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***SOUND COMPLIANCE MONITORING  
REPORT #2 FOR THE RELOCATED  
AGGREGATE INDUSTRIES NONMETALLIC  
MINERAL PROCESSING PLANT  
LITTLETON, MASSACHUSETTS***

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*December 2010*



**SOUND COMPLIANCE MONITORING REPORT #2**  
**FOR THE RELOCATED**  
**AGGREGATE INDUSTRIES**  
**NONMETALLIC MINERAL PROCESSING PLANT**  
**LITTLETON, MASSACHUSETTS**

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## 1.0 EXECUTIVE SUMMARY

The second of three monthly sound compliance monitoring sessions was performed at the Aggregate Industries relocated non-metallic mineral processing plant on Ayer Road in Littleton, MA. The objective is to confirm that the relocated plant complies with both the Town of Littleton Noise Bylaw and the MassDEP Noise Policy, as described in Section 3. Per the requirements of the March 18, 2010 Sound Compliance Monitoring Protocol, sound monitoring is to commence within 30 days of start-up of the relocated facility and continue for a three-month period; daytime compliance sound monitoring will be performed twice per month. The relocated plant became fully operational on September 16<sup>th</sup>. Two days of sound monitoring was done when the primary, secondary and tertiary crushers were all in full operation in November.

The first day of compliance monitoring was performed on Monday, November 15<sup>th</sup> from approximately 8:15 a.m. to 3:00 p.m. On November 15<sup>th</sup>, the lowest one-minute continuous  $L_{eq}$  sound levels ranged from 40 dBA at PB-3 (Southeast Property Boundary) and NSA-5 (53 Ayer Road) to 48 dBA at NSA-6 (38 Spectacle Pond Road). Previous background levels were not used to adjust the one-minute  $L_{eq}$  measurements made at each location, since the previous background  $L_{eq}$  sound levels were higher than the measured values. The measured sound levels were below the continuous sound limits of 50 and 65 dBA at the residential and industrial receptors, respectively. The highest one-minute sporadic  $L_{eq}$  sound levels ranged from 44 dBA at PB-1 (Northern Property Boundary) to 52 dBA at NSA-6). The primary sources of sporadic sounds were trucks dumping rock, rocks banging, metallic clanging, truck engines revving, safety backup alarm (“whooshing”) and quarry equipment movements. The measured sporadic sound levels were below the sporadic sound limits of 60 and 75 dBA at the residential and industrial receptors, respectively.

The measured  $L_{90}$  sound levels ranged from 39 dBA at PB-3 (Southeast Property Boundary) to 48 dBA at NSA-6 (38 Spectacle Pond Road). The background-corrected  $L_{90}$  values ranged from 38 to 47 dBA. The incremental change in  $L_{90}$  sound levels were 0 dBA at all monitoring locations, except for a 5-dBA increase at NSA-6 and a 6-dBA increase at NSA-1. These incremental changes are in compliance with the MassDEP Noise Policy. The octave band  $L_{90}$  sound levels reveal no pure tones were generated by the relocated plant. A pure tone was measured in the 63 Hz octave band at the

PB-3 (Southeast Property Boundary), NSA-2 (183 New Estates Road) and NSA-5 (Ayer Road), which were attributed to Route 2A traffic and other industrial sources in the area.

The second day of compliance monitoring was performed on Monday, November 22<sup>nd</sup> from 9:25 a.m. to 4:30 p.m. On November 23<sup>rd</sup>, additional sound monitoring was conducted at 38 Spectacle Pond Road (NSA-6) because the adjacent Town's solid waste transfer station was operating all day on the previous day, which made it difficult to collect 15 uncontaminated one-minute  $L_{eq}$  measurements. The lowest one-minute continuous  $L_{eq}$  sound levels ranged from 44 dBA at NSA-5 (53 Ayer Road) to 50 dBA at PB-1 (Northern Property Boundary), NSA-3 (78 Spectacle Pond Road) and NSA-4 (Ayer Road). Previous background levels were not used to adjust the one-minute  $L_{eq}$  measurements made at each location, since the previous background  $L_{eq}$  sound levels were higher than the measured values, except at NSA-1 (11 White Tail Way) where the background level adjustment was made in accordance with the Sound Compliance Monitoring Protocol. The measured and calculated sound levels were below the continuous sound limits of 50 and 65 dBA at the residential and industrial receptors, respectively. The highest one-minute sporadic  $L_{eq}$  sound levels ranged from 49 dBA at NSA-5 to 55 dBA at NSA-5 and NSA-7 (3 White Tail Way). The primary sources of sporadic sounds were trucks dumping materials, hissing sounds, rocks banging, metallic clanging, truck engines revving, and safety backup alarm ("whooshing"). The measured sporadic sound levels were below the sporadic sound limits of 60 and 75 dBA at the residential and industrial receptors, respectively.

The measured  $L_{90}$  sound levels ranged from 46 dBA at PB-3 (Southeast Property Boundary), NSA-3 (78 Spectacle Pond Road) and NSA-6 (38 Spectacle Pond Road) to 51 dBA at NSA-1 (11 White Tail Way) and NSA-4 (Ayer Road). The background-corrected  $L_{90}$  values ranged from 39 to 50 dBA. The incremental change in  $L_{90}$  sound levels ranged from 0 dBA at PB-3, NSA-2, NSA-3 and NSA-5 to 10 dBA at NSA-1 and NSA-4. These incremental changes are in compliance with the MassDEP Noise Policy. The octave band  $L_{90}$  sound levels reveal no pure tones were generated by the relocated plant. A pure tone measured in the 63 Hz octave band at the NSA-2 (183 New Estates Road), which was attributed to Route 2A traffic and other industrial sources in the area.

Tech also conducted one-third  $L_{90}$  octave band measurements for each monitoring day as required

by the MassDEP Air Plan Approval (Tr# X230289), dated March 30, 2010. These measurements are shown graphically in Appendix B.

In conclusion, the sound measurements demonstrate that the Aggregate Industries Littleton plant complies with the Littleton Noise Bylaw and Massachusetts DEP Noise Policy.

## 2.0 COMMON MEASURES OF ENVIRONMENTAL SOUND

Noise is defined as "unwanted sound", which implies sound pressure levels that are annoying or disrupt activities people are engaged in. The human sense of hearing is subjective and highly variable between individuals. Noise regulations and guidelines set quantitative limits to the sound pressure level (measured with sound analyzers and predicted with computer models) in order to protect people from sound exposures that most would judge to be annoying or disruptive.

The loudness of a sound is dependent on the radiated energy of the sound source and the propagation and attenuation characteristics of the air. The standard unit of sound pressure level ( $L_p$ ) is the decibel (dB), a logarithmic scale formed by taking 20 times the  $\log_{10}$  of a ratio of two pressures: the measured sound pressure divided by a reference sound pressure. The decibel level scale conveniently compresses the range of audible sound pressures, which span 12 orders of magnitude, into an easy-to-use scale spanning 0 to 120 dB. Airborne sound is referenced to 20 micro-Pascals ( $20 \mu\text{Pa}$ ), which corresponds to 0 dB and the threshold of hearing. A property of the decibel scale is that the sound pressure levels of two separate sounds are not directly additive. For example, if a sound of 70 dB is added to another sound of 70 dB, the total is only a 3-decibel increase (or 73 dB), not a doubling to 140 dB. For broadband sounds, a 3 dB change is the minimum change perceptible to the human ear.

Table 1 presents the perceived change in loudness of different changes in sound pressure levels.

**TABLE 1**  
**SUBJECTIVE EFFECT OF CHANGES IN SOUND PRESSURE LEVELS**

<b>Change in Sound Pressure Level</b>	<b>Perceived Change in Loudness</b>
3 dB	Just perceptible
5 dB	Noticeable
10 dB	Twice (or half) as loud

Non-steady noise exposure in a community is commonly expressed in terms of the A-weighted sound level (dBA); A-weighting approximates the frequency response of the human ear. Levels of many sounds change from moment to moment. Some are sharp impulses lasting one-second or less, while others rise and fall over much longer periods of time. There are various measures of sound pressure designed for different purposes. To establish the background ambient sound level in an area, the  $L_{90}$  metric, which is the sound level exceeded 90 percent of the time, is typically used. The  $L_{90}$  can also be thought of as the level representing the quietest 10 percent over a given time period. The  $L_{eq}$ , or equivalent sound level, is the steady-state sound level over a period of time that has the same acoustic energy as the fluctuating sounds that actually occurred during that same period. It is commonly referred to as the average sound level. The  $L_{max}$ , or maximum sound level, represents the one-second peak level experienced during a given time period. These measures are generally reported to the nearest whole decibel as broadband sound pressure level, i.e., broadband meaning includes sounds at all frequencies. Sound level data also typically include an analysis of the sound spectrum into its various frequency components to determine tonal characteristics. The unit of frequency is Hertz (Hz), measuring the cycles per second of the sound pressure waves, and typically the frequency analysis examines eleven octave bands from 16 to 16,000 Hz. The MassDEP Noise Policy states that a source creates a pure tone if acoustic energy is concentrated in a narrow frequency range and one octave band has a sound level 3 dB greater than both adjacent octave bands.

The acoustic environment in a suburban area, such as the Littleton site, results from several sources. Motor vehicle traffic on Route 2A, Route 2, Interstate 495 and local roadways, freight trains and aircraft overhead are all significant auditory contributors. Typical sound levels associated with various activities and environments are presented in Table 2<sup>1</sup>.

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<sup>1</sup>U.S. DOT, FHWA, Noise Fundamentals Training Document, Highway Noise Fundamentals, September, 1980.

**TABLE 2**  
**COMMON SOUND LEVELS**

Sound Level (dBA)	Common Indoor Sounds	Common Outdoor Sounds
110	Rock Band	Jet Takeoff at 1000'
100	Inside NYC Subway Train	Chain Saw at 3'
90	Food Blender at 3'	Impact Hammer (Hoe Ram) at 50'
80	Garbage Disposal at 3'	Diesel Truck at 100'
70	Vacuum Cleaner at 10'	Lawn Mower at 100'
60	Normal Speech at 3'	Auto (40 mph) at 100'
50	Dishwasher in Next Room	Busy Suburban Area at night
40	Empty Conference Room	Quiet Suburban Area at night
25	Empty Concert Hall	Rural Area at night

### **3.0 NOISE REGULATIONS**

This section summarizes the Massachusetts Department of Environmental Protection (MassDEP) Noise Policy and the Town of Noise Bylaw.

#### **3.1 MassDEP Noise Policy**

The MassDEP regulates noise through 310 CMR 7.10, "Air Pollution Control". In these regulations, "air contaminant" is defined to include sound, and a condition of "air pollution" includes the presence of an air contaminant in such concentration and duration as to "cause a nuisance" or "unreasonably interfere with the comfortable enjoyment of life and property."

Regulation 7.10 prohibits "unnecessary emissions" of noise. The MassDEP Noise Policy (Policy Statement 90-001, February 1, 1990) interprets a violation of this noise regulation to have occurred if the source causes either:

- (1) An increase in the broadband sound pressure level of more than 10 dBA above the ambient, or
- (2) A "pure tone" condition.

The ambient background level is defined as the  $L_{90}$  level, as measured during equipment operating hours. A "pure tone" condition occurs when any octave band sound pressure level exceeds both of the two adjacent octave band sound pressure levels by 3 dB or more.

#### **3.2 Town of Littleton**

The Town of Littleton has adopted a noise bylaw under Chapter 173, Article XVII of the Littleton Zoning Bylaw. The bylaw limits the maximum allowable sound levels from a continuous source in each land use district to the sound level limits in Table 3. The sound level limits are provided in decibels, and we have assumed that they are based on an A-weighted scale. Daytime sound level limits are defined as those that occur between the hours of 7:00 a.m. and 9:00 p.m. on all days,

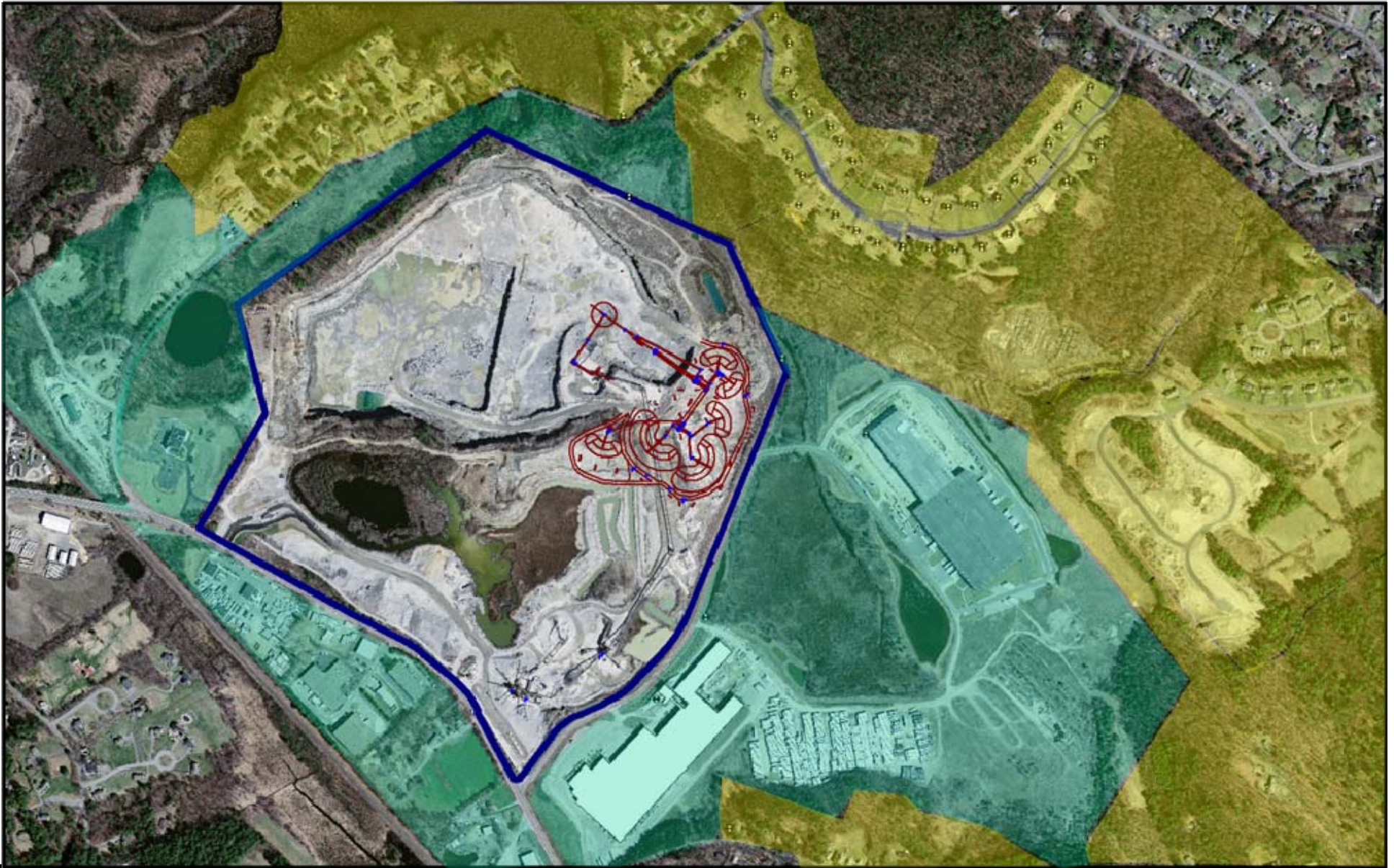
except Sundays and legal holidays. Daytime is defined as the hours between 12:00 p.m. and 9:00 p.m. on Sundays and legal holidays.

**TABLE 3**  
**TOWN OF LITTLETON NOISE BYLAW**  
**MAXIMUM ALLOWABLE SOUND LEVELS FOR CONTINUOUS SOURCES**

<b>District</b>	<b>Daytime (dBA)</b>	<b>Nighttime (dBA)</b>
Residential	50	40
Business	55	45
Industrial	65	50

The bylaw has also established maximum allowable sound levels for noise sources other than continuous sounds, based on the type of sound. For a dominant tone and impulsive sound, 5 dBA is subtracted from the sound level limits in Table 3. For a sporadic sound, 10 dBA is added to the sound level limits in Table 3. The bylaw does not allow sound levels in excess of 90 decibels at the property line or street, except for sporadic noise. Also, Section 173-78 B (3) and (7) of the bylaw states that the regulations shall not apply to any noise produced by a registered motor vehicle, provided that such vehicle is equipped with all noises suppression devices required for legal operation under such registration by the laws of the Commonwealth and construction equipment between the hours of 7:00 a.m. and 7:00 p.m. only.

The facility is limited to operate only during the daytime and Figure 1 shows that the land use surrounding the Aggregate facility is zoned residential and industrial; therefore, for the purposes of this sound compliance monitoring program, only the daytime continuous and sporadic sound limits for residential and industrial districts were used to determine if the relocated plant is compliance with the noise bylaw per the requirements of the March 18, 2010 Sound Compliance Monitoring Protocol.



**FIGURE 1.**

***Approximate Zoning as Shown  
Aggregate Industries  
Littleton, Massachusetts***

**Legend**

Industrial = light green shade  
Residential = light yellow shade

Source: Littleton Assessor's Maps, January 1, 2009



## **4.0 COMPLIANCE MONITORING APPROACH**

This section presents the sound compliance monitoring approach used to determine compliance with the Littleton Noise Bylaw and the MassDEP Noise Policy. The sound monitoring and data analysis procedures are documented in the Littleton Nonmetallic Mineral Processing Plant Sound Monitoring Compliance Protocol submitted to the Town on March 18, 2010 and in the Littleton Nonmetallic Mineral Processing Plant BWP AQ 02 NMCPA (Tr#X230289) – Sound Monitoring Protocol submitted to MassDEP on July 29, 2010.

### **4.1 Purpose and Frequency of Testing**

This protocol presents the method for sound compliance monitoring at the Aggregate Industries relocated non-metallic mineral processing plant on Ayer Road. The objective is to confirm that the relocated plant, once in operation, complies with both the Town of Littleton Noise Bylaw and the MassDEP Noise Policy; those regulations are described in Section 3. Per the requirements of the Sound Compliance Monitoring Protocols, sound monitoring is to commence within 30 days of start-up of the relocated facility and continuing for a three-month period, daytime compliance sound monitoring will be performed twice per month. Aggregate Industries notified the Littleton Planning Board and Building Inspector two weeks in advance of planned monitoring that the relocated plant began operation on September 16<sup>th</sup> and re-confirmed 24 hours prior to each monitoring day. Two days of sound monitoring were done when the primary, secondary and tertiary crushers were all in full operation in November.

### **4.2 Sound Metrics and Time Averaging**

Per the requirements of the MassDEP Noise Policy, the sound compliance monitoring will record the A-weighted  $L_{90}$  sound level and  $L_{90}$  whole octave band levels for a minimum of 15 minutes at each monitoring location. The Littleton Noise Bylaw does not specify what metric should be used. For the purposes of this monitoring program, the equivalent sound level  $L_{eq}$  was selected. Sections E and F of the Bylaw, specify different limits for “continuous noise” and “sporadic noise.” The “Continuous” residential and industrial sound limits are 50 dBA and 65 dBA, respectively, and the “Sporadic” sound limits are 10-dBA higher. Sporadic noise is defined as sound lasting one minute

or less. Therefore, the sound compliance monitoring will record fifteen (15) one-minute A-weighted  $L_{eq}$  sound level measurements at each monitoring location and these will be compared to the Sporadic and Continuous Sound Limits.

### **4.3 Monitoring Locations**

Sound compliance measurements were taken at 10 locations representing three site property boundaries (PB-1, PB-2 and PB-3), five residential-zoned properties (NSA-1, NSA-2, NSA-3, NSA-6 and NSA-7), and two industrial-zoned properties (NSA-4 and NSA-5). These locations represented monitoring and modeling locations in the sound reports submitted to the Town and MassDEP<sup>2,3</sup>. The monitoring locations are shown on Figure 2.

### **4.4 Monitoring Procedures**

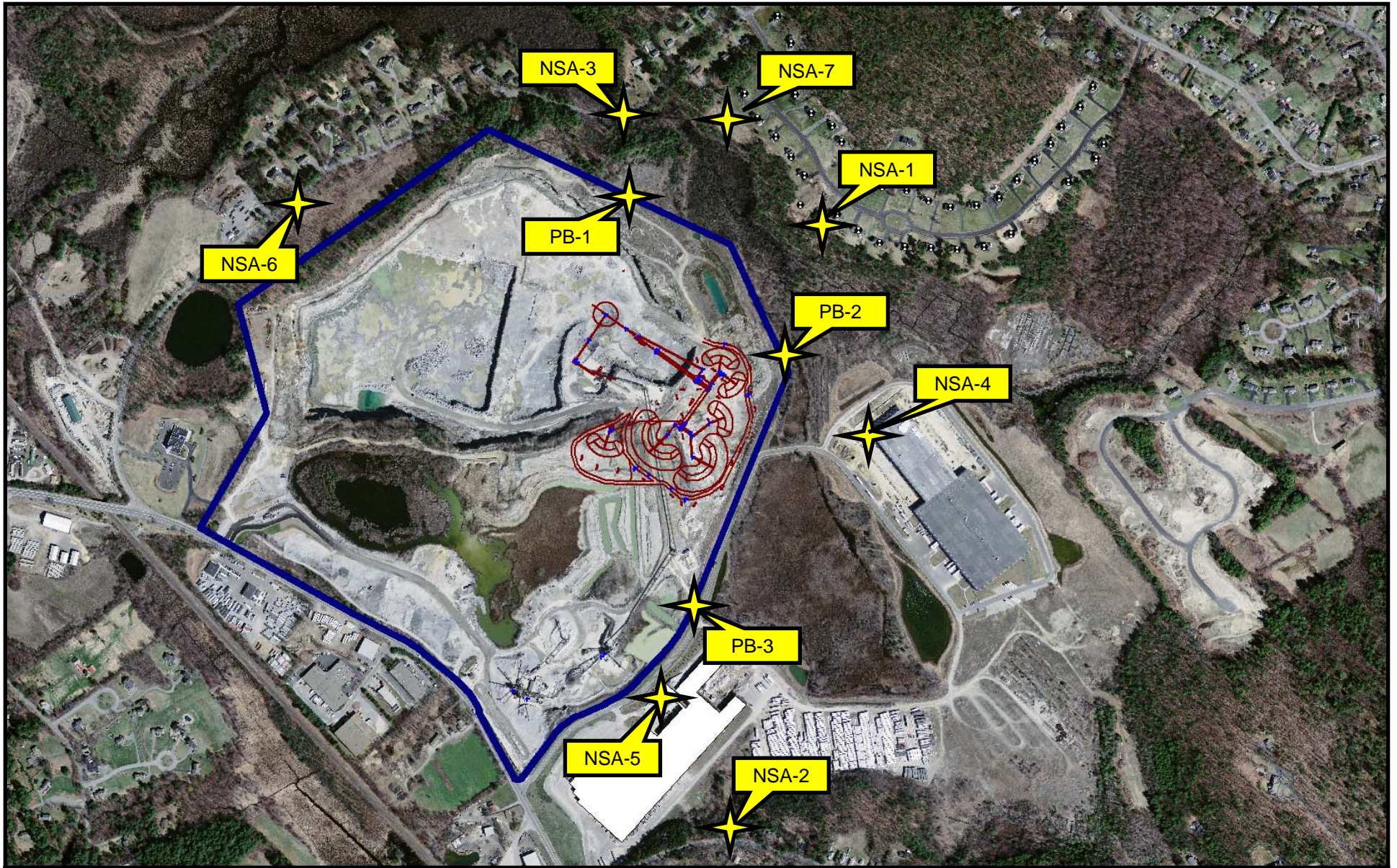
All sound level measurements were made with two ANSI Type 1 real-time sound analyzers (ANSI Standard S1.4) that have been calibrated to NIST standards within the previous 12 months and were field-calibrated with an ANSI Type 1 calibrator. The Larson Davis 824 and Model CEL 593 sound analyzer microphones were tripod-mounted and equipped with wind screens. On site wind speed and direction measurements were taken with a hand-held anemometer at the time of the sound monitoring and recorded. Concurrent observations of audible activity at Aggregate Industries, other industrial sites and other noise-producing sources were recorded by the sound engineer on field data sheets and are summarized in Appendix D.

Sound compliance monitoring recorded the A-weighted  $L_{eq}$  and  $L_{90}$  sound level and  $L_{90}$  whole and one-third octave band levels for a minimum period of 15 minutes at each location. In addition, the sound meters were setup to record one-minute  $L_{eq}$  sound levels. Measurements were not made

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<sup>2</sup> Tech Environmental, Inc., Sound Study for the Aggregate Industries New Nonmetallic Mineral Processing Plant, February 5, 2010.

<sup>3</sup> Tech Environmental, Inc., Supplemental Sound Study for the Aggregate Industries New Nonmetallic Mineral Processing Plant, February 22, 2010.



**FIGURE 2.**

**Sound Monitoring Locations  
Aggregate Industries  
Littleton, Massachusetts**

during periods of precipitation or when winds exceed 5 m/s (11 mph) at a height of 2 m, in accordance with ANSI Standard S12.18-1994. To minimize vibration-induced noise from the field technician pressing buttons on the control panel of the sound meter, the approach was to record  $L_{eq}$  measurements on a one-minute interval for a 17-minute period and discarded the first and last one-minute measurements. The highest of the remaining 15 one-minute measurements was compared to the Sporadic Sound limit and the lowest one-minute  $L_{eq}$  measurement over the 15-minute time period was compared to the Continuous Sound limit.

Since the absolute sound pressure limits apply to sound from the facility, there is a need to subtract out background sound to assess compliance. For example, section 173-78(B)(3) specifically exempts all motor vehicle noise (whether on private or public property), and motor vehicle noise constitutes the bulk of background sound levels in suburban areas. Therefore, measurements were not made when loud background noises are present, such as cars passing by, lawn mowers, dogs barking, and aircraft flying overhead. When such events occur, the field technician excluded them by noting the contaminated one-minute measurements on the field data sheets and he continued recording sound levels until 15 uncontaminated one-minute measurements were collected at each monitoring location. The contaminated measurements were discarded after downloading the data for analysis.

#### **4.5 Data Analysis Procedures**

All sound monitoring data were downloaded from the sound analyzers to a computer at Tech's office. For consistency and the reasons given above, the existing sound levels subtracted out of the  $L_{eq}$  compliance measurements must represent the same metric, in this case  $L_{eq}$ , to demonstrate compliance with the Littleton Noise Bylaw. As part of the Supplementary Report issued February 2010, background sound levels were measured when the facility was not operating and Tables 6-4 and 6-5 (a copy of each table is included in Appendix C) set forth the  $L_{eq}$  sound levels by monitoring location. These background levels were used to adjust the one-minute  $L_{eq}$  measurements made at each location, where the background  $L_{eq}$  sound levels were lower than the measured value. These corrected facility sound levels were compared to the Town of Littleton Continuous (lowest one-minute  $L_{eq}$  over 15 minutes) sound limits of 50 dBA (residential receptor) and 65 dBA (industrial

receptor) for each monitoring location and to the Town of Littleton Sporadic (highest one-minute  $L_{eq}$ ) sound limits that are 10-dBA higher.

The Background Without Crushing Operations  $L_{90}$  Sound Levels listed Table 6-7 of the Supplemental Sound Study for Aggregate Industries dated February 22, 2010 (a copy of the table is included in Appendix C) was subtracted from the measured  $L_{90}$  broadband sound levels at each monitoring location on an energy basis to obtain the  $L_{90}$  sound level from Aggregate Industries. The increase in the  $L_{90}$  broadband sound level above the background were calculated for each monitoring location and compared to the 10-dBA allowable limit in the MassDEP Noise Policy for inhabited locations and residential property lines.

The octave band measurements for each monitoring location were analyzed with respect to the pure tone criteria in the DEP Noise Policy and a determination for each monitoring location was made as to whether a pure tone was measured. Any pure tone from OSHA-mandated backup alarms, which are exempt from State and Town regulation, were identified.

## 5.0 COMPLIANCE MONITORING RESULTS

This section presents the sound monitoring results collected on Monday, November 15, Monday, November 22 and Tuesday, November 23, 2010. Sound level measurements were collected from approximately 8:15 a.m. to 3:00 p.m. on November 15<sup>th</sup> and 9:25 a.m. to 4:30 p.m. on November 22<sup>nd</sup>. On November 23<sup>rd</sup>, additional sound monitoring was conducted at 38 Spectacle Pond Road (NSA-6) because the adjacent Town's solid waste transfer station was operating all day on the previous day, which made it difficult to collect 15 uncontaminated one-minute  $L_{eq}$  measurements. Weather conditions were favorable for measuring sound levels from the relocated facility for each day. Skies were partly to mostly cloudy with light winds (i.e., less than 11 mph) from the south on all three days. The measured and calculated continuous and sporadic  $L_{eq}$  sound levels for each day were at or below the continuous sound limits of 50 and 65 dBA and the sporadic sound limits of 60 and 75 dBA at the residential and industrial receptors, respectively. The calculated broadband  $L_{90}$  sound levels were at or below the MassDEP 10-dBA allowable increase at each receptor locations for each monitoring day. The octave band  $L_{90}$  sound levels reveal a pure tone in the 63 Hz octave band at PB-3, NSA-2 and NSA-5 on November 15<sup>th</sup> and at NSA-2 on November 22<sup>nd</sup>. These pure tone measurements were attributed to Route 2A traffic and not the plant operations.

### 5.1 Littleton Town Bylaw

Tables 4 and 5 present the continuous and sporadic one-minute  $L_{eq}$  sound levels at each monitoring location. On November 15<sup>th</sup>, the lowest one-minute continuous  $L_{eq}$  sound levels ranged from 40 dBA at PB-3 (Southeast Property Boundary) and NSA-5 (53 Ayer Road) to 48 dBA at NSA-6 (38 Spectacle Pond Road). Previous background levels were not used to adjust the one-minute  $L_{eq}$  measurements made at each location, since the previous background  $L_{eq}$  sound levels were higher than the measured values. The measured sound levels were below the continuous sound limits of 50 and 65 dBA at the residential and industrial receptors, respectively. The highest one-minute sporadic  $L_{eq}$  sound levels ranged from 44 dBA at PB-1 (Northern Property Boundary) to 52 dBA at NSA-6). The primary sources of sporadic sounds were trucks dumping rock, rocks banging, metallic clanging, truck engines revving, safety backup alarm ("whooshing") and quarry equipment

movements. The measured sporadic sound levels were below the sporadic sound limits of 60 and 75 dBA at the residential and industrial receptors, respectively.

