

NOISE RESULTS 2014

License Number:	3391	Monitoring Frequency:	Twice per year (July and December)
Licensee:	RIX'S CREEK PTY. LIMITED	Sampling method:	72 hour continuous (LA10, 15 minute)
	PO BOX 4	Limits:	Nil
	EAST MAITLAND NSW 2323		
Premises:	RIX'S CREEK COLLIERY		
	RIX'S CREEK LANE		
	SINGLETON NSW 2330		

July	Published:	19 August 2014
	Sampled:	23/6/14 - 6/7/14
	Obtained:	1 August 2013

Location	Date	Start time	End time	Measurement period	Measured levels - dB(A)			Limit(s) - Under average conditions (neutral atmosphere) and not to inversion conditions	Comments	
					L10	L90	Leq		Observations	(Potential) non-compliance/breach
1 Singleton Heights	23/6/14 - 1/7/14	15:00	07:00	15 min Day	63.5 - 93.5	54 - 69	64 - 92	42	Mine operating 24 hours a day	
				15 min Evening	60 - 88.5	52 - 64	58 - 88	42		
				15 min night	56.5 - 84.5	49 - 59.5	53 - 84	40		
2 Off Bridgeman Road (Retreat)	23/6/14 - 1/7/14	15:00	07:00	15 min Day	62 - 83.5	45.5 - 76.5	60.5 - 80.5	42	Mine operating 24 hours a day	
				15 min Evening	53 - 77	43 - 76	55.5 - 76.5	42		
				15 min night	44.5 - 77	37 - 76	43 - 76.5	40		
3 Off Maison Dieu Road	2/7/14 - 8/7/14	06:45	15:00	15 min Day	37.5 - 60.5	30 - 53	38.5 - 57.5	38	Mine operating 24 hours a day	
				15 min Evening	35.5 - 52	33 - 46	34.5 - 53.5	38		
				15 min night	35.5 - 53.5	32 - 45.5	34 - 52.5	38		
4 Off the New England Highway, north of premises boundary (Camberwell)	2/7/14 - 8/7/14	06:45	15:00	15 min Day	79 - 116	71 - 108	66 - 103.5	n/a	Mine operating 24 hours a day. Readings higher then previous years as noise logger was placed close to New England Highway - this was due to restricted access to monitoring site.	
				15 min Evening	80.5 - 114.5	76.5 - 107	69.5 - 102.5	n/a		
				15 min night	74.5 - 102	68 - 94.5	63 - 89.5	n/a		

December	Published:	10 February 2015
	Sampled:	1/12/14 - 16/12/14
	Obtained:	2 February 2015

Location	Date	Start time	End time	Measurement period	Measured levels - dB(A)			Limit(s) - Under average conditions (neutral atmosphere) and not to inversion conditions	Comments	
					L10	L90	Leq		Observations	(Potential) non-compliance/breach
1 Singleton Heights	8/12/14 - 12/12/2014	13:00	9:45	15 min Day	31.5 - 87	26.5 - 60	29.5 - 88.5	42	Mine operating 24 hours a day	
				15 min Evening	46.5 - 92.5	27.5 - 66.5	49 - 90	42		
				15 min night	27 - 72	25.5 - 51	26 - 70	40		
2 Off Bridgeman Road (Retreat)	1/12/14 - 5/12/14	12:45	10:15	15 min Day	57 - 87	43.5 - 64.5	56.5 - 83	42	Mine operating 24 hours a day	
				15 min Evening	53 - 83	48 - 64	53.5 - 89	42		
				15 min night	45.5 - 59.5	41 - 58	45 - 80.5	40		
3 Off Maison Dieu Road	3/12/14 - 9/12/14	10:15	10:00	15 min Day	36.1 - 70.2	26.3 - 62.1	35.4 - 77	38	Mine operating 24 hours a day	
				15 min Evening	34.9 - 62.5	25.5 - 52.6	34.2 - 64.3	38		
				15 min night	34.3 - 70	31.8 - 57.6	34.1 - 67.9	38		
4 Off the New England Highway, north of premises boundary (Camberwell)	9/12/14 - 16/12/14	10:00	12:45	15 min Day	39.7 - 76.4	30.8 - 53.9	38.9 - 72.3	n/a	Mine operating 24 hours a day	
				15 min Evening	39.5 - 73.7	33.7 - 57.8	37.7 - 73.6	n/a		
				15 min night	35.3 - 64.3	30.6 - 51.1	33.6 - 60.2	n/a		

