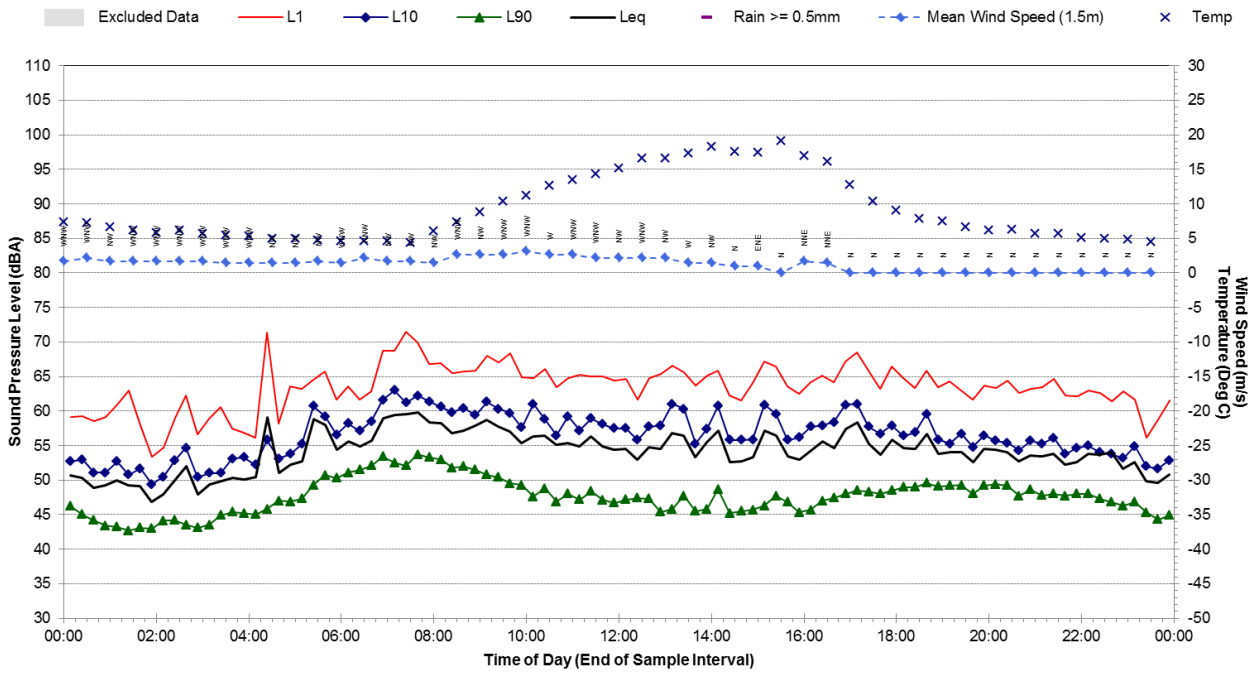
Statistical Ambient Noise Levels

B.23 - Tuesday, 28 June 2016



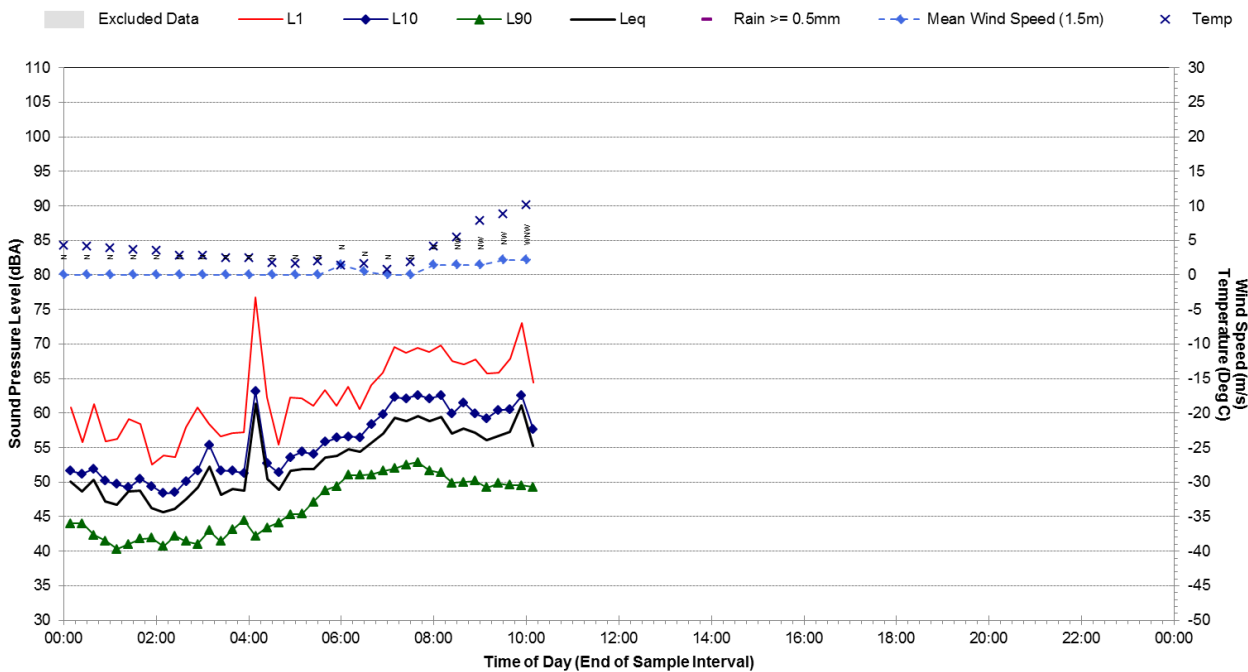
Statistical Ambient Noise Levels

B.23 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.23 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.20

Noise Monitoring Location: B.20 **Map of Noise Monitoring Location**

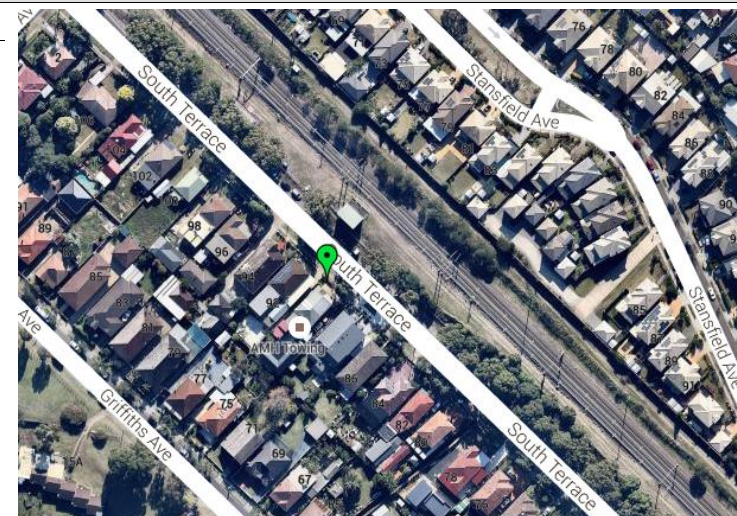
Noise Monitoring Address: 90 South Terrace, Bankstown 2200

Logger Device Type: Svantek 957

Logger Serial No: 20673

Ambient noise logger deployed at the north east of the residential address 90 South Terrace, Bankstown. Logger located behind the front fence of the property, with line of sight north over South Terrace and into the Bankstown Line corridor.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by constant road traffic noise, intermittent bird chatter, aircraft noise. LAeq noise levels at this location were influenced by road traffic passbys and rail noise due to the property lying approximately 40m south west of the nearest Bankstown Line track.



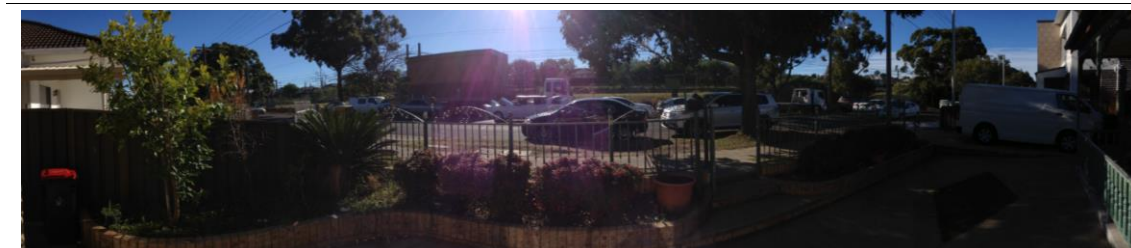
Ambient Noise Logging Results – INP Defined Time Periods **Photo of Noise Monitoring Location**

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	47	65	68	71
Evening	49	64	68	72
Night-time	39	60	63	71



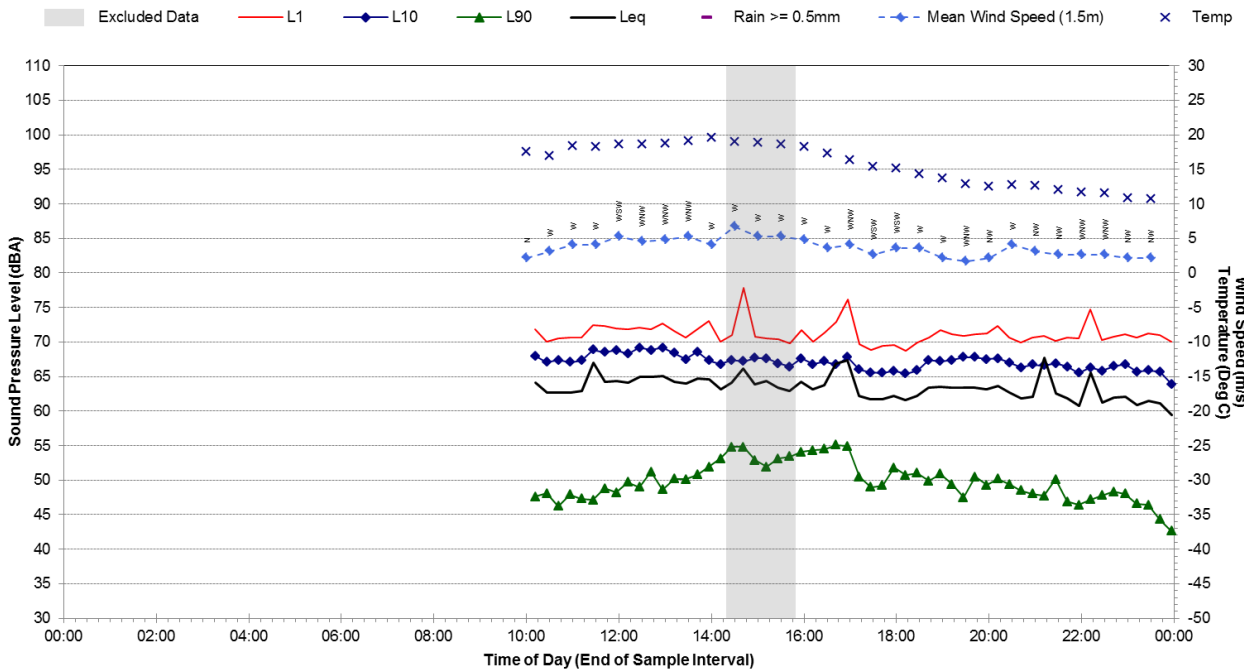
Attended Noise Measurement Results

Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
22/06/2016	09:48:49	57	65	79