On November 22<sup>nd</sup> and 23<sup>rd</sup>, the lowest one-minute continuous  $L_{eq}$  sound levels ranged from 44 dBA at NSA-5 (53 Ayer Road) to 50 dBA at PB-1 (Northern Property Boundary), NSA-3 (78 Spectacle Pond Road) and NSA-4 (Ayer Road). Previous background levels were not used to adjust the one-minute  $L_{eq}$  measurements made at each location, since the previous background  $L_{eq}$  sound levels were higher than the measured values, except at NSA-1 (11 White Tail Way) where the background level adjustment was made in accordance with the Sound Compliance Monitoring Protocol. The measured and calculated sound levels were below the continuous sound limits of 50 and 65 dBA at the residential and industrial receptors, respectively. The highest one-minute sporadic  $L_{eq}$  sound levels ranged from 49 dBA at NSA-5 to 55 dBA at NSA-3 and NSA-7 (3 White Tail Way). The primary sources of sporadic sounds were trucks dumping materials, hissing sounds, rocks banging, metallic clanging, truck engines revving, and safety backup alarm (“whooshing”). The measured sporadic sound levels were below the sporadic sound limits of 60 and 75 dBA at the residential and industrial receptors, respectively.

In conclusion, the sound measurements demonstrate that the Aggregate Industries Littleton relocated plant complies with the Littleton Noise Bylaw.

## **5.2 MassDEP Noise Policy**

Tables 6 and 7 present the measured broadband  $L_{90}$  and full octave band sound levels for each monitoring location. In addition the previous background  $L_{90}$  sound levels without the plant in operation are presented in both tables. These background sound levels were subtracted from the measured levels to obtain the corrected  $L_{90}$  sound levels to determine the incremental change in sound levels that were compared to the MassDEP Noise Policy 10-dBA allowable increase limit. The full  $L_{90}$  octave band measurements for each location are presented graphically in Appendix B. Tech also conducted one-third  $L_{90}$  octave band measurements for each monitoring day as required by the MassDEP Air Plan Approval (Tr# X230289), dated March 30, 2010. These measurements are also presented in summary graphs in Appendix B.

**TABLE 4**

**CONTINUOUS AND SPORADIC NOISE  $L_{eq}$  SOUND LEVELS FOR  
MONDAY, NOVEMBER 15, 2010**

Monitoring Location	Start Time	Measured Continuous $L_{eq}$ (dBA)	Continuous $L_{eq}$ Limit (dBA)	Measured Sporadic Noise $L_{eq}$ (dBA)	Sporadic Noise $L_{eq}$ Limit (dBA)	Complies?	Notes
<b>PB-1 - Northern Property Boundary</b>	2:40 PM	43	65	44	75	Yes	Trucks dumping, metallic clanging, backup beeper
<b>PB-2 - Northeast Property Boundary</b>	10:54 AM	42	65	49	75	Yes	Trucks revving, backup whooshing
<b>PB-3 - Southeast Property Boundary</b>	12:25 PM	40	65	46	75	Yes	Trucks dumping and revving engines, metallic clanging
<b>NSA-1 - 11 White Tail Way</b>	8:42 AM	47	50	48	60	Yes	Rocks banging, trucks dumping
<b>NSA-2 - 183 New Estate Road</b>	9:47 AM	43	50	45	60	Yes	Backup whooshing
<b>NSA-3 - 78 Spectacle Pond Road</b>	1:47 PM	43	50	51	60	Yes	Metallic clanging sound
<b>NSA-4 - Ayer Road (Industrial Use)</b>	10:15 AM	43	65	46	75	Yes	Trucks dumping and revving engines, rocks being dumped
<b>NSA-5 - 53 Ayer Road (Industrial Use)</b>	12:58 PM	40	65	49	75	Yes	Rocks banging, trucks revving
<b>NSA-6 - 38 Spectacle Pond Road</b>	9:13 AM	48	50	52	60	Yes	Rock hammer, rocks banging, metallic clanging sound
<b>NSA-7 - 3 White Tail Way</b>	8:12 AM	43	50	45	60	Yes	Rocks banging, trucks dumping

**TABLE 5**

**CONTINUOUS AND SPORADIC NOISE  $L_{eq}$  SOUND LEVELS FOR  
MONDAY AND TUESDAY, NOVEMBER 22 AND 23, 2010**

Monitoring Location	Start Time	Measured Continuous $L_{eq}$ (dBA)	Continuous $L_{eq}$ Limit (dBA)	Measured Sporadic Noise $L_{eq}$ (dBA)	Sporadic Noise $L_{eq}$ Limit (dBA)	Complies?	Notes
<b>PB-1 - Northern Property Boundary</b>	1:23 PM	50	65	58	75	Yes	Trucks dumping, metallic clanging, backup beeper
<b>PB-2 - Northeast Property Boundary</b>	10:03 AM	48	65	51	75	Yes	Trucks revving, backup whooshing
<b>PB-3 - Southeast Property Boundary</b>	10:29 AM	46	65	51	75	Yes	Trucks dumping and revving engines, metallic clanging
<b>NSA-1 - 11 White Tail Way</b>	4:00 PM	47*	50	53	60	Yes	Rocks banging, trucks dumping
<b>NSA-2 - 183 New Estate Road</b>	11:57 AM	49	50	NA**	60	Yes	Route 2A traffic
<b>NSA-3 - 78 Spectacle Pond Road</b>	12:37 PM	50	50	55	60	Yes	Metallic clanging sound
<b>NSA-4 - Ayer Road (Industrial Use)</b>	9:26 AM	50	65	51	75	Yes	Trucks dumping and revving engines, rocks being dumped
<b>NSA-5 - 53 Ayer Road (Industrial Use)</b>	11:08 AM	44	65	49	75	Yes	Rocks banging, trucks revving
<b>NSA-6 - 38 Spectacle Pond Road</b>	10:54 AM	49	50	52	60	Yes	Rock hammer, rocks banging, metallic clanging sound
<b>NSA-7 - 3 Whitetail Way</b>	3:15 PM	49	50	55	60	Yes	Rocks banging, trucks dumping

\*Background sound level was subtracted from the measured sound level per the Sound Compliance Monitoring Protocol, March 18, 2010.

\*\*There were no sporadic sounds observed attributable to the Aggregate facility.

On November 15<sup>th</sup>, the measured L<sub>90</sub> sound levels ranged from 39 dBA at PB-3 (Southeast Property Boundary) to 48 dBA at NSA-6 (38 Spectacle Pond Road). The background-corrected L<sub>90</sub> values ranged from 38 to 47 dBA. The incremental change in L<sub>90</sub> sound levels were 0 dBA at all monitoring locations, except for a 5-dBA increase at NSA-6 and a 6-dBA increase at NSA-1. These incremental changes are in compliance with the MassDEP Noise Policy. The octave band L<sub>90</sub> sound levels reveal no pure tones were generated by the relocated plant. A pure tone was measured in the 63 Hz octave band at the PB-3 (Southeast Property Boundary), NSA-2 (183 New Estates Road) and NSA-5 (Ayer Road), which were attributed to Route 2A traffic and other industrial sources in the area.

On November 22<sup>nd</sup> and 23<sup>rd</sup>, the measured L<sub>90</sub> sound levels ranged from 46 dBA at PB-3 (Southeast Property Boundary), NSA-3 (78 Spectacle Pond Road) and NSA-6 (38 Spectacle Pond Road) to 51 dBA at NSA-1 (11 White Tail Way) and NSA-4 (Ayer Road). The background-corrected L<sub>90</sub> values ranged from 39 to 50 dBA. The incremental change in L<sub>90</sub> sound levels ranged from 0 dBA at PB-3, NSA-2, NSA-3 and NSA-5 to 10 dBA at NSA-1 and NSA-4. These incremental changes are in compliance with the MassDEP Noise Policy. The octave band L<sub>90</sub> sound levels reveal no pure tones were generated by the relocated plant. A pure tone measured in the 63 Hz octave band at the NSA-2 (183 New Estates Road), which was attributed to Route 2A traffic and other industrial sources in the area.

In conclusion, the sound measurements demonstrate that the Aggregate Industries Littleton relocated plant complies with the MassDEP Noise Policy.

**TABLE 6**

**BROADBAND AND OCTAVE BAND L<sub>90</sub> SOUND LEVELS FOR  
MONDAY, NOVEMBER 15, 2010**

<b>Sound Level Measurement</b>	<b>PB-1 - Northern Property Boundary</b>	<b>PB-2 - Northeast Property Boundary</b>	<b>PB-3 - Southeast Property Boundary</b>	<b>NSA-1 - 11 White Tail Way</b>	<b>NSA-2 - 183 New Estate Road</b>
<b><u>Broadband (dBA)</u></b>					
<b>Existing Background (L<sub>90</sub>)</b>	44	40	45	40	45
<b>Measured (L<sub>90</sub>)</b>	42	42	39	47	42
<b>Corrected (L<sub>90</sub>)</b>	42	38	39	46	42
<b>MassDEP Noise Policy Limit (dBA)*</b>	<b>54</b>	<b>50</b>	<b>55</b>	<b>50</b>	<b>55</b>
<b>Exceeds MassDEP Broadband Limit?</b>	No	No	No	No	No
<b><u>Octave Band L<sub>90</sub> (dB)</u></b>					
<b>16 Hz</b>	47	53	42	52	47
<b>32 Hz</b>	44	55	47	49	45
<b>63 Hz</b>	45	53	52	48	48
<b>125 Hz</b>	40	46	47	43	44
<b>250 Hz</b>	37	41	38	44	39
<b>500 Hz</b>	38	40	36	45	38
<b>1 kHz</b>	38	37	34	42	39
<b>2 kHz</b>	36	33	29	39	33
<b>4 kHz</b>	27	27	18	29	20
<b>8 kHz</b>	15	22	14	16	14
<b>16 kHz</b>	14	16	14	14	14
<b>Pure Tone Condition?</b>	No	No	Yes**	No	Yes**

\*MassDEP Policy sound limits are based on an allowable 10-dBA increase over existing background levels.

\*\*The elevated 63 Hertz sound is due to truck and car traffic along Route 2A.

**TABLE 6 (CONTINUED)**

**BROADBAND AND OCTAVE BAND L<sub>90</sub> SOUND LEVELS FOR  
MONDAY, NOVEMBER 15, 2010**

<b>Sound Level Measurement</b>	<b>NSA-3 - 78 Spectacle Pond Road</b>	<b>NSA-4 - Ayer Road (Industrial Use)</b>	<b>NSA-5 - 53 Ayer Road (Industrial Use)</b>	<b>NSA-6 - 38 Spectacle Pond Road</b>	<b>NSA-7 - 3 Whitetail Way</b>
<b><u>Broadband (dBA)</u></b>					
<b>Existing Background (L<sub>90</sub>)</b>	44	40	45	42	40
<b>Measured (L<sub>90</sub>)</b>	43	43	41	48	43
<b>Corrected (L<sub>90</sub>)</b>	43	40	41	47	40
<b>MassDEP Noise Policy Limit (dBA)*</b>	<b>54</b>	<b>50</b>	<b>55</b>	<b>52</b>	<b>50</b>
<b>Exceeds MassDEP Broadband Limit?</b>	No	No	No	No	No
<b><u>Octave Band L<sub>90</sub> (dB)</u></b>					
<b>16 Hz</b>	47	51	43	45	52
<b>32 Hz</b>	47	51	49	50	45
<b>63 Hz</b>	47	50	53	50	46
<b>125 Hz</b>	40	46	48	46	46
<b>250 Hz</b>	40	41	39	47	43
<b>500 Hz</b>	40	43	37	46	38
<b>1 kHz</b>	38	38	37	44	39
<b>2 kHz</b>	35	33	33	38	33
<b>4 kHz</b>	30	25	23	26	21
<b>8 kHz</b>	24	16	14	15	14
<b>16 kHz</b>	17	14	14	14	14
<b>Pure Tone Condition?</b>	No	No	Yes**	No	No

\*MassDEP Policy sound limits are based on an allowable 10-dBA increase over existing background levels.

\*\*The elevated 63 Hertz sound is due to truck and car traffic along Route 2A.

**TABLE 7**

**BROADBAND AND OCTAVE BAND L<sub>90</sub> SOUND LEVELS FOR  
MONDAY AND TUESDAY, NOVEMBER 22 AND 23, 2010**

<b>Sound Level Measurements</b>	<b>PB-1 - Northern Property Boundary</b>	<b>PB-2 - Northeast Property Boundary</b>	<b>PB-3 - Southeast Property Boundary</b>	<b>NSA-1 - 11 White Tail Way</b>	<b>NSA-2 - 183 New Estate Road</b>
<b><u>Broadband (dBA)</u></b>					
<b>Existing Background (L<sub>90</sub>)</b>	44	40	45	40	45
<b>Measured (L<sub>90</sub>)</b>	49	48	46	51	48
<b>Corrected (L<sub>90</sub>)</b>	47	47	39	50	45
<b>MassDEP Noise Policy Limit (dBA)*</b>	<b>54</b>	<b>50</b>	<b>55</b>	<b>50</b>	<b>55</b>
<b>Exceeds MassDEP Broadband Limit?</b>	No	No	No	No	No
<b><u>Octave Band L<sub>90</sub> (dB)</u></b>					
<b>16 Hz</b>	63	53	52	53	45
<b>32 Hz</b>	54	57	52	51	47
<b>63 Hz</b>	53	55	54	50	53
<b>125 Hz</b>	45	50	50	48	49
<b>250 Hz</b>	43	46	44	49	45
<b>500 Hz</b>	45	47	45	51	46
<b>1 kHz</b>	45	44	42	47	45
<b>2 kHz</b>	42	35	34	43	38
<b>4 kHz</b>	34	28	22	34	28
<b>8 kHz</b>	26	22	15	19	21
<b>16 kHz</b>	27	16	14	15	16
<b>Pure Tone Condition?</b>	No	No	No	No	Yes**

\*MassDEP Policy sound limits are based on an allowable 10-dBA increase over existing background levels.

\*\*The elevated 63 Hertz sound is due to truck and car traffic along Route 2A.

**TABLE 7 (CONTINUED)**

**BROADBAND AND OCTAVE BAND L<sub>90</sub> SOUND LEVELS FOR  
MONDAY AND TUESDAY, NOVEMBER 22 AND 23, 2010**

<b>Sound Level Measurements</b>	<b>NSA-3 - 78 Spectacle Pond Road</b>	<b>NSA-4 - Ayer Road (Industrial Use)</b>	<b>NSA-5 - 53 Ayer Road (Industrial Use)</b>	<b>NSA-6 - 38 Spectacle Pond Road</b>	<b>NSA-7 - 3 Whitetail Way</b>
<b><u>Broadband (dBA)</u></b>					
<b>Existing Background (L<sub>90</sub>)</b>	44	40	45	42	40
<b>Measured (L<sub>90</sub>)</b>	46	51	48	46	47
<b>Corrected (L<sub>90</sub>)</b>	42	50	45	44	46
<b>MassDEP Noise Policy Limit (dBA)*</b>	<b>54</b>	<b>50</b>	<b>55</b>	<b>52</b>	<b>50</b>
<b>Exceeds MassDEP Broadband Limit?</b>	No	No	No	No	No
<b><u>Octave Band L<sub>90</sub> (dB)</u></b>					
<b>16 Hz</b>	47	52	53	48	51
<b>32 Hz</b>	48	55	53	50	47
<b>63 Hz</b>	50	54	53	52	52
<b>125 Hz</b>	46	51	47	50	52
<b>250 Hz</b>	48	47	41	47	47
<b>500 Hz</b>	47	49	41	46	46
<b>1 kHz</b>	46	46	41	45	46
<b>2 kHz</b>	42	35	34	40	40
<b>4 kHz</b>	33	26	24	29	29
<b>8 kHz</b>	24	18	15	16	16
<b>16 kHz</b>	18	16	14	14	15
<b>Pure Tone Condition?</b>	No	No	No	No	No

\*MassDEP Policy sound limits are based on an allowable 10-dBA increase over existing background levels.

\*\*The elevated 63 Hertz sound is due to truck and car traffic along Route 2A.

**APPENDIX A**  
**SOUND MONITORING DATA**

**NOVEMBER 15, 2010 MONITORING RESULTS**

W:\WORKDA~1\3323\SOUNDM~1\11-15~1\CEL\06221001.DTA

- Cumulative period results -

Number of records 22  
 Run start 11/15/2010 8:12  
 Run duration 000 00:22:02.96  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.9	73.2	61	58	56
Broadband	A	46.4	71.3	45	44	43
16	L	57	62.5	60	56	52
32	L	47.7	57.3	50	47	45
63	L	48.2	63.8	50	48	46
125	L	48.3	63.4	50	48	46
250	L	45.9	61.4	47	45	43
500	L	43.9	70.6	41	39	38
1k	L	43.2	69.1	42	40	39
2k	L	36.7	59.6	37	34	33
4k	L	26.9	47.6	27	22	21
8k	L	23.8	44.8	27	15	14
16k	L	15.2	31.2	15	14	14

W:\WORKDA~1\3323\SOUNDM~1\11-15~1\CEL\06221001.DTA

- Period results -

Record number 2 : 22  
 Record start 13:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.8	62.4	61	58	56
Broadband	A	44.7	52.6	45	44	43
16	L	57	61.6	60	56	52
32	L	47.5	52.4	49	47	45
63	L	48.8	55.1	50	48	47
125	L	48.5	52.8	50	48	47
250	L	45.3	51	47	45	43
500	L	40.3	46.8	41	40	39
1k	L	41.4	49.4	42	41	40
2k	L	35.7	46.4	36	34	33
4k	L	24.6	37	26	22	21
8k	L	25.5	40.6	30	16	14
16k	L	14.9	24.7	16	14	14

W:\WORKDA~1\3323\SOUNDM~1\11-15~1\CEL\06221001.DTA

- Period results -

Record number 4 : 22  
 Record start 15:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.7	62.3	61	58	56
Broadband	A	44.1	52.6	46	43	42
16	L	57	61.7	60	56	52
32	L	47.9	54.6	50	48	45
63	L	47.7	55	49	47	46
125	L	48.1	56	50	47	46
250	L	44.6	50.9	47	44	42
500	L	40.1	48.2	41	40	39
1k	L	40.8	50.7	42	40	39
2k	L	34.6	41.3	37	34	33
4k	L	22.9	32.5	25	22	20
8k	L	28.2	40.9	33	17	14
16k	L	14.9	19.9	16	14	14

W:\WORKDA~1\3323\SOUNDM~1\11-15~1\CEL\06221001.DTA

- Period results -

Record number 5 : 22  
 Record start 16:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.6	62.4	61	58	56
Broadband	A	43.9	48	45	44	43
16	L	57	61.6	60	56	52
32	L	47.7	52.5	50	47	45
63	L	47.8	51.8	49	48	46
125	L	47.7	52	49	47	46
250	L	44.5	49.2	46	44	43
500	L	39.4	42.7	40	39	38
1k	L	40.8	45.7	42	41	39
2k	L	34.9	39.5	37	35	33
4k	L	22.2	27	24	22	21
8k	L	20.2	33.9	24	15	14
16k	L	14.5	16.1	15	14	14

W:\WORKDA~1\3323\SOUNDM~1\11-15~1\CEL\06221001.DTA

- Period results -

Record number 6 : 22  
 Record start 17:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.6	62.7	61	58	56
Broadband	A	43.1	45.6	44	43	42
16	L	57	62.4	60	56	52
32	L	47.6	52.3	50	47	45
63	L	48.2	53.8	50	48	46
125	L	47.3	51	49	47	46
250	L	44.4	51.3	46	44	43
500	L	38.8	41.4	40	39	38
1k	L	39.8	42.9	41	39	39
2k	L	33.7	37.3	35	33	33
4k	L	21.9	30.4	24	21	20
8k	L	24.8	38.4	29	18	14
16k	L	14.6	18.1	15	14	14

W:\WORKDA~1\3323\SOUNDM~1\11-15~1\CEL\06221001.DTA

- Period results -

Record number 7 : 22  
 Record start 18:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.6	63.1	61	58	56
Broadband	A	43.3	54.4	44	43	42
16	L	57.1	62.3	60	56	52
32	L	47.9	53	50	48	46
63	L	47.5	52.5	49	47	46
125	L	46.8	52.8	48	47	45
250	L	44.5	48.1	46	44	43
500	L	38.9	46.6	40	39	38
1k	L	40	49.9	41	40	39
2k	L	34.3	48	35	34	33
4k	L	23.7	45.4	24	21	20
8k	L	24.9	44.8	28	18	14
16k	L	15	30.5	15	14	14

NSA-7: Between #3 and #5 Whitetail Way @ Sidewalk

November 15, 2010

W:\WORKDA~1\3323\SOUNDM~1\11-15~1\CEL\06221001.DTA

- Period results -

Record number 9 : 22  
 Record start 20:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.5	62.4	61	58	56
Broadband	A	43.3	56.9	44	43	42
16	L	56.9	61.7	60	56	52
32	L	47.7	52.7	49	47	45
63	L	47.6	52.5	49	47	46
125	L	47.5	53.2	49	47	46
250	L	45.4	50.9	47	45	44
500	L	38.7	40.9	40	39	38
1k	L	39.2	42.9	40	39	38
2k	L	35.4	55.5	34	33	32
4k	L	22	32.3	24	21	20
8k	L	23.4	37.2	27	17	14
16k	L	14.6	17.6	15	14	14

W:\WORKDA~1\3323\SOUNDM~1\11-15~1\CEL\06221001.DTA

- Period results -

Record number 10 : 22  
 Record start 21:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.5	62.5	61	58	56
Broadband	A	43.9	49.5	45	44	42
16	L	56.9	61.8	60	56	52
32	L	47.3	52	49	47	45
63	L	47.4	51.1	49	47	46
125	L	47.7	52	49	47	46
250	L	45.5	50.4	47	45	43
500	L	39.4	42.6	40	39	38
1k	L	40.5	47.9	42	40	39
2k	L	34.8	42	36	34	33
4k	L	22.5	30.4	24	22	21
8k	L	19.1	31.9	23	15	14
16k	L	14.5	17.4	15	14	14

W:\WORKDA~1\3323\SOUNDM~1\11-15~1\CEL\06221001.DTA

- Period results -

Record number 13 : 22  
 Record start 24:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.6	62.5	61	58	56
Broadband	A	45.2	53.5	46	45	43
16	L	57	61.5	60	56	52
32	L	47.7	53	50	47	45
63	L	46.9	51.9	49	47	45
125	L	47.8	52.4	50	47	46
250	L	44.7	49	46	44	42
500	L	40.6	47.8	42	40	39
1k	L	42.4	51.6	44	42	40
2k	L	36	45.7	37	35	34
4k	L	25.6	33.6	29	23	22
8k	L	27	39.6	32	21	15
16k	L	15	21.7	16	15	14

W:\WORKDA~1\3323\SOUNDM~1\11-15~1\CEL\06221001.DTA

- Period results -

Record number 14 : 22  
 Record start 25:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.7	62.7	61	58	56
Broadband	A	44.4	53.3	45	44	43
16	L	56.9	62	60	56	52
32	L	47.6	52.5	49	47	45
63	L	47.2	52	49	47	45
125	L	48.9	56.7	50	49	47
250	L	46.4	52.6	48	46	44
500	L	40.3	43.9	41	40	39
1k	L	40.9	47	42	41	40
2k	L	34.6	49.1	35	34	33
4k	L	25	44	27	23	22
8k	L	23.5	39.8	27	15	14
16k	L	14.7	26.4	15	14	14

W:\WORKDA~1\3323\SOUNDM~1\11-15~1\CEL\06221001.DTA

NSA-7: Between #3 and #5 Whitetail Way @ Sidewalk

November 15, 2010

- Period results -

Record number 15 : 22  
 Record start 26:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.5	62.7	61	58	56
Broadband	A	43.4	47.5	44	43	42
16	L	56.9	62.1	60	56	52
32	L	47.6	52.1	49	47	45
63	L	47.1	51.9	48	47	45
125	L	47.7	52.1	49	47	46
250	L	45.3	49.6	47	45	44
500	L	39.3	41.5	40	39	38
1k	L	39.9	44.5	41	40	39
2k	L	33.9	41.7	35	33	32
4k	L	23.6	33.6	27	22	21
8k	L	18.4	32.7	21	15	14
16k	L	14.7	25.1	15	14	14

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- Period results -

Record number 16 : 22  
 Record start 27:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.5	63.2	61	58	56
Broadband	A	43.6	48	44	44	43
16	L	56.9	62.5	60	56	52
32	L	47.3	52.4	49	47	45
63	L	47.3	50.9	49	47	45
125	L	48	52.5	50	48	46
250	L	44.2	48.1	46	44	43
500	L	39.4	42	40	39	39
1k	L	40.3	42.8	41	40	40
2k	L	34.3	44.5	35	34	33
4k	L	23.6	30.4	26	22	22
8k	L	16.3	30.4	18	14	14
16k	L	14.4	17.1	15	14	14

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- Period results -

NSA-7: Between #3 and #5 Whitetail Way @ Sidewalk

November 15, 2010

Record number 17 : 22  
 Record start 28:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.6	62.1	61	58	56
Broadband	A	43.6	46	45	43	42
16	L	57	61.3	60	56	52
32	L	47.2	51.8	49	47	45
63	L	48.6	54.5	50	48	46
125	L	47.5	51.4	49	47	46
250	L	44.4	49.1	46	44	43
500	L	39.4	42.2	40	39	38
1k	L	40.4	43.8	42	40	39
2k	L	34.7	38.8	37	34	33
4k	L	22.9	31.3	24	22	21
8k	L	18.1	30.4	21	14	14
16k	L	14.5	16.5	15	14	14

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- Period results -

Record number 18 : 22  
 Record start 29:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.7	62.5	61	58	56
Broadband	A	44.1	47.6	45	44	43
16	L	57.1	61.7	60	56	52
32	L	47.7	52.1	49	47	45
63	L	47.9	52.1	49	48	46
125	L	47.7	52.5	49	48	46
250	L	45.3	49.7	47	45	43
500	L	40.1	44	41	40	39
1k	L	41	45.1	42	41	40
2k	L	34.6	37.1	36	34	33
4k	L	22.4	25.9	24	22	21
8k	L	14.5	22.1	15	14	14
16k	L	14.4	14.8	14	14	14

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- Period results -

**NSA-7: Between #3 and #5 Whitetail Way @ Sidewalk**

**November 15, 2010**

Record number 20 : 22  
 Record start 31:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.9	62.4	61	58	56
Broadband	A	43.9	47.9	45	44	43
16	L	56.9	61.5	60	56	52
32	L	49	55.4	51	49	47
63	L	49.2	54.6	51	49	47
125	L	48.4	53.7	50	48	47
250	L	44.9	51.1	46	45	43
500	L	40	44.2	41	40	39
1k	L	40.4	44.8	42	40	39
2k	L	34.8	40	37	34	33
4k	L	25.4	39.8	28	23	21
8k	L	15.7	27.6	17	15	14
16k	L	14.4	16.2	15	14	14

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- Period results -

Record number 21 : 22  
 Record start 32:40.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.5	62.7	61	58	56
Broadband	A	42.9	45	44	43	42
16	L	56.8	61.9	60	56	52
32	L	47.6	52.3	49	47	45
63	L	48.4	53.3	50	48	46
125	L	48.4	53	50	48	47
250	L	44.6	48.5	46	44	43
500	L	39.1	42.8	40	39	38
1k	L	39.3	41.9	40	39	38
2k	L	33.1	35.4	34	33	32
4k	L	21.1	30.2	21	21	20
8k	L	14.8	30.6	15	14	14
16k	L	14.5	22.5	15	14	14

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- Cumulative period results -

Number of records 19  
 Run start 11/15/2010 8:42  
 Run duration 000 00:19:03.64  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.3	66.7	61	59	57
Broadband	A	47.5	57	48	47	47
16	L	56.6	62.9	59	56	52
32	L	51.5	59.8	53	51	49
63	L	51	60	53	50	48
125	L	44.9	50.9	46	45	43
250	L	45.4	51.1	46	45	44
500	L	46	54.6	47	46	45
1k	L	42.9	49.4	44	43	42
2k	L	39.9	50.4	41	40	39
4k	L	31.5	51.7	31	30	29
8k	L	22.7	49	24	17	16
16k	L	15.4	40.5	15	14	14

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- Period results -

Record number 2 : 19  
 Record start 43:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.2	62.6	61	59	57
Broadband	A	47.4	49.1	48	47	47
16	L	56.3	61.4	59	56	52
32	L	51.8	57.3	54	52	49
63	L	51.2	58.3	54	50	48
125	L	43.5	46.7	45	43	42
250	L	44.8	47.3	46	45	44
500	L	46	48	47	46	45
1k	L	42.7	44.9	43	43	42
2k	L	40.1	43.3	41	40	39
4k	L	31.1	35.7	32	31	30
8k	L	20.8	35.5	23	17	16
16k	L	14.4	20.4	15	14	14

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- Period results -

Record number 3 : 19  
 Record start 44:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.1	62.4	61	59	57
Broadband	A	47.4	49.3	48	47	47
16	L	56.3	61.3	59	56	52
32	L	51.2	56.6	53	51	49
63	L	51.4	58.7	53	51	49
125	L	43.6	47.4	45	43	42
250	L	44.9	47.3	46	45	44
500	L	46	47.8	47	46	45
1k	L	42.6	45	43	43	42
2k	L	40	42.8	41	40	39
4k	L	30.6	34.9	31	31	30
8k	L	19.3	34.9	20	17	16
16k	L	14.5	18.8	15	14	14

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- Period results -

Record number 4 : 19  
 Record start 45:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.3	63.2	61	59	57
Broadband	A	47.5	50.6	48	47	47
16	L	56.7	62.2	59	56	52
32	L	50.7	55.5	52	50	48
63	L	51.9	59.3	55	51	47
125	L	44.4	49.2	46	44	43
250	L	45.4	50.3	47	45	44
500	L	45.8	50	47	46	45
1k	L	42.8	46.2	44	43	42
2k	L	40.4	43.3	41	40	40
4k	L	30.7	32.9	32	31	30
8k	L	17.6	28.2	20	16	16
16k	L	14.4	17.2	15	14	14

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- Period results -

Record number 5 : 19  
 Record start 46:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.4	62.9	61	59	57
Broadband	A	47.3	49.1	48	47	47
16	L	56.9	62	59	56	53
32	L	51.7	57.4	54	51	49
63	L	50.4	55.9	52	50	48
125	L	45	49	47	45	43
250	L	45.2	47.8	46	45	44
500	L	45.5	47.6	46	45	45
1k	L	42.6	44.6	43	42	42
2k	L	40.1	43.2	41	40	39
4k	L	29.9	32	31	30	29
8k	L	17.1	24	19	16	15
16k	L	14.4	15.9	14	14	14

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- Period results -

Record number 6 : 19  
 Record start 47:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.2	63.3	61	59	57
Broadband	A	47.7	53.4	48	47	47
16	L	56.5	62	59	56	52
32	L	51.6	57.1	53	51	49
63	L	51	56.2	53	51	49
125	L	45	48.9	46	45	44
250	L	45.3	48.1	46	45	44
500	L	45.7	47.9	46	46	45
1k	L	42.8	44.7	43	43	42
2k	L	40.1	44.4	41	40	39
4k	L	35.8	50.5	39	30	29
8k	L	21.6	35	24	16	15
16k	L	14.4	16.2	15	14	14