5.1.1 RCI – McInerneys Road

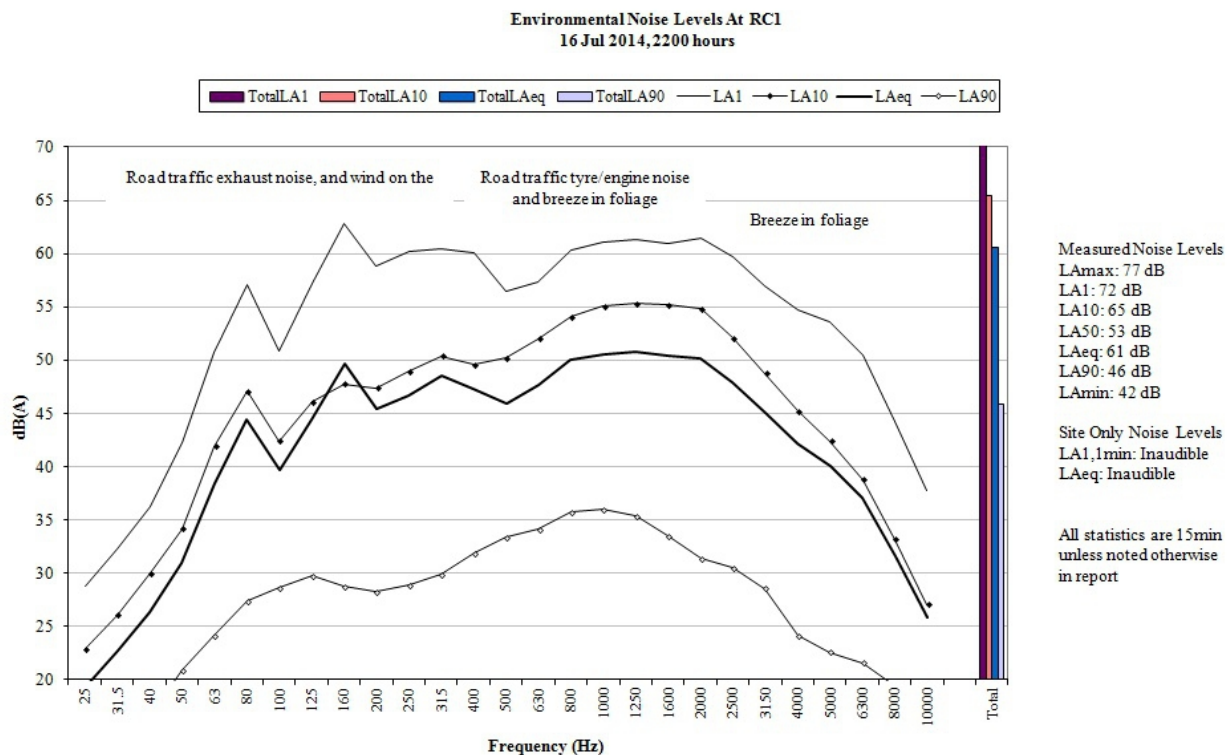


Figure 3: Environmental Noise Levels, McInerneys Road

RCM was inaudible.

Road traffic noise was responsible for all measured levels.

Breeze in foliage, breeze on the microphone and frogs and insects were also noted.