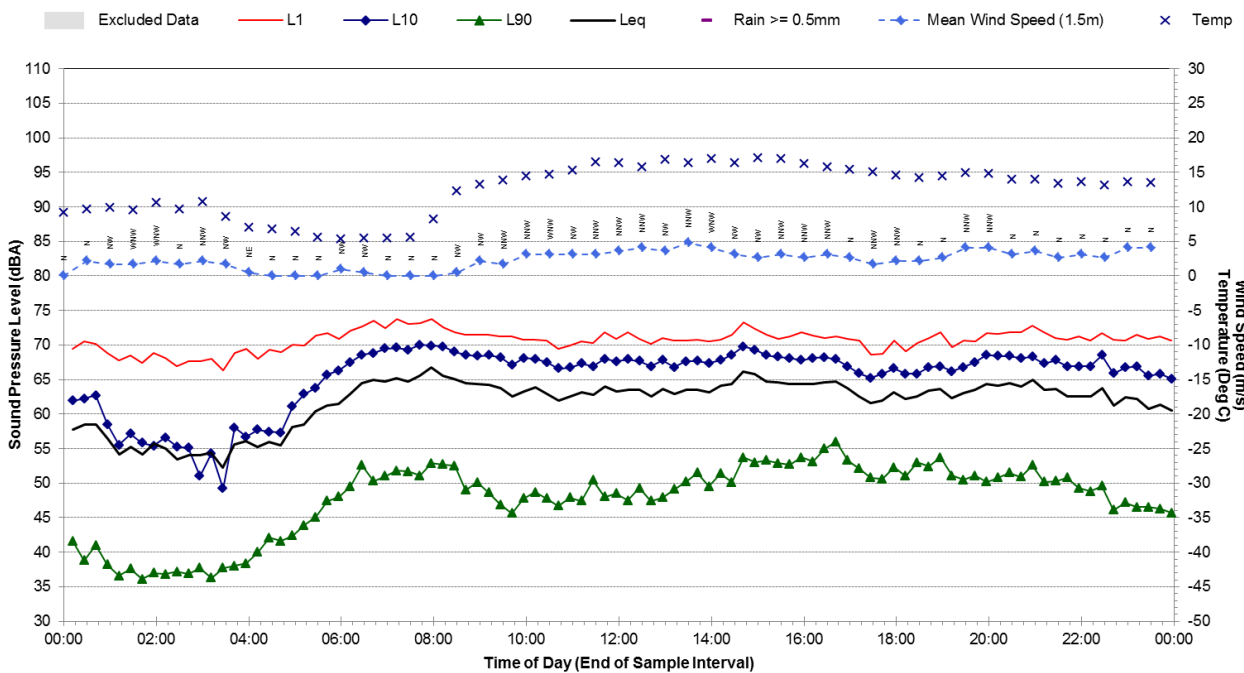
Statistical Ambient Noise Levels

B.24 - Wednesday, 22 June 2016



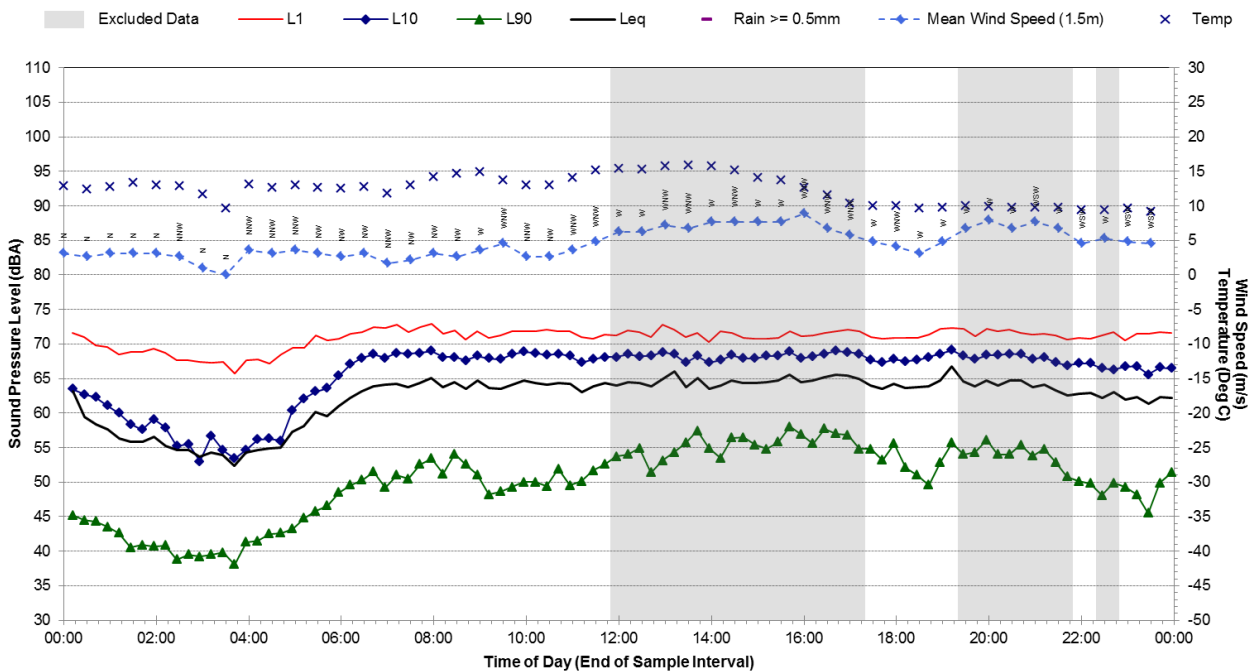
Statistical Ambient Noise Levels

B.24 - Thursday, 23 June 2016



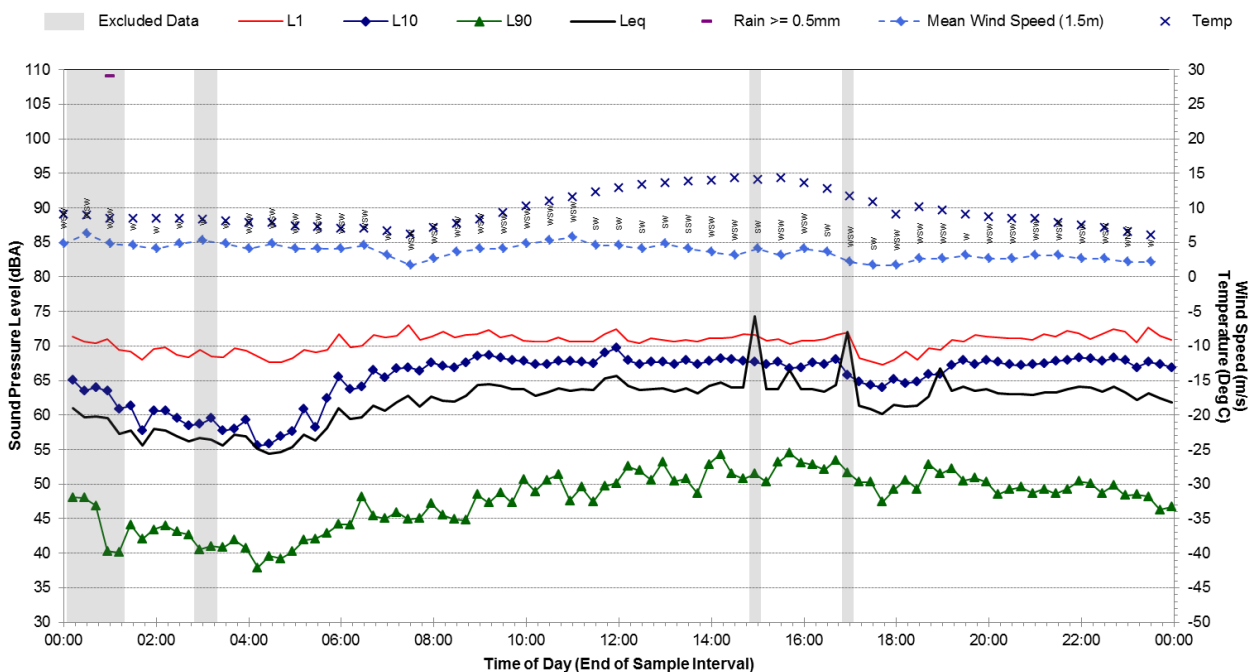
Statistical Ambient Noise Levels

B.24 - Friday, 24 June 2016



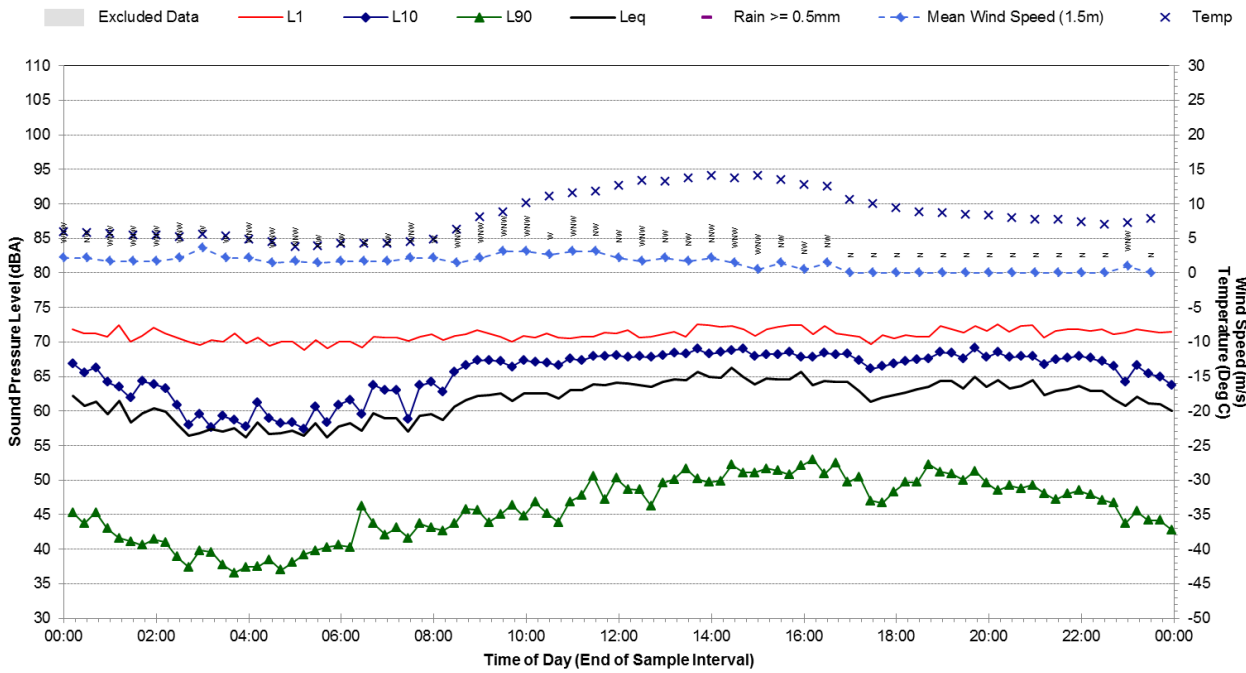
Statistical Ambient Noise Levels

B.24 - Saturday, 25 June 2016



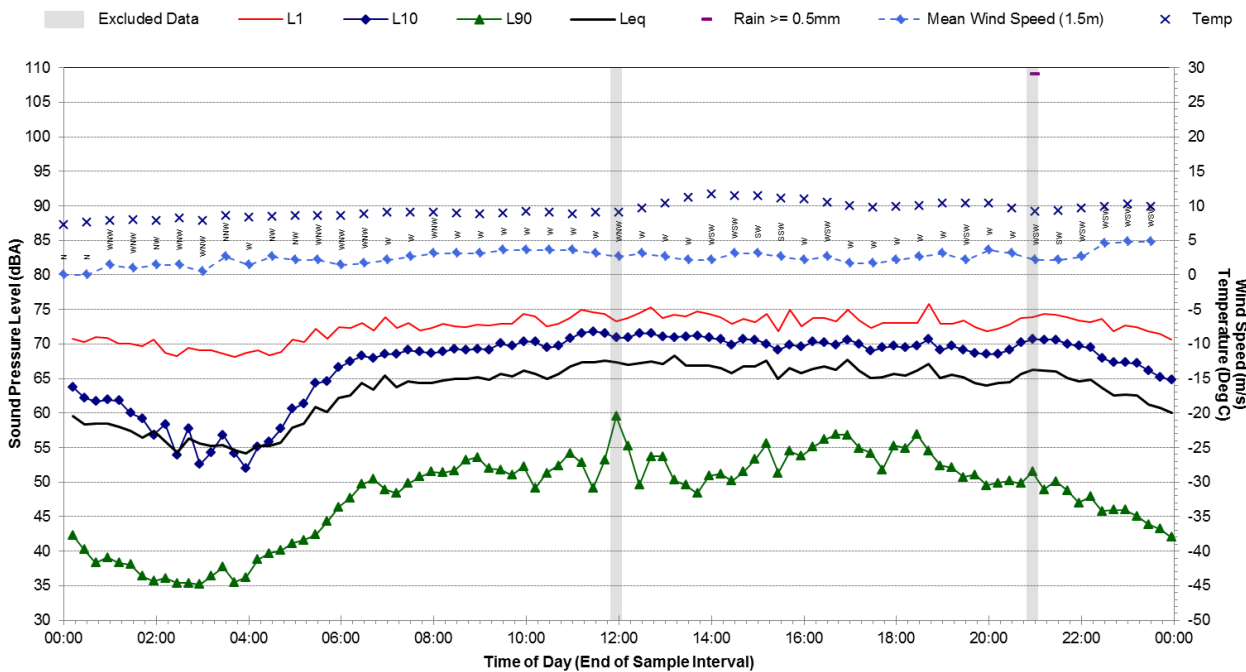
Statistical Ambient Noise Levels

B.24 - Sunday, 26 June 2016



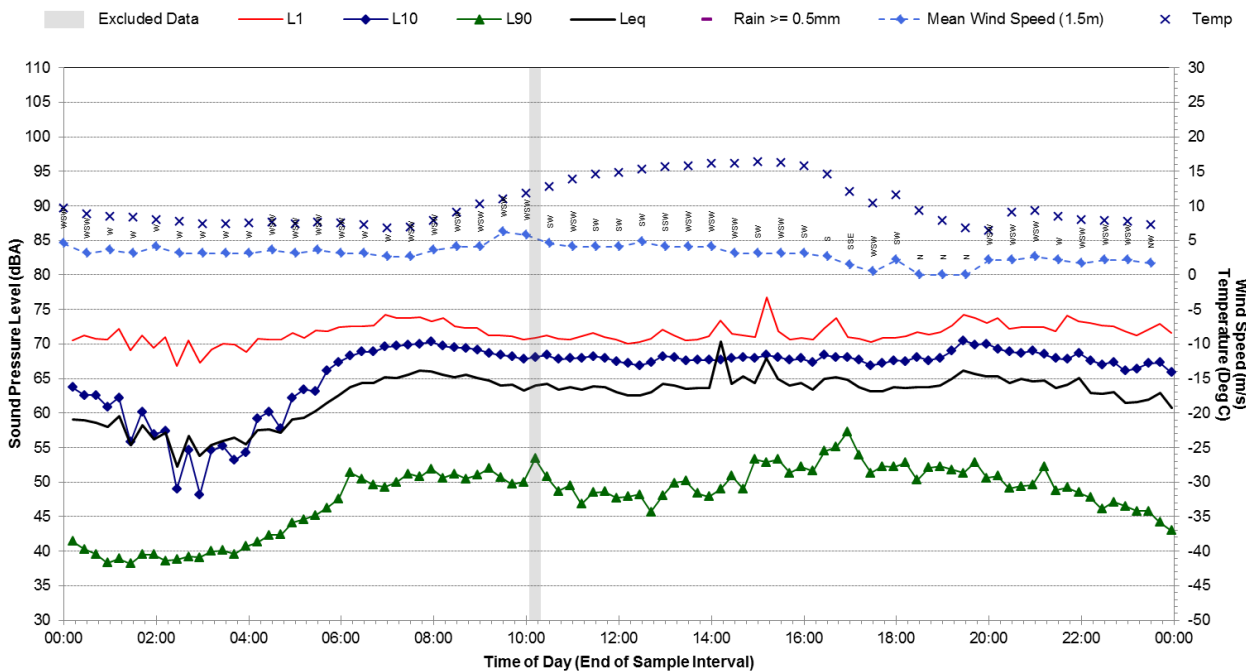
Statistical Ambient Noise Levels

B.24 - Monday, 27 June 2016



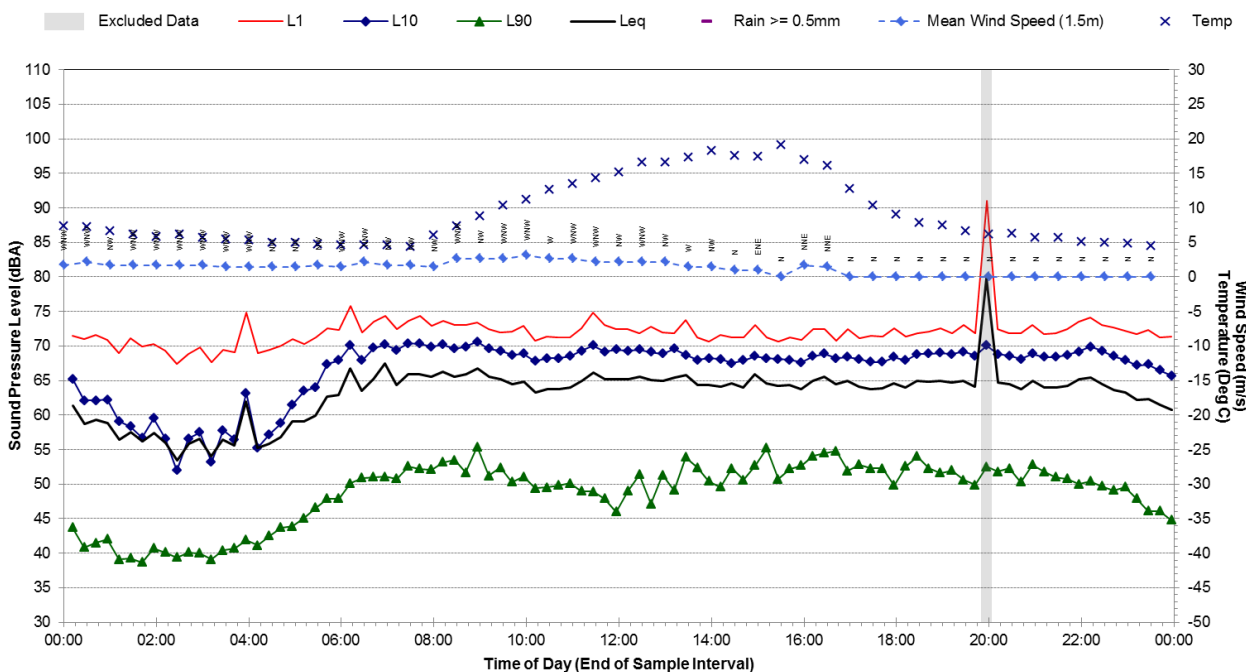
Statistical Ambient Noise Levels

B.24 - Tuesday, 28 June 2016



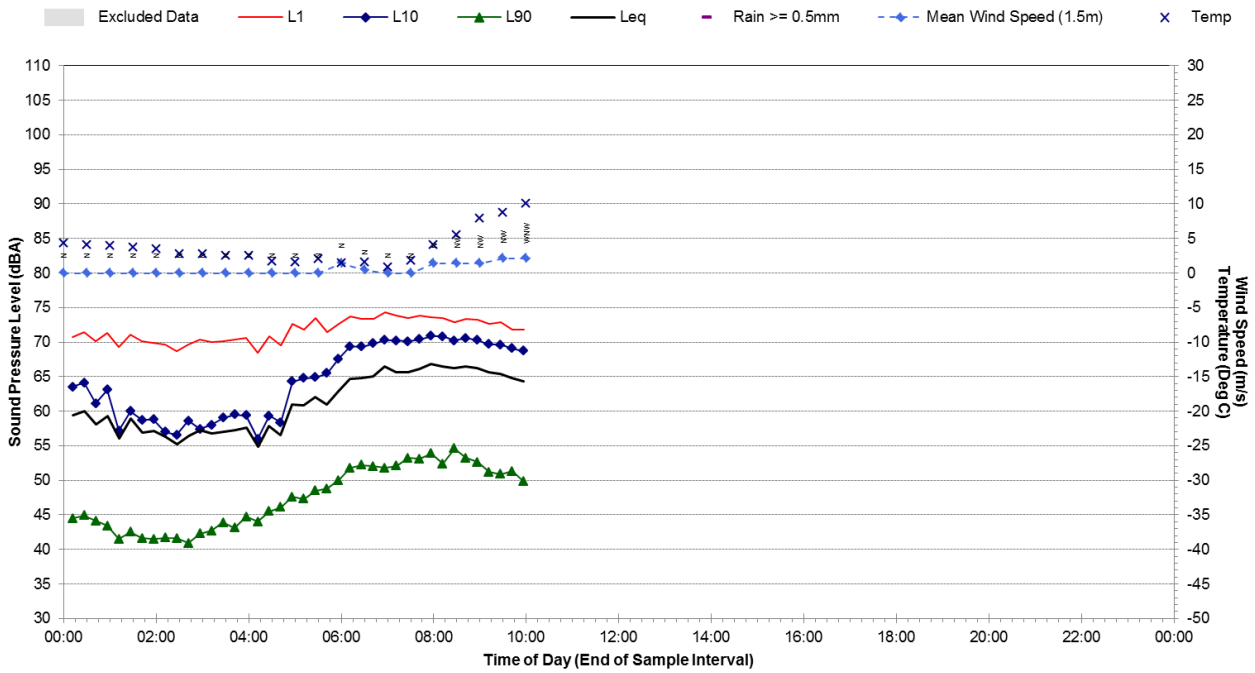
Statistical Ambient Noise Levels

B.24 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.24 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.21

Noise Monitoring Location:	B.21
Noise Monitoring Address:	184 South Terrace, Bankstown 2200