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- Period results -

Record number 7 : 19  
 Record start 48:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.2	63.3	61	59	57
Broadband	A	47.6	49.7	48	47	47
16	L	56.4	61.6	59	56	52
32	L	51.6	57.7	53	51	49
63	L	51.1	56.6	53	51	49
125	L	44.8	48.1	46	45	43
250	L	45.1	49	46	45	44
500	L	45.8	49.4	47	46	45
1k	L	43.1	45.4	44	43	42
2k	L	40.4	43.9	42	40	39
4k	L	30.1	35.5	31	30	29
8k	L	17.1	28	18	16	15
16k	L	14.3	15.1	14	14	14

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- Period results -

Record number 8 : 19  
 Record start 49:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.1	63.2	61	59	57
Broadband	A	47.8	51.1	49	48	47
16	L	56.5	62	59	56	52
32	L	51.1	55.5	53	51	49
63	L	49.8	56.4	51	50	48
125	L	44.7	49.1	46	45	43
250	L	45.2	48	46	45	44
500	L	46	48.5	47	46	45
1k	L	43.2	46	44	43	42
2k	L	40.2	44.1	41	40	39
4k	L	34.5	47	38	31	30
8k	L	21.1	33.7	25	16	16
16k	L	14.4	17.3	15	14	14

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- Period results -

Record number 9 : 19  
 Record start 50:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.1	62.6	61	59	57
Broadband	A	47.8	50.2	49	48	47
16	L	56.7	61.6	59	56	52
32	L	51	59.8	53	51	49
63	L	49.1	55.1	51	49	47
125	L	44.8	49	46	45	43
250	L	45.5	48.2	46	45	45
500	L	46	48.7	47	46	45
1k	L	43.3	46.5	44	43	42
2k	L	40.6	45.4	42	40	39
4k	L	32	41.5	34	31	30
8k	L	18.4	28.7	21	17	16
16k	L	14.4	17.3	14	14	14

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- Period results -

Record number 10 : 19  
 Record start 51:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.3	62.9	61	59	57
Broadband	A	47.6	50.2	48	47	47
16	L	56.7	62.1	59	56	53
32	L	51.5	57.2	53	51	49
63	L	49.9	53.6	51	50	48
125	L	44.2	47.5	45	44	43
250	L	45.3	47.8	46	45	44
500	L	46.2	48.7	47	46	45
1k	L	43	44.6	44	43	42
2k	L	39.9	45.4	41	40	39
4k	L	30.1	36.4	31	30	29
8k	L	18.4	33.8	20	17	16
16k	L	14.4	16.8	15	14	14

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- Period results -

Record number 11 : 19  
 Record start 52:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.2	63.5	61	59	57
Broadband	A	48	49.7	49	48	47
16	L	56.5	62.4	59	56	52
32	L	51.5	57.6	53	51	49
63	L	50.6	56.8	52	50	49
125	L	44.9	48.7	46	45	43
250	L	45.7	48.8	47	46	45
500	L	46.5	48.7	47	46	46
1k	L	43.4	45.3	44	43	43
2k	L	40.5	44.2	42	40	39
4k	L	30.5	38.8	31	30	29
8k	L	22.8	44.7	19	16	16
16k	L	14.6	26.1	15	14	14

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- Period results -

Record number 12 : 19  
 Record start 53:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.7	63.9	61	59	58
Broadband	A	47.7	50.1	48	48	47
16	L	56.7	62.3	59	56	52
32	L	52.5	57.1	55	52	49
63	L	52	59	55	51	48
125	L	45.3	50	46	45	44
250	L	45.7	49.3	47	46	45
500	L	46.2	48.4	47	46	45
1k	L	43.2	45.6	44	43	42
2k	L	39.9	43.6	41	40	39
4k	L	30.3	32	31	30	30
8k	L	18.7	32.1	20	16	16
16k	L	14.5	17.2	15	14	14

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- Period results -

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Record number 13 : 19  
 Record start 54:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.3	62.9	61	59	57
Broadband	A	47.4	49.7	48	47	47
16	L	56.5	61.1	59	56	52
32	L	51.8	56.8	54	51	49
63	L	51.1	59.7	53	50	48
125	L	45.1	48.4	46	45	44
250	L	45.4	48.7	46	45	44
500	L	45.7	48.7	47	46	45
1k	L	42.9	45.1	44	43	42
2k	L	39.9	43.1	41	40	39
4k	L	30	31.8	31	30	29
8k	L	17.2	30.9	17	16	15
16k	L	14.3	17.9	14	14	14

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- Period results -

Record number 14 : 19  
 Record start 55:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.8	64.8	61	60	58
Broadband	A	47.2	49.4	48	47	47
16	L	56.8	62	59	56	53
32	L	52.3	58.2	54	52	50
63	L	52.3	60	55	51	49
125	L	45.8	49.6	47	46	44
250	L	45.4	47.8	46	45	45
500	L	45.6	48	46	46	45
1k	L	42.6	44.6	43	43	42
2k	L	39.5	42.8	40	39	39
4k	L	29.9	32.7	31	30	29
8k	L	23.4	38.7	26	16	15
16k	L	14.5	19.5	15	14	14

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- Period results -

**NSA-1: 11 White Tail Way****November 15, 2010**

Record number 17 : 19  
 Record start 58:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.2	63	61	59	57
Broadband	A	47.3	49.4	48	47	47
16	L	56.6	61.6	59	56	52
32	L	51.3	56.3	53	51	49
63	L	50.5	55.5	52	50	49
125	L	44.7	47.9	46	44	43
250	L	45.4	48.2	46	45	44
500	L	46	48.4	47	46	45
1k	L	42.8	45.3	44	43	42
2k	L	39.4	41.9	40	39	38
4k	L	29.7	31.4	31	30	29
8k	L	25	36.7	29	21	16
16k	L	14.6	18	15	14	14

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- Period results -

Record number 18 : 19  
 Record start 59:36.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59	63.2	61	59	57
Broadband	A	46.5	48	47	47	46
16	L	56.5	61.8	59	56	52
32	L	50.8	54.8	53	51	48
63	L	50.2	55.4	52	50	48
125	L	44.8	48.8	46	45	43
250	L	45.2	47.7	46	45	44
500	L	45.5	47.7	46	45	45
1k	L	41.7	43.7	42	42	41
2k	L	38.4	40.6	39	38	38
4k	L	29.2	32.9	30	29	29
8k	L	22.1	37.1	25	18	16
16k	L	14.4	19.1	15	14	14

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- Cumulative period results -

Number of records 48  
 Run start 11/15/2010 13:47  
 Run duration 000 00:48:02.94  
 Overload occurred Yes  
 Overload %time 0.95  
 Low battery occurred No  
 Pause was used Yes

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	65.7	0	69	57	54
Broadband	A	58.5	0	60	45	43
16	L	54.6	0	58	52	47
32	L	58.9	0	65	50	47
63	L	60.4	0	60	50	47
125	L	57.6	0	57	43	40
250	L	54.9	0	56	43	40
500	L	53.7	0	55	42	40
1k	L	55.6	0	58	40	38
2k	L	51.2	0	53	37	35
4k	L	44.1	0	42	31	30
8k	L	37.8	0	33	25	24
16k	L	32.9	0	21	18	17

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- Period results -

Record number 4 : 48  
 Record start 50:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.7	61.6	57	55	54
Broadband	A	44.3	56	45	44	44
16	L	51.9	58.1	55	51	46
32	L	48.5	52.8	50	48	46
63	L	48.7	54.6	50	48	46
125	L	41	44.4	42	41	40
250	L	42.7	46.9	44	42	41
500	L	42.1	56.5	43	42	41
1k	L	39.8	51.3	40	40	39
2k	L	36.6	42.9	37	37	36
4k	L	31.2	41.3	32	31	30
8k	L	27.1	39.8	29	26	25
16k	L	18.3	28.2	19	18	17

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- Period results -

Record number 6 : 48  
 Record start 52:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.7	59	57	56	54
Broadband	A	45.7	52.9	48	44	44
16	L	50.9	56.2	54	50	46
32	L	49.5	55.9	51	49	47
63	L	49.6	54.7	51	49	47
125	L	42.2	48.2	44	42	41
250	L	42.7	47	44	42	41
500	L	42	47.3	43	42	41
1k	L	41.6	50.2	45	40	39
2k	L	39.3	48.2	42	37	37
4k	L	31.6	37.7	33	31	31
8k	L	25.7	32.1	27	25	24
16k	L	18	25.2	18	18	17

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- Period results -

Record number 8 : 48  
 Record start 54:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	56	61.2	58	55	54
Broadband	A	45.5	57.8	44	44	43
16	L	51.8	58.2	55	51	46
32	L	49.6	54.6	51	49	47
63	L	49.1	55.7	51	49	47
125	L	43.6	52.7	45	42	41
250	L	42.6	53.3	43	41	40
500	L	41.3	50.2	42	40	39
1k	L	41.6	54.8	40	39	38
2k	L	39.1	52.5	38	37	36
4k	L	31.2	37.2	32	31	30
8k	L	25.6	33.5	27	25	24
16k	L	18	21.1	19	18	17

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- Period results -

Record number 11 : 48  
 Record start 57:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55	59.6	56	55	53
Broadband	A	43.3	49.1	44	43	42
16	L	50.9	56.3	54	50	46
32	L	48.5	53.9	50	48	46
63	L	48	55.8	50	48	46
125	L	42.4	48.2	44	42	41
250	L	41.8	48	43	41	40
500	L	40.7	49.7	42	40	39
1k	L	38.6	46.2	39	38	37
2k	L	35.8	39.4	36	36	35
4k	L	30.5	33.5	31	30	30
8k	L	24.9	29.6	26	25	24
16k	L	17.8	20.9	18	18	17

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- Period results -

Record number 17 : 48  
 Record start 03:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.4	64.1	61	59	57
Broadband	A	44	46.6	45	44	43
16	L	53.6	59.6	56	53	49
32	L	56.2	62.6	59	56	53
63	L	52.6	57.7	55	52	50
125	L	43.5	47.4	45	43	42
250	L	42.6	47.1	44	42	41
500	L	41.2	44	42	41	40
1k	L	39.2	43	40	39	38
2k	L	36.6	40.8	37	37	36
4k	L	30.9	36.8	32	31	30
8k	L	25.3	34.1	26	25	24
16k	L	18	26	19	18	17

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- Period results -

Record number 21 : 48  
 Record start 07:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred Yes  
 Overload %time 0.1  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	69.4	77	71	69	67
Broadband	A	50.8	62.5	55	45	44
16	L	60.3	67.5	62	60	57
32	L	66.7	71.9	69	66	64
63	L	64	75	66	61	59
125	L	57.8	72.5	59	50	47
250	L	53.2	66.4	58	44	42
500	L	45.3	55	49	42	41
1k	L	44.5	55	49	40	39
2k	L	42.7	58.3	46	38	37
4k	L	37.4	57.3	39	32	31
8k	L	28.8	47.3	30	25	24
16k	L	19.1	33.3	20	18	17

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- Period results -

Record number 26 : 48  
 Record start 12:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64	68.7	66	64	61
Broadband	A	46.5	56.6	47	44	43
16	L	56.9	63.9	59	56	53
32	L	62.1	67.7	64	62	59
63	L	55.5	61.5	57	55	53
125	L	43.7	50.1	45	43	42
250	L	42	46.7	43	42	41
500	L	42.6	52.3	43	41	40
1k	L	43.8	55.2	44	39	38
2k	L	37.9	46.5	39	36	35
4k	L	31.6	38.4	33	31	30
8k	L	25.2	32.9	26	25	24
16k	L	18	20.7	18	18	17

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- Period results -

Record number 30 : 48  
 Record start 16:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.5	59.2	57	55	54
Broadband	A	43.3	54.3	44	43	43
16	L	51.9	57.6	55	51	47
32	L	49	54.1	51	49	47
63	L	48	53.6	50	48	46
125	L	40	43	41	40	39
250	L	41.4	45.6	42	41	40
500	L	40.4	46.7	41	40	39
1k	L	38.8	48.6	39	39	38
2k	L	36.3	50.7	37	36	35
4k	L	30.8	43.5	31	31	30
8k	L	24.9	33.4	26	25	24
16k	L	17.8	19.8	18	18	17

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- Period results -

Record number 31 : 48  
 Record start 17:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.5	59.9	57	55	53
Broadband	A	43.3	49.5	44	43	43
16	L	52.1	58.1	55	51	47
32	L	48.7	54.5	51	48	46
63	L	48.1	53.5	50	48	46
125	L	40.5	43.7	42	40	39
250	L	41.7	45.2	43	42	40
500	L	40.6	44.4	41	41	40
1k	L	38.7	40.8	39	39	38
2k	L	35.9	43.7	36	36	35
4k	L	30.9	45.3	31	31	30
8k	L	24.9	33.3	26	25	24
16k	L	17.8	20.5	18	18	17

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- Period results -

Record number 38 : 48  
 Record start 24:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	54.7	58.2	56	54	53
Broadband	A	43.2	49.6	44	43	42
16	L	51.1	56.5	54	50	46
32	L	47.8	52.5	50	47	45
63	L	48	54	50	47	45
125	L	40.3	48.8	42	40	39
250	L	40.5	47.4	42	40	39
500	L	40.5	50.6	42	40	39
1k	L	38.7	45	40	38	38
2k	L	36	44.4	37	36	35
4k	L	30.9	41.7	32	31	30
8k	L	25.3	32.6	26	25	24
16k	L	18.1	25.3	19	18	17

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- Period results -

Record number 42 : 48  
 Record start 28:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used Yes  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.6	59.6	57	55	54
Broadband	A	43.7	51.4	46	43	42
16	L	51.5	57.8	54	51	47
32	L	48.7	53.5	51	48	46
63	L	49.4	54	51	49	47
125	L	40.5	43.9	42	40	39
250	L	40.6	44.4	42	40	39
500	L	40.1	45.8	42	39	38
1k	L	40.1	49.9	43	38	37
2k	L	36.2	42.1	38	35	34
4k	L	30.7	34.5	32	31	30
8k	L	25	27	26	25	24
16k	L	17.9	19.5	18	18	17

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- Period results -

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Record number 43 : 48  
 Record start 29:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used Yes  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.8	0	57	55	54
Broadband	A	45	0	45	43	42
16	L	51	0	54	50	46
32	L	48.5	0	50	48	46
63	L	50.1	0	52	50	48
125	L	42.1	0	43	42	41
250	L	42.8	0	44	42	41
500	L	40.4	0	41	40	39
1k	L	39	0	41	38	37
2k	L	40.5	0	37	36	35
4k	L	30.7	0	31	31	30
8k	L	24.9	0	26	25	24
16k	L	17.8	0	18	18	17

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- Period results -

Record number 44 : 48  
 Record start 30:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.5	63.5	57	55	54
Broadband	A	44.5	64	44	43	42
16	L	50.9	55.8	54	50	46
32	L	48.5	53.7	50	48	46
63	L	50.5	61.7	52	50	47
125	L	41.7	49.5	43	41	40
250	L	41.2	46.3	42	41	40
500	L	39.9	44.2	41	40	39
1k	L	38.3	44	39	38	37
2k	L	40.2	62.8	37	35	35
4k	L	30.7	39.7	31	31	30
8k	L	25.2	31.5	26	25	24
16k	L	18.2	23.9	19	18	17

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- Period results -

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Record number 45 : 48  
 Record start 31:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used Yes  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.6	59.7	57	55	54
Broadband	A	43.7	49.1	46	43	42
16	L	50.8	56.8	54	50	46
32	L	48.5	54.3	50	48	46
63	L	50.4	54.9	52	50	48
125	L	43.4	47.5	45	43	42
250	L	41.6	45.7	44	41	40
500	L	40.2	45.9	42	40	39
1k	L	39.5	47	42	38	37
2k	L	36.3	40.8	38	36	35
4k	L	30.9	36.7	32	31	30
8k	L	25.2	30	26	25	24
16k	L	18.1	21.4	19	18	18

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- Period results -

Record number 47 : 48  
 Record start 33:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	56.8	60.9	59	56	55
Broadband	A	44.6	49.2	46	44	43
16	L	53.3	59.5	56	52	48
32	L	48.2	53.6	50	48	45
63	L	50	58.4	52	50	47
125	L	44.1	50.8	46	43	42
250	L	46.2	54.6	49	45	41
500	L	42.3	48.1	45	41	40
1k	L	39.1	44.7	40	39	38
2k	L	36.3	39.8	38	36	35
4k	L	30.9	38.3	32	31	30
8k	L	25	29.3	26	25	24
16k	L	17.9	22.3	18	18	17

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- Cumulative period results -

Number of records 17  
 Run start 11/15/2010 14:40  
 Run duration 000 00:17:02.74  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.2	61.7	57	55	53
Broadband	A	43.6	58.3	45	43	42
16	L	52.4	59.6	55	52	47
32	L	46.1	54.1	48	46	44
63	L	47.3	58.7	49	47	45
125	L	43.4	52.4	45	43	40
250	L	38.7	47.7	40	39	37
500	L	39.3	54	40	39	38
1k	L	39.8	52.3	41	39	38
2k	L	37.2	54.4	38	37	36
4k	L	30.3	51.2	31	29	27
8k	L	23.1	48.5	23	17	15
16k	L	16.9	42.5	17	14	14

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- Period results -

Record number 2 : 17  
 Record start 41:25.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.3	60.5	57	55	53
Broadband	A	43.4	47.7	44	43	42
16	L	52.3	59.3	55	51	47
32	L	46.2	53.1	48	46	44
63	L	47.7	57	49	47	45
125	L	44.9	50.3	47	45	43
250	L	39	41.9	40	39	38
500	L	39.4	41.7	40	39	38
1k	L	39.5	44	41	39	38
2k	L	36.9	43.1	38	37	35
4k	L	29.6	40.5	32	29	28
8k	L	18.1	33.2	20	16	16
16k	L	14.6	19.8	15	14	14

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- Period results -

Record number 3 : 17  
 Record start 42:25.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.5	60.8	58	55	53
Broadband	A	42.5	58.3	43	42	41
16	L	53.1	58.9	56	52	49
32	L	46.2	51.7	48	46	43
63	L	46.3	54.5	48	46	44
125	L	42.6	47.5	45	42	40
250	L	37.6	42.9	39	37	36
500	L	38.4	51	39	38	37
1k	L	38.3	52.3	39	38	36
2k	L	36.4	54.4	37	35	34
4k	L	30	49	30	27	26
8k	L	23.7	44.8	20	16	15
16k	L	17.3	37	16	14	14

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- Period results -

Record number 4 : 17  
 Record start 43:25.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	56.2	61.7	58	56	54
Broadband	A	43.9	48.4	46	43	42
16	L	53.2	58.9	56	52	48
32	L	46	51.2	48	46	44
63	L	48.4	58.7	50	48	45
125	L	43.1	49.2	45	43	41
250	L	38.9	43	40	39	37
500	L	40.4	46.4	42	40	38
1k	L	40.5	45.3	43	40	38
2k	L	36.8	41.3	38	36	35
4k	L	27.4	30.7	29	27	26
8k	L	15.7	24.7	16	15	15
16k	L	14.4	19.9	15	14	14

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- Period results -

Record number 5 : 17  
 Record start 44:25.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.1	59.9	57	55	53
Broadband	A	43.6	47.2	45	43	43
16	L	52	58.7	55	51	47
32	L	46.4	51.3	48	46	44
63	L	47.5	52.8	49	47	45
125	L	44.4	49.7	46	44	42
250	L	39.2	42.5	40	39	38
500	L	39.5	42.5	41	39	38
1k	L	39.9	43.4	41	40	39
2k	L	37.2	41.8	38	37	36
4k	L	29.5	38.6	31	29	28
8k	L	21	38.3	22	18	15
16k	L	16.2	32	17	15	14

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- Period results -

Record number 6 : 17  
 Record start 45:25.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.1	59.2	57	55	53
Broadband	A	43.7	50.9	45	43	43
16	L	52.1	57.7	55	51	47
32	L	46.2	52.2	48	46	44
63	L	47.8	52.4	50	47	46
125	L	44.8	50.3	46	44	43
250	L	38.1	42	39	38	37
500	L	39	44.3	40	39	38
1k	L	40.2	48.8	41	40	39
2k	L	37.3	45.8	38	37	36
4k	L	29.6	41.6	30	29	28
8k	L	22.3	41.5	21	17	16
16k	L	16.6	33.8	16	14	14

**PB-1: Northern Property Boundary**

**November 15, 2010**

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- Period results -

Record number 7 : 17  
Record start 46:25.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.2	60.1	57	55	53
Broadband	A	44	52.7	46	43	43
16	L	52.5	59.6	55	51	47
32	L	46	51.4	48	46	43
63	L	46.9	53.4	49	47	45
125	L	44.3	47.7	45	44	43
250	L	38.9	43.6	40	39	38
500	L	39.5	46.2	41	39	38
1k	L	40.2	47.9	42	39	38
2k	L	37.6	45.7	39	37	36
4k	L	31.4	48.5	32	29	29
8k	L	22.5	39	25	18	16
16k	L	16.2	28.9	18	15	14

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- Period results -

Record number 8 : 17  
Record start 47:25.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.1	59.9	57	55	52
Broadband	A	43.6	50.3	45	43	42
16	L	52.3	59.2	55	51	47
32	L	45.7	52.5	48	45	43
63	L	47.7	56.8	50	47	45
125	L	43.5	50.2	45	43	41
250	L	39.5	46.2	41	39	38
500	L	39.7	46.3	42	39	37
1k	L	39.7	47.2	41	39	38
2k	L	37.4	43.6	38	37	36
4k	L	29.6	35.8	31	29	28
8k	L	17.1	25.5	18	16	16
16k	L	14.6	17.8	15	14	14

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**PB-1: Northern Property Boundary**

**November 15, 2010**

- Period results -

Record number 9 : 17  
Record start 48:25.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55	59.9	57	55	53
Broadband	A	44.2	49.5	46	44	43
16	L	52	58.3	55	51	47
32	L	46.4	54.1	48	46	44
63	L	47.9	56.8	49	47	45
125	L	42.3	49.1	44	42	40
250	L	38.9	43.5	40	39	38
500	L	40	45	41	40	38
1k	L	40.7	47.8	43	40	39
2k	L	37.5	44.4	39	37	36
4k	L	29.8	41.2	31	28	27
8k	L	23.3	39.4	24	18	16
16k	L	17.1	31.1	18	15	14

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- Period results -

Record number 10 : 17  
Record start 49:25.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	54.9	59	57	55	53
Broadband	A	43.6	55.8	44	43	43
16	L	52	57.5	55	51	46
32	L	45.9	50.7	48	45	44
63	L	47.1	54.5	49	47	45
125	L	44.3	48.9	46	44	43
250	L	39.2	45.5	40	39	38
500	L	39.7	51.8	40	39	39
1k	L	39.5	47.6	40	39	39
2k	L	37.2	48	38	37	36
4k	L	31.1	50.8	31	29	28
8k	L	23	41.9	25	18	16
16k	L	16.6	31.5	18	15	14

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**PB-1: Northern Property Boundary**

**November 15, 2010**

- Period results -

Record number 11 : 17  
Record start 50:25.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	54.7	58.7	57	54	52
Broadband	A	43.1	51.6	44	43	42
16	L	51.8	57.4	55	51	46
32	L	46.2	51.4	48	46	44
63	L	47.3	52.3	49	47	45
125	L	43	48.7	45	43	40
250	L	39.1	45.2	41	39	37
500	L	39	47	40	39	38
1k	L	38.9	43.1	40	39	38
2k	L	36.8	44.3	38	37	36
4k	L	30.6	46.8	30	29	28
8k	L	23.1	42.7	23	17	16
16k	L	16.4	32.3	17	15	14

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- Period results -

Record number 12 : 17  
Record start 51:25.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	56	60.6	58	56	54
Broadband	A	43.1	51.6	45	43	42
16	L	53.3	58.6	56	53	49
32	L	46.2	51.2	48	46	44
63	L	49.2	57.4	52	47	45
125	L	42.7	50.2	45	42	40
250	L	38.5	44.5	40	38	37
500	L	39	49	40	39	38
1k	L	39.4	46.1	41	39	38
2k	L	36.5	43.8	38	36	35
4k	L	28.9	44.2	29	28	27
8k	L	17.4	32.1	18	16	15
16k	L	14.7	23.7	15	14	14

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- Period results -

**PB-1: Northern Property Boundary**

**November 15, 2010**

Record number 13 : 17  
Record start 52:25.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.2	59.8	57	55	53
Broadband	A	42.8	54.9	44	42	42
16	L	53	58.9	56	52	48
32	L	45.9	51.2	48	45	43
63	L	46.5	52.1	48	46	44
125	L	41	45.3	42	41	39
250	L	38.3	47.7	39	38	37
500	L	38.6	48.6	39	38	37
1k	L	38.7	48.5	40	38	37
2k	L	36.5	46.2	37	36	35
4k	L	30	48.3	29	28	27
8k	L	24.3	48.5	22	16	15
16k	L	16.5	36.6	17	14	14

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- Period results -

Record number 14 : 17  
Record start 53:25.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	54.6	59.3	57	54	52
Broadband	A	43.1	55.9	44	42	42
16	L	52.3	58.6	55	51	47
32	L	46	51.4	48	46	44
63	L	46.1	51.6	48	46	44
125	L	40.5	44.4	42	40	39
250	L	38	43.7	39	38	37
500	L	38.2	48.4	39	38	37
1k	L	39	47.5	40	38	37
2k	L	36.9	49.4	38	36	35
4k	L	31.7	51.2	30	28	27
8k	L	23	42.9	23	16	15
16k	L	16.9	33	17	14	14

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- Period results -

**PB-1: Northern Property Boundary**

November 15, 2010

Record number 15 : 17  
 Record start 54:25.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	54.7	59.2	57	54	52
Broadband	A	43.1	47.1	45	43	42
16	L	52.5	58.5	56	52	46
32	L	45.6	51.4	47	45	43
63	L	46.5	53.5	48	46	44
125	L	41.5	52.4	43	41	39
250	L	37.5	41.7	39	37	36
500	L	38.6	43.2	40	38	37
1k	L	39.6	45	42	39	37
2k	L	36.8	40.5	38	36	35
4k	L	28.1	36.4	29	28	27
8k	L	16.9	29.7	18	16	15
16k	L	14.6	21.5	15	14	14

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- Period results -

Record number 16 : 17  
 Record start 55:25.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.1	59.7	57	55	53
Broadband	A	43.6	47.2	45	43	42
16	L	52.6	59.1	56	51	47
32	L	46.2	50.6	48	46	44
63	L	46.5	51.9	48	46	44
125	L	44.2	49	45	44	42
250	L	38.9	42.5	40	39	37
500	L	39.2	43.9	40	39	38
1k	L	40	44.8	41	40	39
2k	L	37.2	39.9	38	37	36
4k	L	28.7	31.9	30	29	28
8k	L	17.6	30	19	16	15
16k	L	14.9	23.8	15	14	14

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## - Cumulative period results -

Number of records 26  
 Run start 11/15/2010 9:13  
 Run duration 000 00:26:06.18  
 Overload occurred Yes  
 Overload %time 0.05  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60	77.8	61	59	57
Broadband	A	53.8	75.5	52	49	48
16	L	51.2	60.3	54	50	45
32	L	52.8	69.8	55	52	50
63	L	53.5	68.8	55	53	50
125	L	50.4	75.9	50	48	46
250	L	50.2	68.9	51	49	47
500	L	50	72.7	50	47	46
1k	L	50.9	73.6	48	45	44
2k	L	46	67.4	44	40	38
4k	L	35.8	56.4	35	28	26
8k	L	27	52.5	25	17	15
16k	L	17.7	43	17	15	14

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## - Period results -

Record number 4 : 26  
 Record start 16:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.4	62.9	60	58	57
Broadband	A	49.7	56	51	49	48
16	L	50.6	58.7	54	49	44
32	L	52.5	58.5	54	52	50
63	L	52.4	59.6	54	52	50
125	L	47.3	51.1	49	47	46
250	L	48.5	53.9	50	48	47
500	L	47.4	51.5	49	47	46
1k	L	45.8	53.1	47	45	44
2k	L	41.9	49.8	44	41	39
4k	L	30.9	38.9	34	29	26
8k	L	17	25.5	19	16	15
16k	L	14.6	18.2	15	14	14

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- Period results -

Record number 6 : 26  
 Record start 18:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.4	64	60	59	58
Broadband	A	50.6	52.9	51	50	50
16	L	50.2	58.2	53	49	45
32	L	53.9	60.7	56	54	51
63	L	53	59.4	55	53	51
125	L	49.2	54.2	51	49	48
250	L	50.5	53.3	52	50	49
500	L	48.8	51.3	50	49	48
1k	L	46.3	48.6	47	46	45
2k	L	42.2	48.5	44	41	40
4k	L	31.3	42.9	34	29	28
8k	L	17.5	30.2	20	16	15
16k	L	14.6	18.5	15	14	14

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- Period results -

Record number 7 : 26  
 Record start 19:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.3	64.5	61	59	58
Broadband	A	52.3	62.9	53	51	50
16	L	49.7	56.3	53	49	44
32	L	53	59.1	55	52	50
63	L	52.7	59.8	55	52	50
125	L	49.2	54.5	51	49	47
250	L	50.7	54.9	52	51	49
500	L	49.4	54.7	50	49	48
1k	L	48.4	60	49	47	46
2k	L	45.3	57.9	47	43	41
4k	L	34	46.9	36	31	28
8k	L	19.3	32.2	20	16	15
16k	L	14.5	17.3	15	14	14

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- Period results -

Record number 10 : 26  
 Record start 22:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.6	63.2	61	59	58
Broadband	A	49.8	52.9	51	50	49
16	L	49.6	56.9	53	48	44
32	L	53.1	58.9	55	53	50
63	L	54.9	60.3	57	55	52
125	L	49.9	57.4	51	49	48
250	L	50.1	55.9	51	50	49
500	L	48	51.9	49	48	47
1k	L	45.5	48.9	47	45	44
2k	L	41	46.5	43	40	39
4k	L	29.2	41.6	32	28	26
8k	L	18.5	35.9	20	16	15
16k	L	15.1	27.7	16	14	14

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- Period results -

Record number 12 : 26  
 Record start 24:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.9	62.2	60	59	57
Broadband	A	49	51.1	50	49	48
16	L	51.9	57.8	55	51	46
32	L	51.6	57.2	54	51	49
63	L	53.8	60.6	56	53	51
125	L	47.8	52.1	49	48	46
250	L	49.2	53	50	49	48
500	L	47.5	50.1	49	47	46
1k	L	45	47.6	46	45	44
2k	L	39.4	43.1	40	39	38
4k	L	26.9	39.1	28	26	25
8k	L	17.9	32.1	20	16	15
16k	L	15.1	22.1	16	15	14

