

**NOISE RESULTS 2016**

**License Number:** 3391  
**Licensee:** RIX'S CREEK PTY. LIMITED  
 PO BOX 4  
 EAST MAITLAND NSW 2323  
**Premises:** RIX'S CREEK COLLIERY  
 RIX'S CREEK LANE  
 SINGLETON NSW 2330

**Monitoring Frequency:** Twice per year (July and December)  
**Sampling method:** 72 hour continuous (LA10, 15 minute)  
**Limits:** Nil

**July**      **Published:** 5 August 2016  
**Sampled:** 5/7/16 - 29/7/16  
**Obtained:** 1 August 2016

Location	Date	Start time	End time	Measurement period	Measured levels - dB(A)			Limit(s) - Under average conditions (neutral atmosphere) and not to inversion conditions	Observations	(Potential) non-compliance/breach
					L10	L90	Leq			
1 Singleton Heights	18/7/2016-22/7/2016	09:45	10:45	15 min Day	46.5 - 78.5	37.5 - 59.5	46.5 - 88.5	42	Mine operating 24 hours a day.	
				15 min Evening	48.5 - 62	41 - 52	47 - 65.5	42		
				15 min night	45.0 - 73.5	40.5 - 55.5	43.5 - 86	40		
2 Off Bridgeman Road (Retreat)	5/7/2016 - 8/7/2016	10:00	14:15	15 min Day	61.5 - 98	49 - 79.5	58 - 94	42	Mine operating 24 hours a day.	
				15 min Evening	55.5 - 90.5	49 - 73	54 - 86.5	42		
				15 min night	52.5 - 89	46.5 - 68.5	50.5 - 85.5	40		
3 Off Maison Dieu Road	12/7/2016 - 15/7/2016	07:30	13:15	15 min Day	56 - 101	48 - 81.5	54 - 97	38	Mine operating 24 hours a day.	
				15 min Evening	52 - 95.5	45.5 - 74	50 - 91.5	38		
				15 min night	53 - 99.5	47 - 78.5	51.5 - 95	38		
4 Off the New England Highway, north of premises boundary (Camberwell)	25/7/2016 - 29/7/2016	10:45	13:45	15 min Day	70 - 104	57 - 91.5	66 - 100	n/a	Mine operating 24 hours a day.	
				15 min Evening	69.5 - 97.5	56 - 84.5	67 - 93.5	n/a		
				15 min night	59.5 - 99.5	52.5 - 87	56.5 - 95.5	n/a		

**December**      **Published:** 9 February 2017  
**Sampled:** 5/12/16 - 19/12/16  
**Obtained:** 1 February 2017

Location	Date	Start time	End time	Measurement period	Measured levels - dB(A)			Limit(s) - Under average conditions (neutral atmosphere) and not to inversion conditions	Observations	(Potential) non-compliance/breach
					L10	L90	Leq			
1 Singleton Heights	5/12/2016 - 8/12/2016	9:45	0:00	15 min Day	38.5 - 71	31 - 58	37 - 57.5	42	Mine operating 24 hours a day	
				15 min Evening	41.5 - 70.5	35.5 - 53	39.5 - 67	42		
				15 min night	43.5 - 58	30.5 - 52.5	40.5 - 59	40		
2 Off Bridgeman Road (Retreat)	16/12/2016 - 19/12/2016	8:30	0:00	15 min Day	51 - 74	36.5 - 73	48.5 - 73.5	42	Mine operating 24 hours a day	
				15 min Evening	50 - 73.5	35.5 - 72	50.5 - 72.5	42		
				15 min night	43 - 73	36.5 - 71.5	40 - 72	40		
3 Off Maison Dieu Road	12/12/2016 - 15/12/2016	7:15	0:00	15 min Day	34.5 - 64.5	27.5 - 50	33 - 60	38	Mine operating 24 hours a day	
				15 min Evening	36 - 54.5	28 - 45.5	33.5 - 51.5	38		
				15 min night	28 - 45.5	27.5 - 37	28 - 47	38		
4 Off the New England Highway, north of premises boundary (Camberwell)	12/12/2016 - 15/12/2016	10:45	0:00	15 min Day	50.5 - 89.5	35.5 - 71.5	47 - 85	n/a	Mine operating 24 hours a day	
				15 min Evening	47.5 - 85.5	36 - 66	44.5 - 81.5	n/a		
				15 min night	50.5 - 74	34.5 - 52.5	47 - 70	n/a		