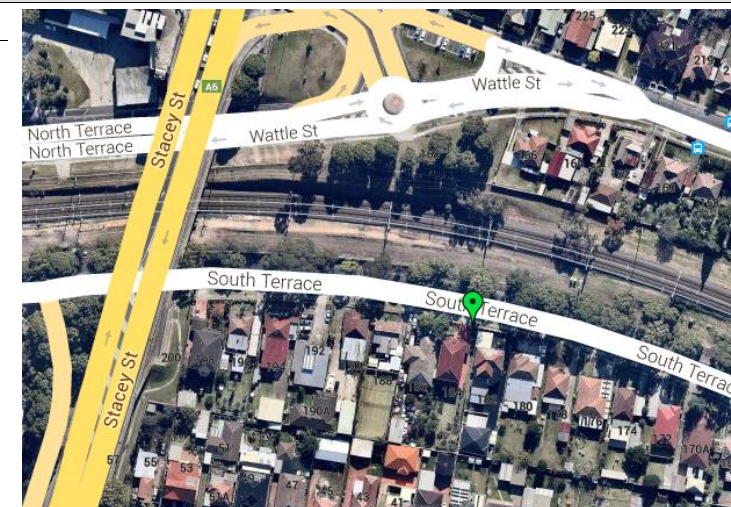
Logger Device Type: Svantek 957

Logger Serial No: 20674

Ambient noise logger deployed at the north of the residential address 184 South Terrace, Bankstown. Logger located behind the front perimeter wall of the property, with line of sight north over South Terrace and into the Bankstown Line corridor.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by frequent light road traffic noise from South Terrace and heavy road traffic noise from Stacey Street and Wattle Street on the other side of the corridor. LAeq noise levels at this location were influenced by heavy road traffic noise and rail noise due to the property lying approximately 40m south of the nearest Bankstown Line track.

Map of Noise Monitoring Location



Ambient Noise Logging Results – INP Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	53	66	70	73
Evening	52	66	70	74
Night-time	43	61	63	72

Attended Noise Measurement Results

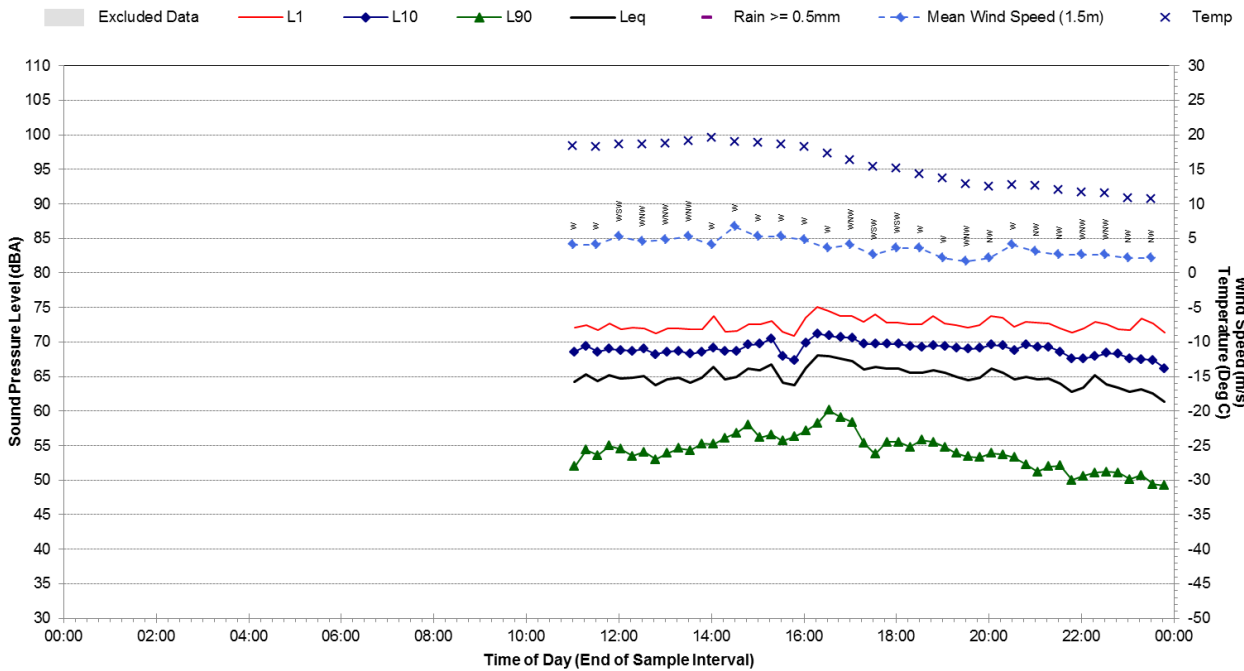
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
22/06/2016	10:35:48	55	66	77