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- Period results -

Record number 15 : 26  
 Record start 27:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.4	61.3	60	58	57
Broadband	A	48.6	50.6	49	49	48
16	L	50.7	56.6	54	50	46
32	L	52.2	57.4	54	52	50
63	L	52.8	58.9	55	52	50
125	L	47.4	52.6	49	47	46
250	L	48.1	51.3	49	48	47
500	L	46.9	49.7	48	47	46
1k	L	44.6	46.9	45	45	44
2k	L	39.6	42.3	41	40	38
4k	L	27.1	30.3	29	27	25
8k	L	15.3	21.8	16	15	14
16k	L	14.4	16.9	15	14	14

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- Period results -

Record number 16 : 26  
 Record start 28:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.7	62.3	60	59	58
Broadband	A	48.5	51.1	49	48	48
16	L	50.6	57.8	53	50	47
32	L	52.6	58.3	54	52	50
63	L	53	58.5	55	53	51
125	L	48.2	55.2	50	48	46
250	L	49.4	55.1	51	49	47
500	L	46.7	49.5	48	47	46
1k	L	44.1	45.9	45	44	43
2k	L	39.2	43.2	40	39	38
4k	L	27.9	42.6	29	27	26
8k	L	18.9	34.8	21	16	15
16k	L	14.9	26.4	15	14	14

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- Period results -

Record number 17 : 26  
 Record start 29:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.9	70.1	60	58	57
Broadband	A	48.9	57.4	50	48	48
16	L	50.6	57.5	54	49	44
32	L	52.8	64.2	55	52	49
63	L	54	68.8	55	53	51
125	L	47.8	53.4	49	47	46
250	L	48.5	54.6	50	48	47
500	L	46.6	51.6	48	46	46
1k	L	44.3	47.9	45	44	43
2k	L	39.7	46.4	41	39	38
4k	L	38.2	55	40	30	26
8k	L	28.4	45.6	27	19	15
16k	L	15.9	27.4	16	15	14

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- Period results -

Record number 18 : 26  
 Record start 30:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.2	61.5	59	58	57
Broadband	A	48.2	50.4	49	48	47
16	L	52.1	57.5	55	52	46
32	L	52.1	58.1	54	52	50
63	L	51.6	57.7	54	51	49
125	L	46.9	51.6	48	47	45
250	L	47.7	51.5	49	48	46
500	L	46.3	48.8	47	46	45
1k	L	44.1	46.4	45	44	43
2k	L	39.3	44.4	41	39	37
4k	L	30.8	43	34	27	24
8k	L	21	40.1	23	15	14
16k	L	15.9	32.6	16	14	14

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- Period results -

Record number 19 : 26  
 Record start 31:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59	63.5	60	59	58
Broadband	A	49.2	52.6	51	49	48
16	L	52	57.7	54	52	48
32	L	53.1	58.1	55	53	51
63	L	52.9	60.4	55	52	50
125	L	47.7	52.9	49	47	46
250	L	48.5	52.3	50	48	47
500	L	47.5	51.4	49	47	46
1k	L	45.5	48.9	47	45	44
2k	L	40.3	43.5	42	40	39
4k	L	27.6	37.3	29	27	26
8k	L	18.3	30.4	21	15	14
16k	L	15.7	28.4	16	14	14

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- Period results -

Record number 21 : 26  
 Record start 33:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.3	61.3	59	58	57
Broadband	A	48.9	51.6	50	49	48
16	L	51.2	57.6	54	50	45
32	L	51.6	56.7	53	51	49
63	L	52.3	57.6	54	52	50
125	L	48	51.5	50	48	46
250	L	48.7	52.6	50	49	47
500	L	46.9	49.5	48	47	46
1k	L	44.7	46.8	45	45	44
2k	L	40.6	46.9	43	40	38
4k	L	29.6	35.5	33	28	25
8k	L	18.4	29.1	21	16	15
16k	L	14.8	19	16	14	14

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- Period results -

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Record number 22 : 26  
 Record start 34:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.3	62.3	59	58	57
Broadband	A	48.1	50.3	49	48	47
16	L	51.5	57.2	54	51	47
32	L	51.8	56.4	54	52	49
63	L	52.9	59.8	55	53	50
125	L	47.4	52.3	49	47	46
250	L	48	51.1	49	48	47
500	L	46.6	50.3	48	46	46
1k	L	44	46.2	45	44	43
2k	L	39	45	41	38	38
4k	L	27	36	30	26	25
8k	L	27.8	46.1	28	16	15
16k	L	16.9	32.2	16	14	14

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- Period results -

Record number 23 : 26  
 Record start 35:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.3	62.2	60	58	57
Broadband	A	48.1	53	49	48	47
16	L	49.3	56	53	48	44
32	L	52.9	59.6	55	52	50
63	L	52.9	57.3	55	53	51
125	L	47.7	57.4	49	47	46
250	L	48.3	56	49	48	47
500	L	46.8	51	48	46	45
1k	L	43.9	49	45	44	43
2k	L	38.6	42.6	39	38	38
4k	L	26.3	30.2	27	26	25
8k	L	18.6	35.7	19	16	14
16k	L	14.7	23.4	15	14	14

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- Period results -

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Record number 24 : 26  
 Record start 36:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.8	62.6	60	59	57
Broadband	A	48.9	52.3	50	49	48
16	L	52.1	58.1	55	52	47
32	L	52.7	58.5	55	52	50
63	L	52.8	58	55	52	50
125	L	47.4	52.2	49	47	45
250	L	49.1	54.1	50	49	47
500	L	47.3	51	48	47	46
1k	L	44.7	47.9	46	45	44
2k	L	39.4	42.6	41	39	38
4k	L	29.3	38	33	27	26
8k	L	18.3	34	20	16	15
16k	L	14.7	21.7	15	14	14

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- Period results -

Record number 25 : 26  
 Record start 37:21.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.5	61.6	60	58	57
Broadband	A	49.7	52.1	51	49	48
16	L	49.1	56.4	52	48	44
32	L	52.8	57.9	55	52	50
63	L	52.9	58.1	55	53	50
125	L	47.8	52.1	49	48	46
250	L	49.3	52.9	51	49	48
500	L	47.9	51.2	49	48	47
1k	L	45.6	48.4	47	45	44
2k	L	40.9	44.9	42	41	39
4k	L	31.4	42.9	35	29	26
8k	L	19.1	34.2	22	16	15
16k	L	14.9	25.8	15	14	14

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- Cumulative period results -

Number of records 20  
 Run start 11/15/2010 9:47  
 Run duration 000 00:20:03.86  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.1	71.8	61	56	54
Broadband	A	46.5	67.6	47	44	42
16	L	50.2	60.8	52	49	47
32	L	50.9	66.2	54	49	45
63	L	54.8	69.1	58	51	48
125	L	48	64.3	51	46	44
250	L	43.8	64.6	46	41	39
500	L	44.1	65	44	40	38
1k	L	43.3	65.5	43	41	39
2k	L	37.2	58	38	35	33
4k	L	26.2	50	26	22	20
8k	L	18.7	42.7	18	15	14
16k	L	14.9	29.8	15	14	14

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- Period results -

Record number 2 : 20  
 Record start 48:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	56.1	62	58	55	54
Broadband	A	44	48	46	44	42
16	L	50.5	57.1	53	50	47
32	L	49.3	58.9	53	47	44
63	L	50.9	57.5	53	50	47
125	L	47.3	53.9	50	47	45
250	L	42.5	50.2	44	42	40
500	L	40.7	45.5	42	40	39
1k	L	40.8	44.6	42	40	39
2k	L	35.4	41.1	37	35	33
4k	L	23	31.2	25	22	20
8k	L	14.9	21.5	16	14	14
16k	L	14.4	16.1	15	14	14

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- Period results -

Record number 3 : 20  
 Record start 49:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.3	64.5	61	56	54
Broadband	A	44.4	47.4	46	44	42
16	L	52.1	59.8	55	50	47
32	L	53.5	63.7	57	50	45
63	L	53.1	60.1	56	52	48
125	L	47.9	55.5	51	46	44
250	L	41.7	49.6	44	41	39
500	L	40.5	45.1	43	40	38
1k	L	41.4	45.2	43	41	39
2k	L	35.8	40.2	38	35	34
4k	L	23.4	30.4	26	22	21
8k	L	15.9	25.6	17	15	15
16k	L	14.5	18.3	15	14	14

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- Period results -

Record number 4 : 20  
 Record start 50:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.7	67	62	56	53
Broadband	A	44	47.4	46	44	41
16	L	51.2	58.4	54	50	47
32	L	54.1	66.2	58	50	44
63	L	54.7	64.4	59	51	46
125	L	46.5	52	49	46	43
250	L	41	47.6	43	40	38
500	L	40.5	44.8	42	40	38
1k	L	41	43.7	43	41	38
2k	L	35.5	39.9	37	36	32
4k	L	23.1	27.5	26	23	18
8k	L	15.3	21.3	16	15	15
16k	L	14.5	17	15	14	14

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- Period results -

Record number 5 : 20  
 Record start 51:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	54.5	59.3	56	54	53
Broadband	A	42.7	46.6	44	42	41
16	L	48.9	53.3	51	49	46
32	L	47.4	54.1	50	46	43
63	L	49.2	56.3	52	48	46
125	L	46.6	54.8	49	45	43
250	L	39.3	44.9	41	39	37
500	L	39.6	46.9	41	39	37
1k	L	39.7	43.4	41	39	38
2k	L	33.8	38.9	36	33	31
4k	L	20.1	25.6	22	20	18
8k	L	15.1	20.5	16	15	14
16k	L	14.5	17.1	15	14	14

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- Period results -

Record number 6 : 20  
 Record start 52:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.5	61.2	57	55	53
Broadband	A	44.4	47.4	45	44	43
16	L	49	55	51	49	46
32	L	48.6	56.5	51	48	45
63	L	49.3	54.6	52	49	46
125	L	48.9	59.7	51	46	44
250	L	41.4	48.8	43	41	39
500	L	41.3	47.1	43	41	40
1k	L	41.3	43.8	42	41	40
2k	L	35.7	41.4	37	35	34
4k	L	21.9	24.7	23	22	20
8k	L	15.4	21.4	17	15	14
16k	L	14.5	18.7	15	14	14

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- Period results -

Record number 9 : 20  
 Record start 55:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.1	67.8	62	57	55
Broadband	A	45	54.4	46	44	43
16	L	51.4	57.9	54	51	47
32	L	51.6	62.7	54	51	48
63	L	56.2	67	60	52	49
125	L	48.1	56.2	50	47	45
250	L	44.6	52.8	47	44	41
500	L	42.3	54.5	44	42	40
1k	L	41.4	50.1	42	41	40
2k	L	35.2	43.4	36	35	34
4k	L	22.8	30.1	24	22	21
8k	L	15	20.2	16	15	14
16k	L	14.4	16.1	15	14	14

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- Period results -

Record number 10 : 20  
 Record start 56:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61	68.4	64	59	55
Broadband	A	44.9	47.2	46	45	44
16	L	49.6	55.4	52	49	47
32	L	51	57.1	53	50	47
63	L	59.9	68.2	64	57	50
125	L	46.6	51.6	49	46	44
250	L	42.2	47.1	44	42	40
500	L	41	44.5	42	41	40
1k	L	41.7	43.6	42	42	41
2k	L	36	39.5	37	36	35
4k	L	25	35.4	27	24	22
8k	L	15.5	23.1	16	15	15
16k	L	14.5	17.8	15	14	14

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- Period results -

Record number 11 : 20  
 Record start 57:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.8	69.1	63	57	55
Broadband	A	44.1	48.4	46	44	42
16	L	51.8	60.8	55	51	48
32	L	52.2	59.9	55	51	47
63	L	57.4	68.9	61	53	49
125	L	47.7	55.1	50	47	44
250	L	43.7	48.6	46	43	40
500	L	41.1	46.4	43	40	39
1k	L	40.3	45.2	42	40	38
2k	L	35	41.4	36	35	32
4k	L	23	34.8	25	22	19
8k	L	16.9	33.3	18	16	15
16k	L	15.1	29	15	15	14

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- Period results -

Record number 13 : 20  
 Record start 59:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	56.1	60.6	58	56	54
Broadband	A	43.9	47.5	45	44	43
16	L	49.4	54.8	51	49	46
32	L	49.8	55.8	52	49	47
63	L	51.8	58.5	54	51	48
125	L	45.7	52.3	47	45	44
250	L	41.6	47.8	44	41	39
500	L	40.6	47.3	42	40	39
1k	L	40.7	42.8	42	41	40
2k	L	35.4	39.6	37	35	34
4k	L	24.1	32.1	26	24	23
8k	L	17.9	23.4	19	18	16
16k	L	15.1	20.4	16	15	15

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- Period results -

Record number 14 : 20  
 Record start 00:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.1	66.7	63	56	54
Broadband	A	43.1	46.9	44	43	42
16	L	49	53.7	51	49	46
32	L	50.7	57.7	53	50	47
63	L	57.4	66.2	62	52	49
125	L	46.8	55.5	50	45	43
250	L	41.3	46.2	44	41	39
500	L	39.7	44	42	39	38
1k	L	39.5	43.2	41	39	38
2k	L	34.5	38.9	36	34	33
4k	L	22.8	31.7	25	22	20
8k	L	16.9	32.8	18	16	16
16k	L	15.1	29.8	15	15	14

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- Period results -

Record number 15 : 20  
 Record start 01:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.4	68.8	62	58	55
Broadband	A	44.9	47.8	46	45	43
16	L	49	54.6	51	49	46
32	L	50	58.2	52	49	46
63	L	57.7	68.5	61	55	50
125	L	48	54.9	50	47	45
250	L	43.6	49.6	46	43	41
500	L	41.9	46	44	42	39
1k	L	41.2	43.5	43	41	39
2k	L	36	39.7	38	36	34
4k	L	23.5	38.9	25	22	20
8k	L	16.5	35.7	17	15	14
16k	L	14.6	23.2	15	14	14

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- Period results -

NSA-2: 183 New Estate Road

November 15, 2010

Record number 16 : 20  
 Record start 02:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.4	65.6	61	58	55
Broadband	A	44.8	48.6	46	44	43
16	L	49.7	55.1	52	49	47
32	L	54.2	65	58	51	46
63	L	53.9	60.7	57	53	50
125	L	49.1	55.9	52	48	46
250	L	43	48	45	42	41
500	L	42	47.3	44	42	40
1k	L	41.3	44.9	43	41	40
2k	L	35.5	41.3	37	35	34
4k	L	23.4	32.1	25	23	21
8k	L	15.5	27.6	17	15	14
16k	L	14.5	18.2	15	14	14

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- Period results -

Record number 17 : 20  
 Record start 03:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	56.4	62.7	58	56	54
Broadband	A	43	46.6	44	43	42
16	L	49.4	54.1	51	49	46
32	L	49.1	56.7	52	48	46
63	L	53.1	61.6	56	52	49
125	L	46.3	51.5	48	46	44
250	L	40.5	44.9	42	40	39
500	L	39.4	42.7	41	39	38
1k	L	39.7	44	41	39	38
2k	L	34.8	39.8	36	35	33
4k	L	22.1	28.1	25	21	19
8k	L	15.3	23.2	17	14	14
16k	L	14.5	17.8	15	14	14

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- Period results -

**NSA-2: 183 New Estate Road****November 15, 2010**

Record number 18 : 20  
 Record start 04:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	56.5	60.9	58	56	54
Broadband	A	42.9	50.3	44	43	41
16	L	49.8	55.4	52	50	47
32	L	49.5	55.5	52	49	46
63	L	52.6	59.1	56	51	48
125	L	48.1	53.4	50	48	45
250	L	41.5	48.9	43	41	39
500	L	38.9	43.7	40	39	37
1k	L	39.2	43.1	40	39	37
2k	L	35.1	46.4	36	35	33
4k	L	23.3	42.2	24	22	20
8k	L	15.1	29.8	16	14	14
16k	L	14.4	17	15	14	14

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- Period results -

Record number 19 : 20  
 Record start 05:00.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	57.5	69.2	60	56	54
Broadband	A	43.7	47.1	45	43	42
16	L	49.5	54.5	52	49	46
32	L	48.6	55	50	48	46
63	L	54.9	69.1	58	51	48
125	L	48.4	55.4	51	47	45
250	L	42	48.1	44	41	39
500	L	41	47.6	43	40	39
1k	L	39.8	42	41	40	38
2k	L	34.9	39.5	36	35	33
4k	L	24.5	30.4	28	23	21
8k	L	14.8	24.3	15	14	14
16k	L	14.4	19.1	15	14	14

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- Cumulative period results -

Number of records 31  
 Run start 11/15/2010 10:15  
 Run duration 000 00:31:02.56  
 Overload occurred Yes  
 Overload %time 0.8  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.8	81.9	65	61	58
Broadband	A	57.2	79	56	45	43
16	L	57	72.1	60	56	51
32	L	55.7	77.2	57	54	51
63	L	58.4	78.4	59	54	50
125	L	58.1	78.6	58	48	46
250	L	55.2	76.4	53	43	41
500	L	53.3	73.5	53	45	43
1k	L	53.5	74.9	52	40	38
2k	L	49.6	73.1	48	35	33
4k	L	44.9	69.5	41	28	25
8k	L	37.4	64	31	18	16
16k	L	28.9	60.4	18	15	14

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- Period results -

Record number 2 : 31  
 Record start 16:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.3	63	61	59	57
Broadband	A	43.6	48	44	43	43
16	L	56.4	62.2	60	55	50
32	L	53.6	59	56	53	51
63	L	49.8	54.8	51	49	48
125	L	47.2	55	49	46	45
250	L	43.4	50.6	46	42	41
500	L	43	45.4	44	43	42
1k	L	38.3	41.6	39	38	37
2k	L	33.8	41.6	34	34	33
4k	L	25.7	40.1	25	24	23
8k	L	17.6	32.8	17	15	15
16k	L	14.7	21.9	15	14	14

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- Period results -

Record number 5 : 31  
 Record start 19:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.4	64.1	62	60	58
Broadband	A	44.8	49	46	45	44
16	L	56.4	61.8	60	55	50
32	L	53.5	58.3	56	53	50
63	L	54.8	60.1	58	54	49
125	L	49.9	57.1	53	49	45
250	L	43.6	48.7	45	43	42
500	L	44	47	45	44	43
1k	L	40.1	46.3	42	40	39
2k	L	34.5	38.4	36	34	33
4k	L	25	29.3	26	25	24
8k	L	17.1	26.3	19	16	15
16k	L	14.8	21.8	15	15	14

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- Period results -

Record number 8 : 31  
 Record start 22:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.9	64.8	62	61	59
Broadband	A	45.1	50.9	47	44	44
16	L	56.8	62.4	60	56	51
32	L	56.6	60.9	58	56	54
63	L	52.6	57.8	54	52	51
125	L	48.9	53.2	51	49	47
250	L	43.9	51.3	46	43	42
500	L	44.5	51.1	47	44	42
1k	L	40.3	46.8	41	40	39
2k	L	34.9	38	36	35	34
4k	L	26.7	35.4	29	26	25
8k	L	18.2	29.5	20	17	16
16k	L	15.3	23.9	16	15	14

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- Period results -

Record number 9 : 31  
 Record start 23:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.4	65.4	63	61	59
Broadband	A	45.2	55.2	46	45	44
16	L	56.9	63.4	60	56	50
32	L	56.8	61.2	59	57	55
63	L	53.7	59.3	55	53	52
125	L	51	55.2	53	51	49
250	L	45	48.5	46	45	44
500	L	43.5	47.1	44	43	43
1k	L	39.9	50.8	41	39	38
2k	L	36.1	49	37	35	34
4k	L	31.2	47.8	32	26	25
8k	L	23.6	42.2	19	16	15
16k	L	14.8	23.2	15	14	14

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- Period results -

Record number 13 : 31  
 Record start 27:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61	64.9	63	61	59
Broadband	A	43.3	45.1	44	43	43
16	L	57	63.6	60	56	51
32	L	53.7	58.6	56	53	51
63	L	56.1	61.3	58	56	53
125	L	48.3	51.8	50	48	46
250	L	42.7	47.4	44	42	41
500	L	42.7	45	44	43	42
1k	L	37.8	39.7	38	38	37
2k	L	32.9	35.4	33	33	32
4k	L	24.8	31.7	25	25	24
8k	L	17.2	29.2	18	16	15
16k	L	14.9	23.8	15	15	14

**NSA-4: Ayer Road (Industrial Use)**

November 15, 2010

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- Period results -

Record number 14 : 31  
 Record start 28:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.8	64.4	63	61	59
Broadband	A	44	53.5	45	44	43
16	L	56.9	63.3	60	56	51
32	L	53.6	62.3	56	53	51
63	L	55.9	61.8	58	55	53
125	L	48	52.7	49	48	47
250	L	43.6	47.4	45	43	42
500	L	43.7	47	45	43	42
1k	L	38	43.4	39	38	37
2k	L	33.5	50	34	33	32
4k	L	26	45.8	26	25	24
8k	L	17.1	35.5	17	16	15
16k	L	14.6	21.8	15	14	14

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- Period results -

Record number 17 : 31  
 Record start 31:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.1	64.1	62	60	58
Broadband	A	45.2	50.4	46	45	44
16	L	56.8	62.7	60	56	51
32	L	54.2	60.3	56	54	51
63	L	52.3	58.6	54	52	50
125	L	47	50.3	48	47	45
250	L	43	46.6	44	43	42
500	L	45.5	47.6	46	45	45
1k	L	39.7	48.2	41	39	38
2k	L	34.8	42.3	36	35	34
4k	L	26.8	32.2	28	27	26
8k	L	17.2	27.8	18	17	16
16k	L	14.6	17.7	15	15	14

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- Period results -

Record number 18 : 31  
 Record start 32:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.8	65.2	62	60	57
Broadband	A	45.3	54.7	46	45	44
16	L	56.6	62.7	60	56	50
32	L	54	63.2	56	54	51
63	L	52.1	57.7	54	52	50
125	L	47	50.5	49	47	45
250	L	42.1	44.9	43	42	41
500	L	45.2	47.2	46	45	44
1k	L	39.4	46.9	40	39	38
2k	L	36.7	51.1	36	35	34
4k	L	30	47.1	29	27	26
8k	L	19	35.1	18	17	16
16k	L	14.6	17.2	15	14	14

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- Period results -

Record number 20 : 31  
 Record start 34:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.2	64.6	62	60	58
Broadband	A	44.4	55.2	45	44	43
16	L	57	63.2	60	56	51
32	L	54.7	59.5	57	54	52
63	L	52.3	57.4	54	52	50
125	L	46.7	53.2	48	46	45
250	L	41.9	46.2	43	42	41
500	L	43.5	47.4	44	43	43
1k	L	39.2	52.1	39	39	38
2k	L	35.3	50.2	35	34	33
4k	L	30.9	43.2	34	27	25
8k	L	19.1	31.3	21	17	16
16k	L	15.4	29.2	16	15	14

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NSA-4: Ayer Road (Industrial Use)

November 15, 2010

- Period results -

Record number 22 : 31  
 Record start 36:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.8	65.4	63	60	58
Broadband	A	43.8	46.5	45	44	43
16	L	56.8	62.3	60	56	51
32	L	53.6	64.1	55	53	51
63	L	55.6	62.9	58	54	51
125	L	50.7	59.2	55	48	46
250	L	42.6	46.3	44	42	41
500	L	43.4	45.8	44	43	42
1k	L	37.8	40.5	39	38	37
2k	L	32.6	35.3	33	32	32
4k	L	28.3	38	32	25	24
8k	L	16.8	24.2	18	16	15
16k	L	14.5	17.2	15	14	14

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- Period results -

Record number 23 : 31  
 Record start 37:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.9	65.8	63	60	58
Broadband	A	44.9	48.6	46	45	43
16	L	56.6	62	60	56	50
32	L	54	60.5	56	53	51
63	L	56	62.9	59	54	51
125	L	50	58.7	54	47	45
250	L	42	47	43	42	41
500	L	43.9	46.6	45	44	43
1k	L	38.1	43.6	39	38	37
2k	L	34.3	42.1	36	34	33
4k	L	36.4	43.4	41	33	25
8k	L	23.8	32.6	28	21	16
16k	L	15.2	26.2	16	15	14

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- Period results -

NSA-4: Ayer Road (Industrial Use)

November 15, 2010

Record number 26 : 31  
 Record start 40:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.8	66.3	63	60	58
Broadband	A	45.7	50.8	47	45	44
16	L	56.5	61.9	60	56	51
32	L	54.7	64.8	57	54	52
63	L	55	63.6	58	53	51
125	L	48.7	57.9	50	47	45
250	L	43.2	48.3	45	43	42
500	L	45.2	49	46	45	44
1k	L	40.3	47.4	42	40	39
2k	L	35.6	41	37	35	34
4k	L	33.4	47.2	34	27	26
8k	L	23.3	36.6	24	17	16
16k	L	14.8	20.6	15	14	14

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- Period results -

Record number 28 : 31  
 Record start 42:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.8	64.6	63	61	58
Broadband	A	45.1	47.1	46	45	44
16	L	56.5	62.1	60	55	51
32	L	53	57.6	55	53	50
63	L	56.6	63.9	59	56	52
125	L	47.5	52.7	49	47	46
250	L	43.4	46.1	45	43	42
500	L	45	48.1	46	45	44
1k	L	39	40.8	40	39	38
2k	L	35.2	37.6	36	35	34
4k	L	29.3	40.5	32	27	27
8k	L	20	34.7	22	17	16
16k	L	14.7	20.7	15	14	14

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- Period results -

**NSA-4: Ayer Road (Industrial Use)****November 15, 2010**

Record number 29 : 31  
 Record start 43:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.8	64.6	62	59	57
Broadband	A	45	52.5	46	45	44
16	L	56.8	64	60	56	51
32	L	53.6	59.3	56	53	51
63	L	51.7	57.4	54	51	49
125	L	46.6	53.6	48	46	45
250	L	42.5	48.1	44	42	41
500	L	44.7	48.7	46	44	43
1k	L	39.5	46	40	39	38
2k	L	35.2	48.7	36	35	34
4k	L	30.9	44.3	35	27	26
8k	L	27.1	44.1	30	19	17
16k	L	15.8	28	17	15	14

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- Period results -

Record number 30 : 31  
 Record start 44:12.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.9	64.2	62	59	57
Broadband	A	45.6	50.7	47	45	44
16	L	56.9	62.9	60	56	50
32	L	53.6	57.9	55	53	51
63	L	51.7	57.8	54	51	49
125	L	47.1	52.2	49	47	45
250	L	42.8	47.2	44	43	42
500	L	45.4	48.5	47	45	44
1k	L	40	43.8	42	40	39
2k	L	35.5	39	37	35	34
4k	L	30.5	40	34	28	27
8k	L	31.8	48.2	35	20	17
16k	L	17.4	30.7	20	15	14

**PB-2: Northeast Property Boundary**

**November 15, 2010**

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- Cumulative period results -

Number of records            29  
Run start                    11/15/2010 10:54  
Run duration                000 00:29:02.12  
Overload occurred           Yes  
Overload %time             0  
Low battery occurred       No  
Pause was used             No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.4	73.8	67	63	61
Broadband	A	50.1	70.3	52	44	42
16	L	59.4	70.8	62	59	53
32	L	57.7	70.3	59	57	55
63	L	59.7	72.8	64	56	53
125	L	54.3	71.6	57	49	46
250	L	46.1	63.1	48	43	41
500	L	44.9	61.7	47	42	40
1k	L	46.2	65.6	49	40	37
2k	L	43.5	65.7	44	35	33
4k	L	37.1	60.4	36	29	27
8k	L	27.3	48.8	28	23	22
16k	L	18.3	47.9	18	16	16

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- Period results -

Record number              2 : 29  
Record start                55:05.0  
Period time                1 min  
Periods too short for LNs   No  
Overload occurred           No  
Overload %time             0  
Low battery occurred       No  
Pause was used             No  
Paused all the time        No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.8	69.7	67	64	63
Broadband	A	43.8	47.3	46	43	42
16	L	58.9	64	62	59	52
32	L	57.4	61.8	59	57	55
63	L	62	68.6	65	61	57
125	L	52.4	61.5	56	50	48
250	L	43.1	49.1	45	43	41
500	L	41.3	44.1	43	41	40
1k	L	37.1	42.6	38	37	36
2k	L	33.4	39.1	35	33	32
4k	L	27.6	32.8	29	27	27
8k	L	23.5	36.5	24	23	22
16k	L	16.2	24.1	17	16	16

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- Period results -

Record number 3 : 29  
 Record start 56:05.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.6	67.1	65	62	60
Broadband	A	42.3	53.1	43	42	42
16	L	59.2	65.3	62	59	52
32	L	57.1	61.4	59	57	55
63	L	56.1	63.8	59	55	53
125	L	47.3	50.5	49	47	46
250	L	41.7	45	43	42	41
500	L	40.1	45.1	41	40	39
1k	L	36.7	45.6	37	37	36
2k	L	33.3	40.6	34	33	33
4k	L	30.1	50	30	27	27
8k	L	27.5	48.6	28	23	21
16k	L	23.8	47.2	23	16	16

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- Period results -

Record number 6 : 29  
 Record start 59:05.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.7	66.8	65	62	60
Broadband	A	43.6	50.1	44	43	42
16	L	59.7	65.9	63	59	53
32	L	56.8	62.6	59	57	54
63	L	55.7	60.7	57	55	53
125	L	47.8	51.8	49	48	46
250	L	42	45.9	43	42	41
500	L	41.2	45.2	42	41	40
1k	L	38.9	44.1	41	38	37
2k	L	35.6	46.6	37	35	33
4k	L	28.9	41.9	29	28	27
8k	L	23.1	36.1	23	22	22
16k	L	16.1	21	16	16	16

**PB-2: Northeast Property Boundary**

**November 15, 2010**

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- Period results -

Record number 7 : 29  
 Record start 00:05.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.8	66.1	64	63	61
Broadband	A	44.5	46.8	45	44	44
16	L	58.8	63.9	62	59	52
32	L	56.5	61.4	58	56	54
63	L	57.2	63	59	57	55
125	L	49.7	55.6	52	49	48
250	L	42.8	48.2	44	42	41
500	L	41.4	45.1	42	41	41
1k	L	40.4	42.5	41	40	40
2k	L	35.8	37.4	36	36	35
4k	L	28.5	37.6	29	28	28
8k	L	23.7	41.8	23	23	22
16k	L	16.6	32	16	16	16

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- Period results -

Record number 11 : 29  
 Record start 04:05.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	65.7	70.5	68	65	63
Broadband	A	46.5	49.3	48	46	45
16	L	60.1	65.8	63	59	53
32	L	57.6	67.5	59	57	55
63	L	62.7	69.6	66	61	57
125	L	54.3	62.2	58	52	49
250	L	43.4	47.4	45	43	42
500	L	42.8	45.4	44	43	41
1k	L	42.5	45.9	44	42	40
2k	L	37.1	40.6	39	37	35
4k	L	30.1	35.6	31	30	29
8k	L	24.2	34.3	25	24	23
16k	L	16.5	32.6	17	16	16