5.1.2 RC2 – Maison Dieu Road

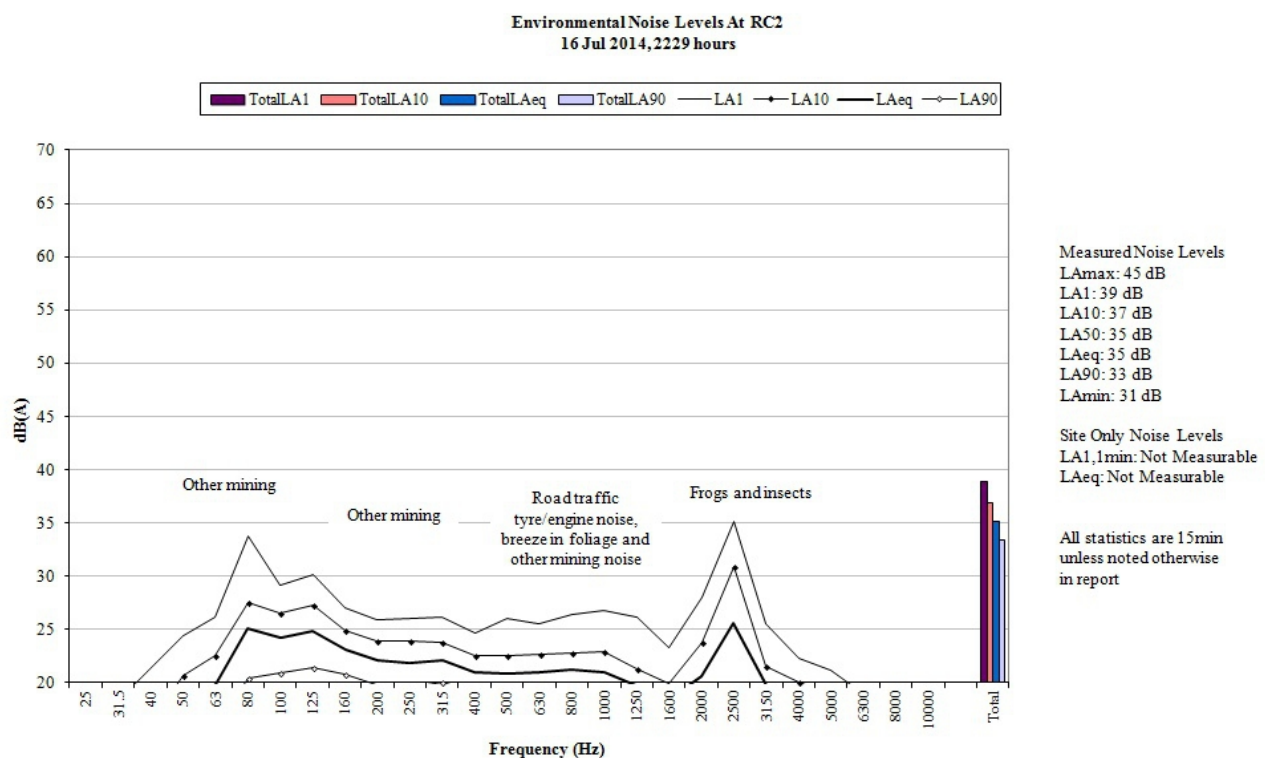


Figure 4: Environmental Noise Levels, Maison Dieu Road

RCM was briefly audible at times throughout the measurement. These levels were not measurable.

A continuum from another mine combined with frogs and insects to generate the measured L_{A1}, L_{A10}, L_{Aeq} and L_{A90}. Breeze in the foliage/on the microphone was a minor contributor to the measured L_{A1} and L_{A10}.

Cows and road traffic noise was also noted.