Photo of Noise Monitoring Location



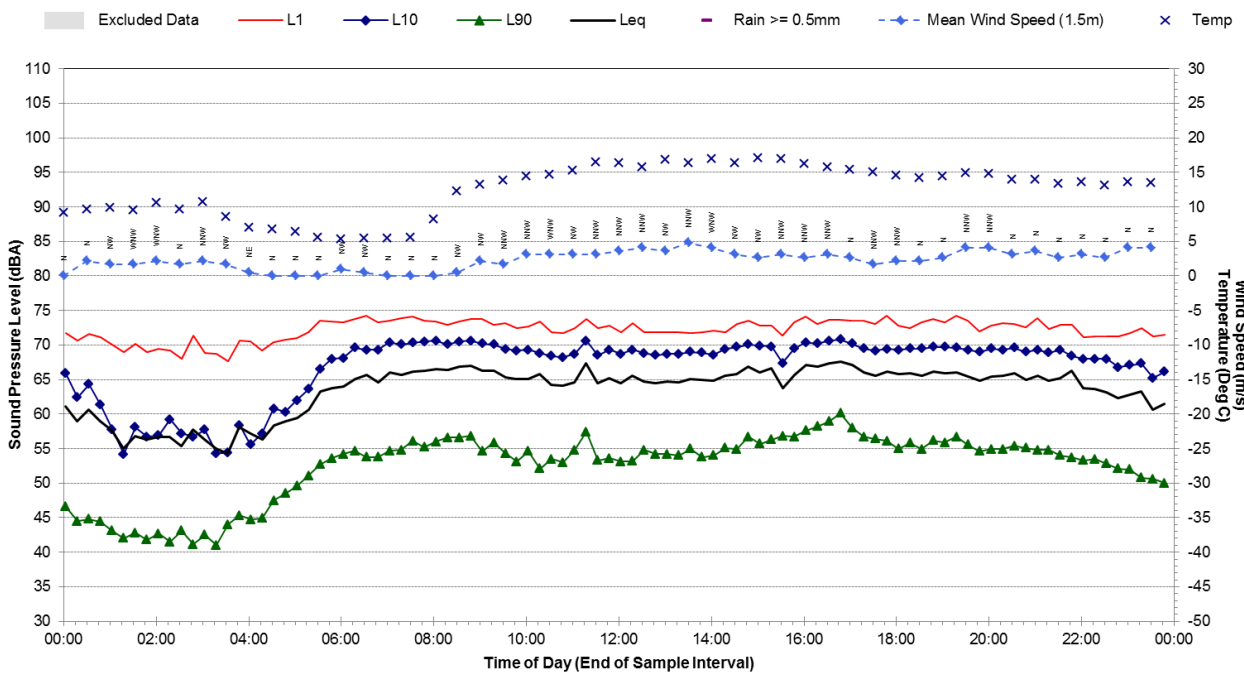
Statistical Ambient Noise Levels

B.25 - Wednesday, 22 June 2016



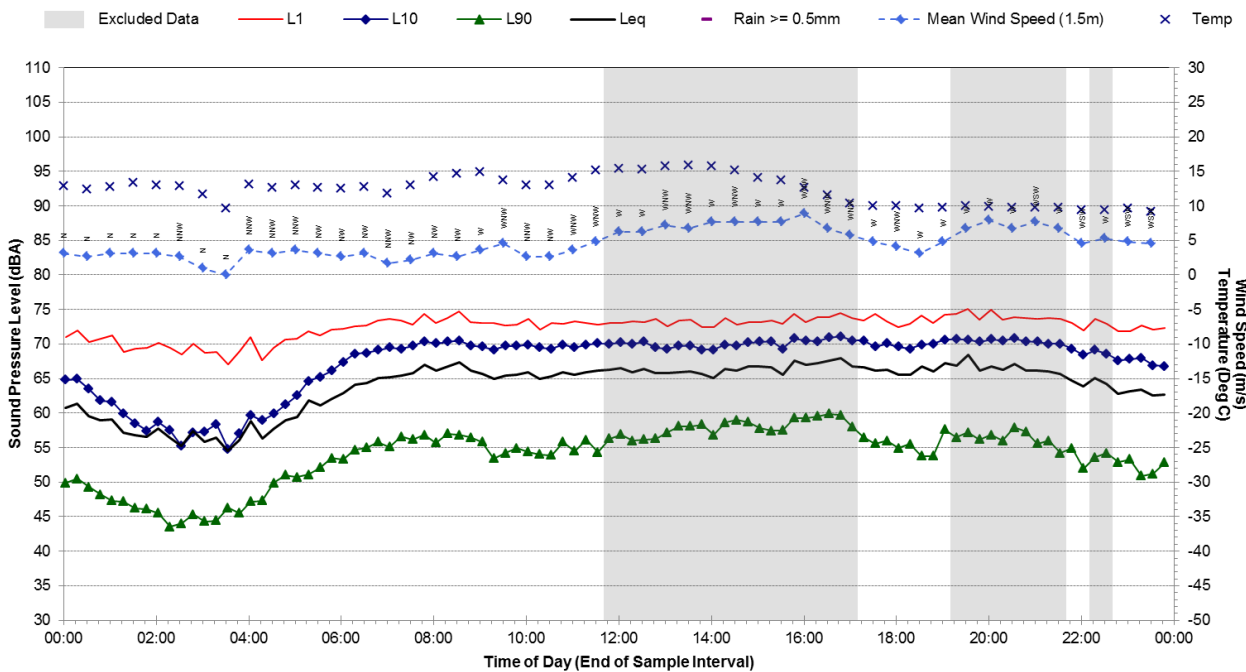
Statistical Ambient Noise Levels

B.25 - Thursday, 23 June 2016



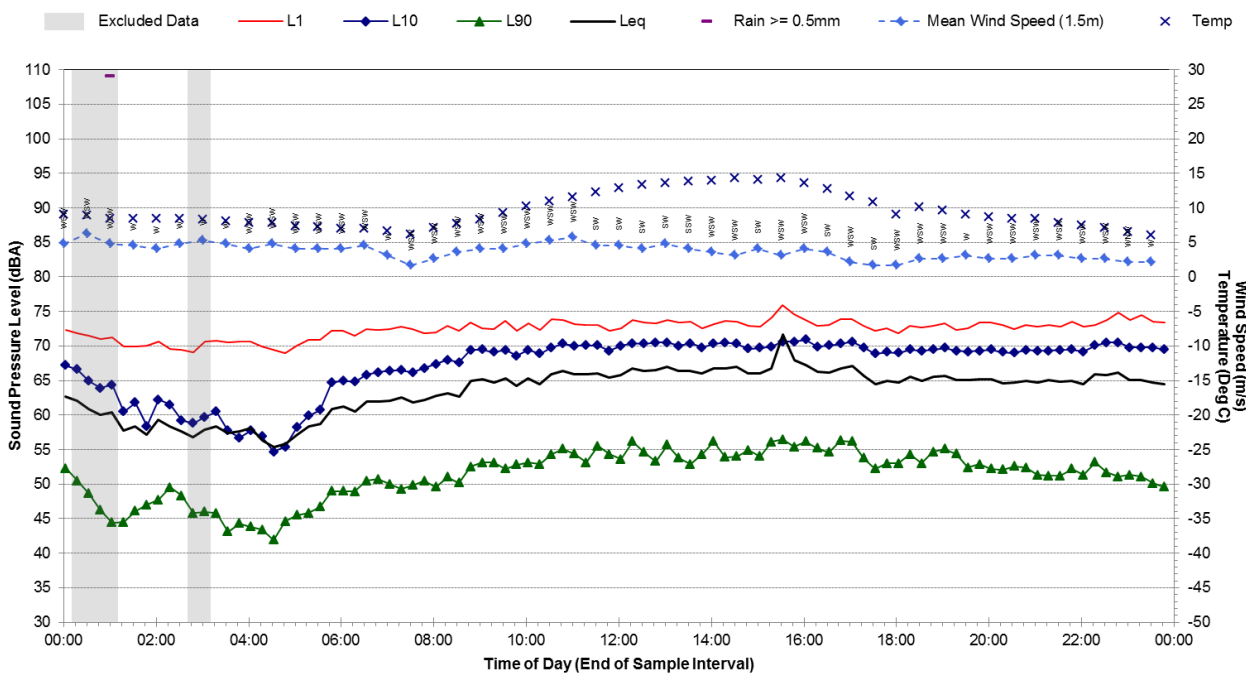
Statistical Ambient Noise Levels

B.25 - Friday, 24 June 2016



Statistical Ambient Noise Levels

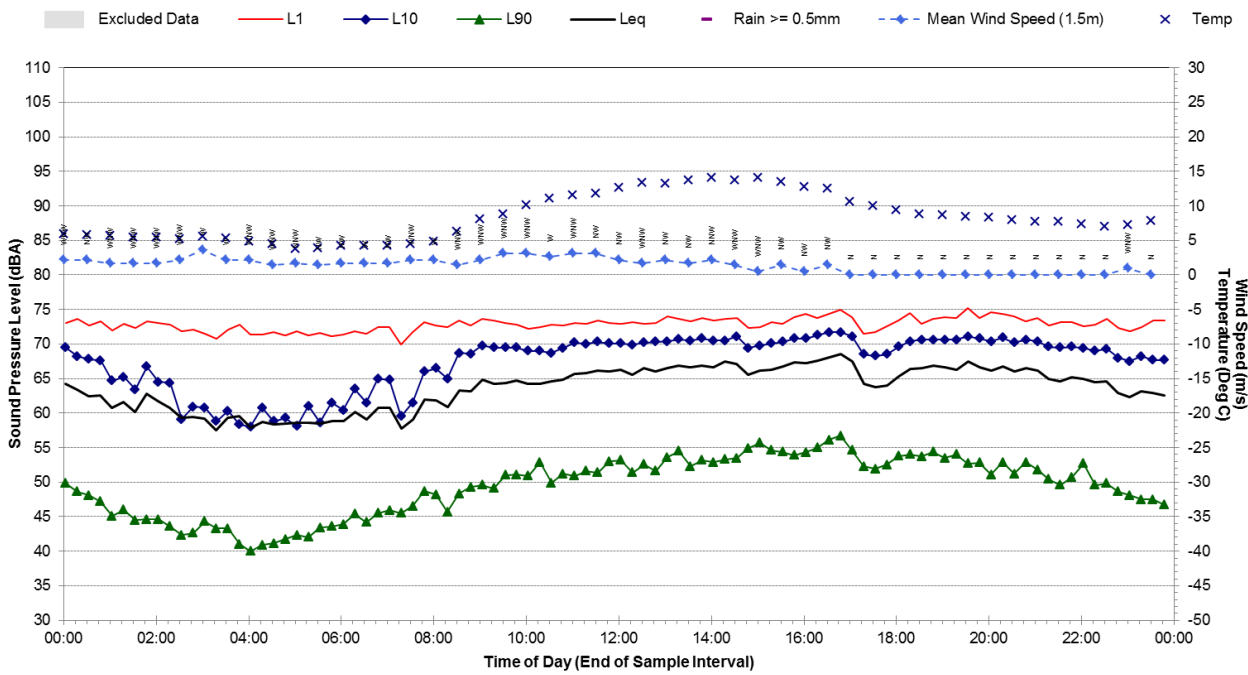
B.25 - Saturday, 25 June 2016



Background Noise Monitoring Results – B.21

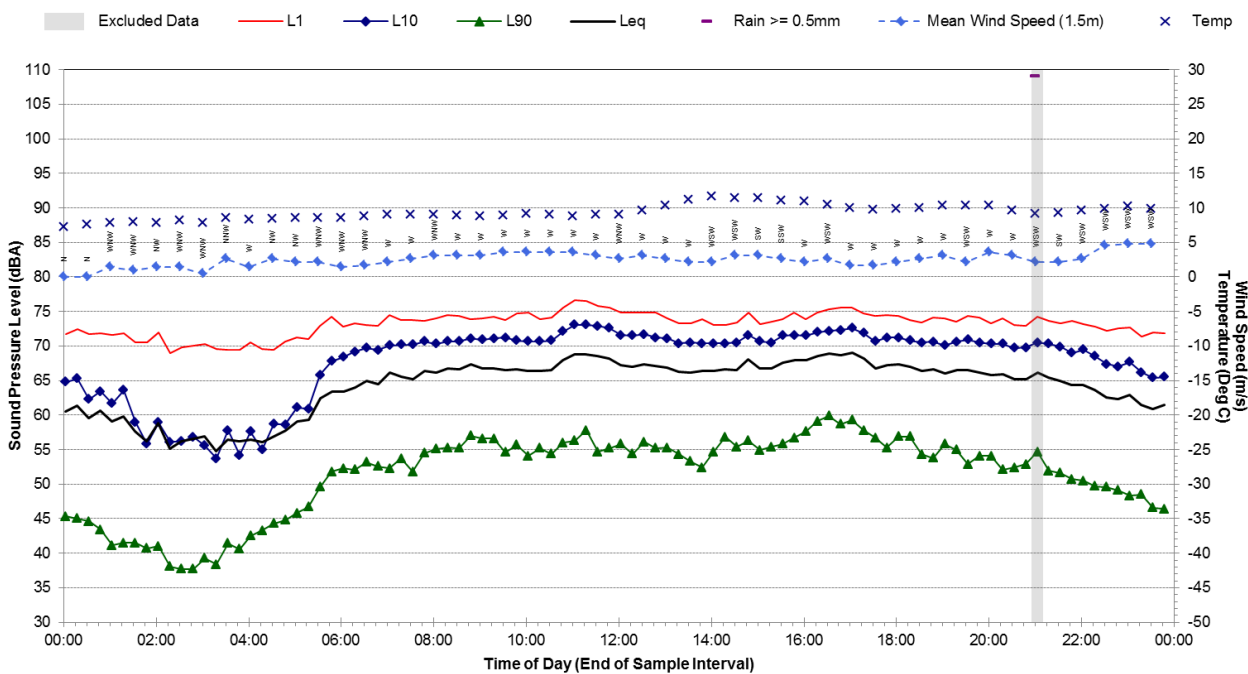
Statistical Ambient Noise Levels

B.25 - Sunday, 26 June 2016



Statistical Ambient Noise Levels

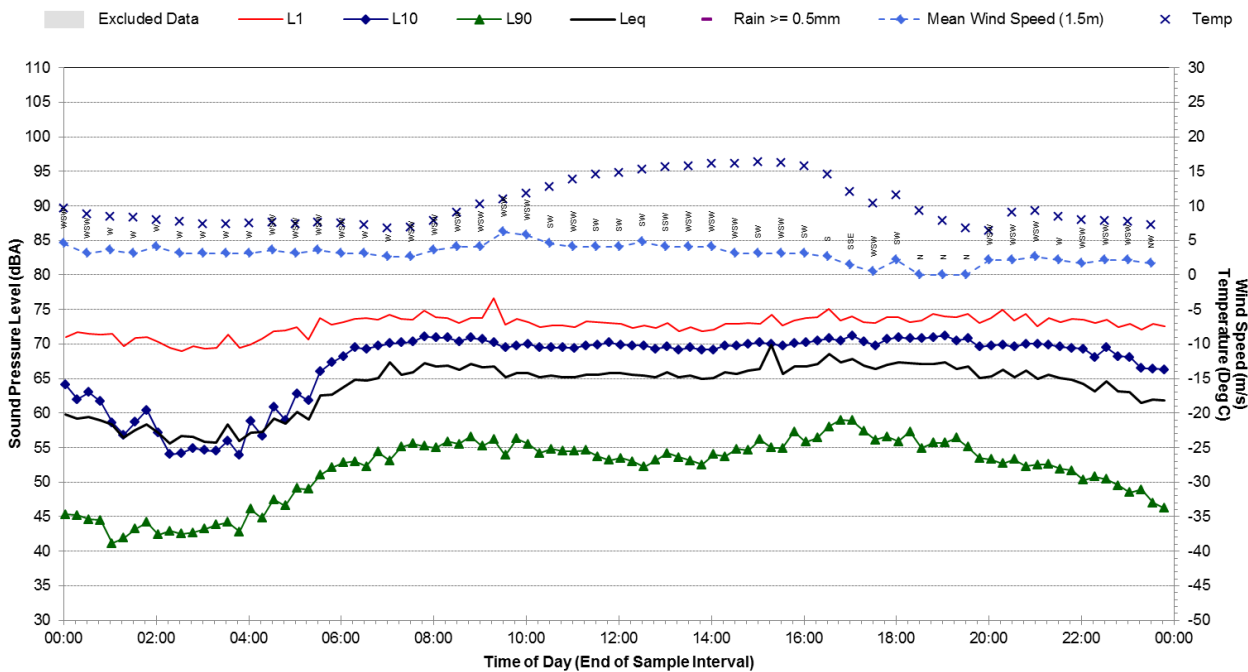
B.25 - Monday, 27 June 2016



Background Noise Monitoring Results – B.21

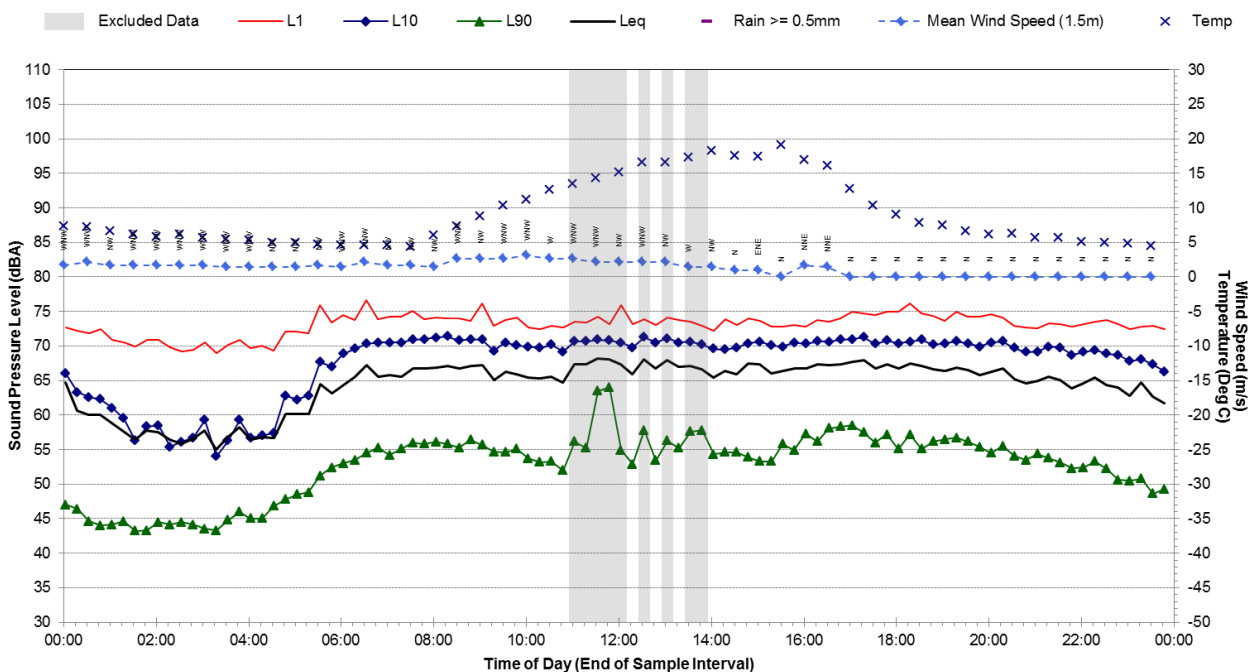
Statistical Ambient Noise Levels

B.25 - Tuesday, 28 June 2016



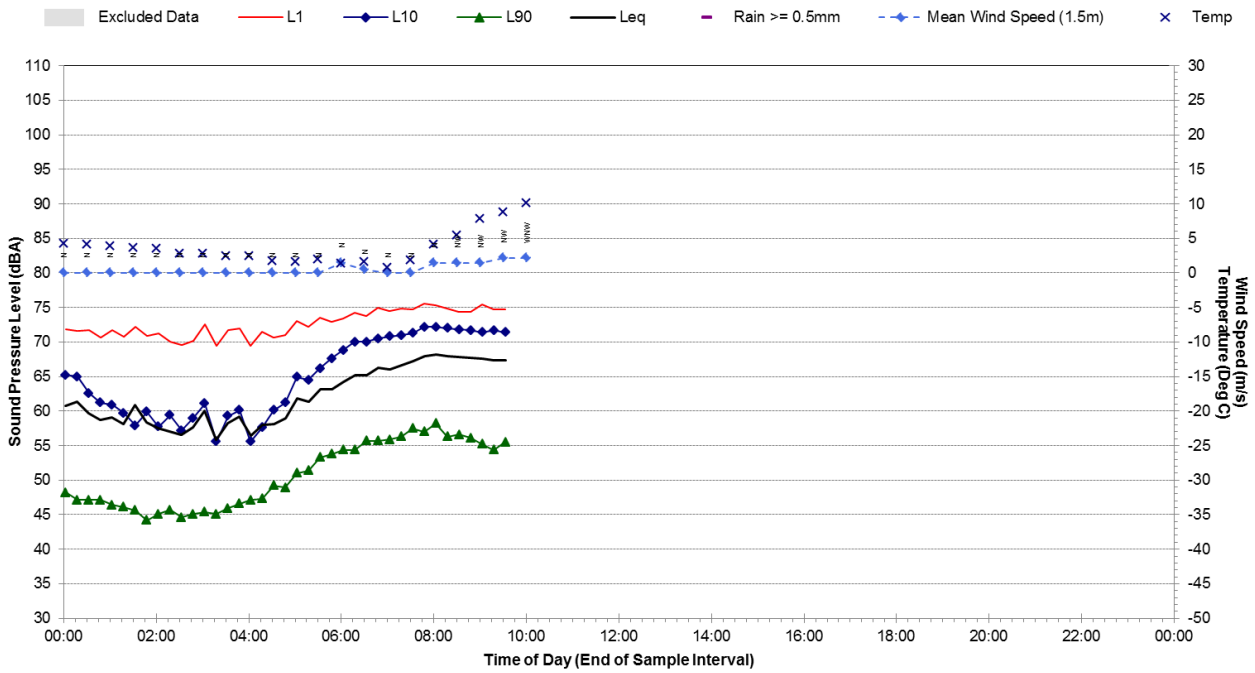
Statistical Ambient Noise Levels

B.25 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.25 - Thursday, 30 June 2016



Background Noise Monitoring Results – B.22

Noise Monitoring Location: B.22