**PB-2: Northeast Property Boundary**

November 15, 2010

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- Period results -

Record number 13 : 29  
 Record start 06:05.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	65.9	70.9	68	65	62
Broadband	A	49.1	57.4	53	47	43
16	L	59.7	65.9	63	59	54
32	L	58.2	64.9	60	58	56
63	L	63.1	69.5	66	62	56
125	L	54.7	61.9	58	53	47
250	L	45.6	51.8	48	45	42
500	L	46.2	61.2	48	44	41
1k	L	45.1	53.2	50	41	38
2k	L	40.1	50.7	45	36	34
4k	L	34.7	49.5	38	31	28
8k	L	28.2	46.3	29	25	22
16k	L	17.3	31.5	18	16	16

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- Period results -

Record number 15 : 29  
 Record start 08:05.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64	69.3	66	63	62
Broadband	A	45.6	54.8	47	45	43
16	L	59.5	65.6	63	59	53
32	L	57.5	62.4	59	57	55
63	L	59.5	67.3	63	58	55
125	L	53	61	56	52	47
250	L	43.6	48.3	45	43	41
500	L	41.9	47.4	43	41	40
1k	L	40.8	52.3	42	39	37
2k	L	37.5	48.6	40	35	34
4k	L	29.9	37.3	31	29	28
8k	L	23.5	27.6	24	23	23
16k	L	16.3	18.6	17	16	16

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**PB-2: Northeast Property Boundary**

**November 15, 2010**

- Period results -

Record number 16 : 29  
Record start 09:05.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.6	68.7	66	65	62
Broadband	A	43.6	46.9	45	43	42
16	L	59.5	65	62	59	54
32	L	57.6	61.4	59	57	55
63	L	61.3	67.3	64	61	56
125	L	50.7	59.6	53	50	47
250	L	43.3	48	45	43	41
500	L	41	44.9	42	41	40
1k	L	37.5	43	38	37	37
2k	L	34	35.6	35	34	33
4k	L	28.2	30	29	28	27
8k	L	23.1	28.6	24	23	22
16k	L	16.3	25.6	17	16	16

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- Period results -

Record number 17 : 29  
Record start 10:05.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63	67.1	65	63	61
Broadband	A	42.8	48.5	44	43	42
16	L	59.4	64.9	62	59	54
32	L	57.2	61.6	59	57	55
63	L	56.8	63	60	56	53
125	L	48.7	55.7	51	48	46
250	L	42.5	47.5	44	42	41
500	L	40.6	42.6	41	41	40
1k	L	37.5	44.8	38	37	37
2k	L	34	43.6	35	34	33
4k	L	27.9	35.7	28	28	27
8k	L	23.2	31.4	24	23	22
16k	L	15.9	20.3	16	16	16

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**PB-2: Northeast Property Boundary**

**November 15, 2010**

- Period results -

Record number 20 : 29  
Record start 13:05.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.6	67.1	63	61	59
Broadband	A	43.5	52.5	45	43	42
16	L	58.6	63.2	62	58	50
32	L	56	60.8	58	56	53
63	L	53.6	65.2	55	53	51
125	L	47.5	60.5	50	47	45
250	L	41.9	50.6	42	41	41
500	L	40.8	47.3	42	41	40
1k	L	39.4	48.7	42	38	36
2k	L	34.8	44.6	35	34	33
4k	L	28.8	38.7	30	28	27
8k	L	22.8	29.3	23	23	22
16k	L	15.9	18	16	16	16

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- Period results -

Record number 21 : 29  
Record start 14:05.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.3	65.8	64	62	60
Broadband	A	45	50.8	47	45	43
16	L	58.8	63.6	62	59	52
32	L	56.9	61.4	59	57	54
63	L	54.9	61.6	57	54	52
125	L	48.7	53.5	51	48	46
250	L	42.2	48	43	42	41
500	L	42.8	48.5	44	42	41
1k	L	40.6	47.6	42	40	38
2k	L	37.2	43.1	40	36	35
4k	L	29	31.8	30	29	28
8k	L	23.4	25.4	24	23	23
16k	L	16.2	21	17	16	16

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- Period results -

**PB-2: Northeast Property Boundary**

**November 15, 2010**

Record number 22 : 29  
 Record start 15:05.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.8	66.5	65	63	61
Broadband	A	46.9	50.8	48	47	45
16	L	59.4	65.1	62	59	53
32	L	57.8	61.9	59	58	56
63	L	54.1	58.8	56	54	52
125	L	48.6	55.4	50	48	46
250	L	42.7	45.4	44	43	42
500	L	43.8	48.4	46	43	42
1k	L	43.4	47.6	45	43	41
2k	L	39.1	43.5	41	39	36
4k	L	30.5	35.5	32	30	29
8k	L	24.1	36.3	24	23	23
16k	L	16.6	32	17	16	16

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- Period results -

Record number 25 : 29  
 Record start 18:05.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.7	66.8	65	62	60
Broadband	A	43.5	49.2	46	42	42
16	L	59.5	64.8	63	59	53
32	L	56.4	61.7	58	56	54
63	L	56.3	61.8	58	56	53
125	L	47.9	57.1	49	47	46
250	L	43.1	48.7	45	42	41
500	L	41.1	47.1	43	40	40
1k	L	38.9	46	42	37	36
2k	L	34.5	42.5	37	33	33
4k	L	29.1	42.5	30	28	28
8k	L	24	35	24	24	23
16k	L	16.3	22.3	17	16	16

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- Period results -

**PB-2: Northeast Property Boundary**

November 15, 2010

Record number 26 : 29  
 Record start 19:05.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.7	67.3	65	62	60
Broadband	A	43.9	50.6	47	42	42
16	L	59.8	64.9	63	59	54
32	L	57.4	61.5	59	57	55
63	L	54.7	62.7	57	54	52
125	L	47.4	56.1	49	47	45
250	L	42	45.4	43	42	41
500	L	40.9	47	42	40	39
1k	L	40.1	48.3	44	37	36
2k	L	35.3	42.9	38	34	33
4k	L	28.7	35.3	30	28	27
8k	L	23.2	29.9	24	23	23
16k	L	16.4	26.4	17	16	16

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- Period results -

Record number 28 : 29  
 Record start 21:05.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.4	66.5	64	62	60
Broadband	A	43.7	49.1	45	43	42
16	L	59.1	65.3	62	59	51
32	L	57.5	62.4	59	57	55
63	L	54.4	59	56	54	52
125	L	47.6	52.1	49	47	46
250	L	41.9	44.8	43	42	41
500	L	41.4	45.1	43	41	40
1k	L	39.6	47.5	41	38	37
2k	L	35.1	39.2	37	35	34
4k	L	27.8	30.6	29	28	27
8k	L	22.9	27.9	23	23	22
16k	L	16	18.1	16	16	16



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- Cumulative period results -

Number of records 28  
 Run start 11/15/2010 12:25  
 Run duration 000 00:28:02.66  
 Overload occurred Yes  
 Overload %time 0.35  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.8	80.4	65	60	56
Broadband	A	54.5	74.9	53	43	39
16	L	51.5	69.9	55	48	42
32	L	53.2	70.8	56	51	47
63	L	59	78.3	62	57	52
125	L	55.8	75.1	57	50	47
250	L	52.3	74.1	51	42	38
500	L	48.8	69.4	47	39	36
1k	L	50.5	71.9	48	37	34
2k	L	48.2	69.2	46	33	29
4k	L	42.3	62.8	40	24	18
8k	L	36.9	62.4	29	17	14
16k	L	26.1	52.5	18	15	14

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- Period results -

Record number 2 : 28  
 Record start 26:39.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.9	65.3	63	62	60
Broadband	A	43.6	53.5	47	41	40
16	L	56.1	62.2	58	56	53
32	L	53.7	59	56	53	51
63	L	59.2	64.1	61	59	55
125	L	48.7	55.5	51	48	45
250	L	43.9	54.1	49	40	38
500	L	39.1	45.6	41	38	36
1k	L	39	48.5	43	36	35
2k	L	34.5	44.4	39	31	30
4k	L	30.1	49.3	34	23	21
8k	L	27.5	49.4	27	17	15
16k	L	21.6	42.5	21	15	14

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- Period results -

Record number 4 : 28  
 Record start 28:39.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59	65.2	61	59	57
Broadband	A	40.8	48.2	43	40	39
16	L	55.2	58.6	57	55	53
32	L	50	58.1	53	49	46
63	L	53.8	62	56	53	51
125	L	50.8	63.6	53	48	45
250	L	41.8	51.2	45	40	37
500	L	37.2	42.7	39	37	36
1k	L	35.3	37.5	36	35	34
2k	L	30.5	34.6	31	30	29
4k	L	22.3	33.1	24	22	20
8k	L	16.5	30	19	15	14
16k	L	14.8	21.4	16	14	14

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- Period results -

Record number 5 : 28  
 Record start 29:39.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62	66.5	64	62	60
Broadband	A	43.3	49.1	46	43	40
16	L	55	58.9	57	55	53
32	L	50.1	55.3	52	50	47
63	L	59.4	65.5	62	59	55
125	L	54.5	65.7	59	51	48
250	L	44.4	51.9	48	43	38
500	L	39.4	45.6	42	38	36
1k	L	37.1	44.2	38	37	34
2k	L	32	37.6	34	31	28
4k	L	25.9	35.8	29	24	19
8k	L	19.7	34.3	22	18	15
16k	L	15.8	31	17	15	14

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- Period results -

Record number 6 : 28  
 Record start 30:39.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.5	66.8	63	60	58
Broadband	A	40	46.1	42	40	38
16	L	53.5	57.8	56	54	46
32	L	52.2	60.2	54	52	48
63	L	58.2	66.4	62	56	53
125	L	48.7	54.7	51	48	46
250	L	39.6	49.2	42	38	37
500	L	37.5	44.3	40	37	36
1k	L	34.2	39	36	34	33
2k	L	29.4	39	32	28	27
4k	L	20.2	29.1	23	19	17
8k	L	16.8	27	20	14	14
16k	L	14.9	22.8	15	14	14

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- Period results -

Record number 7 : 28  
 Record start 31:39.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.1	64.9	62	59	56
Broadband	A	44	51.7	49	40	38
16	L	45	54	47	44	42
32	L	52.5	56.7	54	52	50
63	L	56.7	64.6	60	56	51
125	L	50.1	57.7	53	48	46
250	L	45.6	55.9	50	39	37
500	L	44.4	53.2	50	36	35
1k	L	36.4	45.9	39	34	32
2k	L	30.7	37.3	34	30	26
4k	L	24.3	31.2	29	23	18
8k	L	19.3	30.6	22	17	15
16k	L	15.3	26.3	16	15	14

**PB-3: Southeast Property Boundary**

**November 15, 2010**

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- Period results -

Record number 8 : 28  
Record start 32:39.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.3	64.5	61	59	55
Broadband	A	40.2	50.2	42	39	37
16	L	44.1	52.2	46	43	41
32	L	49.9	57.7	53	49	45
63	L	58.1	63.3	60	58	53
125	L	49.8	60.6	53	48	44
250	L	40.1	53.4	42	38	36
500	L	36.2	44.4	38	35	34
1k	L	34.1	41.7	35	33	31
2k	L	29.9	42.8	31	29	26
4k	L	23.5	39.2	25	21	17
8k	L	20.6	31.9	24	17	14
16k	L	15.6	25.5	17	15	14

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- Period results -

Record number 11 : 28  
Record start 35:39.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.3	68.5	64	61	57
Broadband	A	43.9	51.5	45	43	42
16	L	51.5	59.6	57	48	43
32	L	54.3	64.2	57	52	49
63	L	58	66.2	61	57	52
125	L	54.1	63.5	57	53	49
250	L	46.4	56.6	48	45	42
500	L	40.6	48.4	42	40	38
1k	L	37.5	42.7	38	37	36
2k	L	33.3	39.3	35	32	30
4k	L	26.1	37.4	31	22	18
8k	L	16.6	25.1	19	15	14
16k	L	14.6	19.8	15	14	14

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**PB-3: Southeast Property Boundary**

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- Period results -

Record number 14 : 28  
Record start 38:39.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.3	60	57	55	54
Broadband	A	41.6	48.1	45	40	39
16	L	45	52	48	44	41
32	L	48.9	56.5	51	48	46
63	L	51.5	56.3	53	51	49
125	L	48.2	52.1	50	48	46
250	L	40.3	45.9	42	40	38
500	L	37.8	43.6	39	37	36
1k	L	37.2	43.9	41	35	34
2k	L	34	42.7	39	30	28
4k	L	25.7	40.2	30	21	18
8k	L	15.9	28.9	17	14	14
16k	L	14.8	21.2	15	14	14

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- Period results -

Record number 16 : 28  
Record start 40:39.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.7	71.4	66	60	57
Broadband	A	43.7	49.6	46	43	41
16	L	48.2	54.1	50	48	44
32	L	50.7	58.5	53	50	47
63	L	61.8	71.3	66	59	54
125	L	51.9	58.1	55	50	48
250	L	44.8	53.7	48	43	41
500	L	40.7	47.1	44	40	38
1k	L	37.5	45	39	37	36
2k	L	32.9	40.4	35	32	30
4k	L	25.5	33.7	28	24	19
8k	L	19.3	30.1	23	17	14
16k	L	15.5	22.5	17	15	14

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**November 15, 2010**

- Period results -

Record number 19 : 28  
 Record start 43:39.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.1	68.3	63	61	58
Broadband	A	44.4	53.3	47	43	41
16	L	45.9	53	49	45	41
32	L	52.5	60.4	56	51	48
63	L	59.3	67.5	62	59	54
125	L	52.7	60.4	56	51	49
250	L	45.5	58.7	48	43	40
500	L	40.8	52.6	43	39	37
1k	L	39	47.4	42	37	35
2k	L	35.1	43.9	38	33	30
4k	L	25.7	42.9	28	24	19
8k	L	18.2	32.2	21	15	14
16k	L	15.3	24.4	17	14	14

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- Period results -

Record number 22 : 28  
 Record start 46:39.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.7	68.8	64	61	59
Broadband	A	45.6	57.6	47	43	42
16	L	47.5	55.5	51	46	42
32	L	54.3	64.2	57	53	50
63	L	59.3	65.7	62	59	56
125	L	54.4	62.7	57	53	51
250	L	45.3	57	48	42	41
500	L	41.8	53.9	44	39	37
1k	L	39.5	52.6	41	37	36
2k	L	37.6	50.4	39	35	32
4k	L	32.4	47.2	34	27	23
8k	L	23	37.3	27	17	14
16k	L	16.5	24.7	19	14	14

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- Period results -

**PB-3: Southeast Property Boundary**

**November 15, 2010**

Record number 24 : 28  
Record start 48:39.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.9	67.5	63	60	59
Broadband	A	44.9	51.4	48	44	41
16	L	49.1	59	52	48	43
32	L	55.6	62.2	58	55	52
63	L	57.8	65.5	60	57	54
125	L	52.3	61.8	55	51	49
250	L	44.9	55.4	48	43	40
500	L	39.6	45.9	41	39	37
1k	L	38.5	44.5	41	38	36
2k	L	38	47.8	41	35	31
4k	L	34.8	45.6	38	30	22
8k	L	20.3	32.3	25	16	14
16k	L	14.5	21.2	15	14	14

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- Period results -

Record number 25 : 28  
Record start 49:39.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.3	67.6	63	61	59
Broadband	A	44.9	53.6	47	44	42
16	L	45.8	56.3	48	45	42
32	L	54.3	60.1	57	53	51
63	L	58.7	67.2	61	58	55
125	L	54.2	63.6	57	53	49
250	L	45.1	56.3	48	44	40
500	L	42.5	53	45	41	39
1k	L	39.5	45.3	41	39	37
2k	L	34.9	43.3	37	34	32
4k	L	26.6	35.6	30	25	22
8k	L	19.5	28.1	23	18	15
16k	L	15.1	26	16	14	14

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- Period results -

**PB-3: Southeast Property Boundary**

November 15, 2010

Record number 26 : 28  
 Record start 50:39.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.6	65.1	61	58	56
Broadband	A	43	48.7	45	42	41
16	L	44.2	52.1	47	43	40
32	L	49.7	57.3	52	49	46
63	L	56.6	64.3	59	56	52
125	L	51.3	60	54	50	48
250	L	41.1	48.7	43	40	38
500	L	39.7	47.1	42	39	38
1k	L	38.3	44.9	41	37	36
2k	L	34.9	43.7	38	34	31
4k	L	24.1	36.9	26	23	20
8k	L	16.7	29.1	19	15	14
16k	L	14.9	26.6	15	14	14

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- Period results -

Record number 27 : 28  
 Record start 51:39.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	55.5	61	57	55	54
Broadband	A	40.8	45.2	42	41	39
16	L	45.3	51.7	48	44	41
32	L	48.2	52.9	50	48	46
63	L	52.1	59.2	54	51	50
125	L	48.5	55.4	50	48	46
250	L	40.4	45.5	42	40	39
500	L	39	46.4	40	39	37
1k	L	36.1	38.6	37	36	35
2k	L	30.7	41.5	32	30	29
4k	L	18.7	32.7	20	18	17
8k	L	14.7	24.3	16	14	14
16k	L	14.5	20.5	15	14	14

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- Cumulative period results -

Number of records 36  
 Run start 11/15/2010 12:58  
 Run duration 000 00:36:01.82  
 Overload occurred Yes  
 Overload %time 0.45  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	65.2	82.4	67	61	58
Broadband	A	54.5	71.6	57	46	41
16	L	54.7	72.8	57	54	43
32	L	55.5	77.2	57	53	49
63	L	62.3	82.2	64	57	53
125	L	57.7	75.6	60	52	48
250	L	52.4	71.4	54	44	39
500	L	50.7	68.7	53	42	37
1k	L	50.6	68.6	53	42	37
2k	L	47.1	65	49	38	33
4k	L	42.4	62.9	42	29	23
8k	L	34.7	59.8	32	18	14
16k	L	26.9	55.5	20	15	14

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- Period results -

Record number 2 : 36  
 Record start 59:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.2	67.1	61	58	57
Broadband	A	42.8	51.3	47	40	39
16	L	45.4	51.4	48	45	41
32	L	52	57.9	54	51	48
63	L	57.4	66.7	60	56	53
125	L	49.6	57.3	51	48	47
250	L	42.9	52	47	40	38
500	L	41.6	52.2	46	37	34
1k	L	37.5	46.7	41	35	34
2k	L	31.1	44.4	32	30	29
4k	L	23.6	41.5	24	18	17
8k	L	17.3	30.3	20	14	14
16k	L	15	20.6	16	14	14

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- Period results -

Record number 3 : 36  
 Record start 00:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58	65.4	59	57	56
Broadband	A	40.4	52.2	43	39	38
16	L	47.9	52.8	50	48	45
32	L	51.8	56.4	54	52	49
63	L	55.2	65.1	57	54	52
125	L	49.2	58.2	51	49	47
250	L	39.8	46.6	42	39	37
500	L	36.2	46.4	38	35	34
1k	L	35.5	49.2	38	34	33
2k	L	32	47.5	35	29	28
4k	L	22.1	32.7	25	19	17
8k	L	16.4	32.6	18	14	14
16k	L	14.9	23.6	15	14	14

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- Period results -

Record number 6 : 36  
 Record start 03:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	57.4	61.9	59	57	55
Broadband	A	41.8	46	44	41	39
16	L	43.2	49.5	45	43	40
32	L	50.6	55.8	53	50	48
63	L	54.6	61.1	57	54	52
125	L	50.2	55.1	52	50	48
250	L	39.3	43.9	41	39	37
500	L	37.3	40.8	39	37	35
1k	L	37.8	43.1	40	37	35
2k	L	33.8	39.7	36	33	30
4k	L	25.5	31.5	29	24	20
8k	L	18.4	29	22	15	14
16k	L	15.7	23.8	18	15	14

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- Period results -

Record number 7 : 36  
 Record start 04:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	57.3	62	59	57	55
Broadband	A	40.6	46.5	42	40	39
16	L	44.7	49.7	47	44	41
32	L	52.7	57.7	55	53	49
63	L	53.7	60.3	56	53	51
125	L	49.2	57	51	48	47
250	L	37.7	41	39	37	36
500	L	36.3	41.1	38	36	35
1k	L	36.7	43.5	38	36	35
2k	L	32.3	38.8	34	32	31
4k	L	23.6	34.9	25	23	21
8k	L	16.9	26.8	19	15	14
16k	L	15.2	24.7	16	15	14

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- Period results -

Record number 8 : 36  
 Record start 05:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.3	65	61	59	57
Broadband	A	44.9	48.5	47	44	42
16	L	44.8	50.5	47	44	41
32	L	52.8	59.6	55	52	49
63	L	57	64.4	59	56	53
125	L	50.7	55.1	53	50	48
250	L	42.8	49.8	46	42	39
500	L	40.5	44.7	43	40	38
1k	L	41	45.3	43	41	38
2k	L	37.3	42.8	40	36	34
4k	L	30.2	41.3	33	28	25
8k	L	18.7	32.5	21	17	15
16k	L	14.6	17.4	15	14	14

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- Period results -

Record number 16 : 36  
 Record start 13:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.8	65	62	60	55
Broadband	A	45.9	64	49	43	39
16	L	49.3	57.1	55	44	38
32	L	52	60.8	54	51	47
63	L	57.2	64	60	56	53
125	L	52.3	60.1	55	51	47
250	L	43.8	54.5	47	41	38
500	L	39.5	50.2	44	37	35
1k	L	39.6	54.1	43	37	35
2k	L	39.9	59.3	43	36	30
4k	L	36.6	59.3	39	27	21
8k	L	27.6	49.6	27	16	14
16k	L	18.5	38.9	16	15	14

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- Period results -

Record number 20 : 36  
 Record start 17:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.5	68.1	64	61	58
Broadband	A	49	58.6	53	46	42
16	L	55.3	58.5	57	55	53
32	L	53.5	63.2	57	52	48
63	L	57	65.8	60	55	52
125	L	53.6	64.3	57	51	48
250	L	47.3	59.2	50	45	40
500	L	44	55.2	46	41	37
1k	L	45.8	55.8	51	42	37
2k	L	41.5	50.3	45	39	34
4k	L	30.3	40.6	33	27	23
8k	L	21.1	32.7	23	16	14
16k	L	15.4	25.6	16	14	14

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- Period results -

Record number 21 : 36  
 Record start 18:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.4	65.6	63	60	58
Broadband	A	45.7	50.8	49	44	42
16	L	55.5	60	57	55	53
32	L	52.3	58.7	54	52	49
63	L	56.1	64.2	60	54	51
125	L	51.2	57.9	54	50	46
250	L	45.2	53.2	49	43	41
500	L	42.5	47.8	45	42	39
1k	L	41.4	47	45	39	37
2k	L	37.7	45	42	36	33
4k	L	28.4	45.1	32	25	22
8k	L	17	37	18	15	14
16k	L	14.7	21.2	15	14	14

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- Period results -

Record number 24 : 36  
 Record start 21:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.6	70.3	65	62	60
Broadband	A	48	55.7	51	46	44
16	L	56	60.6	58	56	53
32	L	54.5	60.5	57	53	51
63	L	59	68.1	61	58	56
125	L	54.8	64.2	58	51	49
250	L	46.2	54.5	50	43	42
500	L	43.6	51.6	47	42	40
1k	L	44	51.7	48	42	39
2k	L	40.2	47.1	43	39	36
4k	L	32	41	35	30	26
8k	L	19.2	30.9	22	16	14
16k	L	14.6	18.1	15	14	14

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- Period results -

Record number 26 : 36  
 Record start 23:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.3	72.2	67	61	59
Broadband	A	46.8	54	51	45	43
16	L	55.9	60.4	58	56	54
32	L	52.7	58.5	55	52	50
63	L	61.2	72	66	56	53
125	L	52.5	59.5	56	51	48
250	L	44.4	52.6	47	43	40
500	L	44.7	56.9	47	41	39
1k	L	42.6	51.2	46	40	39
2k	L	38	43.8	41	37	34
4k	L	28.4	38	32	27	23
8k	L	18.1	31.6	21	16	14
16k	L	14.8	21.8	15	14	14

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- Period results -

Record number 29 : 36  
 Record start 26:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.3	69.4	66	63	60
Broadband	A	46.2	54.7	49	44	43
16	L	56.5	60.9	59	56	54
32	L	55.8	66.2	59	54	51
63	L	60.4	67.3	63	60	56
125	L	53.2	60.7	57	50	48
250	L	44.6	53	48	42	40
500	L	41.5	49.3	45	39	38
1k	L	41.5	48.7	44	40	38
2k	L	38.7	51.9	41	37	35
4k	L	31.5	48.6	35	28	25
8k	L	20.8	39.6	23	17	15
16k	L	16.1	30.1	17	15	14

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- Period results -

NSA-5: 53 Ayer Road (Industrial Use)

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Record number 30 : 36  
 Record start 27:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.4	67.1	64	62	60
Broadband	A	46.2	52.3	48	46	44
16	L	57.1	62.9	59	56	54
32	L	55.5	63.3	58	55	52
63	L	57.8	65.3	61	56	54
125	L	53.8	63.4	56	53	50
250	L	45	51.9	47	44	42
500	L	41.8	49.4	44	41	39
1k	L	41.5	47.3	43	41	40
2k	L	39	46	41	38	37
4k	L	29.5	40.3	31	28	27
8k	L	17.8	29.2	19	16	15
16k	L	14.7	19.1	15	14	14

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- Period results -

Record number 32 : 36  
 Record start 29:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62	71.7	63	61	60
Broadband	A	46.8	61.3	48	45	43
16	L	56.2	60.8	58	56	54
32	L	55	66.8	57	54	52
63	L	57.8	68	60	57	54
125	L	52.8	63.2	54	52	50
250	L	45	61.8	45	42	40
500	L	42.8	59.6	43	40	39
1k	L	42	55.1	43	40	39
2k	L	39.9	54.3	41	38	36
4k	L	33	48.3	36	29	26
8k	L	21.3	35.9	25	18	15
16k	L	15.1	21.4	16	15	14

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- Period results -

**NSA-5: 53 Ayer Road (Industrial Use)**

**November 15, 2010**

Record number 34 : 36  
 Record start 31:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.6	69	64	62	60
Broadband	A	45.2	53.1	47	45	43
16	L	56.8	63.2	58	56	54
32	L	55.3	65.3	57	54	51
63	L	59.3	68	62	58	54
125	L	52.9	60.5	55	53	49
250	L	42.5	50.2	45	42	40
500	L	40.3	46.6	42	40	38
1k	L	40.4	45.9	42	40	38
2k	L	38	50.6	39	37	35
4k	L	29.3	41	31	28	26
8k	L	19.9	33.1	22	18	16
16k	L	15.2	27.6	16	15	14

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- Period results -

Record number 35 : 36  
 Record start 32:30.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.2	63.6	61	60	59
Broadband	A	42.4	45.8	44	42	41
16	L	56.4	60.1	58	56	54
32	L	54	59.4	56	54	51
63	L	54.2	59.6	56	54	52
125	L	50.1	55.4	52	50	47
250	L	40.9	49.4	43	40	39
500	L	38	41	39	38	37
1k	L	38.1	41.8	40	38	36
2k	L	34.9	38.9	36	35	33
4k	L	25.4	31.4	27	25	23
8k	L	15.9	30.7	16	15	15
16k	L	14.5	18.8	15	14	14

**NOVEMBER 22 AND 23, 2010 MONITORING RESULTS**

W:\WORKDA~1\3323\SOUNDM~1\11-22~1\06221011.DTA

- Cumulative period results -

Number of records 27  
 Run start 11/22/2010 15:15  
 Run duration 000 00:27:01.90  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.1	76.5	64	61	59
Broadband	A	53.1	70.3	55	52	49
16	L	56.9	63.6	60	56	51
32	L	50.3	64.6	52	50	47
63	L	55.3	70.5	57	54	52
125	L	55.4	71	57	54	52
250	L	51.2	73.4	53	50	47
500	L	50.4	67.5	53	49	46
1k	L	49.7	64.9	52	49	46
2k	L	44.3	63.4	46	43	40
4k	L	35.3	58.8	36	33	29
8k	L	26.2	54.4	27	19	16
16k	L	29	62.6	18	15	15

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- Period results -

Record number 4 : 27  
 Record start 18:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.5	63.5	62	60	59
Broadband	A	49.4	52.7	50	49	49
16	L	56.8	62.3	60	56	51
32	L	50.5	55.2	53	50	48
63	L	52.7	57.2	54	52	51
125	L	52.8	58	54	53	51
250	L	48	52.9	49	48	47
500	L	46.8	49.7	48	47	46
1k	L	46.1	50.5	47	46	45
2k	L	39.9	43	41	40	39
4k	L	29.3	39	30	29	28
8k	L	20.1	36.1	22	17	16
16k	L	15.6	32.8	15	15	15

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- Period results -

Record number 6 : 27  
 Record start 20:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.1	63.4	62	60	58
Broadband	A	49.7	53.9	51	50	48
16	L	56.5	62	60	55	51
32	L	50	55.1	52	50	47
63	L	52.4	57.2	54	52	50
125	L	52.2	55.2	53	52	51
250	L	47.4	51.3	49	47	46
500	L	46.5	51.1	47	46	45
1k	L	46.4	50.4	48	46	45
2k	L	41.6	47.1	43	41	40
4k	L	32.5	38.9	34	32	30
8k	L	20.9	31.6	24	18	17
16k	L	15.8	24.5	17	15	15

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- Period results -

Record number 7 : 27  
 Record start 21:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.7	64.6	62	60	59
Broadband	A	50	56.4	51	50	49
16	L	56.8	62.1	60	56	51
32	L	50.7	55.8	53	50	48
63	L	53	57.6	55	53	51
125	L	53.4	62.6	55	53	52
250	L	48.7	56.4	50	48	47
500	L	46.8	50.6	48	47	46
1k	L	46.8	53.9	48	46	45
2k	L	40.7	50	42	40	39
4k	L	30.1	34	31	30	29
8k	L	18.2	27.8	20	18	16
16k	L	15	20.4	15	15	15

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- Period results -

Record number 8 : 27  
 Record start 22:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.8	64.4	62	61	59
Broadband	A	50	55	51	50	49
16	L	56.6	62.2	60	55	51
32	L	50.4	54.8	52	50	47
63	L	53.5	57.6	55	53	51
125	L	53.9	59	56	53	52
250	L	49	54.8	50	49	47
500	L	46.9	51.2	48	47	46
1k	L	46.9	52.4	48	47	45
2k	L	40.2	48	42	40	38
4k	L	29.3	39	30	29	28
8k	L	18.6	37.6	20	17	16
16k	L	15	26.3	15	15	15