5.1.3 RC3 – Rodd Close

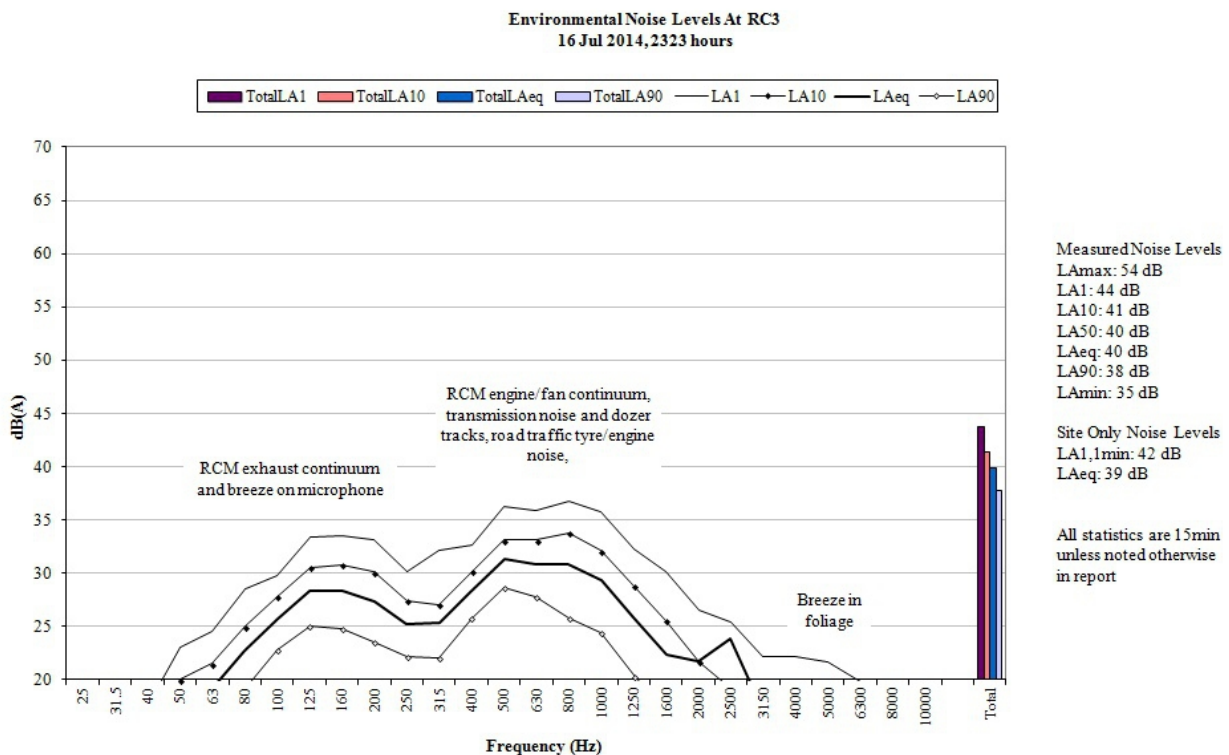


Figure 5: Environmental Noise Levels, Rodd Close

An exhaust and engine/fan continuum from RCM was audible throughout the measurement, generating the site only L_{Aeq} of 39 dB. A surge in the continuum (dumping noise) generated the site only $L_{A1,1min}$ of 42 dB. Track noise and transmission noise was also noted. L_{Aeq} .

RCM was primarily responsible for the measured L_{Aeq} and L_{A90} . Bats, road traffic, locomotive noise and breeze in foliage were also noted.

5.1.4 RC4 – Retreat Road

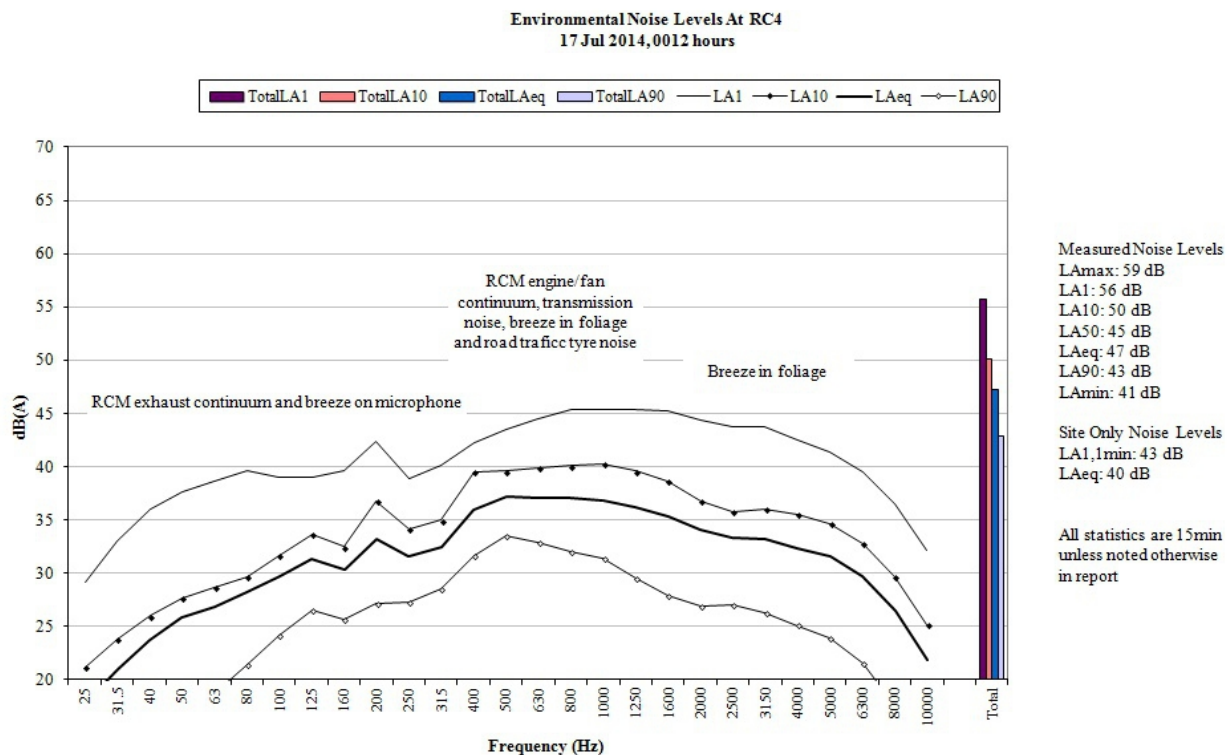


Figure 6: Environmental Noise Levels, Retreat Road

An engine/fan/CHPP continuum from RCM was audible throughout the measurement, generating the site only LAeq of 40 dB. A surge in the continuum generated the site only LA1,1minute of 43 dB. Low level transmission noise was briefly audible.