Noise Monitoring Address: 258 South Terrace, Bankstown 2200

Logger Device Type: Bruel & Kjaer 2250 Light
 Logger Serial No: 3004710

Ambient noise logger deployed to the south of the down Bankstown Line track in line with residential address 258 South Terrace, Bankstown. Logger located beside a tree and in front of the corridor fence and track ballast. 360 degrees free field logger placement with direct line of sight north to the rail corridor and south over South Terrace.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by constant road traffic from the South Terrace and intermittent bird noise. LAeq noise levels at this location were influenced by multiple car horns from the rail crossing intersection, noise from the nearby bus terminal and rail noise due to the 10m proximity to the track.

Map of Noise Monitoring Location



Ambient Noise Logging Results – INP Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	54	64	64	77
Evening	51	63	62	77
Night-time	42	60	58	69

Attended Noise Measurement Results

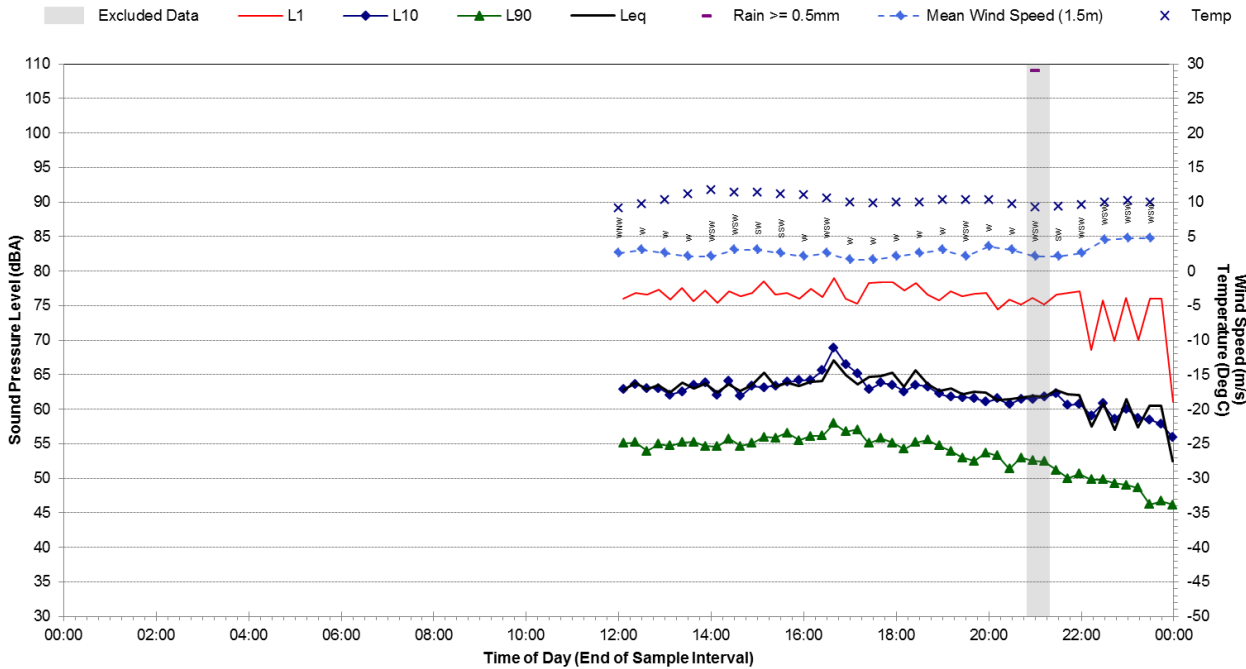
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
27/06/2016	11:52	57	64	79