# 1 SINGLETON HEIGHTS

## 5.1.6 NM07 – 27 July 2016

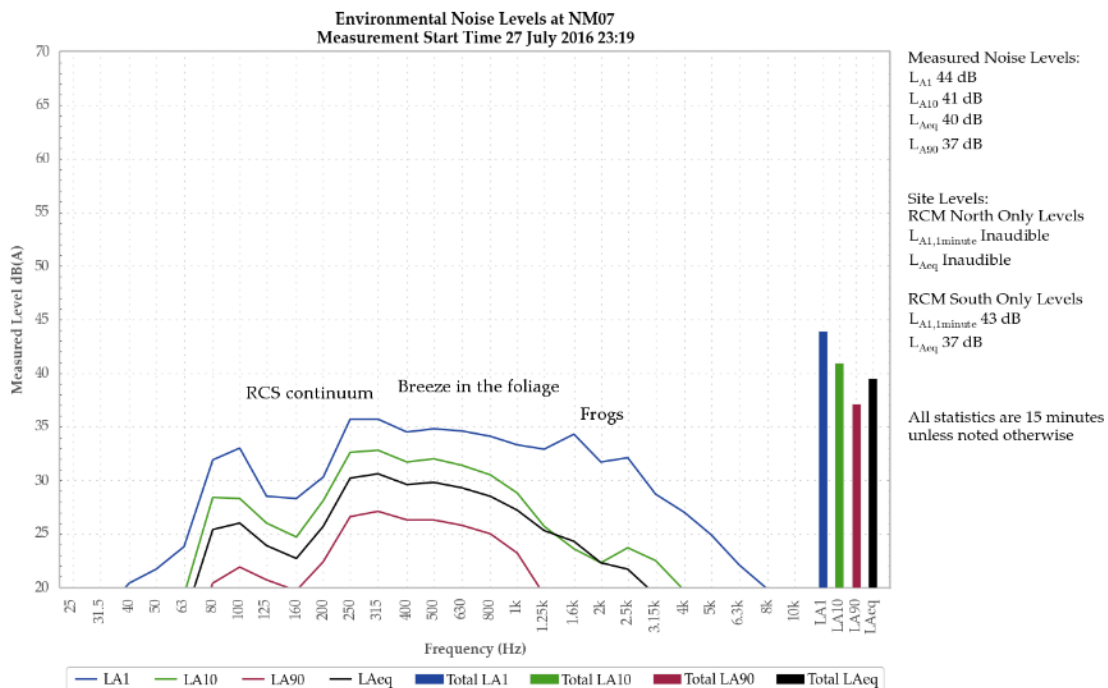


Figure 8: Environmental Noise Levels, NM07 - McMahon Way

RCN was inaudible during the measurement.

An engine and fan continuum, transmission and engine noise from RCS was audible during the measurement, generating a site only LAeq of 37 dB. Surges in engine noise generated the LA1,1minute of 43 dB.

Activities at RCS, breeze in foliage and breeze on the microphone generated all measured levels.

Distant trains and frogs were also noted.