Breeze in the foliage and on the microphone dominated the acoustic environment, primarily responsible for the measured LA1, LA10, LAeq, and combining with RCM to generate the LA90. Locomotive noise contributed to the measured LA1, LA10 and LAeq. Road traffic noise contributed to the LA1.

5.1.5 RC5 –Retreat Road – Measurement 2

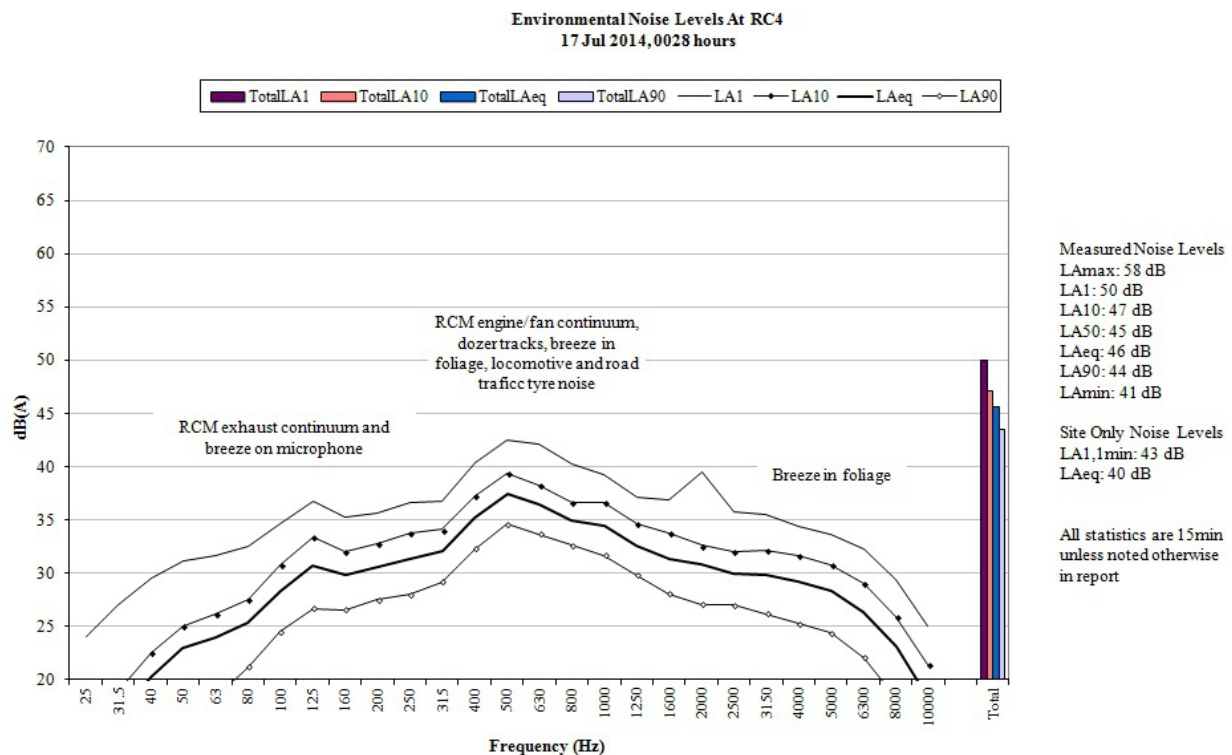


Figure 7: Environmental Noise Levels, Retreat Road

A continuum of engine/fan/CHPP noise and track noise from RCM was audible throughout the measurement, generating the site only LAeq of 40 dB. A surge in the continuum generated the site only LA1,1minute of 43 dB.

Breeze in the foliage and on the microphone dominated the acoustic environment, primarily responsible for the measured LA1, LA10, LAeq, and combining with RCM to generate the LA90. Locomotive noise contributed to the measured LA1, LA10 and LAeq. Road traffic noise contributed to the LA1.