Photo of Noise Monitoring Location



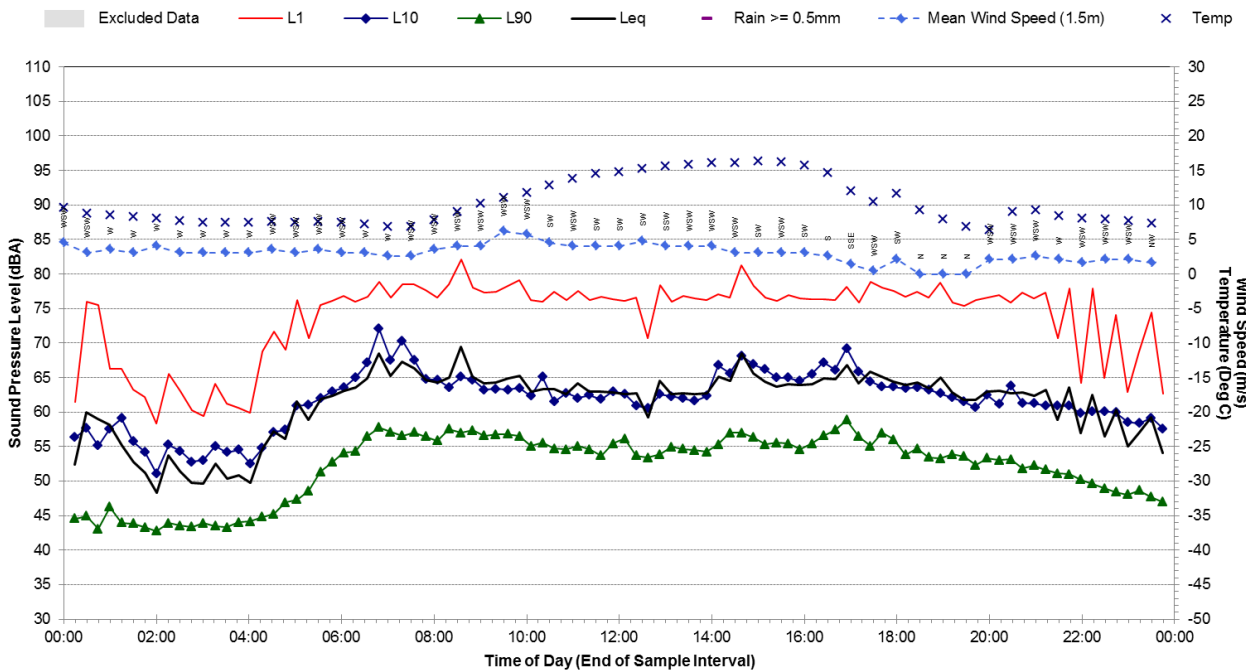
Statistical Ambient Noise Levels

B.26 - Monday, 27 June 2016



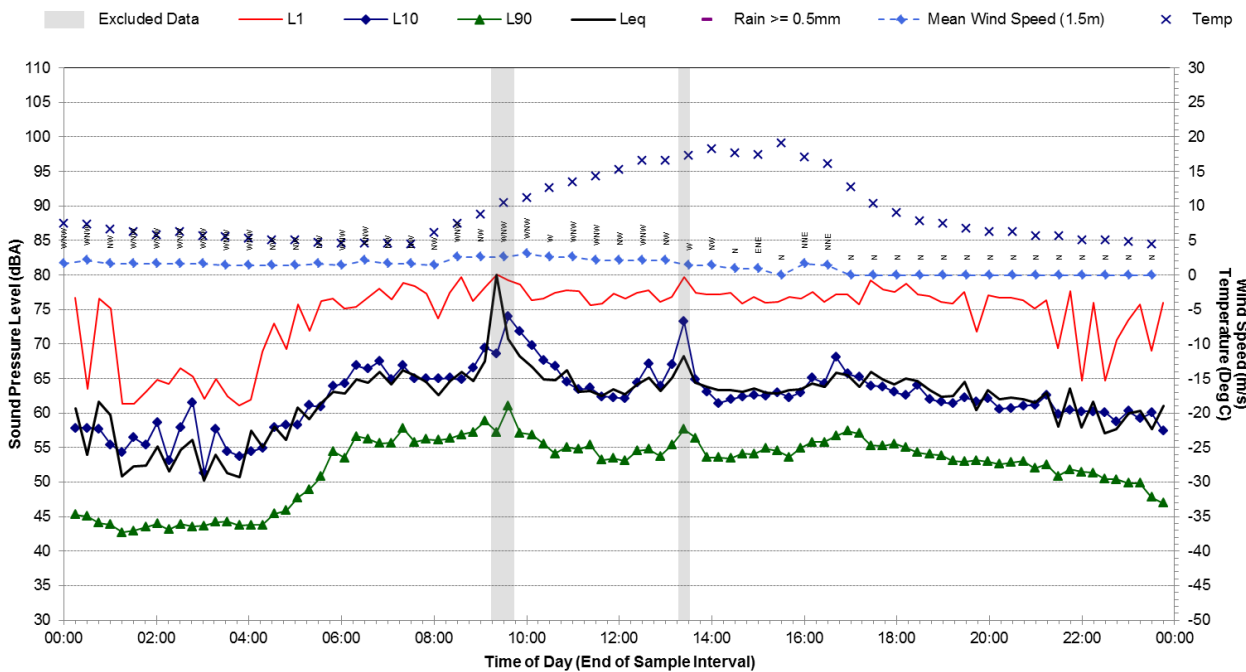
Statistical Ambient Noise Levels

B.26 - Tuesday, 28 June 2016



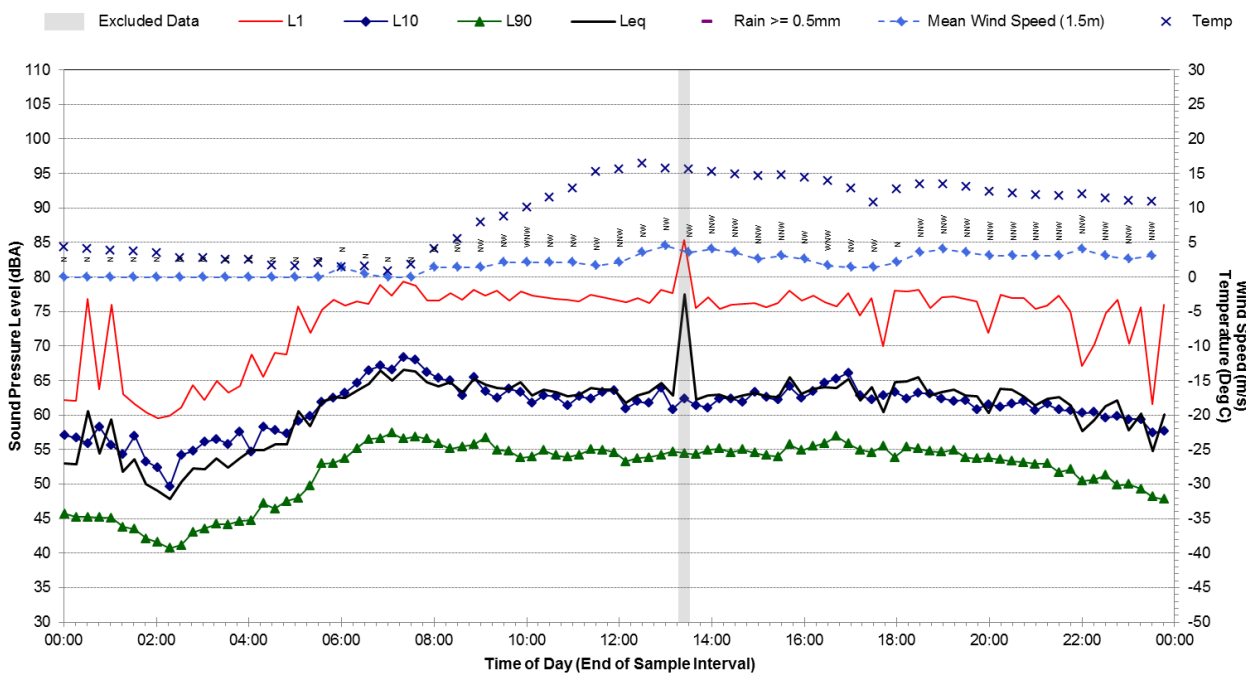
Statistical Ambient Noise Levels

B.26 - Wednesday, 29 June 2016



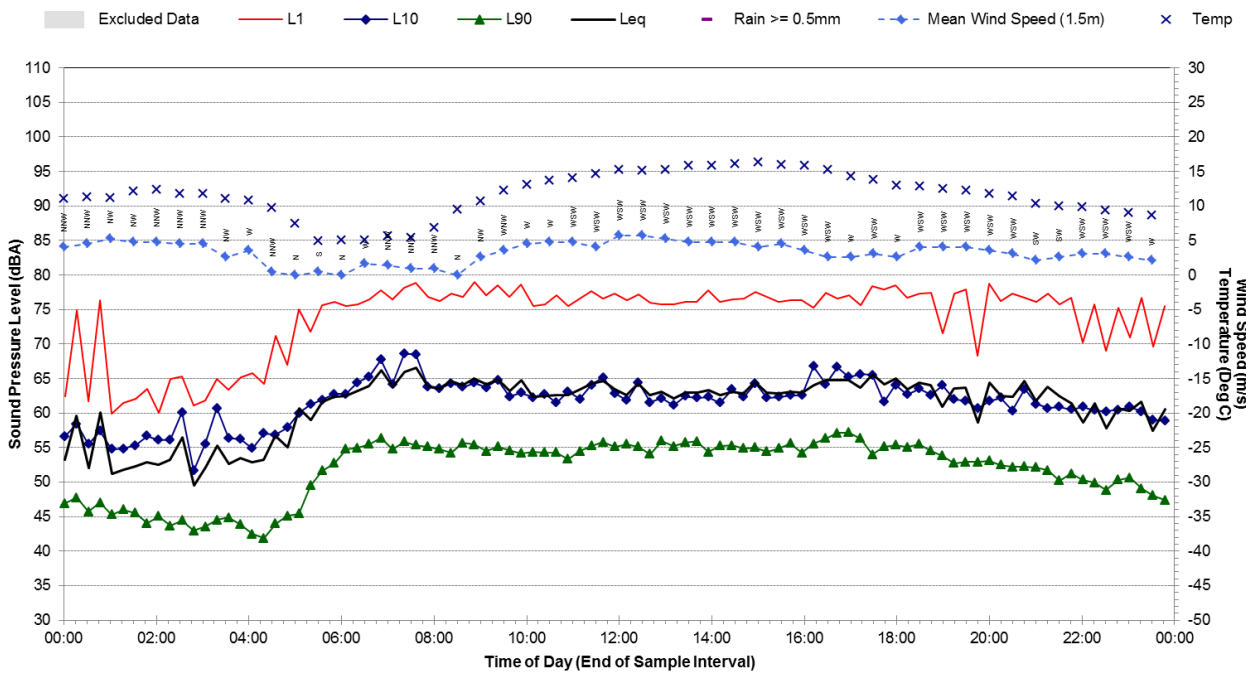
Statistical Ambient Noise Levels

B.26 - Thursday, 30 June 2016



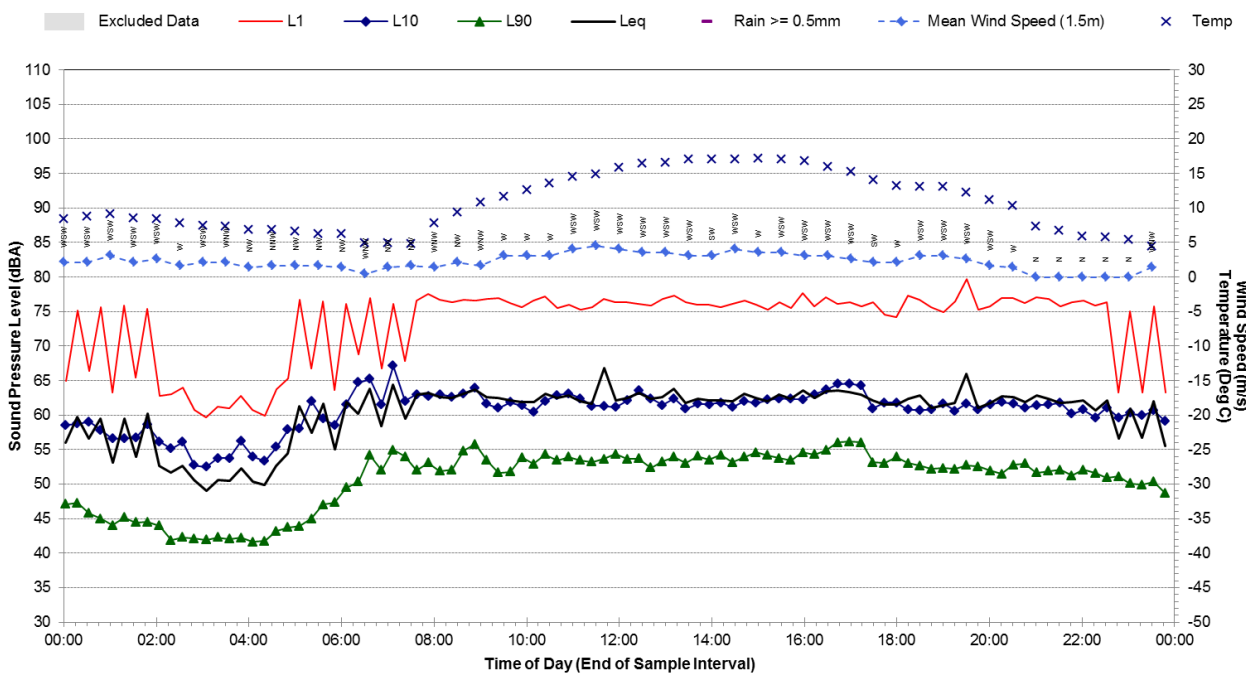
Statistical Ambient Noise Levels

B.26 - Friday, 1 July 2016



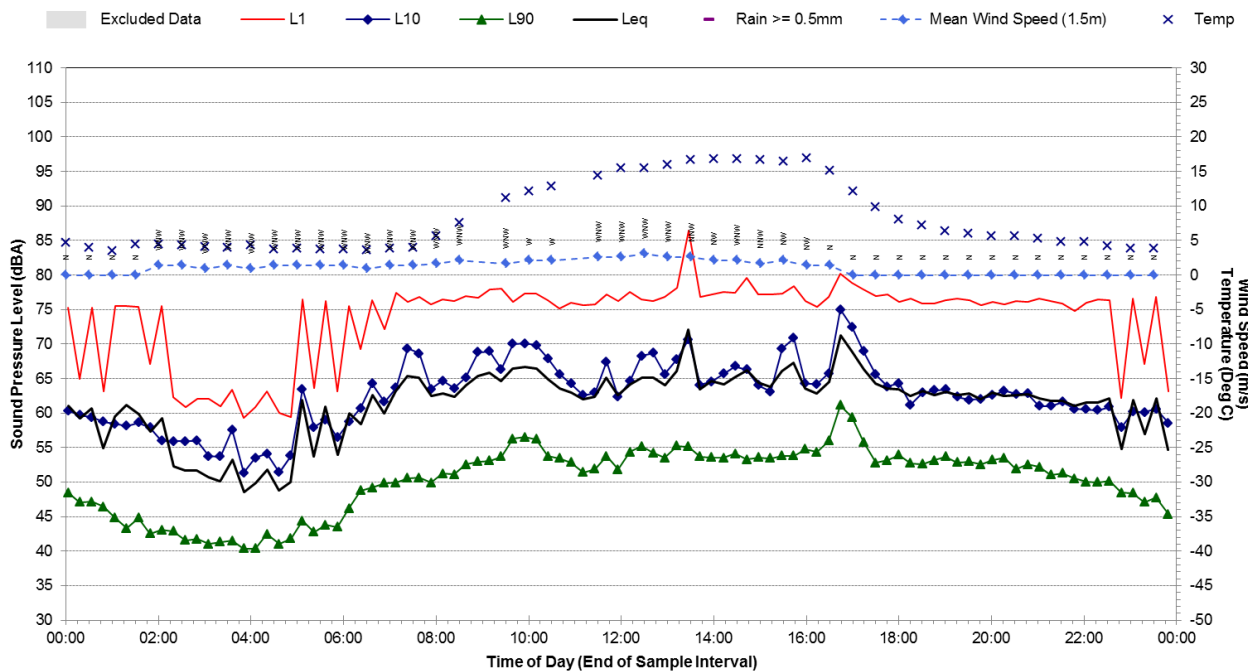
Statistical Ambient Noise Levels

B.26 - Saturday, 2 July 2016



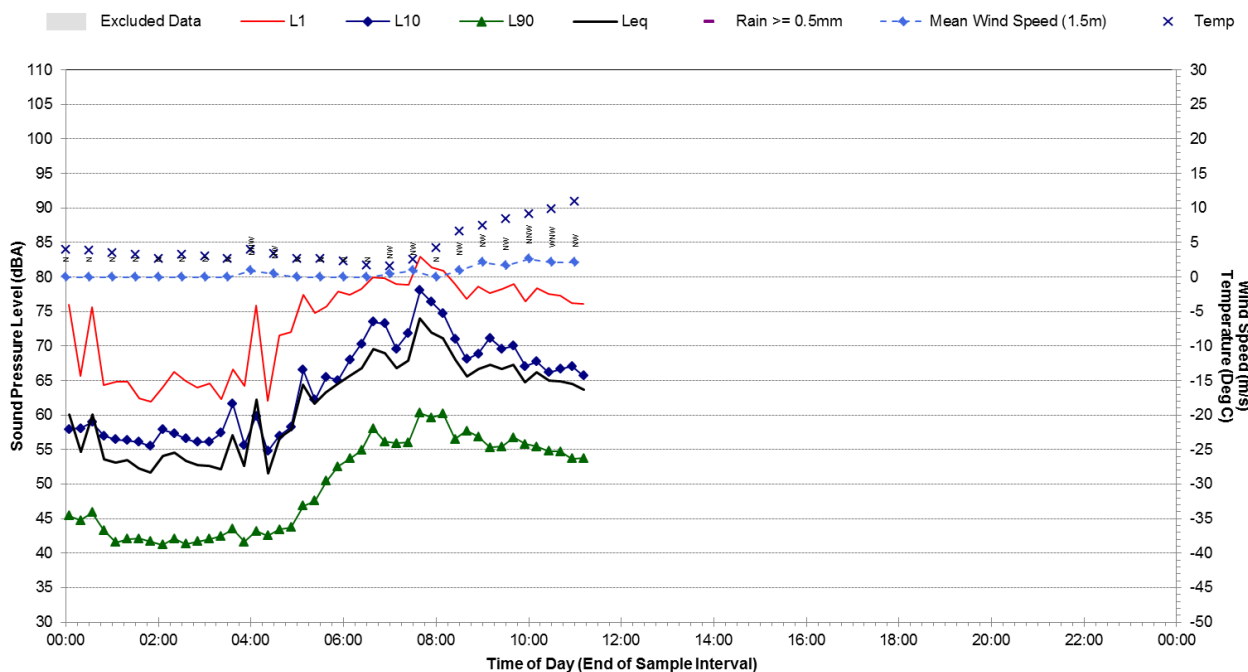
Statistical Ambient Noise Levels

B.26 - Sunday, 3 July 2016



Statistical Ambient Noise Levels

B.26 - Monday, 4 July 2016



Background Noise Monitoring Results – B.23

Noise Monitoring Location: B.23
Noise Monitoring Address: 17 Weigand Avenue, Bankstown 2200

Logger Device Type: Svantek 957
 Logger Serial No: 27522