## 2 RETREAT

### 5.1.5 NM06 – 27 July 2016

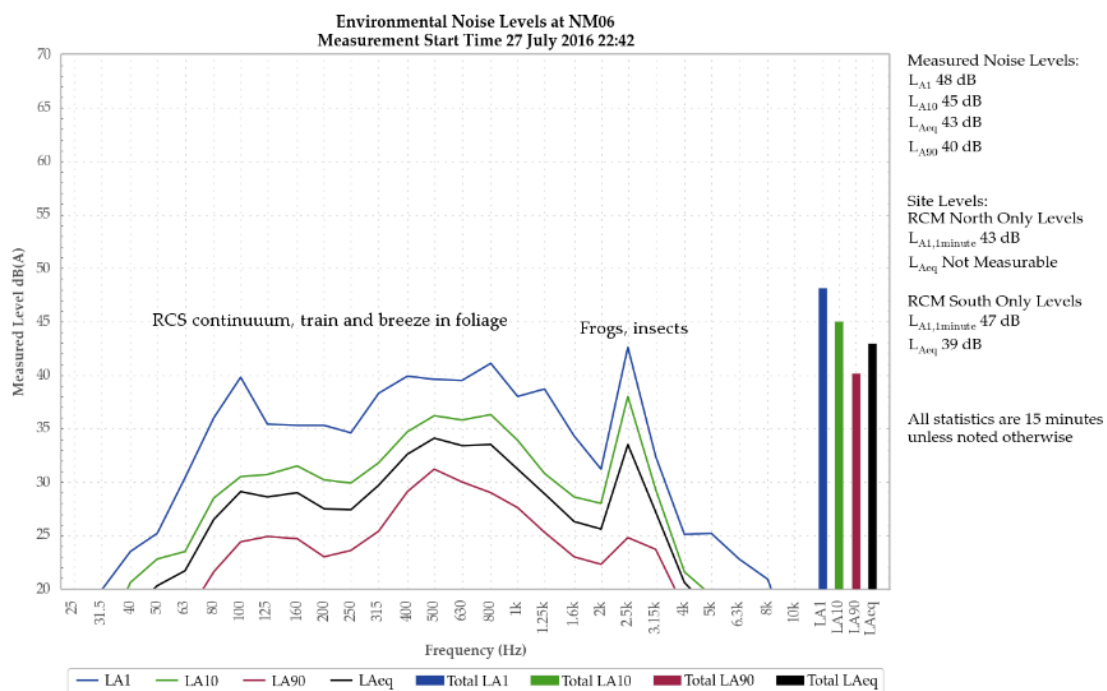


Figure 7: Environmental Noise Levels, NM06 – 427 Bridgman Road

An engine and fan continuum from RCS was audible during the measurement, generating a site only  $L_{Aeq}$  of 39 dB. Surges in engine noise generated an  $L_{A1,1minute}$  of 47 dB. RCS was noted as being the dominant noise source.

A low-level engine continuum from RCN was audible during the measurement, however was not measurable. Surges in engine noise generated an  $L_{A1,1minute}$  of 43 dB.

Activities at RCS, breeze in foliage, breeze on the microphone, frogs and insects were primarily responsible for the measured  $L_{A1}$ ,  $L_{A10}$  and  $L_{Aeq}$ . RCS, breeze in foliage and breeze on the microphone were primarily responsible for the measured  $L_{A90}$ .

Distant trains were also noted.