5.1.1 RCI – McInerneys Road

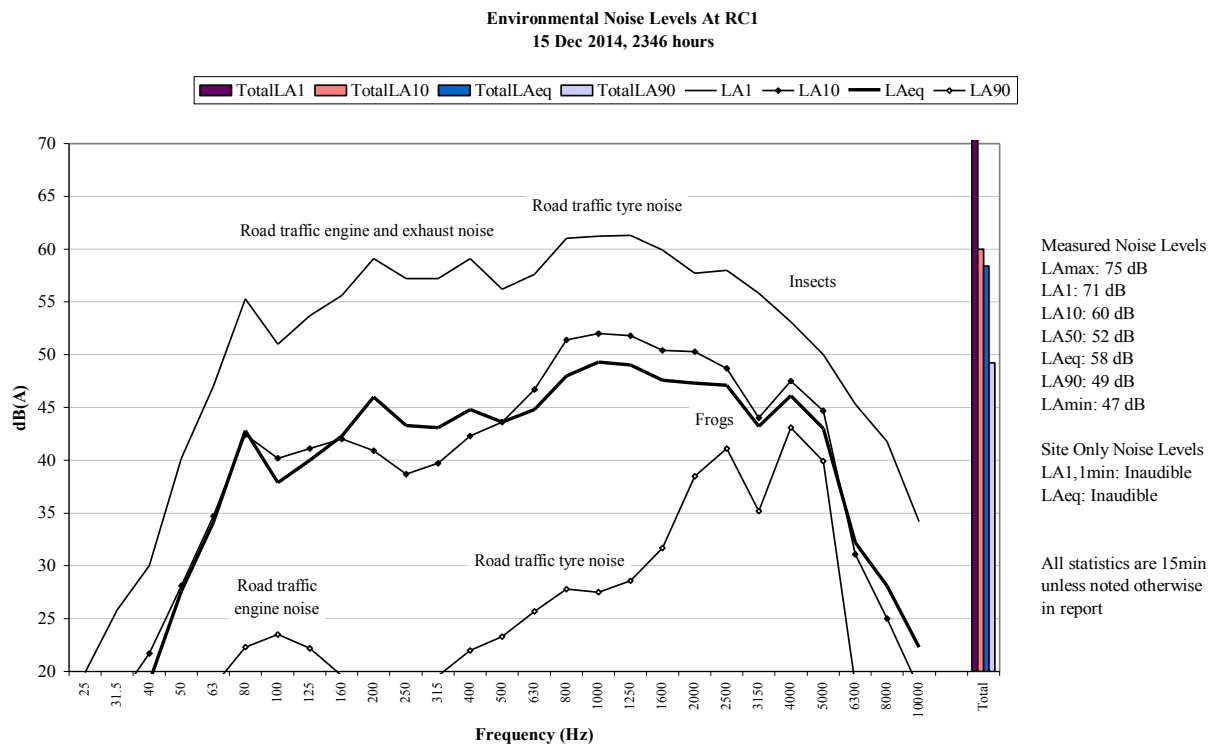


Figure 3: Environmental Noise Levels, McInerneys Road

RCM was inaudible.

Road traffic tyre noise was responsible for the measured LA1, LA10 and LAeq. Insects and frogs generated the measured LA90.