Ambient noise logger deployed at the south east of the residential address 17 Weigand Avenue, Bankstown. Logger located behind the front wall of the property, with line of sight south over Weigand Avenue towards a noise wall providing shielding from the Bankstown Line.

Attended noise measurements indicate that the ambient noise environment at this location is dominated by children playing (nearby school), distant road traffic noise and intermittent bird noise. LAeq noise levels at this location were influenced by aircraft noise and rail noise due to the property lying approximately 35m north east of the nearest Bankstown Line track.

Map of Noise Monitoring Location



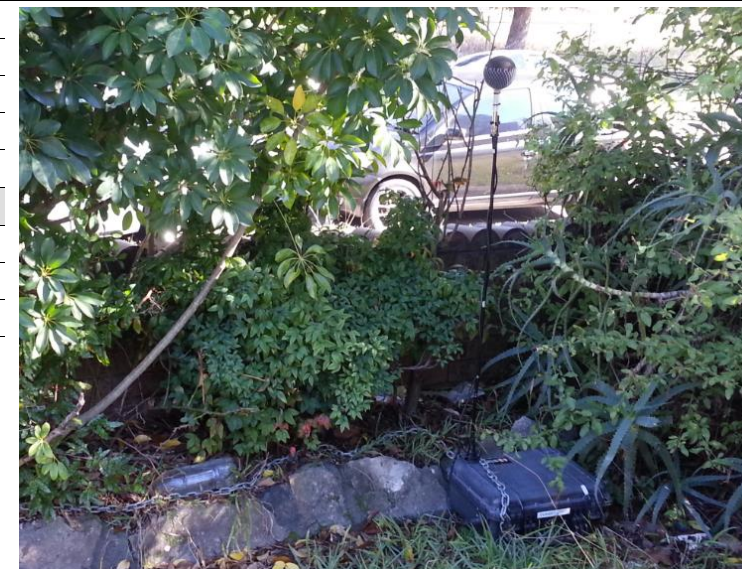
Ambient Noise Logging Results – INP Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	42	56	53	69
Evening	43	55	50	68
Night-time	39	52	45	64

Attended Noise Measurement Results

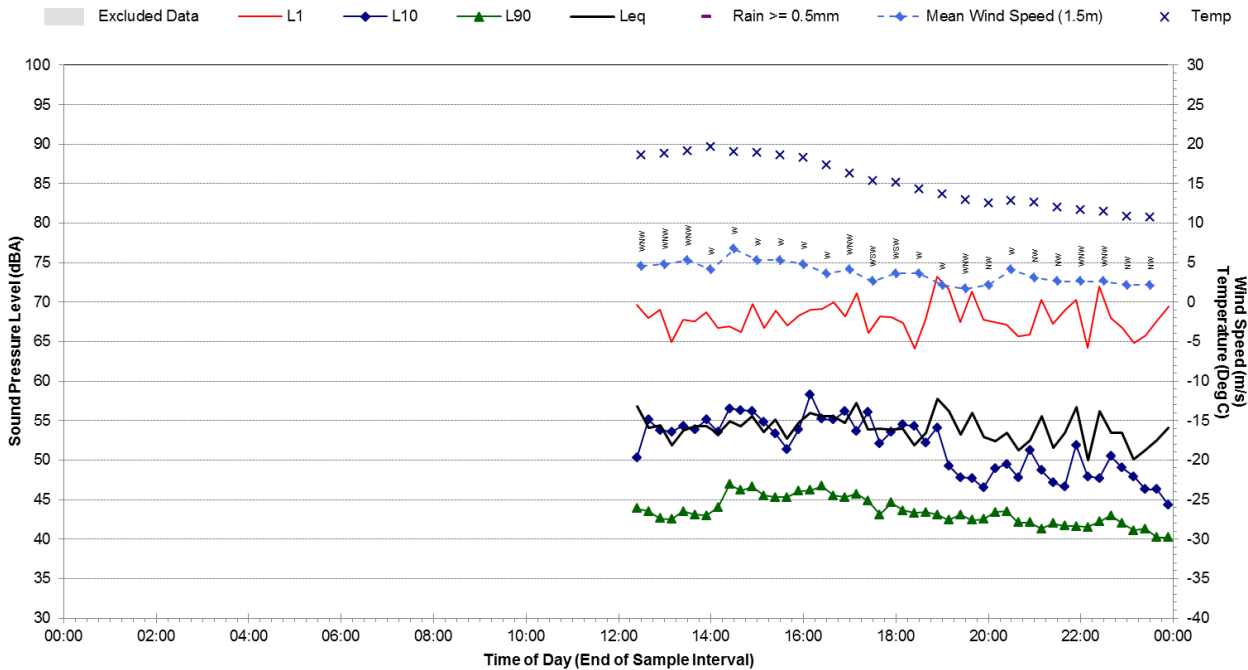
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmx
22/06/2016	12:01:57	46	58	78