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- Period results -

Record number 9 : 27  
 Record start 23:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.5	64.4	62	60	59
Broadband	A	49.8	52.4	51	50	49
16	L	56.9	62.2	60	56	51
32	L	50	56	52	50	47
63	L	53.1	57.5	55	53	51
125	L	52.3	56.5	54	52	51
250	L	47.5	51.8	49	47	46
500	L	46.7	50.5	48	47	46
1k	L	46.9	50.8	48	47	45
2k	L	40.4	43	41	40	39
4k	L	29.2	35.1	30	29	28
8k	L	17.6	29.9	19	16	16
16k	L	14.8	18.8	15	15	15

NSA-7: Between #3 and #5 Whitetail Way @ Sidewalk

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- Period results -

Record number 10 : 27  
 Record start 24:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.8	65.2	62	60	59
Broadband	A	50.7	56.6	52	50	49
16	L	56.8	62.9	60	56	51
32	L	49.5	54.5	51	49	47
63	L	53.4	58.5	55	53	51
125	L	53.2	59.1	55	53	51
250	L	48.8	54.9	50	49	47
500	L	48.4	55.9	50	48	46
1k	L	47.1	53.3	48	47	45
2k	L	41.4	46.3	43	41	40
4k	L	33.3	46.5	36	31	29
8k	L	27.7	45.5	31	22	17
16k	L	18.6	29.5	21	16	15

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- Period results -

Record number 11 : 27  
 Record start 25:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.6	64.3	62	60	59
Broadband	A	50.7	55.4	52	51	49
16	L	56.9	63	60	56	51
32	L	50.6	55.8	53	50	47
63	L	52.9	57.3	54	53	51
125	L	52.5	58.5	54	52	51
250	L	48.4	54.8	50	48	47
500	L	47.4	52.5	48	47	46
1k	L	47.8	51.9	49	48	46
2k	L	41.5	44.3	42	41	40
4k	L	32.6	51.6	33	31	30
8k	L	22.9	45.8	23	17	16
16k	L	15.9	30	17	15	15

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- Period results -

Record number 12 : 27  
 Record start 26:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.8	64.1	62	60	59
Broadband	A	50.7	53.2	52	51	49
16	L	56.8	62.6	60	56	51
32	L	50.4	56	53	50	47
63	L	54.3	60.4	57	53	52
125	L	52.5	57.4	54	52	51
250	L	47.9	56.9	49	48	46
500	L	47.6	50.7	49	48	46
1k	L	47.7	50.5	49	48	46
2k	L	42	44.8	43	42	40
4k	L	31.7	34.9	33	31	30
8k	L	17.5	23.2	19	17	16
16k	L	14.8	16.5	15	15	15

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- Period results -

Record number 13 : 27  
 Record start 27:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.4	66.3	63	61	60
Broadband	A	50.7	54.9	52	50	49
16	L	56.8	62.6	60	56	51
32	L	50.2	55.6	52	50	48
63	L	55.3	62.7	57	55	52
125	L	54.3	58.9	56	54	52
250	L	49.7	53.7	51	49	48
500	L	47.7	51.2	49	47	46
1k	L	47.6	52.7	49	47	46
2k	L	41.3	45.9	43	41	39
4k	L	30.4	38.6	33	30	29
8k	L	18.6	32.1	21	17	16
16k	L	15.2	19.9	16	15	15

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- Period results -

Record number 14 : 27  
 Record start 28:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.8	64.7	63	62	60
Broadband	A	51.4	54.2	52	51	50
16	L	57	62.5	60	56	52
32	L	50.1	55.7	52	50	48
63	L	55.8	60	58	56	54
125	L	54.9	60	57	54	53
250	L	49.7	57.3	51	49	48
500	L	47.8	49.8	49	48	47
1k	L	48.5	51.9	50	48	47
2k	L	41.9	46.3	43	42	41
4k	L	31	41.1	33	30	29
8k	L	21.4	36.3	24	18	16
16k	L	16.2	27.6	18	15	15

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- Period results -

Record number 15 : 27  
 Record start 29:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.9	65.6	63	62	60
Broadband	A	53.3	57.1	54	53	52
16	L	56.8	62.1	60	56	51
32	L	50.1	55.7	52	50	47
63	L	54.6	59.3	56	54	52
125	L	55.3	60.4	57	55	54
250	L	51.4	57.9	53	51	49
500	L	49.3	53	50	49	48
1k	L	50.8	55.3	52	51	49
2k	L	43.8	48.5	45	44	42
4k	L	32.8	41.5	34	32	31
8k	L	20	37.8	20	17	16
16k	L	16.2	29.6	16	15	15

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- Period results -

NSA-7: Between #3 and #5 Whitetail Way @ Sidewalk

November 22, 2010

Record number 21 : 27  
 Record start 35:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.8	67	64	63	61
Broadband	A	55.3	62.8	57	55	53
16	L	57	62.5	60	56	52
32	L	49.7	53.7	51	49	47
63	L	54.9	60.6	57	55	53
125	L	56.7	62.7	59	56	54
250	L	52.5	58.9	55	52	50
500	L	52.9	60.2	55	52	50
1k	L	52.3	60.2	54	51	50
2k	L	45.9	54.4	48	45	43
4k	L	34.4	41	36	34	32
8k	L	20.9	33.6	24	18	17
16k	L	15.9	25.6	17	15	15

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- Period results -

Record number 22 : 27  
 Record start 36:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.5	66.4	64	62	61
Broadband	A	54.1	58.4	56	54	52
16	L	56.7	62	60	56	51
32	L	50.1	54.3	52	50	47
63	L	55.3	61.6	57	55	53
125	L	56.5	62	58	56	55
250	L	51.7	58.3	54	51	50
500	L	51.8	58.7	54	51	50
1k	L	50.8	56.3	53	50	49
2k	L	44.9	48.9	47	45	43
4k	L	34.5	41.5	36	34	32
8k	L	21.2	33.3	23	19	17
16k	L	15.9	26.3	17	15	15

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- Period results -

**NSA-7: Between #3 and #5 Whitetail Way @ Sidewalk**

**November 22, 2010**

Record number 25 : 27  
 Record start 39:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.2	67.7	64	62	60
Broadband	A	53.7	64	55	53	51
16	L	57	62.6	60	56	52
32	L	49.6	54.7	51	49	47
63	L	55.1	59.6	57	55	53
125	L	56.1	62.8	58	56	53
250	L	51	58.7	53	50	48
500	L	51	62.5	52	50	49
1k	L	50.3	62	52	49	47
2k	L	45.5	56.4	47	45	42
4k	L	34.1	42.1	36	34	31
8k	L	22.1	36.3	24	19	18
16k	L	15.7	27.6	17	15	15

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- Period results -

Record number 26 : 27  
 Record start 40:14.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.3	64.7	63	61	60
Broadband	A	52.4	58.2	54	52	50
16	L	57.3	63.6	60	56	52
32	L	49.4	54.6	51	49	47
63	L	53.7	58.9	55	53	52
125	L	53.9	57.9	55	54	52
250	L	49.4	53.7	51	49	48
500	L	49	52.6	50	49	48
1k	L	49.7	55.2	52	49	47
2k	L	43.6	51.8	45	43	41
4k	L	33.8	44.3	36	33	31
8k	L	21.5	32.8	24	20	18
16k	L	15.6	24.7	16	15	15

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## - Cumulative period results -

Number of records 31  
 Run start 11/22/2010 16:00  
 Run duration 000 00:31:02.12  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62	68.5	63	62	60
Broadband	A	53.1	61.3	54	53	51
16	L	58.1	65	61	57	53
32	L	53.8	66.1	56	53	51
63	L	52.4	61.1	54	52	50
125	L	50.9	60.2	53	50	48
250	L	51	58.1	52	51	49
500	L	52.3	62	54	52	51
1k	L	48.5	58	50	48	47
2k	L	44.7	52	46	45	43
4k	L	36	48.1	37	36	34
8k	L	25	49.2	26	20	19
16k	L	15.6	34.9	16	15	15

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## - Period results -

Record number 2 : 31  
 Record start 01:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.1	64.3	63	61	59
Broadband	A	51.9	53.9	52	52	51
16	L	57.5	62.6	60	57	53
32	L	53.2	58.1	55	53	50
63	L	51.3	55.4	53	51	49
125	L	49.3	52.6	51	49	48
250	L	49.7	52.1	51	50	49
500	L	51.3	53.6	52	51	50
1k	L	47.2	49.6	48	47	46
2k	L	43.5	47.4	44	43	43
4k	L	34.6	37.7	35	34	34
8k	L	21.7	36.8	23	19	18
16k	L	14.7	19.3	15	15	15

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- Period results -

Record number 3 : 31  
 Record start 02:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.3	64.6	63	61	60
Broadband	A	51.9	54.3	53	52	51
16	L	57.6	63	60	57	53
32	L	53.8	59.3	56	53	51
63	L	50.2	54.6	52	50	48
125	L	49.4	52.8	51	49	48
250	L	50.1	53.9	51	50	49
500	L	51.4	53.6	52	51	50
1k	L	47.2	50.1	48	47	46
2k	L	43.3	46.3	44	43	42
4k	L	34.7	36.6	35	35	34
8k	L	19.8	29.3	21	19	18
16k	L	14.7	16.3	15	15	15

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- Period results -

Record number 4 : 31  
 Record start 03:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.2	65	63	61	59
Broadband	A	51.4	54.9	52	51	51
16	L	57.7	63.9	60	57	53
32	L	53.6	57.9	55	53	51
63	L	50.9	54.5	53	51	49
125	L	49.5	52.7	51	49	48
250	L	49.6	56.6	51	49	48
500	L	50.9	55.8	52	51	50
1k	L	46.7	52.4	47	47	46
2k	L	42.7	46.9	44	43	42
4k	L	34	40	35	34	33
8k	L	21.1	34.8	23	19	18
16k	L	14.8	21.9	15	15	15

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- Period results -

Record number 7 : 31  
 Record start 06:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.6	65.4	63	61	60
Broadband	A	52.5	54.8	53	52	52
16	L	57.8	63.9	60	57	53
32	L	53.7	58	56	53	51
63	L	51.3	55.4	53	51	49
125	L	50.1	53.8	51	50	49
250	L	50.3	53.4	51	50	49
500	L	51.7	54.8	53	52	51
1k	L	47.8	50.9	49	48	47
2k	L	44.2	47.5	45	44	43
4k	L	35.4	40.3	36	35	34
8k	L	25.2	41.5	29	20	19
16k	L	15.1	22.6	16	15	15

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- Period results -

Record number 8 : 31  
 Record start 07:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.6	68.5	63	61	60
Broadband	A	52.3	54.2	53	52	52
16	L	57.7	63.4	60	57	53
32	L	53.9	66.1	56	53	51
63	L	52.8	59.8	55	52	50
125	L	49.6	58.3	51	49	48
250	L	50	55.9	51	50	49
500	L	51.7	54.1	53	52	51
1k	L	47.7	50.3	48	48	47
2k	L	43.9	46.8	45	44	43
4k	L	35.1	38	36	35	34
8k	L	29.5	49.2	31	24	19
16k	L	16.5	33.1	17	15	15

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- Period results -

Record number 9 : 31  
 Record start 08:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.6	65.5	63	61	60
Broadband	A	52.1	54.8	53	52	52
16	L	58	63.1	61	57	53
32	L	54.7	60.7	57	54	52
63	L	51.2	55.9	53	51	49
125	L	49	51.8	50	49	48
250	L	49.6	51.8	50	50	49
500	L	51.5	54.5	52	51	51
1k	L	47.5	50.9	48	47	47
2k	L	43.9	46.9	45	44	43
4k	L	35.3	39.5	36	35	34
8k	L	26.5	44.5	29	23	20
16k	L	15.8	33.1	16	15	15

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- Period results -

Record number 10 : 31  
 Record start 09:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.7	65.2	63	61	60
Broadband	A	52.7	55.4	53	53	52
16	L	57.8	64	61	57	52
32	L	54.7	59.4	57	54	52
63	L	51.5	55.1	53	51	50
125	L	49.1	51.9	50	49	48
250	L	50.2	52.8	51	50	49
500	L	52	54.2	53	52	51
1k	L	48.1	51.7	49	48	47
2k	L	44.5	48.4	46	44	43
4k	L	36.1	42.2	37	36	35
8k	L	28.3	44.1	32	24	21
16k	L	16.9	29	18	15	15

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- Period results -

Record number 17 : 31  
 Record start 16:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.1	65.3	63	62	61
Broadband	A	53.9	56	55	54	53
16	L	58.1	63.5	61	58	53
32	L	53.4	57.9	55	53	51
63	L	52	56.5	54	52	50
125	L	51.2	54.3	52	51	50
250	L	51.7	54.4	53	52	51
500	L	53.1	55.3	54	53	52
1k	L	49.4	52.1	50	49	48
2k	L	45.6	51.2	46	46	44
4k	L	36.7	45.2	37	36	35
8k	L	28.6	48.4	27	20	19
16k	L	16.5	31.6	17	15	15

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- Period results -

Record number 22 : 31  
 Record start 21:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.2	65.8	64	62	61
Broadband	A	53.6	56.5	54	53	53
16	L	58	62.9	61	57	53
32	L	53.3	57.8	55	53	50
63	L	53.7	58.4	55	53	51
125	L	52.1	59.3	54	52	50
250	L	51	53.4	52	51	50
500	L	52.7	56	54	53	52
1k	L	48.9	53.4	50	49	48
2k	L	45.4	48.6	46	45	44
4k	L	36.9	43.2	38	37	36
8k	L	24.9	42.7	23	20	19
16k	L	15	24.5	15	15	15

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- Period results -

Record number 23 : 31  
 Record start 22:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.5	66	64	62	61
Broadband	A	53	54.9	54	53	52
16	L	58.3	64.2	61	57	53
32	L	53.8	59.9	56	54	51
63	L	53.5	58.7	55	53	51
125	L	53.6	60.2	56	53	51
250	L	50.9	54.8	52	51	50
500	L	52.4	54.8	53	52	51
1k	L	48.3	51.1	49	48	48
2k	L	44.5	47.5	45	44	43
4k	L	35.8	37.9	37	36	35
8k	L	20.7	33.3	21	19	19
16k	L	14.7	19.7	15	15	14

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- Period results -

Record number 26 : 31  
 Record start 25:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.4	65.7	64	62	61
Broadband	A	53.8	56.2	55	54	53
16	L	58.8	63.8	62	58	54
32	L	53.9	59.3	56	53	51
63	L	51.5	56.8	53	51	49
125	L	51.5	56.3	53	51	50
250	L	51.9	56.6	53	52	51
500	L	53	56.6	54	53	52
1k	L	49.2	52.4	50	49	48
2k	L	45.4	49.1	46	45	45
4k	L	36.6	38.6	37	36	36
8k	L	20.5	27.7	22	20	19
16k	L	14.7	19	15	15	14

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- Period results -

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Record number 27 : 31  
 Record start 26:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.2	66	64	62	60
Broadband	A	53.4	58.1	54	53	52
16	L	58.5	65	61	58	53
32	L	54.6	59.5	56	54	52
63	L	52	56.1	53	52	50
125	L	51.3	55.2	53	51	50
250	L	51	58.1	52	51	50
500	L	52.2	57.7	53	52	51
1k	L	49	53.8	50	49	48
2k	L	45.3	48	46	45	44
4k	L	36.3	38.5	37	36	36
8k	L	23.7	40.8	26	20	19
16k	L	15.4	29.5	16	15	15

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- Period results -

Record number 28 : 31  
 Record start 27:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62	66	63	62	60
Broadband	A	53.2	56.3	54	53	52
16	L	58	64.2	61	57	53
32	L	54.7	59.4	57	54	52
63	L	52.1	55.9	53	52	50
125	L	51.1	57.1	53	51	49
250	L	50.7	52.9	52	51	50
500	L	52.1	55.2	53	52	51
1k	L	48.8	52.1	50	49	48
2k	L	45	48.8	46	45	44
4k	L	36.3	40	37	36	35
8k	L	21.4	32	23	20	19
16k	L	15	22.9	15	15	15

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- Period results -

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Record number 29 : 31  
 Record start 28:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.2	66.4	64	62	60
Broadband	A	53.1	55.8	54	53	52
16	L	58.1	64.1	61	58	53
32	L	54.5	60.2	57	54	51
63	L	52.6	58.6	54	52	50
125	L	51.7	57.7	54	51	49
250	L	51.3	54.8	52	51	50
500	L	52.1	54.1	53	52	51
1k	L	48.7	52.4	49	49	48
2k	L	44.8	48.4	46	45	44
4k	L	36.1	39.3	37	36	35
8k	L	21.7	39.1	22	20	19
16k	L	14.7	17.7	15	15	14

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- Period results -

Record number 30 : 31  
 Record start 29:31.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.1	65.4	64	62	60
Broadband	A	53.3	56.1	54	53	53
16	L	58.3	63.6	61	58	54
32	L	53.1	57.6	55	53	51
63	L	52.7	57.1	54	52	51
125	L	50.9	57.2	52	51	49
250	L	51.4	54.3	52	51	50
500	L	52.4	54.5	53	52	51
1k	L	48.8	51.9	50	49	48
2k	L	44.9	49.1	46	45	44
4k	L	36.6	38.7	38	36	36
8k	L	20.8	26.4	22	21	20
16k	L	14.7	18.5	15	15	15

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## - Cumulative period results -

Number of records 40  
 Run start 11/22/2010 12:37  
 Run duration 000 00:40:02.96  
 Overload occurred Yes  
 Overload %time 0.35  
 Low battery occurred No  
 Pause was used Yes

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.8	80.7	64	60	58
Broadband	A	58	76	59	52	50
16	L	53	67.6	56	52	47
32	L	52.5	73.2	54	51	48
63	L	55.7	78.1	56	53	50
125	L	54.1	77.8	54	49	46
250	L	54.4	75.5	55	50	48
500	L	53.4	72.7	54	49	47
1k	L	55.3	73.2	57	48	46
2k	L	50.2	70	52	44	42
4k	L	41.7	65.9	43	35	33
8k	L	33.2	61.5	32	26	24
16k	L	23.3	57.1	20	18	18

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## - Period results -

Record number 2 : 40  
 Record start 38:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.7	61.7	60	59	57
Broadband	A	50.3	55.9	51	50	49
16	L	51.7	57.6	55	51	46
32	L	52.5	57.7	54	52	50
63	L	52.2	57.3	54	52	50
125	L	46.9	53	48	47	45
250	L	49.1	53.6	50	49	48
500	L	47.9	50	49	48	47
1k	L	46.5	51.1	47	47	45
2k	L	42.2	50.4	43	42	41
4k	L	33.3	45.6	34	33	33
8k	L	26.4	42.4	27	25	24
16k	L	19.2	37.9	19	18	18

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- Period results -

Record number 3 : 40  
 Record start 39:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59	62.5	60	59	57
Broadband	A	52.5	55.8	55	52	51
16	L	53.3	59.6	57	52	47
32	L	50.9	56.7	53	50	48
63	L	50.7	55.4	53	51	48
125	L	47.5	52.8	49	47	46
250	L	50.4	55.4	52	50	48
500	L	48.8	51.4	50	49	48
1k	L	48.2	51	50	48	47
2k	L	46.4	51.2	50	44	42
4k	L	38.4	45.2	42	35	33
8k	L	27.1	43.9	28	26	25
16k	L	19.2	36.8	20	18	18

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- Period results -

Record number 5 : 40  
 Record start 41:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.9	61.8	60	59	57
Broadband	A	54.2	59.1	57	53	51
16	L	51.5	56.8	55	51	47
32	L	51.6	57.3	54	51	48
63	L	51	57.8	54	50	48
125	L	47	52.7	50	46	44
250	L	48.9	52.4	51	49	47
500	L	48.1	51.2	49	48	47
1k	L	49.3	54	52	49	47
2k	L	49.6	55.8	53	48	43
4k	L	42	49.5	46	41	35
8k	L	28.8	43	31	27	26
16k	L	19.1	36.1	19	18	18

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- Period results -

Record number 6 : 40  
 Record start 42:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.6	62.2	60	58	57
Broadband	A	54.7	60.5	58	54	50
16	L	51.4	57.6	54	51	46
32	L	50.5	56.5	52	50	48
63	L	49.2	53.9	51	49	47
125	L	46.8	51.1	48	47	45
250	L	48.7	52.5	50	49	47
500	L	47.9	50.4	49	48	47
1k	L	50.2	56.9	53	49	46
2k	L	50	56.8	53	49	42
4k	L	42.6	48.2	46	41	33
8k	L	28.7	38.7	31	27	25
16k	L	18.2	30.2	19	18	18

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- Period results -

Record number 11 : 40  
 Record start 47:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.9	63.2	61	60	59
Broadband	A	51.8	53.8	53	52	51
16	L	52.8	58.1	55	52	49
32	L	53.1	59.1	55	53	50
63	L	53.4	58.7	55	53	51
125	L	47.6	52.1	49	47	46
250	L	50.9	54.6	52	51	49
500	L	49.4	51.9	50	49	48
1k	L	47.8	50.4	49	48	47
2k	L	43.7	47.7	45	44	43
4k	L	34.4	36.8	35	34	34
8k	L	26.8	36.8	28	26	25
16k	L	18	21.6	18	18	18

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- Period results -

Record number 14 : 40  
 Record start 50:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.6	62.2	60	58	57
Broadband	A	51.2	54	52	51	49
16	L	51.3	56.9	54	51	46
32	L	51.4	57.8	54	51	48
63	L	52.2	57.3	54	52	50
125	L	46.7	49.6	48	47	45
250	L	50.5	56.6	53	50	48
500	L	48.4	53.6	50	48	47
1k	L	47.1	50	48	47	46
2k	L	43.6	47.1	45	44	41
4k	L	35.7	38.8	37	36	33
8k	L	26.1	37.7	27	25	25
16k	L	18	19.8	18	18	18

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- Period results -

Record number 16 : 40  
 Record start 52:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.7	62	60	58	57
Broadband	A	50.1	55.1	52	50	49
16	L	51.5	57.5	54	51	47
32	L	51.6	56.7	54	51	49
63	L	52.7	57.8	54	52	50
125	L	48.5	54.4	51	48	46
250	L	49.3	54.9	51	49	47
500	L	47.1	51.4	49	47	46
1k	L	45.8	50.9	48	45	44
2k	L	43	50.5	44	43	41
4k	L	35.3	40.6	37	35	33
8k	L	25.2	31	26	25	24
16k	L	17.9	22.1	18	18	17

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- Period results -

Record number 18 : 40  
 Record start 54:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.5	64.1	61	59	58
Broadband	A	50.4	52.8	51	50	49
16	L	53.2	59.1	56	52	48
32	L	50.9	56.8	53	51	48
63	L	53.9	61.4	56	53	51
125	L	48.4	54.2	51	48	46
250	L	50.3	56.4	52	50	48
500	L	48	51.2	49	48	47
1k	L	46.4	48.7	47	46	45
2k	L	42.3	45.7	43	42	41
4k	L	33.4	37.8	35	33	32
8k	L	25.2	29.2	26	25	24
16k	L	17.8	21.4	18	18	17

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- Period results -

Record number 19 : 40  
 Record start 55:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.7	66.7	61	60	58
Broadband	A	50.8	56.8	52	51	50
16	L	52.1	59.1	55	51	47
32	L	52.9	60.7	55	52	50
63	L	54.1	63.9	56	54	51
125	L	48.8	53.3	51	48	47
250	L	51.1	58.3	53	51	49
500	L	48.4	51.2	49	48	47
1k	L	46.5	52.9	47	46	46
2k	L	42.7	51.9	44	42	41
4k	L	34.2	45.7	36	34	32
8k	L	26.7	46.6	26	25	24
16k	L	18.9	37.8	18	18	18

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- Period results -

Record number 29 : 40  
 Record start 05:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.4	62.8	61	59	58
Broadband	A	51.1	52.8	52	51	50
16	L	54.7	60.6	58	54	48
32	L	51.9	57	54	52	50
63	L	51.4	59.2	53	51	49
125	L	47.9	52.8	49	48	46
250	L	49	53.4	50	49	48
500	L	48.6	50.6	50	48	47
1k	L	47.3	49.7	48	47	46
2k	L	43.3	45.4	44	43	42
4k	L	34.4	36.4	35	34	34
8k	L	25.1	28.5	26	25	25
16k	L	18.4	24.5	19	18	18

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- Period results -

Record number 35 : 40  
 Record start 11:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.4	64.1	61	59	58
Broadband	A	50.4	52.5	51	50	50
16	L	54.1	59.4	57	53	50
32	L	50.4	61.9	52	50	48
63	L	53.2	59.2	55	53	51
125	L	49.1	55.3	51	49	47
250	L	49.2	54.1	51	49	47
500	L	48.2	50.6	49	48	47
1k	L	46.4	48.1	47	46	46
2k	L	42.4	44.5	43	42	42
4k	L	33.8	35.1	34	34	33
8k	L	25	35.3	26	25	24
16k	L	18.1	19.5	18	18	18

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- Period results -

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Record number 36 : 40  
 Record start 12:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60	63.2	61	60	58
Broadband	A	52	54.7	53	52	50
16	L	54.4	60.5	57	54	50
32	L	50.5	56.3	52	50	48
63	L	52.7	58.2	55	52	50
125	L	50.2	56.4	52	50	48
250	L	50.8	55.3	53	50	48
500	L	49.6	53.4	51	50	48
1k	L	48.1	52.4	49	48	46
2k	L	43.9	46.8	45	44	43
4k	L	34.6	36.8	35	34	34
8k	L	24.8	30.2	25	25	24
16k	L	18	21.8	18	18	18

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- Period results -

Record number 37 : 40  
 Record start 13:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.7	62.9	61	60	58
Broadband	A	51.5	55	52	51	51
16	L	53.2	59.9	56	52	48
32	L	50.9	56.1	53	50	48
63	L	53.3	59.1	55	53	51
125	L	50.2	53.6	51	50	49
250	L	50.9	54	52	51	49
500	L	48.9	53.4	50	49	48
1k	L	47.1	51.1	48	47	46
2k	L	43.9	47.6	45	44	43
4k	L	37.4	46	39	37	35
8k	L	28.7	45.2	28	25	24
16k	L	22	39	21	18	18

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- Period results -

**NSA-3: 78 Spectacle Pond Road****November 22, 2010**

Record number 38 : 40  
 Record start 14:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.3	63.2	60	59	58
Broadband	A	51.7	53.6	52	52	51
16	L	53.1	60.5	56	52	47
32	L	50.5	55.4	53	50	48
63	L	51.8	56.4	54	52	49
125	L	50.3	54.3	52	50	49
250	L	50.9	55.2	52	51	49
500	L	49.2	52.2	50	49	48
1k	L	47.4	49.4	48	47	47
2k	L	43.7	45.2	44	44	43
4k	L	37.2	40.3	39	37	36
8k	L	25.3	33.7	26	25	24
16k	L	18.2	27.1	18	18	18

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- Period results -

Record number 39 : 40  
 Record start 15:44.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.8	63.1	60	59	57
Broadband	A	51.5	53.3	52	51	51
16	L	53.1	59.8	56	52	47
32	L	50.4	55.9	52	50	48
63	L	51.4	59.5	53	51	49
125	L	48.4	53.6	50	48	47
250	L	49.6	53.6	51	49	48
500	L	48.6	51.3	50	48	48
1k	L	47.6	49.7	48	47	47
2k	L	44	46.7	45	44	43
4k	L	36.2	41.6	37	36	35
8k	L	25	31.5	25	25	24
16k	L	17.7	19	18	18	17

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- Cumulative period results -

Number of records  
 Run start 11/22/2010 1:25PM  
 Run duration 000 00:15  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN 5.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	--	75.1	61	59	57
Broadband	A	55.1	63.9	60	51	49
16	L	--	75	73	69	63
32	L	--	64	62	57	54
63	L	--	64	62	56	53
125	L	--	56	52	47	45
250	L	--	52	48	45	43
500	L	--	51	49	47	45
1k	L	--	51	50	47	45
2k	L	--	58	56	44	42
4k	L	--	57	55	39	34
8k	L	--	39	37	28	26
16k	L	--	31	29	28	27

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- Period results -

Record number 2 : 21  
 Record start 24:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59	75.1	59	57	56
Broadband	A	50.4	54	51	50	49
16	L	52.2	58.2	55	51	47
32	L	48.8	59.8	51	48	46
63	L	55.5	74.8	53	50	48
125	L	48.2	64.7	49	46	44
250	L	44.5	53.1	46	44	43
500	L	46.9	49.3	48	47	46
1k	L	46.6	50	47	46	46
2k	L	43.8	46.2	45	44	43
4k	L	36.6	44.3	37	36	36
8k	L	24.9	38.7	27	22	21
16k	L	17.2	29.1	19	15	15

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- Period results -

Record number 3 : 21  
 Record start 25:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.5	63.9	60	58	56
Broadband	A	50.2	54.1	51	50	49
16	L	54.2	61.1	58	53	48
32	L	48.9	53.8	51	49	46
63	L	52.7	62.6	55	52	50
125	L	45.8	56	48	45	43
250	L	44.1	47.5	45	44	43
500	L	46.6	50.9	48	46	45
1k	L	46.2	50.4	48	46	45
2k	L	43.6	47.8	45	43	42
4k	L	38.2	45.1	42	36	34
8k	L	27.2	42.8	30	23	19
16k	L	18.6	33.8	22	15	15

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- Period results -

Record number 4 : 21  
 Record start 26:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.2	62.3	60	58	57
Broadband	A	51.3	54.1	52	51	51
16	L	52.8	60.2	56	52	47
32	L	48.8	54.6	51	48	46
63	L	51.9	56.7	54	51	49
125	L	47.4	57.1	49	47	45
250	L	45.4	49	47	45	44
500	L	47.5	51.1	49	47	46
1k	L	47	50.4	48	47	46
2k	L	44.7	48.1	45	44	44
4k	L	41.5	45.6	43	41	40
8k	L	27.6	39.7	29	26	25
16k	L	17	30.9	17	15	15

**PB-1: Northern Property Boundary**

**November 22, 2010**

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- Period results -

Record number 5 : 21  
 Record start 27:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	57.7	61.3	59	57	56
Broadband	A	50.6	54.1	51	50	50
16	L	52.8	59.8	56	52	47
32	L	48.1	54.6	50	48	46
63	L	51.3	57.2	53	51	49
125	L	46.3	50.7	48	46	45
250	L	44.9	47.4	46	45	44
500	L	46.7	48.9	48	47	46
1k	L	46.8	49.1	48	47	46
2k	L	43.9	49.7	45	44	43
4k	L	38.7	46.4	40	38	37
8k	L	25.8	40.8	27	24	22
16k	L	15.5	30.9	16	15	15

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- Period results -

Record number 6 : 21  
 Record start 28:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	57.3	60.2	59	57	56
Broadband	A	50.3	56.6	51	50	49
16	L	52.3	58.3	55	51	47
32	L	48	52.6	50	48	46
63	L	50.8	55.7	53	50	49
125	L	46.1	50.7	48	46	44
250	L	44	46.6	45	44	43
500	L	46	48.1	47	46	45
1k	L	46.4	48.9	48	46	45
2k	L	43.9	51.3	46	43	42
4k	L	39	52.4	39	36	35
8k	L	23.8	36.7	25	22	21
16k	L	15.7	32.3	15	15	14