### 3 MAISON DIEU

#### 5.1.7 NM08 – 28 July 2016

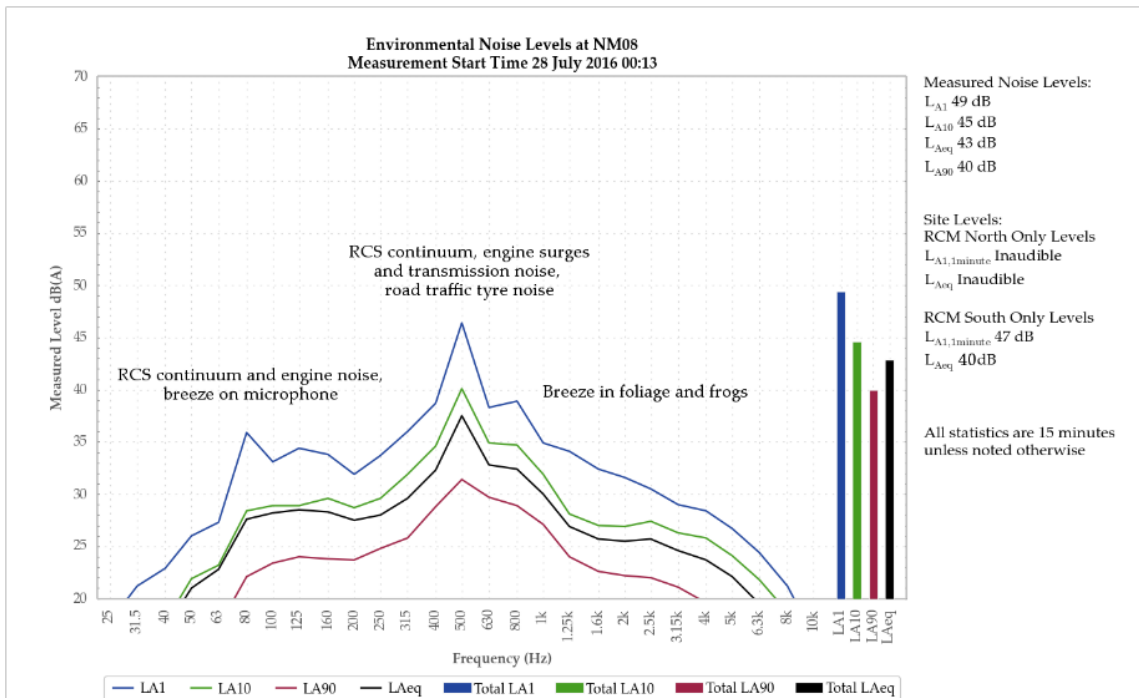


Figure 9: Environmental Noise Levels, NM08 - Cnr Belmadar Way and Maison Dieu Road

RCN was inaudible during the measurement.

A continuum, engine and transmission noise from RCS was audible during the measurement, generating a site only  $L_{Aeq}$  of 40 dB. Surges in engine and transmission noise generated the  $L_{A1,1minute}$  of 47 dB. Dozer tracks were also noted.

The continuum from RCS contributed to the  $L_{Aeq}$  and  $L_{A90}$ . RCS engine surges and road traffic tyre noise generated the  $L_{A1}$ . Breeze in foliage and breeze on the microphone contributed to the measured  $L_{A10}$ ,  $L_{Aeq}$  and  $L_{A90}$ .

Frogs, birds insects and road traffic were also noted.