Photo of Noise Monitoring Location



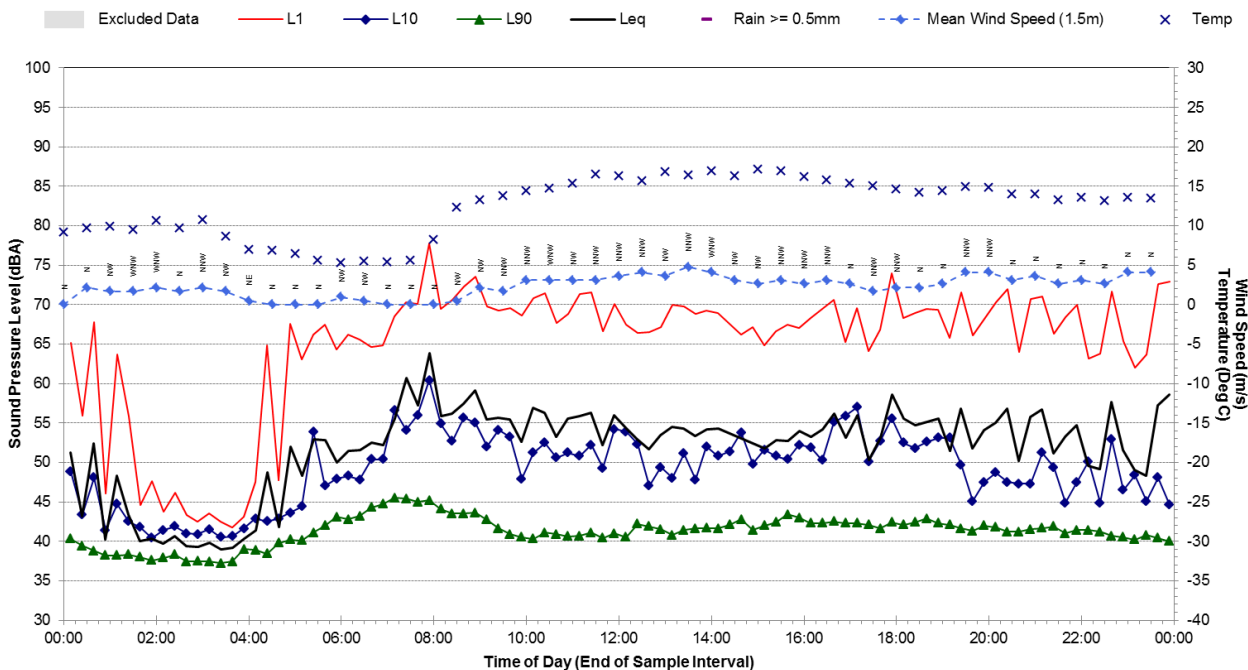
Statistical Ambient Noise Levels

B.27 - Wednesday, 22 June 2016



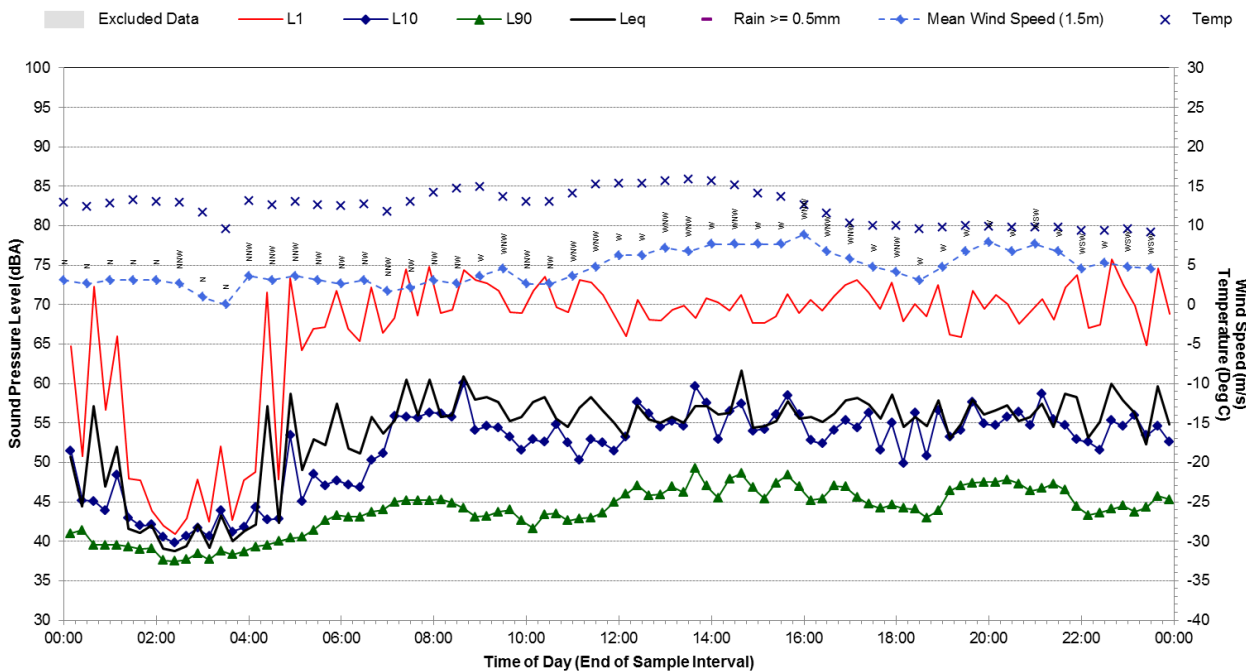
Statistical Ambient Noise Levels

B.27 - Thursday, 23 June 2016



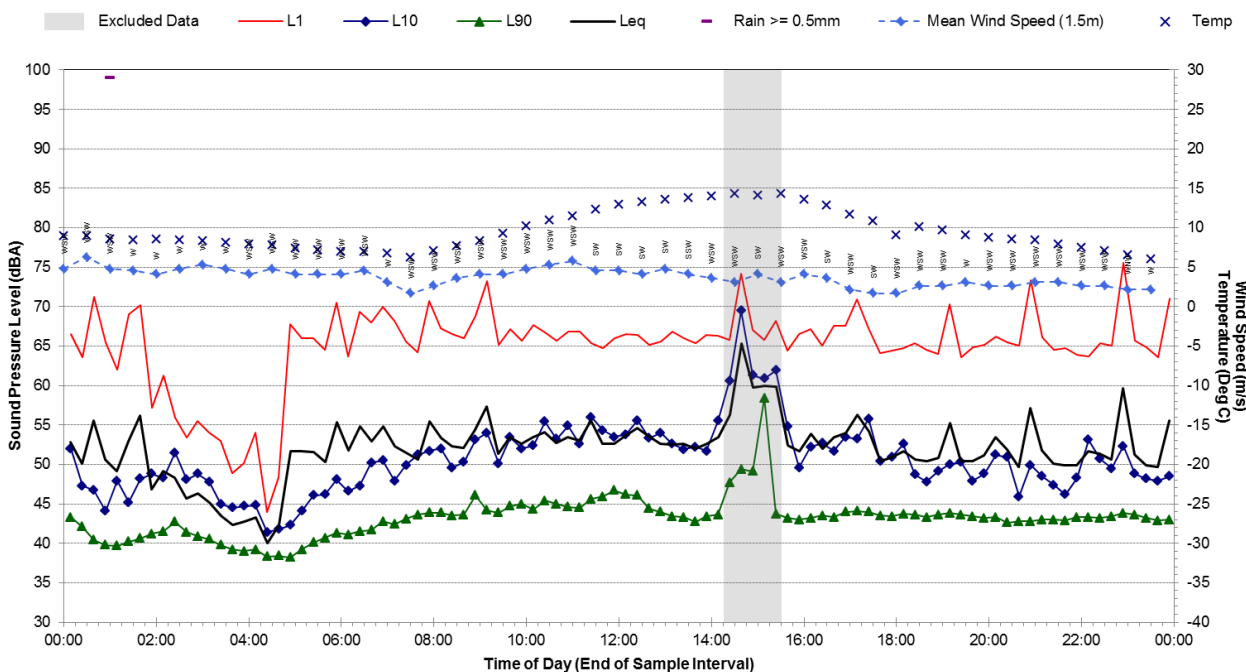
Statistical Ambient Noise Levels

B.27 - Friday, 24 June 2016



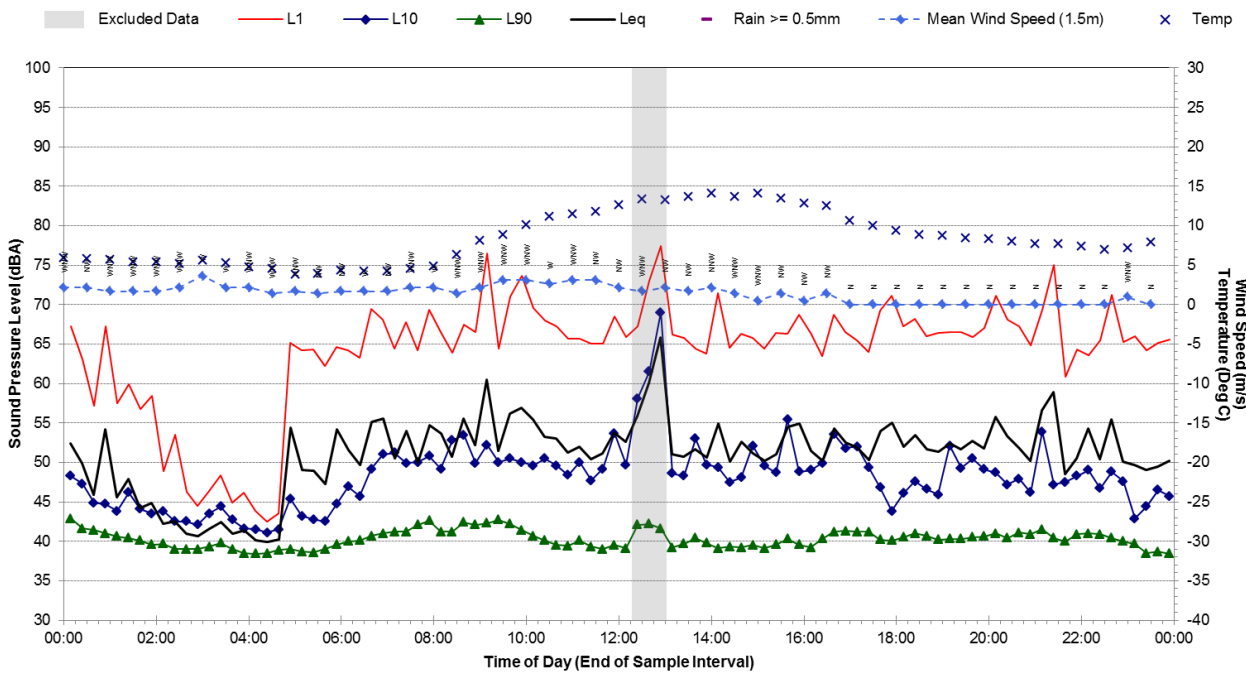
Statistical Ambient Noise Levels

B.27 - Saturday, 25 June 2016



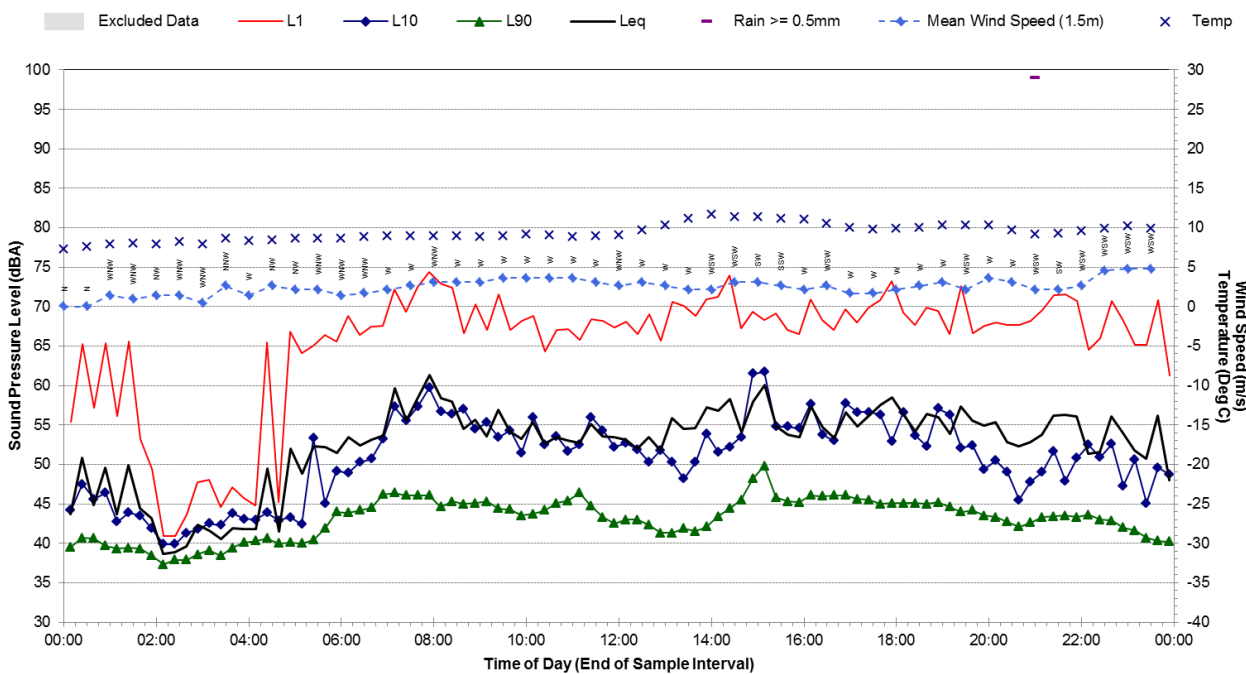
Statistical Ambient Noise Levels

B.27 - Sunday, 26 June 2016



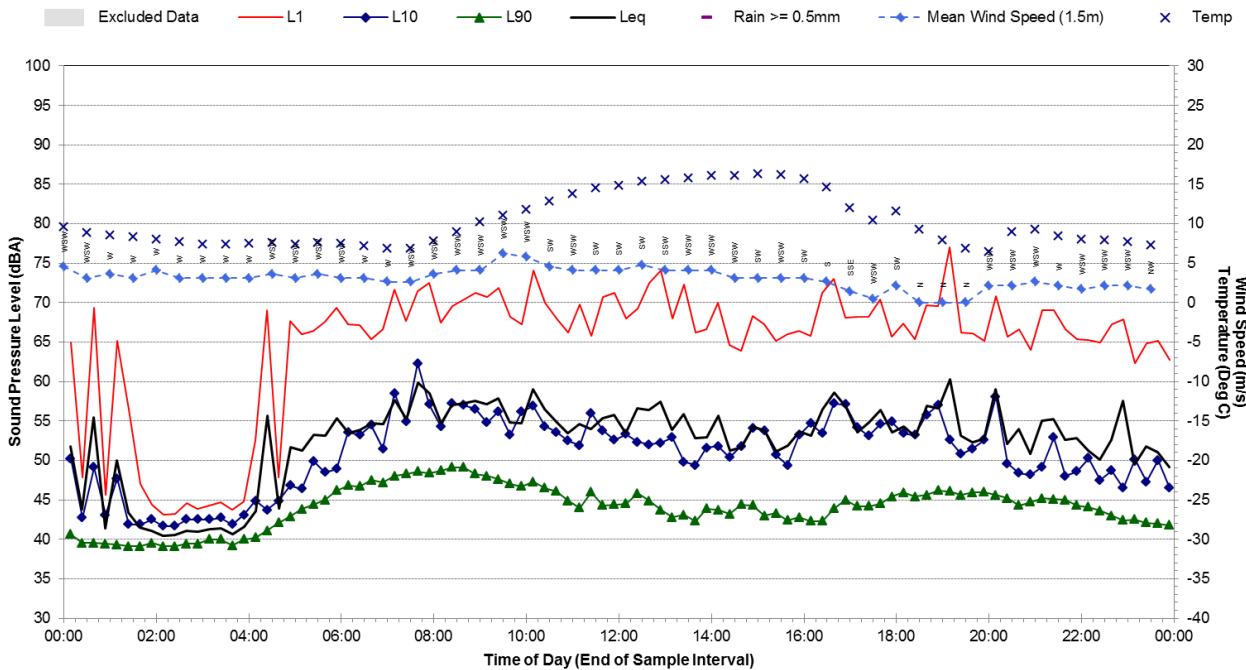
Statistical Ambient Noise Levels

B.27 - Monday, 27 June 2016



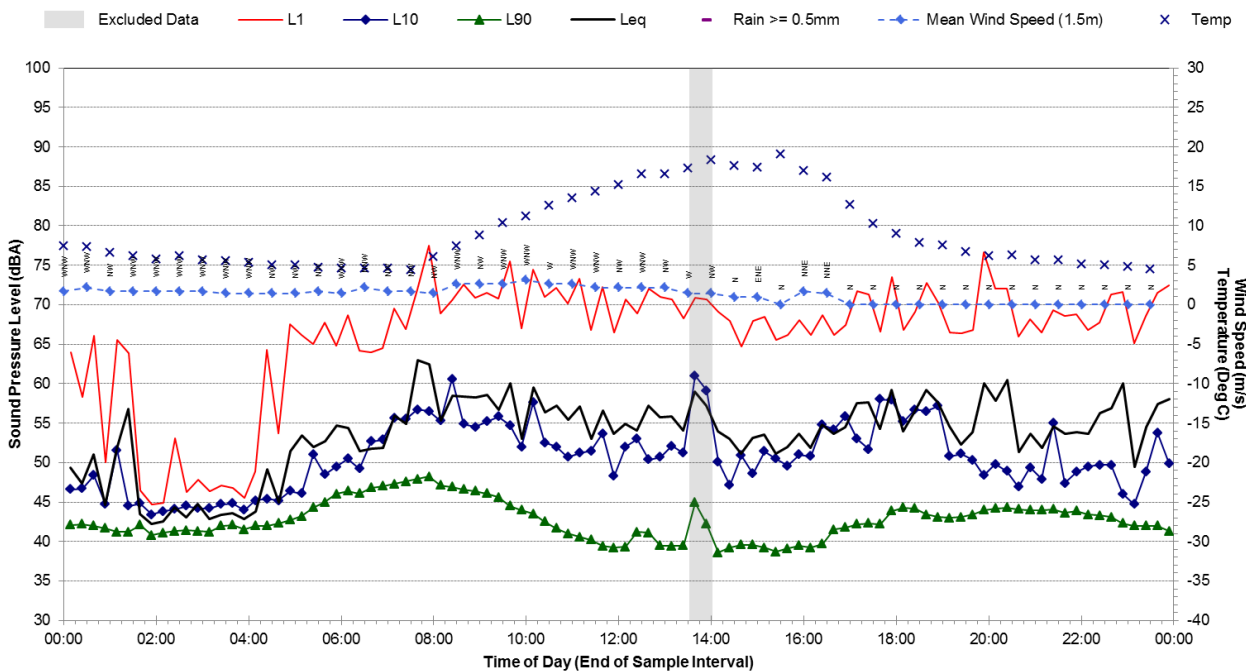
Statistical Ambient Noise Levels

B.27 - Tuesday, 28 June 2016



Statistical Ambient Noise Levels

B.27 - Wednesday, 29 June 2016



Statistical Ambient Noise Levels

B.27 - Thursday, 30 June 2016