**PB-1: Northern Property Boundary**

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- Period results -

Record number 7 : 21  
 Record start 29:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.4	64.7	60	58	56
Broadband	A	52.4	59	56	50	49
16	L	53.1	59	56	52	48
32	L	48.2	57.9	50	48	45
63	L	51.4	60.3	53	51	49
125	L	46.7	56.1	48	46	44
250	L	43.8	49.4	45	44	43
500	L	46	49.9	47	46	45
1k	L	46.4	49	48	46	45
2k	L	47.1	55.2	51	44	42
4k	L	45.4	56.4	51	37	35
8k	L	30.1	42.3	35	23	20
16k	L	15.2	21.4	16	15	15

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- Period results -

Record number 8 : 21  
 Record start 30:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.3	63.2	61	59	57
Broadband	A	56.5	61.8	60	55	50
16	L	52.7	58.4	56	52	48
32	L	48.9	56.2	51	48	46
63	L	50.9	58.3	53	50	48
125	L	46.1	51.1	48	46	44
250	L	44.8	48.2	46	45	44
500	L	47.7	51.8	49	47	47
1k	L	48	54.7	49	48	46
2k	L	51.9	58.5	56	49	43
4k	L	50.5	57.1	55	47	35
8k	L	35.3	44.1	39	35	22
16k	L	20.6	32.8	24	18	15

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**PB-1: Northern Property Boundary**

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- Period results -

Record number 9 : 21  
 Record start 31:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.6	63.8	61	59	57
Broadband	A	56.6	61.7	60	54	50
16	L	52.5	59.5	55	52	47
32	L	49.8	55.5	52	49	47
63	L	52.3	61.2	55	52	49
125	L	46.4	54.8	48	46	45
250	L	45.5	49.3	47	45	44
500	L	47.3	53.8	48	47	46
1k	L	47.4	54.5	49	47	46
2k	L	51.8	57.7	56	49	43
4k	L	51.3	57.8	56	48	35
8k	L	35.1	43.1	39	32	21
16k	L	19	38.6	19	16	15

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- Period results -

Record number 10 : 21  
 Record start 32:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.2	62.6	62	60	58
Broadband	A	58.3	61.9	60	59	52
16	L	52.5	57.5	56	52	47
32	L	50.3	55.8	53	50	47
63	L	50.8	56.1	52	50	49
125	L	47	54.2	49	47	45
250	L	45.3	47.9	46	45	44
500	L	47.6	50	48	48	47
1k	L	48.6	51.1	50	49	47
2k	L	54.1	58.3	57	54	46
4k	L	52.6	57.1	55	53	42
8k	L	37.2	43.9	39	37	30
16k	L	22.2	34.3	26	18	17

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**PB-1: Northern Property Boundary**

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- Period results -

Record number 12 : 21  
 Record start 34:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.8	65.8	60	58	57
Broadband	A	51.4	60	53	50	50
16	L	53.3	61.2	56	52	48
32	L	49.2	57.6	52	48	46
63	L	53.4	63.9	55	53	50
125	L	46.8	54.3	48	46	45
250	L	46.9	61	48	45	44
500	L	47.7	50.6	48	48	47
1k	L	46.6	50	48	46	45
2k	L	44.9	54.6	47	43	42
4k	L	41.3	56.2	45	35	34
8k	L	27.4	41.2	32	20	19
16k	L	17.3	32.7	18	15	15

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- Period results -

Record number 14 : 21  
 Record start 36:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.5	64.7	63	62	59
Broadband	A	60	63.9	62	60	54
16	L	54	60.5	57	53	47
32	L	48.7	57.1	51	48	45
63	L	53	58	55	53	50
125	L	45.6	51.2	47	45	44
250	L	44.8	49.7	46	45	43
500	L	47.5	50.6	49	47	47
1k	L	48.9	61.9	50	49	47
2k	L	56.1	60.5	59	56	49
4k	L	54.5	58.6	57	55	45
8k	L	38	42.4	41	38	29
16k	L	17.4	24.6	19	17	15

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- Period results -

**PB-1: Northern Property Boundary**

**November 22, 2010**

Record number 15 : 21  
 Record start 37:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.6	63.8	62	61	58
Broadband	A	58.8	62.7	61	59	52
16	L	52.7	59.3	56	52	47
32	L	48.6	54.4	51	48	45
63	L	52.9	57.8	55	53	51
125	L	46.4	53	48	46	44
250	L	45	48	46	45	44
500	L	47.4	49.6	48	47	47
1k	L	48.2	51.1	49	48	47
2k	L	54.4	59.6	57	55	47
4k	L	53.6	58.1	56	54	42
8k	L	36.9	41.8	39	37	26
16k	L	16.8	23.9	18	17	15

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- Period results -

Record number 16 : 21  
 Record start 38:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.5	61.9	60	58	57
Broadband	A	52.6	59.5	55	51	50
16	L	52.3	57.6	55	52	47
32	L	48.9	55.6	51	48	46
63	L	52.6	58.4	55	52	50
125	L	47.4	56.6	49	47	45
250	L	45.2	48.5	47	45	44
500	L	47.8	50.7	49	48	46
1k	L	47.5	50.5	49	47	46
2k	L	46.3	54.6	49	44	43
4k	L	44.6	55	49	37	34
8k	L	29.7	40.4	35	22	19
16k	L	15.5	23.5	16	15	15

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- Period results -

**PB-1: Northern Property Boundary**

November 22, 2010

Record number 17 : 21  
 Record start 39:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.8	63	60	59	57
Broadband	A	52.9	62.9	54	53	51
16	L	52	57.4	55	51	47
32	L	48.6	55.4	50	48	45
63	L	53.8	59.4	56	53	51
125	L	47.6	57.4	50	47	44
250	L	45.3	50.3	47	45	44
500	L	47.7	50.3	49	48	46
1k	L	48	59.9	49	48	47
2k	L	46.6	58.2	48	46	44
4k	L	44.8	54.3	48	44	36
8k	L	32.5	42.7	36	31	21
16k	L	18.3	33.3	20	15	15

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- Period results -

Record number 20 : 21  
 Record start 42:50.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.9	62.9	60	59	57
Broadband	A	51.8	55.2	54	51	50
16	L	53.3	61	56	52	47
32	L	49.5	53.7	51	49	47
63	L	53.5	58.9	56	53	50
125	L	46.8	51.8	48	47	45
250	L	45.8	49	47	46	45
500	L	48.2	51.1	49	48	47
1k	L	47.4	49.8	48	47	46
2k	L	45.2	50.1	48	44	42
4k	L	41.4	48.4	47	36	34
8k	L	27.6	35.3	33	21	19
16k	L	15	18.3	16	15	15

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- Cumulative period results -

Number of records 35  
 Run start 11/23/2010 10:54  
 Run duration 000 00:35:02.66  
 Overload occurred Yes  
 Overload %time 0.15  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.1	82.5	63	60	59
Broadband	A	55.7	76.1	54	50	49
16	L	53.1	60.6	56	52	48
32	L	53.5	67.3	56	53	50
63	L	55.9	74.1	58	54	52
125	L	54.7	81.5	54	52	50
250	L	50.5	71.4	51	48	47
500	L	51.3	72.9	50	48	46
1k	L	52.9	73.9	51	46	45
2k	L	48.4	69.9	47	41	40
4k	L	38.9	64.8	38	31	29
8k	L	30.3	56.1	29	18	16
16k	L	21	52.2	20	15	14

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- Period results -

Record number 4 : 35  
 Record start 57:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.8	64	62	61	59
Broadband	A	50	52.8	51	50	49
16	L	52	59.4	55	51	46
32	L	53.2	59.7	55	53	50
63	L	56.8	61.5	59	56	54
125	L	52.4	57.6	54	52	51
250	L	48.8	52.5	50	49	47
500	L	48	53.2	49	48	47
1k	L	45.8	48.2	47	46	45
2k	L	41.3	44.9	43	41	40
4k	L	32.2	38.4	35	31	30
8k	L	18.4	28.8	20	18	16
16k	L	14.5	15.5	15	15	14

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- Period results -

Record number 7 : 35  
 Record start 00:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.3	67.3	64	62	61
Broadband	A	49.7	52.3	51	49	49
16	L	53.7	60.1	56	53	49
32	L	55.6	61.4	58	55	53
63	L	58.8	66.2	61	58	55
125	L	52.3	58.2	54	52	50
250	L	48.5	55.3	50	48	47
500	L	47.3	50.1	48	47	46
1k	L	45.9	48.9	47	46	45
2k	L	41	47.5	42	41	40
4k	L	31.1	41	33	30	29
8k	L	18.5	36	19	18	15
16k	L	14.7	27.2	15	14	14

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- Period results -

Record number 9 : 35  
 Record start 02:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.4	69.2	62	60	59
Broadband	A	51.5	68.4	51	49	48
16	L	53.7	59.5	57	53	49
32	L	53.4	58.5	55	53	51
63	L	55.2	60.6	57	55	53
125	L	50.8	55.3	52	51	49
250	L	47.5	54.6	49	47	46
500	L	47	60.9	48	46	45
1k	L	48.3	66.3	47	45	44
2k	L	44.7	61.8	43	40	39
4k	L	33.9	50.8	34	30	28
8k	L	21.5	41	21	17	16
16k	L	15	28.4	15	14	14

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- Period results -

Record number 11 : 35  
 Record start 04:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.2	68.2	62	61	60
Broadband	A	49.4	51.4	50	49	49
16	L	54	60.5	56	53	50
32	L	53.8	63.2	56	53	51
63	L	56.6	66.3	58	56	54
125	L	52.5	58	54	52	50
250	L	48.3	51	49	48	47
500	L	47.3	49.5	48	47	46
1k	L	45.5	47.8	46	45	45
2k	L	40.7	44.8	42	40	39
4k	L	31.1	45.2	33	30	29
8k	L	18.3	31	19	18	16
16k	L	14.6	18.7	15	15	14

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- Period results -

Record number 13 : 35  
 Record start 06:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.7	64	61	59	58
Broadband	A	49.3	51.5	50	49	48
16	L	51.5	57.9	54	51	47
32	L	52.9	57.4	55	53	50
63	L	54.5	61.7	56	54	52
125	L	52	56.5	53	52	50
250	L	47.9	50.7	49	48	47
500	L	47	49.9	48	47	46
1k	L	45.3	48	46	45	44
2k	L	40.9	45.8	42	41	40
4k	L	31.3	39.9	33	31	29
8k	L	18.4	34.1	19	17	15
16k	L	14.8	19.3	15	15	14

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- Period results -

Record number 14 : 35  
 Record start 07:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.6	64	62	60	59
Broadband	A	50.4	56.3	51	50	49
16	L	55	60.1	57	55	51
32	L	52.6	57.5	54	52	50
63	L	53.9	60.7	56	53	51
125	L	52.4	57.5	54	52	50
250	L	48.7	53	50	48	47
500	L	47.9	51.5	49	48	47
1k	L	46.8	53	48	46	45
2k	L	42	50.3	43	41	40
4k	L	31.2	38.2	33	30	29
8k	L	17.3	23.6	19	17	15
16k	L	14.5	17.6	15	14	14

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- Period results -

Record number 18 : 35  
 Record start 11:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.6	63.4	62	60	59
Broadband	A	50.4	55.4	52	50	49
16	L	54.9	60.2	58	54	50
32	L	53	58.7	55	53	50
63	L	54.8	61.9	57	54	52
125	L	51.5	56.2	53	51	50
250	L	48.1	51.4	49	48	47
500	L	48.2	54.2	50	47	47
1k	L	46.5	53.4	48	46	45
2k	L	42.2	46.7	44	42	40
4k	L	34.3	47.1	36	33	29
8k	L	27.3	44.8	24	18	16
16k	L	19.7	35.1	18	14	14

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- Period results -

Record number 19 : 35  
 Record start 12:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60	67.7	61	60	59
Broadband	A	49.7	53.9	51	49	49
16	L	51	58.9	54	49	46
32	L	52	57.2	54	52	49
63	L	56.3	67.2	58	56	54
125	L	52.1	55.9	54	52	50
250	L	47.6	54.1	49	47	46
500	L	46.8	49.2	48	47	46
1k	L	45.6	48.1	46	45	45
2k	L	42.2	51	44	41	40
4k	L	34.5	44.9	37	32	30
8k	L	21.3	36.9	22	19	17
16k	L	14.6	17.8	15	14	14

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- Period results -

Record number 20 : 35  
 Record start 13:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.7	63.8	62	61	59
Broadband	A	50.5	58.4	52	50	49
16	L	51.9	57.3	55	51	46
32	L	53	57.7	55	53	50
63	L	56.6	61.7	58	56	54
125	L	53.1	57.9	55	53	51
250	L	48.2	53.6	49	48	47
500	L	48.1	58.9	50	48	46
1k	L	46.7	54.6	48	46	45
2k	L	42.3	51.3	44	42	40
4k	L	35	46.3	37	33	30
8k	L	26.1	40.2	30	20	17
16k	L	18.7	31.3	22	15	14

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- Period results -

Record number 24 : 35  
 Record start 17:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.3	64.3	62	60	59
Broadband	A	50.6	56.7	51	50	50
16	L	52.7	58.3	55	52	49
32	L	52.7	59.5	55	52	50
63	L	53.9	58.6	56	54	51
125	L	53.4	58.5	55	53	51
250	L	49.2	56.4	50	49	48
500	L	48.2	57.2	49	48	47
1k	L	46.7	49.9	48	47	46
2k	L	42.2	48	43	42	41
4k	L	33.5	45.5	35	32	31
8k	L	27.2	44.7	30	21	19
16k	L	20.1	37.9	23	15	14

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- Period results -

Record number 25 : 35  
 Record start 18:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.7	64.4	62	61	59
Broadband	A	51.1	61.1	52	51	50
16	L	54.6	59	57	54	51
32	L	52.7	59.6	55	52	49
63	L	53.4	59.9	55	53	51
125	L	52.9	57.2	54	53	51
250	L	49.7	56.5	51	49	48
500	L	48.8	59.4	50	48	47
1k	L	47.1	54.4	48	47	46
2k	L	43.2	57.3	44	42	42
4k	L	33.7	47	34	33	32
8k	L	25.6	41.1	28	21	19
16k	L	18.7	30.1	21	16	15

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- Period results -

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Record number 29 : 35  
 Record start 22:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.2	64	61	60	59
Broadband	A	49.9	52.2	51	50	49
16	L	53.4	59.8	56	53	49
32	L	53.4	60	56	53	50
63	L	53.9	61	56	53	51
125	L	52.2	56.4	54	52	50
250	L	48.3	52	49	48	47
500	L	47.6	50.5	49	48	47
1k	L	46.3	48.8	47	46	45
2k	L	41.1	43.7	42	41	40
4k	L	30.9	38.3	32	31	29
8k	L	18.4	32.2	20	18	15
16k	L	14.6	19.9	15	14	14

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- Period results -

Record number 31 : 35  
 Record start 24:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.5	63.2	61	59	58
Broadband	A	49.5	51.6	50	49	49
16	L	52	59	55	51	47
32	L	52	58.8	54	52	49
63	L	54.3	59.6	56	54	52
125	L	51.4	59	53	51	49
250	L	47.8	52.3	49	47	46
500	L	46.8	49.7	48	47	46
1k	L	45.8	49	47	46	45
2k	L	41.2	44.4	42	41	40
4k	L	32.2	36.6	34	32	29
8k	L	16.6	21.4	18	16	15
16k	L	14.5	16.9	15	14	14

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- Period results -

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Record number 33 : 35  
 Record start 26:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.4	62.4	61	59	58
Broadband	A	49.4	52	50	49	48
16	L	51.4	58	54	51	46
32	L	53.7	60.4	56	53	50
63	L	53	59.2	55	53	51
125	L	50.9	55.3	52	51	49
250	L	47.8	52.8	49	47	46
500	L	47	50.7	48	47	46
1k	L	45.8	48.9	47	46	45
2k	L	40.8	44.6	42	40	40
4k	L	31.4	39.4	34	30	29
8k	L	19	26.3	21	19	16
16k	L	14.7	17.6	15	15	14

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- Period results -

Record number 34 : 35  
 Record start 27:04.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.7	63.2	61	60	58
Broadband	A	49.8	52	51	50	49
16	L	54.1	59.7	57	53	48
32	L	52.5	58.1	55	52	50
63	L	52.7	59.2	55	52	50
125	L	50.9	55.3	52	51	49
250	L	47.9	50.3	49	48	47
500	L	47.4	50.1	48	47	46
1k	L	46.3	49.4	47	46	45
2k	L	41.2	45.4	43	41	40
4k	L	31.1	35.8	33	30	29
8k	L	18.4	25.6	20	18	16
16k	L	14.5	17	15	14	14

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- Cumulative period results -

Number of records 20  
 Run start 11/22/2010 11:57  
 Run duration 000 00:20:03.32  
 Overload occurred Yes  
 Overload %time 0.05  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.1	80.9	64	60	57
Broadband	A	52.5	72.5	51	50	48
16	L	49.7	71.7	52	48	45
32	L	52.7	75.4	55	50	47
63	L	58.8	75.2	62	56	53
125	L	54.1	74.8	55	51	49
250	L	51.9	73.8	50	46	45
500	L	49.9	71.1	49	47	46
1k	L	49.2	70.6	48	46	45
2k	L	42.9	65.5	42	40	38
4k	L	35	61.2	35	30	28
8k	L	29.8	57.5	31	25	21
16k	L	24	54.6	24	18	16

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- Period results -

Record number 4 : 20  
 Record start 00:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.4	70.6	67	62	59
Broadband	A	49.9	52	51	50	49
16	L	49.8	59.1	52	49	45
32	L	51.4	57.6	53	51	48
63	L	61.8	70.3	66	60	55
125	L	55.3	64.6	59	53	51
250	L	47.2	50.8	48	47	46
500	L	47.6	50.7	48	48	47
1k	L	46.1	48.5	47	46	45
2k	L	40.5	44	42	40	39
4k	L	31.7	42.2	34	31	27
8k	L	23.9	30.8	27	22	19
16k	L	18.3	25.7	21	17	15

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- Period results -

Record number 5 : 20  
 Record start 01:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	65.6	75.3	68	64	60
Broadband	A	49.7	53.7	51	49	48
16	L	51.1	58	54	50	47
32	L	57	64.3	61	55	51
63	L	64.3	75.2	67	61	55
125	L	52.8	59.4	54	52	51
250	L	47	54	48	46	45
500	L	47.7	52.2	49	47	46
1k	L	46	50.4	47	46	45
2k	L	39.9	46.9	41	39	38
4k	L	29.5	41.6	31	28	27
8k	L	20.9	28	22	21	20
16k	L	15.9	18.8	16	16	16

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- Period results -

Record number 6 : 20  
 Record start 02:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61	67.7	63	60	58
Broadband	A	49.1	52.7	51	49	47
16	L	50.5	58.1	53	50	47
32	L	53.3	60.4	56	52	49
63	L	58.3	67.2	61	57	54
125	L	51.8	56.5	54	51	49
250	L	48.2	53.8	52	47	44
500	L	47	51.9	49	47	45
1k	L	45.5	49.1	47	45	44
2k	L	38.7	41.5	40	39	37
4k	L	29.9	34.6	32	29	27
8k	L	23.5	30.8	27	22	19
16k	L	18	24.5	21	16	15

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- Period results -

Record number 7 : 20  
 Record start 03:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.6	66.2	63	60	58
Broadband	A	48.6	51.9	50	48	47
16	L	47.7	55.9	50	47	44
32	L	49.8	59.7	52	49	47
63	L	58.4	65.4	61	57	54
125	L	52.3	57.7	55	51	49
250	L	49.6	58.5	54	46	44
500	L	46.3	50.7	47	46	45
1k	L	44.8	48.6	46	44	43
2k	L	38	42.2	39	38	36
4k	L	28.9	33.6	32	28	26
8k	L	25.1	32	29	24	20
16k	L	19.4	26.1	23	18	16

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- Period results -

Record number 8 : 20  
 Record start 04:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.7	65.9	62	59	58
Broadband	A	49.5	53.9	50	49	49
16	L	48.4	57.2	51	48	45
32	L	51.4	59.5	54	50	48
63	L	56.9	65.7	60	55	53
125	L	50.7	56.1	52	51	49
250	L	46.3	49.5	47	46	45
500	L	47.1	50.1	48	47	46
1k	L	46.5	52.4	47	46	45
2k	L	39.5	46.6	41	39	38
4k	L	31.9	46.7	33	31	28
8k	L	28.5	44.2	31	27	22
16k	L	21.8	33.9	25	21	17

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- Period results -

Record number 9 : 20  
 Record start 05:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.5	62	60	58	57
Broadband	A	50.1	51.9	51	50	49
16	L	48.3	54.1	51	48	44
32	L	50.3	57.2	53	49	47
63	L	53.9	59.9	56	53	51
125	L	50.4	55.7	52	50	48
250	L	46.1	53.7	47	46	45
500	L	48.2	52	49	48	47
1k	L	46.9	49	48	47	46
2k	L	40	44.3	41	40	38
4k	L	33.5	40	36	33	30
8k	L	30.9	39.6	34	29	26
16k	L	24.6	33.3	28	23	19

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- Period results -

Record number 10 : 20  
 Record start 06:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.7	64.1	60	58	57
Broadband	A	49.7	52.4	51	50	49
16	L	49.2	56.4	52	48	45
32	L	50.4	57.4	53	50	47
63	L	54.6	62.7	57	54	52
125	L	50.4	54.5	52	50	49
250	L	46.4	52	48	46	45
500	L	48.1	51.7	49	48	47
1k	L	46.3	49	47	46	45
2k	L	39.8	43.3	41	40	38
4k	L	32.7	37.9	35	33	29
8k	L	29.1	38.4	32	29	23
16k	L	22.4	31.4	25	21	17

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- Period results -

Record number 11 : 20  
 Record start 07:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.8	71	64	60	58
Broadband	A	50.4	54	52	50	49
16	L	49.3	58	52	49	45
32	L	52.8	59.9	55	52	48
63	L	59.6	70.7	62	56	53
125	L	51.6	57.1	53	51	49
250	L	48.3	54.4	51	47	46
500	L	48.7	54.7	51	48	47
1k	L	47	50.2	48	47	46
2k	L	40.3	44.3	42	40	39
4k	L	31.1	35.5	33	31	29
8k	L	25	31.3	27	25	22
16k	L	18.3	27.4	20	18	16

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- Period results -

Record number 12 : 20  
 Record start 08:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.1	66.1	62	60	58
Broadband	A	49.7	56.5	51	50	49
16	L	50.7	59.7	54	49	45
32	L	51.4	60.4	55	50	47
63	L	57	63.5	60	56	53
125	L	51.6	58.3	53	51	50
250	L	46.7	51	48	47	45
500	L	47.3	50.1	48	47	46
1k	L	46.7	53.6	48	47	45
2k	L	40	51.2	41	39	38
4k	L	30.9	39.5	33	31	28
8k	L	26.4	32.5	29	26	22
16k	L	19.6	26	22	19	16

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**NSA-2: 183 New Estate Road**

**November 22, 2010**

- Period results -

Record number 13 : 20  
 Record start 09:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.5	69	65	60	58
Broadband	A	49.9	51.9	51	50	49
16	L	50.2	56.6	53	50	47
32	L	52.6	59.3	56	51	48
63	L	59.4	68.6	64	56	53
125	L	51.6	59.8	53	51	49
250	L	46.5	49.3	48	46	45
500	L	47.4	50.4	48	47	47
1k	L	46.7	49.9	48	47	45
2k	L	40.5	45.2	42	40	38
4k	L	31.3	40.2	33	31	29
8k	L	27.3	34.8	30	26	24
16k	L	21.3	29.1	24	20	18

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- Period results -

Record number 14 : 20  
 Record start 10:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.8	63.9	61	59	58
Broadband	A	50.7	54.2	52	50	49
16	L	48.8	54.9	52	48	45
32	L	50.6	57.3	53	50	48
63	L	56.3	62.5	59	56	53
125	L	52	58.3	54	51	50
250	L	48.6	57.9	51	47	45
500	L	48.3	51.3	49	48	47
1k	L	47.5	50.7	49	47	46
2k	L	41	47.7	43	40	39
4k	L	31.2	39.9	32	31	29
8k	L	26.4	39.8	27	26	23
16k	L	19.4	29.4	21	19	18

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- Period results -

Record number 16 : 20  
 Record start 12:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	57.9	62.8	59	57	56
Broadband	A	49.3	53.4	50	49	48
16	L	47.5	54.7	50	47	44
32	L	47.8	54.1	50	47	45
63	L	53.3	60.8	55	53	51
125	L	51.5	60	55	50	48
250	L	47.6	56.2	49	47	45
500	L	47.1	51	48	47	46
1k	L	45.8	48.8	47	46	45
2k	L	40	45.8	42	40	38
4k	L	30.7	48	31	29	28
8k	L	25	41.7	26	23	21
16k	L	18.2	31	20	17	16

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- Period results -

Record number 17 : 20  
 Record start 13:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.5	68.6	63	59	57
Broadband	A	48.8	51.6	50	49	47
16	L	49.5	56.5	52	49	46
32	L	50.4	59.8	53	50	47
63	L	58.5	68.3	62	56	53
125	L	51.3	57.8	53	51	49
250	L	45.8	53	48	45	44
500	L	45.9	48.7	47	46	45
1k	L	45.8	48.7	47	46	44
2k	L	39.1	44.9	41	39	37
4k	L	28.5	39.9	29	28	27
8k	L	22.3	33.6	23	22	21
16k	L	16.7	21	18	16	16

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- Period results -

**NSA-2: 183 New Estate Road**

**November 22, 2010**

Record number 18 : 20  
 Record start 14:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.4	70.1	65	60	57
Broadband	A	49.1	54.6	51	49	47
16	L	47.5	54.5	50	47	44
32	L	50.3	58.9	53	49	46
63	L	59.9	69.5	64	57	53
125	L	50.8	56.2	53	50	49
250	L	46.3	52.4	48	46	44
500	L	46.5	50.3	48	46	45
1k	L	45.8	49.5	47	46	44
2k	L	39.9	47.9	42	39	37
4k	L	30.5	49.3	30	28	27
8k	L	23.3	40.3	24	22	20
16k	L	17.1	31.5	18	16	16

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- Period results -

Record number 19 : 20  
 Record start 15:20.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	58.6	65	60	58	57
Broadband	A	49.2	53.9	51	49	48
16	L	49.1	59.9	51	48	45
32	L	49.8	60	53	48	45
63	L	55	62.5	57	54	52
125	L	50.5	55.9	52	50	48
250	L	44.9	49	46	45	43
500	L	45.8	50.3	47	45	45
1k	L	46	49.7	48	46	44
2k	L	40.8	48	43	40	38
4k	L	35.4	48.8	39	32	29
8k	L	26.8	43.6	28	25	23
16k	L	18.8	34.8	19	18	17

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- Cumulative period results -

Number of records 31  
 Run start 11/22/2010 9:26  
 Run duration 000 00:31:02.38  
 Overload occurred Yes  
 Overload %time 0.25  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.3	81.8	65	63	61
Broadband	A	54.6	77	54	51	50
16	L	57.3	64.9	60	56	52
32	L	57.6	77.2	59	57	55
63	L	58.1	80.1	60	56	54
125	L	55.8	80.5	56	53	51
250	L	52.1	75.2	52	48	47
500	L	52.6	73.2	53	50	49
1k	L	51.1	74.5	50	47	46
2k	L	45.2	70.4	43	37	35
4k	L	39.3	65.9	34	29	26
8k	L	33.4	63.3	30	23	18
16k	L	26.2	60	25	19	16

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- Period results -

Record number 2 : 31  
 Record start 27:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.5	65.6	64	62	61
Broadband	A	50.8	53.5	52	51	50
16	L	57.1	62.3	60	56	52
32	L	57.1	61.8	59	57	55
63	L	55.2	60.3	57	55	53
125	L	52.5	58.4	54	52	51
250	L	48.3	56.3	49	48	47
500	L	50.6	53.3	52	50	50
1k	L	47	50.4	48	47	46
2k	L	37.7	43.9	40	37	36
4k	L	29	34.1	30	29	28
8k	L	22.4	29.1	25	22	19
16k	L	18.9	24.2	21	18	16

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- Period results -

Record number 3 : 31  
 Record start 28:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.5	65.3	64	62	61
Broadband	A	50.3	51.5	51	50	50
16	L	56.8	62	60	56	51
32	L	56.8	60.9	59	57	54
63	L	56.4	60.7	58	56	54
125	L	52.5	56.3	54	52	51
250	L	48.1	51.9	49	48	47
500	L	50.3	52.9	51	50	49
1k	L	46.2	48	47	46	46
2k	L	35.4	37.2	36	35	35
4k	L	27	31.3	28	27	26
8k	L	19.8	26.6	21	19	17
16k	L	16.9	23.1	18	16	15

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- Period results -

Record number 4 : 31  
 Record start 29:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.1	65.6	64	62	61
Broadband	A	49.9	51.6	51	50	49
16	L	56.9	62.2	60	56	51
32	L	56.8	61.4	59	57	54
63	L	55	60.5	57	55	53
125	L	52	57.6	53	52	50
250	L	48.6	52.6	50	48	47
500	L	49.7	52.3	51	50	49
1k	L	45.8	47.6	46	46	45
2k	L	35.5	42.8	36	35	35
4k	L	27	38.8	28	27	26
8k	L	18.9	29.2	20	18	17
16k	L	16.1	23.1	17	16	15

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- Period results -

Record number 5 : 31  
 Record start 30:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.1	66.8	64	63	61
Broadband	A	50.9	54.6	52	51	50
16	L	57.3	62.8	60	56	52
32	L	57.1	61	59	57	55
63	L	56.8	64.2	60	56	53
125	L	53.6	62.7	56	52	51
250	L	49.3	54.6	51	49	47
500	L	50.9	53.2	52	51	50
1k	L	46.5	50.4	48	46	45
2k	L	37.6	49	38	36	35
4k	L	28.8	38.5	30	28	27
8k	L	23.9	31.2	26	23	20
16k	L	20.5	26.5	23	20	17

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- Period results -

Record number 6 : 31  
 Record start 31:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.4	67.6	65	63	62
Broadband	A	51.9	57.1	53	52	51
16	L	56.9	62.1	60	56	51
32	L	57	60.9	59	57	55
63	L	58	65.5	61	57	54
125	L	54.3	59.2	56	54	52
250	L	49.9	54.3	51	50	48
500	L	52	58.9	53	52	51
1k	L	47.5	54.5	48	47	47
2k	L	38.5	50.4	41	36	36
4k	L	29.5	39.8	31	28	27
8k	L	22.3	36	24	20	17
16k	L	17.2	28.1	19	16	15