## 4 CAMBERWELL

### 5.1.1 NM01 – 27 July 2016

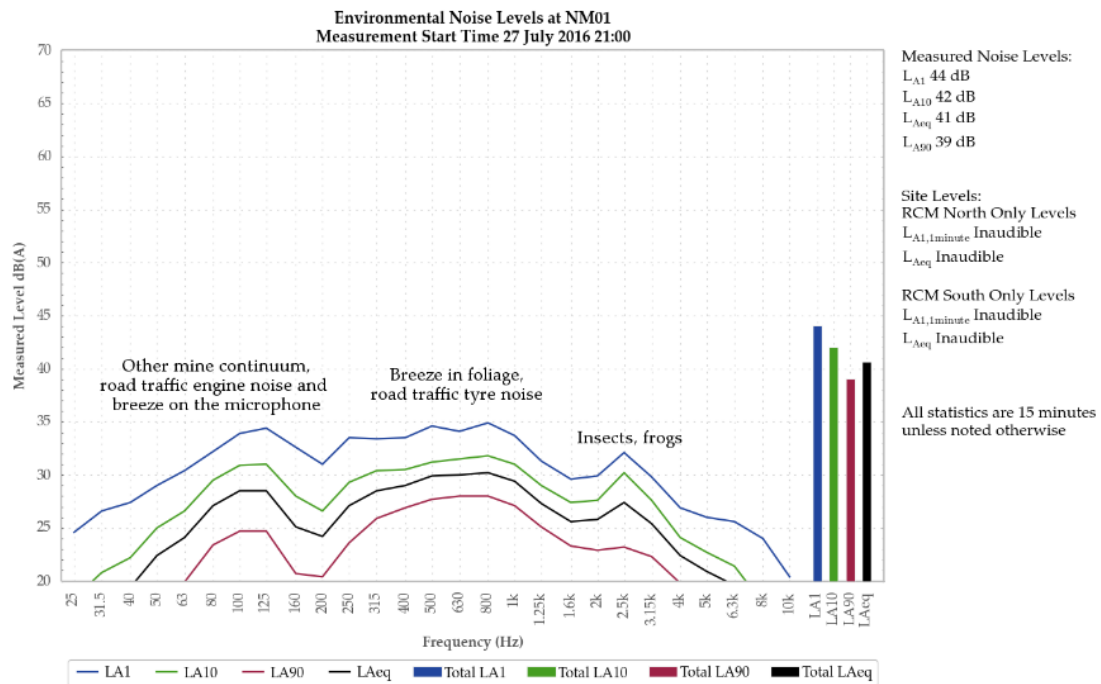


Figure 3: Environmental Noise Levels, NM01 – End of Glennie Street

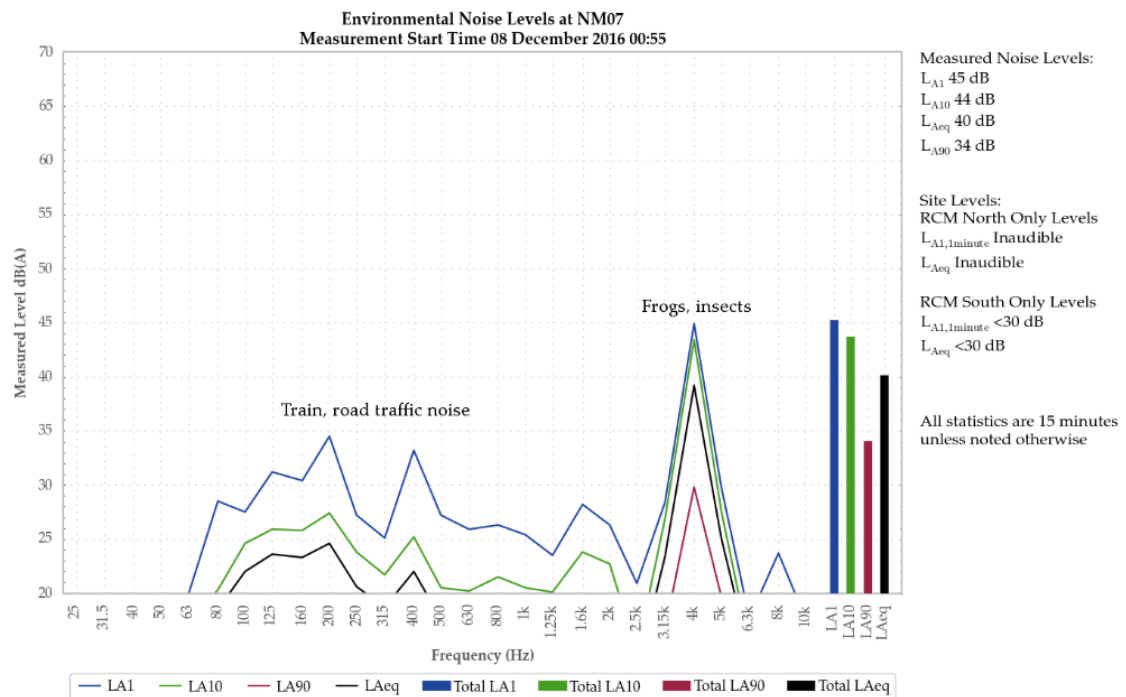
RCN and RCS were inaudible during the measurement.

Another mine continuum, breeze in foliage, breeze on the microphone and road traffic tyre and engine noise generated measured levels.

Frogs and insects were also noted.

# 1 SINGLETON HEIGHTS

## 5.1.5 NM07 – 8 December 2016



**Figure 7: Environmental Noise Levels, NM07 – McMahan Way**

RCN was inaudible during the measurement.

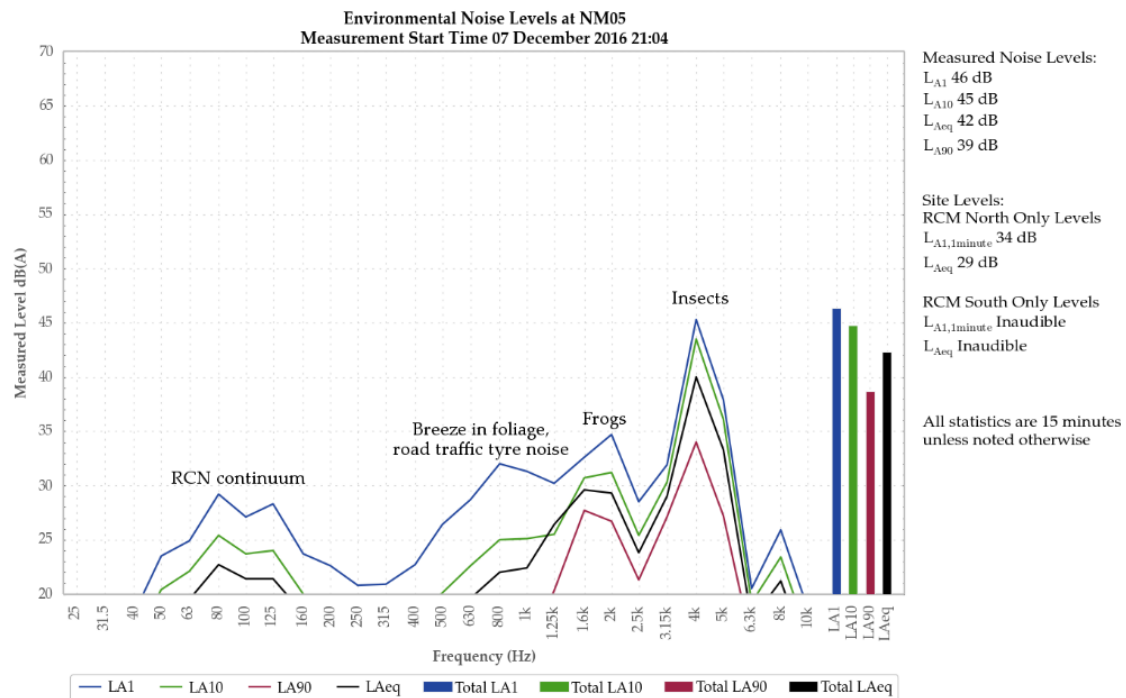
An RCS continuum was audible at very low levels at times during the measurement, generating a site only  $L_{Aeq}$  and  $L_{A1,1minute}$  of less than 30 dB.