5.1.2 RC2 – Maison Dieu Road

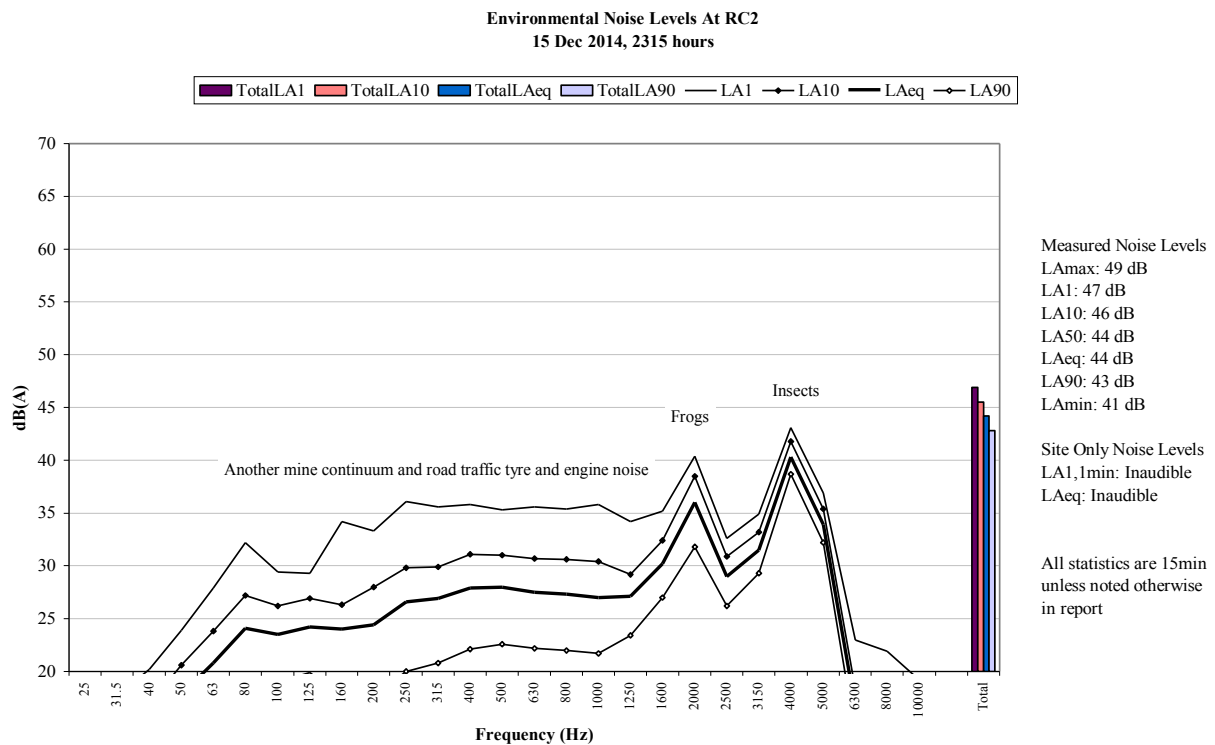


Figure 4: Environmental Noise Levels, Maison Dieu Road

RCM was inaudible.

Frogs and insects were responsible for measured levels.

A continuum and dozer tracks from another mine, a train and road traffic tyre and engine noise were also noted.