Frogs and insects primarily generated measured levels.

A train, road traffic tyre noise, dogs and bats were also noted.

## 2 RETREAT

### 5.1.4 NM05 – 7 December 2016



**Figure 6: Environmental Noise Levels, NM05 – 728 Bridgman Road**

RCS was inaudible during the measurement.

An exhaust and engine continuum from RCN was audible during the measurement, generating a site only  $L_{Aeq}$  of 29 dB. A surge in engine noise generated the  $L_{A1,1minute}$  of 34 dB.

Frogs and insects primarily generated measured levels.

Breeze in foliage and road traffic tyre noise were also noted.

### 3 MAISON DIEU

#### 5.1.6 NM08 – 7 December 2016

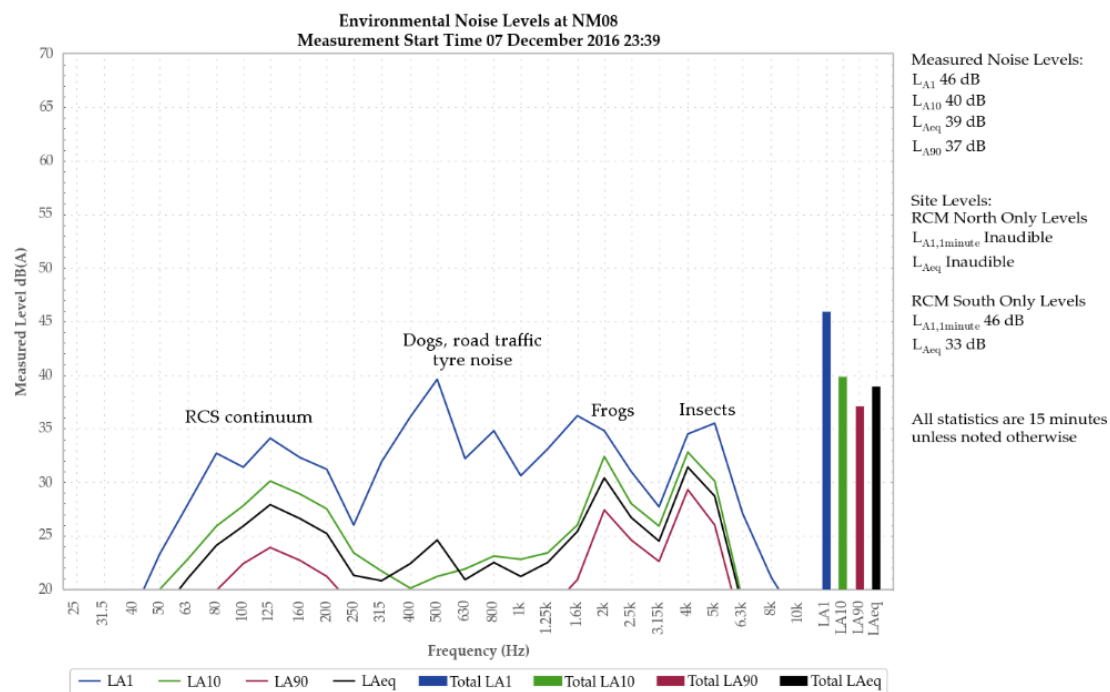


Figure 8: Environmental Noise Levels, NM08 - Cnr Belmadar Way and Maison Dieu Road

RCN was inaudible during the measurement.