5.1.3 RC3 – Rodd Close

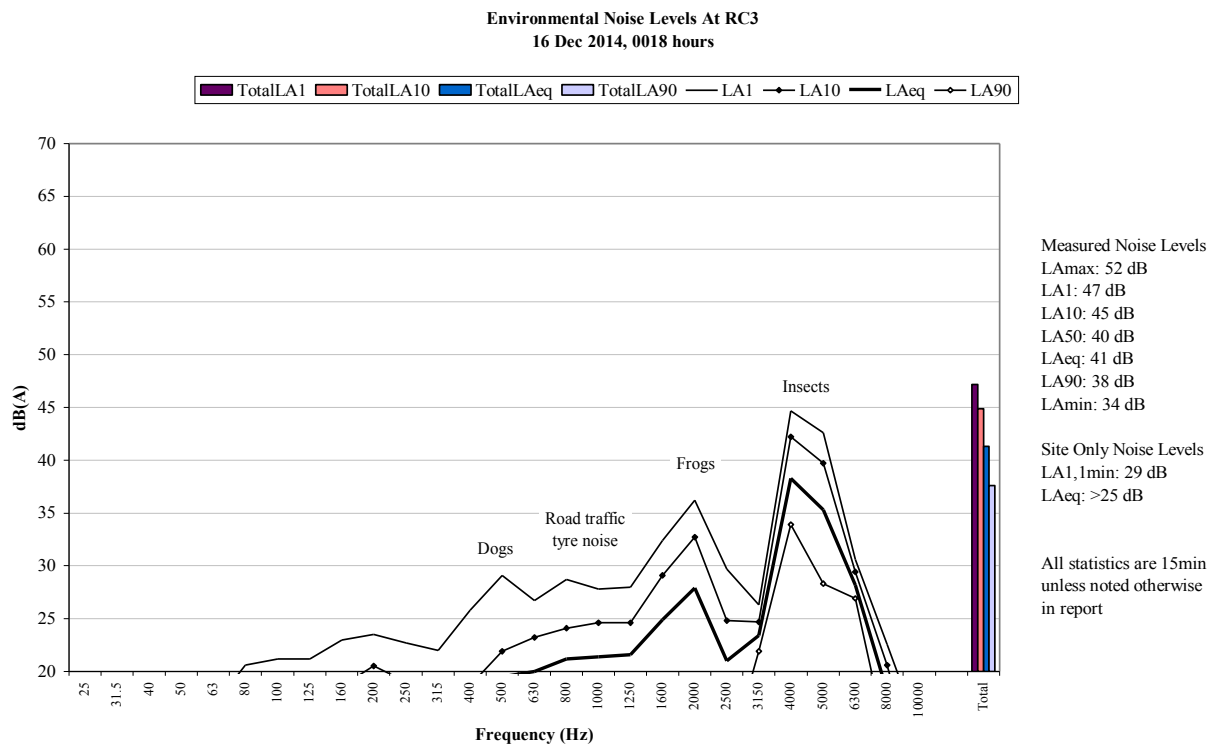


Figure 5: Environmental Noise Levels, Rodd Close

A low-level continuum from RCM was audible at times during the measurement generating the site only LAeq of less than 25 dB. A surge in the continuum generated the site only LA1,1minute of 29 dB.

Insects were responsible for measured levels.

Road traffic tyre noise, frogs and dogs were also noted.

5.1.4 RC4 – Retreat Road

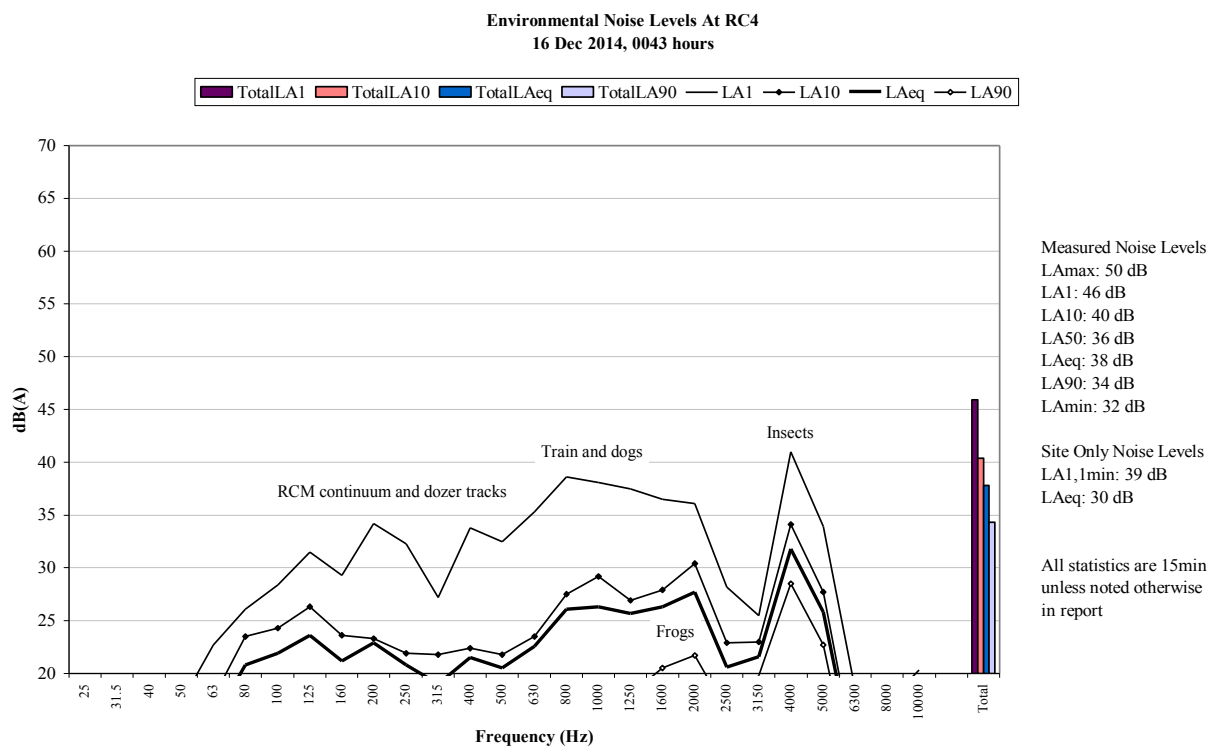


Figure 6: Environmental Noise Levels, Retreat Road

An engine and fan continuum from RCM was audible throughout the measurement generating the site only LAeq of 30 dB. A surge in the continuum generated the site only LA1,1minute of 39 dB. Dozer tracks were also noted.

Insects were the major contributor to the measured LA1, LA10 and LAeq. Dogs were minor contributors to the measured LA1. A train and frogs were minor contributors to the measured LAeq. Insects generated the measured LA90.

Road traffic tyre noise 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

69

Singleton

Clydesdale

Gresford 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