A continuum from RCS was audible during the measurement, generating a site only  $L_{Aeq}$  of 33 dB. An impact noise generated a site only  $L_{A1,1minute}$  of 46 dB.

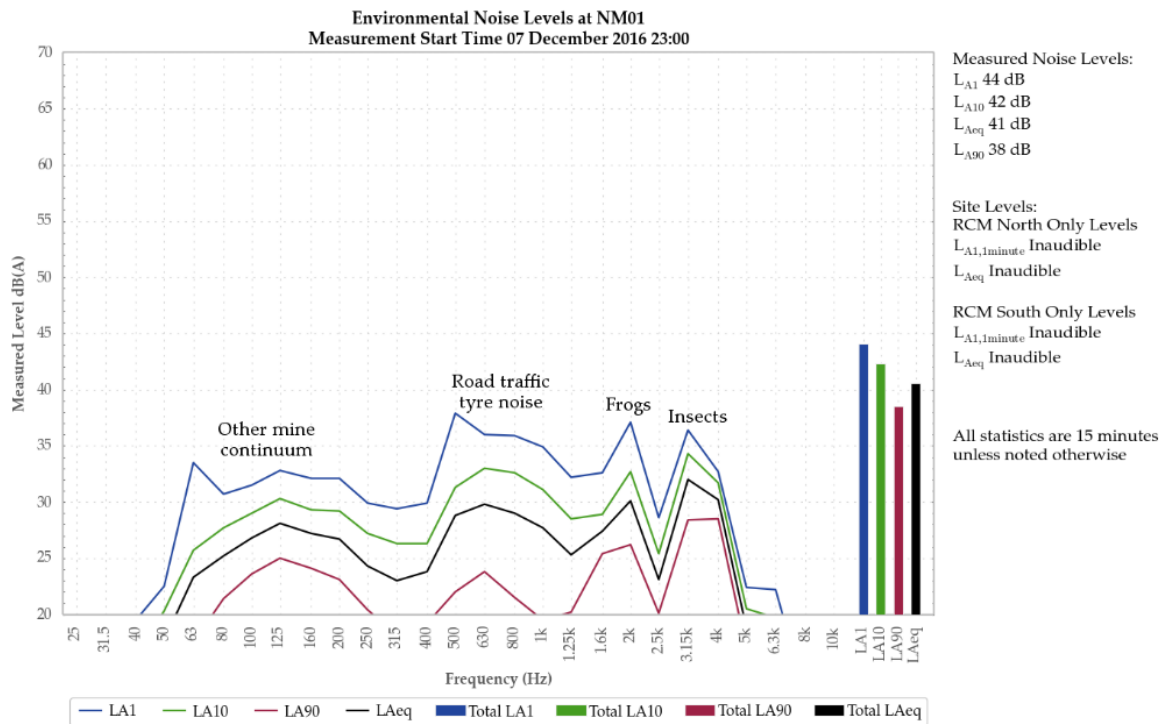
The RCS continuum, frogs and insects generated the measured  $L_{A10}$ ,  $L_{Aeq}$  and  $L_{A90}$ , and also contributed to the  $L_{A1}$ . Dogs and road traffic tyre noise were also contributors to the  $L_{A1}$ .

Breeze in foliage and bats were also noted.



## 4 CAMBERWELL

### 5.1.1 NM01 – 7 December 2016



RCN and RCS were inaudible during the measurement.

Another mine continuum, road traffic tyre noise, frogs and insects all contributed to measured levels.

A train was also noted.





Camberwell

4 Camberwell Noise

Bridgman

New England Hwy

Rixs Creek

2 Retreat Noise

Wattle Ponds

Dyrring

3 Maison Dieu Noise

Maison Dieu

Gouldsville

Long Point

1 Singleton Heights Noise

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Singleton

Clydesdale

Cresford Rd

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

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Google

32°31'15.54" S 151°08'09.99" E

Dec 16, 2008

Eye alt 11.73 mi