**NSA-4: Ayer Road (Industrial Use)**

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- Period results -

Record number 7 : 31  
 Record start 32:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.1	66.7	64	63	62
Broadband	A	50.4	59.8	51	50	50
16	L	57.5	63.4	60	57	52
32	L	57.8	61.6	60	58	55
63	L	57	65.1	59	56	54
125	L	52.7	58.3	55	52	51
250	L	48.4	53.2	50	48	47
500	L	50.3	54.2	51	50	49
1k	L	46.2	53.3	47	46	45
2k	L	36.7	55.1	36	35	35
4k	L	30.1	52.1	28	27	26
8k	L	21.5	41.8	22	19	17
16k	L	16.5	26.4	18	16	15

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- Period results -

Record number 8 : 31  
 Record start 33:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.8	65.9	64	63	61
Broadband	A	50.3	54	51	50	49
16	L	57.6	63	61	57	52
32	L	58	62.1	60	58	56
63	L	55.1	58.8	57	55	53
125	L	52.5	58.5	54	52	50
250	L	47.7	50.4	49	48	47
500	L	50.2	55.7	51	50	49
1k	L	46.3	48.7	47	46	45
2k	L	35.8	38.6	37	36	35
4k	L	27.6	39.3	29	27	26
8k	L	20.6	33.4	23	19	17
16k	L	17	26.4	19	16	15

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- Period results -

Record number 9 : 31  
 Record start 34:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63	67	64	63	62
Broadband	A	50.6	58.5	51	50	50
16	L	57.8	64.2	61	57	53
32	L	58.3	62.5	60	58	56
63	L	55.6	61.1	57	55	54
125	L	52	57.4	54	52	50
250	L	48.1	51.5	49	48	47
500	L	50.2	52.3	51	50	49
1k	L	46.7	50.2	48	47	46
2k	L	37.7	53.7	38	37	36
4k	L	31.7	52.8	31	29	27
8k	L	25.1	41.6	28	22	20
16k	L	21	32.2	24	19	16

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- Period results -

Record number 10 : 31  
 Record start 35:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.2	66.5	64	63	62
Broadband	A	51.2	53.3	52	51	50
16	L	57.2	64.4	60	56	52
32	L	58.3	62.3	60	58	56
63	L	56.3	60.9	58	56	54
125	L	53	59.1	55	53	51
250	L	49.6	54.4	52	49	48
500	L	50.9	53.6	52	51	50
1k	L	47.2	49.7	48	47	46
2k	L	37.3	40.8	39	37	36
4k	L	28.7	34.5	30	29	27
8k	L	22.2	27.9	25	21	19
16k	L	18.5	23.5	21	17	16

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**NSA-4: Ayer Road (Industrial Use)**

November 22, 2010

- Period results -

Record number 14 : 31  
 Record start 39:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.6	66	64	62	61
Broadband	A	50.5	57.2	51	50	50
16	L	56.9	63	60	56	51
32	L	57	61.5	59	57	55
63	L	56.7	62.3	60	55	53
125	L	51.9	56.2	53	52	50
250	L	47.7	52.2	49	48	47
500	L	50.1	56.3	51	50	49
1k	L	46.9	55.2	47	46	46
2k	L	38.1	49.7	39	37	36
4k	L	27.8	36.8	29	27	26
8k	L	20.2	28.9	22	19	18
16k	L	16.3	22.6	17	16	15

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- Period results -

Record number 16 : 31  
 Record start 41:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.7	66	64	62	61
Broadband	A	50.5	52.3	51	50	50
16	L	57	62.9	60	56	52
32	L	57.7	62.3	59	58	55
63	L	55.9	60.5	57	56	54
125	L	52.3	56.2	53	52	51
250	L	47.6	50.6	49	48	46
500	L	50.2	53.4	51	50	49
1k	L	46.7	49.5	47	47	46
2k	L	36.6	43.8	38	36	36
4k	L	28.1	36.3	29	28	27
8k	L	21.8	29.4	23	21	19
16k	L	17.8	23	19	17	16

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- Period results -

## NSA-4: Ayer Road (Industrial Use)

November 22, 2010

Record number 18 : 31  
 Record start 43:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.6	66.2	64	62	61
Broadband	A	50.4	55.6	51	50	49
16	L	57.3	63.3	60	56	52
32	L	57.5	62.2	59	57	55
63	L	55.5	59	57	55	54
125	L	51.5	54.6	53	51	50
250	L	47.2	51.3	48	47	46
500	L	49.4	51.8	50	49	48
1k	L	47.1	50.5	48	47	46
2k	L	38.3	47.3	40	38	36
4k	L	29.7	48.6	30	28	27
8k	L	23.2	39.1	24	22	20
16k	L	19.2	31.7	21	19	17

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- Period results -

Record number 20 : 31  
 Record start 45:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.7	66.7	64	62	61
Broadband	A	50.5	55.9	51	50	50
16	L	56.9	62.6	60	56	52
32	L	57.3	61.3	59	57	55
63	L	55.8	60.6	58	55	54
125	L	52	56	53	52	51
250	L	47.9	50.8	49	48	47
500	L	50.4	55	51	50	49
1k	L	46.8	49.3	47	47	46
2k	L	36.2	51.3	37	36	35
4k	L	29.1	48	30	28	26
8k	L	24.8	36.6	27	24	22
16k	L	20.9	28.6	23	20	19

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- Period results -

**NSA-4: Ayer Road (Industrial Use)**

November 22, 2010

Record number 28 : 31  
 Record start 53:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.9	71.1	66	63	62
Broadband	A	51	59.7	52	51	50
16	L	57.8	64.3	61	57	52
32	L	57.9	62.6	60	58	56
63	L	56.2	63.7	58	56	54
125	L	53.1	61.1	55	53	51
250	L	49	57.6	50	49	48
500	L	50.3	60.4	51	50	49
1k	L	47.2	55.2	48	47	46
2k	L	38.6	54.8	39	38	37
4k	L	32.1	51.8	33	30	30
8k	L	30.5	45.7	33	30	27
16k	L	26.7	37.8	29	26	23

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- Period results -

Record number 30 : 31  
 Record start 55:27.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.9	69.9	65	64	62
Broadband	A	51.1	65.6	52	51	50
16	L	57.7	63.8	61	57	51
32	L	58	64.4	60	58	56
63	L	58.8	64.7	61	58	56
125	L	53.2	57.9	55	53	51
250	L	49.3	62.2	51	49	47
500	L	50.9	67.5	51	50	49
1k	L	47	58.8	48	47	46
2k	L	38	42.5	39	38	37
4k	L	30.1	35.6	32	30	28
8k	L	25.7	34.1	27	26	22
16k	L	21.3	26.4	23	21	18

**PB-2: Northeast Property Boundary**

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- Cumulative period results -

Number of records 18  
 Run start 11/22/2010 10:03  
 Run duration 000 00:18:02.32  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	65	78.5	67	64	62
Broadband	A	50	65	51	49	48
16	L	59.2	71.3	62	58	53
32	L	59.6	75	61	59	57
63	L	60	73	64	57	55
125	L	54.3	71.2	56	52	50
250	L	48.3	69.3	49	47	46
500	L	48.9	65.1	50	48	47
1k	L	45.9	62.2	47	45	44
2k	L	39	61.3	40	36	35
4k	L	33.5	60.1	33	29	28
8k	L	26.8	57.9	26	23	22
16k	L	19.8	54	18	16	16

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- Period results -

Record number 2 : 18  
 Record start 04:38.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.1	67.9	65	64	62
Broadband	A	49.1	53.3	50	49	48
16	L	59.1	65.9	62	58	53
32	L	59.5	64.5	61	59	57
63	L	57.5	62	59	57	55
125	L	52.1	56.6	53	52	51
250	L	47	50.5	48	47	46
500	L	48.8	54	50	49	48
1k	L	45.2	48.8	46	45	44
2k	L	35.6	43.5	36	35	35
4k	L	28.4	38.9	29	28	27
8k	L	23.9	34.2	26	23	22
16k	L	17.6	29	19	16	16

**PB-2: Northeast Property Boundary**

**November 22, 2010**

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- Period results -

Record number 3 : 18  
Record start 05:38.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.3	68.2	66	64	62
Broadband	A	49.5	53.9	50	49	49
16	L	59.6	65.8	63	59	54
32	L	59.8	63.8	61	60	58
63	L	56.8	62.4	58	57	55
125	L	52.2	56.5	54	52	51
250	L	47.8	51.7	49	48	47
500	L	48.9	55.5	50	49	48
1k	L	45.6	50.5	46	45	45
2k	L	36.2	39.5	37	36	35
4k	L	28.6	36.3	29	28	27
8k	L	23.9	41.1	25	23	22
16k	L	17.4	35.5	18	16	16

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- Period results -

Record number 4 : 18  
Record start 06:38.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64	67.8	65	64	62
Broadband	A	49	51.4	50	49	48
16	L	58.9	65	62	58	53
32	L	59.9	64	61	60	58
63	L	56.8	60.4	58	57	55
125	L	52.2	56.9	53	52	51
250	L	47.6	52.4	49	47	46
500	L	48.6	51.6	50	48	47
1k	L	44.7	47.8	46	45	44
2k	L	35.9	42.2	37	36	35
4k	L	29.1	34.9	30	29	28
8k	L	23.6	32.5	25	23	22
16k	L	16.6	31.1	17	16	16

**PB-2: Northeast Property Boundary**

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- Period results -

Record number 5 : 18  
 Record start 07:38.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.3	67.9	66	64	63
Broadband	A	49.1	50.6	50	49	48
16	L	59.1	65.4	62	58	53
32	L	59.9	63.8	61	60	58
63	L	57.5	62	59	57	55
125	L	52.6	57.2	54	52	51
250	L	47.2	49.3	48	47	46
500	L	48.7	51	49	49	48
1k	L	44.9	47.6	46	45	44
2k	L	35.7	37.8	37	36	35
4k	L	28.1	32.7	29	28	28
8k	L	22.3	30.6	23	22	21
16k	L	15.8	21.9	16	16	15

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- Period results -

Record number 6 : 18  
 Record start 08:38.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	65.6	71.4	67	65	63
Broadband	A	50.5	54.8	53	50	49
16	L	59.1	64.5	62	58	53
32	L	59.6	63.4	61	59	58
63	L	61.5	70.4	65	59	56
125	L	55	63.4	59	53	51
250	L	48.5	53.3	50	48	47
500	L	48.9	54.1	50	49	48
1k	L	46.2	51.6	49	45	44
2k	L	40.8	47.8	46	36	35
4k	L	30.9	48	33	29	28
8k	L	23.3	36.3	24	23	22
16k	L	16.5	29.1	17	16	16

**PB-2: Northeast Property Boundary**

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- Period results -

Record number 7 : 18  
 Record start 09:38.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.4	67.8	66	64	63
Broadband	A	50.1	53.4	51	50	49
16	L	59.8	65.7	63	59	54
32	L	59.6	63.2	61	59	58
63	L	57.1	61.2	59	57	55
125	L	53.3	57.2	55	53	52
250	L	48.3	50.8	49	48	47
500	L	49.3	51.6	50	49	49
1k	L	46.3	50.9	48	46	45
2k	L	38	46.8	41	36	35
4k	L	28.6	36.5	29	28	28
8k	L	22.7	33.4	23	22	22
16k	L	16.1	23.3	16	16	16

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- Period results -

Record number 8 : 18  
 Record start 10:38.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.5	67.7	66	64	63
Broadband	A	49.1	51.5	50	49	48
16	L	59.8	65.4	63	59	54
32	L	59.9	64.3	61	60	58
63	L	57.3	60.8	59	57	56
125	L	52.7	55.7	54	53	51
250	L	47.8	51	49	48	47
500	L	48.6	50.8	49	49	48
1k	L	44.8	48.8	45	45	44
2k	L	35.9	40.2	37	36	35
4k	L	29	36.1	29	29	28
8k	L	23.1	29.8	24	23	22
16k	L	16	21.2	16	16	16

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**PB-2: Northeast Property Boundary**

**November 22, 2010**

- Period results -

Record number 9 : 18  
Record start 11:38.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64	68.3	65	64	62
Broadband	A	48.5	50.3	49	48	48
16	L	59.4	66.2	62	59	54
32	L	59.4	63.2	61	59	57
63	L	56.7	62.1	58	56	55
125	L	52.2	55.7	53	52	51
250	L	47.8	52.7	49	47	46
500	L	47.9	49.9	49	48	47
1k	L	44.2	46.5	45	44	43
2k	L	35.9	41.2	37	36	35
4k	L	29.6	39.5	30	29	29
8k	L	23.1	31.1	24	23	22
16k	L	16.4	27.8	17	16	16

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- Period results -

Record number 10 : 18  
Record start 12:38.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	66.3	71.4	68	66	64
Broadband	A	49.4	53.6	51	49	48
16	L	59	64.4	62	58	53
32	L	59.8	65.2	61	60	58
63	L	63.5	70.6	67	62	57
125	L	54.7	61.4	57	54	52
250	L	48.7	54.3	51	48	46
500	L	48.2	51.3	49	48	47
1k	L	45	51.3	47	44	43
2k	L	36.8	44.3	39	35	35
4k	L	29.3	39.8	30	29	28
8k	L	22.6	30.8	23	22	22
16k	L	15.9	21.9	16	16	16

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**PB-2: Northeast Property Boundary**

**November 22, 2010**

- Period results -

Record number 11 : 18  
Record start 13:38.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	66	71	68	66	64
Broadband	A	49.6	52.9	50	50	49
16	L	59.1	65	62	58	53
32	L	59.3	63.8	61	59	57
63	L	62.8	70.2	66	62	58
125	L	55.6	62.4	58	54	52
250	L	47.8	51.6	49	48	47
500	L	48.7	50.6	50	49	48
1k	L	45.2	50.6	46	45	44
2k	L	37.6	43.3	39	37	36
4k	L	30.1	36.2	31	30	29
8k	L	23.6	28.4	25	23	22
16k	L	16	18.9	16	16	16

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- Period results -

Record number 12 : 18  
Record start 14:38.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	68.4	72.8	70	68	66
Broadband	A	51.3	54.8	53	51	50
16	L	60	66	63	59	53
32	L	60	67.2	62	59	57
63	L	66.1	72.3	69	65	62
125	L	59	66.3	61	58	56
250	L	51.2	57.4	54	50	48
500	L	50.3	57.3	52	50	48
1k	L	45.7	48	47	46	45
2k	L	38.9	42.2	40	39	38
4k	L	33.1	35.6	34	33	31
8k	L	26.6	31.3	29	26	24
16k	L	18.8	26.5	22	17	16

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- Period results -

**PB-2: Northeast Property Boundary**

**November 22, 2010**

Record number 13 : 18  
 Record start 15:38.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	65.4	71.9	68	64	62
Broadband	A	49.1	53	51	49	48
16	L	58.6	63.7	62	58	52
32	L	58.3	63.5	60	58	56
63	L	61.8	70.9	66	58	55
125	L	55.9	64.3	60	53	51
250	L	48	55.6	49	47	46
500	L	48.3	53.5	49	48	47
1k	L	44.5	47.8	46	44	43
2k	L	36.3	41.8	38	36	34
4k	L	30	41.8	32	29	28
8k	L	25	39.1	27	24	23
16k	L	17.7	28.6	20	17	16

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- Period results -

Record number 14 : 18  
 Record start 16:38.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63	66.9	65	63	61
Broadband	A	48.1	51.6	49	48	47
16	L	58.5	63.7	62	58	52
32	L	58.2	63.5	60	58	56
63	L	56	60.3	57	56	54
125	L	51.2	54.4	52	51	50
250	L	47	51.6	48	47	46
500	L	47.7	51.8	49	48	47
1k	L	43.8	47.8	45	44	43
2k	L	35.3	42.2	36	35	34
4k	L	29	44	29	28	28
8k	L	24.4	35.5	26	24	22
16k	L	16.1	24.8	17	16	16

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- Period results -

**PB-2: Northeast Property Boundary**

November 22, 2010

Record number 16 : 18  
 Record start 18:38.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.8	69.7	65	63	62
Broadband	A	50.1	61	51	49	48
16	L	59.3	65.7	62	59	53
32	L	58.9	64.5	61	58	56
63	L	55.9	64.6	58	55	54
125	L	52.5	65	54	52	50
250	L	47.7	56.3	48	47	46
500	L	48.4	55.5	49	48	47
1k	L	46.5	58.4	47	45	44
2k	L	39.7	52.6	42	38	37
4k	L	33.8	46.4	37	31	29
8k	L	24.6	36.8	26	23	22
16k	L	16.6	26.3	18	16	16

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- Period results -

Record number 17 : 18  
 Record start 19:38.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.6	67.4	65	63	62
Broadband	A	49.2	61.1	49	49	48
16	L	59.1	64.7	62	58	53
32	L	58.7	62.9	60	59	56
63	L	56.2	62.4	58	56	54
125	L	51	54.9	52	51	50
250	L	46.9	51.1	48	47	46
500	L	48	54.3	49	48	47
1k	L	45.6	58.9	45	45	44
2k	L	38.6	54.7	38	37	36
4k	L	30.5	44.2	30	29	29
8k	L	23.4	39.2	24	23	22
16k	L	16.7	34.1	16	16	16



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- Cumulative period results -

Number of records 33  
 Run start 11/22/2010 10:29  
 Run duration 000 00:33:02.60  
 Overload occurred Yes  
 Overload %time 1.35  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	66.5	81.8	68	62	60
Broadband	A	57.6	76.9	57	48	46
16	L	55.6	73.4	57	55	52
32	L	57.4	77	59	55	52
63	L	62.2	80.3	64	58	54
125	L	60.2	80	61	52	50
250	L	56	78.2	55	46	44
500	L	53.9	75.9	53	46	45
1k	L	53.5	73.1	52	44	42
2k	L	50.3	71	49	38	34
4k	L	44.8	67.5	42	28	22
8k	L	37.5	62.8	31	18	15
16k	L	30.9	60.1	20	15	14

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- Period results -

Record number 2 : 33  
 Record start 30:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.3	69	64	61	60
Broadband	A	48.4	53.9	50	48	47
16	L	54.5	59.6	57	54	51
32	L	56.7	63	59	56	54
63	L	57.9	65.5	61	56	54
125	L	53.8	66.4	56	51	49
250	L	47.7	57.7	50	46	45
500	L	47.4	52.5	48	47	46
1k	L	44	47.7	45	44	43
2k	L	36.5	45.8	38	35	34
4k	L	28.4	41.9	32	25	21
8k	L	23.6	36	27	20	15
16k	L	16.3	28.4	18	15	14

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- Period results -

Record number 3 : 33  
 Record start 31:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred Yes  
 Overload %time 0.05  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.1	76.6	66	62	60
Broadband	A	50.7	62.7	54	48	47
16	L	55.2	61.2	57	55	52
32	L	57.6	67.8	60	56	54
63	L	60	72.9	63	57	55
125	L	57.1	72.5	59	52	50
250	L	50.4	66.7	52	46	44
500	L	48.8	64.2	51	47	46
1k	L	46.7	59.2	50	44	43
2k	L	40.7	56.7	46	36	34
4k	L	33.4	53.2	37	26	22
8k	L	26	49.8	27	18	15
16k	L	21.8	47.1	18	15	14

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- Period results -

Record number 5 : 33  
 Record start 33:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.1	68.2	66	64	61
Broadband	A	48.2	54.6	50	48	47
16	L	54.9	59.4	57	55	52
32	L	55.7	61.4	57	55	53
63	L	62	67.6	65	62	57
125	L	53.4	59.4	56	53	51
250	L	45.6	49.9	47	45	44
500	L	46.2	49.9	47	46	45
1k	L	44.3	47.9	46	44	43
2k	L	38.3	46.2	41	37	36
4k	L	30.7	50	33	27	24
8k	L	21.4	39.4	23	19	15
16k	L	15.9	27.1	18	15	14

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- Period results -

Record number 7 : 33  
 Record start 35:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.8	65	63	60	59
Broadband	A	46.3	49.7	47	46	45
16	L	55.4	61.7	58	55	52
32	L	53.4	58.2	55	53	51
63	L	56.6	63.9	60	55	52
125	L	51.3	58.8	53	51	49
250	L	44.7	49.8	46	44	43
500	L	45	49	46	45	44
1k	L	42.4	46.4	44	42	41
2k	L	34.8	39.4	37	34	33
4k	L	23.2	31.5	25	22	21
8k	L	15.4	25.9	16	14	14
16k	L	14.6	18.8	15	14	14

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- Period results -

Record number 18 : 33  
 Record start 46:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.4	65.2	62	60	58
Broadband	A	46.9	52.3	48	47	45
16	L	54.8	59	57	55	52
32	L	52.3	58.2	54	52	49
63	L	56.6	63.9	60	55	53
125	L	50.2	56	52	50	48
250	L	44.4	48.3	46	44	43
500	L	45.6	48.6	47	45	44
1k	L	43.4	50.6	45	43	41
2k	L	35.5	44.7	38	35	32
4k	L	24.5	33.2	29	21	20
8k	L	16	28.4	18	15	14
16k	L	14.6	20.1	15	14	14

**PB-3: Southeast Property Boundary**

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- Period results -

Record number 19 : 33  
 Record start 47:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.4	67.8	63	61	59
Broadband	A	46.8	54.6	48	46	45
16	L	55.1	60.8	57	55	52
32	L	55	60.7	57	55	52
63	L	57.5	65	60	56	54
125	L	51.4	60.1	53	50	49
250	L	44.6	56.4	45	44	43
500	L	45.4	54.3	46	45	44
1k	L	42.7	49.8	44	42	41
2k	L	36.4	51.4	38	35	32
4k	L	26.9	38.2	30	24	21
8k	L	17	24.9	20	16	14
16k	L	14.9	18.9	16	15	14

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- Period results -

Record number 20 : 33  
 Record start 48:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.3	73.9	67	62	60
Broadband	A	50.3	61.8	51	47	46
16	L	55.5	61.4	58	55	52
32	L	57.5	68.6	60	56	53
63	L	60.1	70.3	63	58	55
125	L	57.1	69.6	60	53	50
250	L	51.4	64.3	53	46	44
500	L	49.8	64	50	46	45
1k	L	44.2	53.5	45	43	42
2k	L	38.4	48.5	41	36	35
4k	L	31.5	43.5	36	28	24
8k	L	19.5	32.2	23	17	15
16k	L	14.9	24.1	15	15	14

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- Period results -

Record number 21 : 33  
 Record start 49:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.8	70.8	65	62	60
Broadband	A	48.2	60.3	50	47	46
16	L	54.7	58.8	57	54	52
32	L	56.1	68.1	58	56	53
63	L	59.4	66.7	62	58	55
125	L	54.3	61.6	57	53	51
250	L	45.8	54.2	47	45	44
500	L	45.7	58.2	47	45	44
1k	L	44.3	57.5	46	42	41
2k	L	39.2	57.1	42	36	34
4k	L	29.4	42.8	33	27	24
8k	L	20.9	37.5	22	18	15
16k	L	16.5	32.9	17	15	14

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- Period results -

Record number 24 : 33  
 Record start 52:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.2	71.5	65	62	61
Broadband	A	50.2	61.4	52	48	47
16	L	54.5	60	57	54	51
32	L	56.2	62.3	58	56	53
63	L	58.5	65.7	61	58	55
125	L	56.8	68.8	59	54	51
250	L	52.1	66.8	52	47	45
500	L	47.4	55.3	49	46	45
1k	L	45.2	54.4	48	44	42
2k	L	40.3	51.2	44	38	36
4k	L	32.6	46.4	37	29	24
8k	L	21.1	35.8	24	18	15
16k	L	15.1	24.2	16	15	14

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**PB-3: Southeast Property Boundary**

**November 22, 2010**

- Period results -

Record number 27 : 33  
Record start 55:57.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.4	65.7	63	61	60
Broadband	A	46.7	51.6	48	46	46
16	L	55.1	61.1	57	55	52
32	L	55.4	61.9	57	55	53
63	L	57.4	62.8	60	57	54
125	L	51.1	56.6	53	51	49
250	L	44.8	54	46	44	43
500	L	45.8	50.1	47	46	45
1k	L	42.6	45.8	44	42	41
2k	L	35.5	43.6	38	34	33
4k	L	26.9	37.3	31	23	21
8k	L	18.8	33.7	22	16	14
16k	L	15.3	22	16	15	14

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- Period results -

Record number 28 : 33  
Record start 56:57.0  
Period time 1 min  
Periods too short for LNs No  
Overload occurred No  
Overload %time 0  
Low battery occurred No  
Pause was used No  
Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.2	66.9	64	62	60
Broadband	A	48.8	54.7	51	48	47
16	L	54.9	59.2	57	55	52
32	L	55.2	60.9	57	55	52
63	L	58.4	64.6	61	57	54
125	L	53.8	61	56	53	51
250	L	46.8	56.5	48	46	44
500	L	47.1	53.1	48	47	46
1k	L	44.4	49	46	44	43
2k	L	39.6	48.4	42	39	36
4k	L	31.1	47.8	34	28	23
8k	L	20.9	40.2	22	17	15
16k	L	15.2	28.5	16	15	14

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- Period results -

**PB-3: Southeast Property Boundary**

**November 22, 2010**

Record number 29 : 33  
 Record start 57:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.3	64.6	62	61	60
Broadband	A	52	56.4	54	52	49
16	L	54.5	59.4	57	54	50
32	L	54.4	59.3	56	54	51
63	L	56.2	62.2	58	56	53
125	L	50.9	56.3	52	51	49
250	L	46.3	51.2	48	46	45
500	L	52.2	58	55	52	48
1k	L	47.6	50.7	49	48	45
2k	L	41.2	46.9	44	41	37
4k	L	28.1	47.9	28	25	22
8k	L	19.4	38.2	21	15	14
16k	L	15.6	26.5	17	15	14

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- Period results -

Record number 30 : 33  
 Record start 58:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.8	72.5	63	60	59
Broadband	A	49.1	54.9	51	48	46
16	L	53.4	57.7	55	53	50
32	L	53	58.8	55	53	50
63	L	59.3	70.1	62	56	53
125	L	57.2	69.7	55	50	49
250	L	46.8	56.3	49	45	43
500	L	47.4	54.7	49	47	45
1k	L	44.5	48.7	46	44	42
2k	L	39.2	50.3	42	38	35
4k	L	28.2	41.5	30	25	22
8k	L	20.3	35.4	24	16	15
16k	L	15.2	24.4	16	15	14

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- Period results -

**PB-3: Southeast Property Boundary**

November 22, 2010

Record number 31 : 33  
 Record start 59:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.7	68.4	65	62	59
Broadband	A	47.5	55.8	49	47	46
16	L	54	59.5	56	54	51
32	L	54.3	60.2	57	54	50
63	L	60.6	67.4	64	59	55
125	L	50.9	56.7	53	50	48
250	L	45.4	52.4	47	44	43
500	L	46.5	55.5	48	46	45
1k	L	43.2	48.9	44	43	42
2k	L	37.3	52.5	40	35	33
4k	L	27.4	45.1	29	24	22
8k	L	18.1	29.7	21	16	15
16k	L	15	23.5	16	15	14

W:\WORKDA~1\3323\SOUNDM~1\11-22~1\06221003.DTA

- Period results -

Record number 32 : 33  
 Record start 00:57.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	64.5	75.2	67	63	61
Broadband	A	49.9	63.5	50	48	47
16	L	54.5	59.3	56	54	52
32	L	56.5	66.9	59	56	53
63	L	61.9	70.1	65	60	56
125	L	56.3	72.3	55	53	51
250	L	49.1	64.1	49	45	44
500	L	47.3	58.4	48	46	45
1k	L	45	57.8	45	44	43
2k	L	41.3	56.6	42	38	35
4k	L	34.9	53.1	32	29	25
8k	L	21.7	38.4	21	17	15
16k	L	15	27.4	15	15	14

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- Cumulative period results -

Number of records 25  
 Run start 11/22/2010 11:08  
 Run duration 000 00:25:01.68  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.3	75.3	64	61	59
Broadband	A	51.1	70.2	53	47	44
16	L	55.3	72.7	57	55	53
32	L	55.7	69.9	58	55	53
63	L	57.7	71.6	60	56	53
125	L	54	73.8	56	50	47
250	L	48	67.6	50	44	41
500	L	47.2	66.4	48	43	41
1k	L	47.6	65.4	50	43	41
2k	L	43.4	64.7	45	38	34
4k	L	37.1	60.8	36	28	24
8k	L	27.8	50.9	27	19	15
16k	L	18.2	39.6	18	15	14

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- Period results -

Record number 2 : 25  
 Record start 09:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63	69.4	65	62	60
Broadband	A	45.8	50.5	47	46	44
16	L	55.7	60.6	58	55	53
32	L	56.7	66.1	59	56	53
63	L	60	68.4	63	58	55
125	L	52.6	60	55	51	49
250	L	45	53.4	47	44	42
500	L	41.6	46.1	43	41	40
1k	L	42	47.4	44	42	40
2k	L	36.5	43.2	38	36	34
4k	L	28.2	38.6	32	26	23
8k	L	19.7	39.2	22	18	15
16k	L	15.5	26.9	17	15	14

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- Period results -

Record number 3 : 25  
 Record start 10:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60	63.9	61	60	58
Broadband	A	45.6	55.4	48	45	43
16	L	55.3	61.1	57	55	53
32	L	53.5	58	55	53	51
63	L	54.7	61.6	58	53	51
125	L	49.6	55.1	51	49	47
250	L	42.9	55.2	44	42	41
500	L	41.7	52.6	42	41	40
1k	L	42.4	50.5	45	41	40
2k	L	37.3	52.4	40	36	33
4k	L	28.9	44.1	32	26	22
8k	L	21.2	34.2	23	20	17
16k	L	15.8	23.1	17	15	15

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- Period results -

Record number 4 : 25  
 Record start 11:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.5	65.5	62	60	59
Broadband	A	45.3	52.6	47	45	43
16	L	55.8	60.1	57	56	54
32	L	55.3	61.7	57	55	53
63	L	54.6	63.8	56	54	52
125	L	48.7	55	51	48	46
250	L	42.2	48.7	43	42	41
500	L	42	49.8	43	42	41
1k	L	42	48.3	44	42	40
2k	L	37.1	47.4	40	36	33
4k	L	27.4	43.9	30	25	22
8k	L	22.5	46.7	20	17	15
16k	L	17.4	38.8	16	15	14

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- Period results -

Record number 6 : 25  
 Record start 13:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	60.8	66.2	62	61	59
Broadband	A	46.9	56	49	45	43
16	L	55.5	58.8	57	55	54
32	L	54.8	59.7	57	55	53
63	L	56.3	64.8	59	55	52
125	L	48.8	54.1	51	48	46
250	L	42.3	51.1	44	41	40
500	L	43.3	54.1	44	41	40
1k	L	44.1	53.6	47	42	39
2k	L	38.3	47.8	42	35	33
4k	L	30.7	44.1	31	24	22
8k	L	24	37.8	25	16	15
16k	L	16.4	27.8	17	15	14

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- Period results -

Record number 7 : 25  
 Record start 14:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61	65.6	63	61	59
Broadband	A	45.5	49.6	47	45	44
16	L	55.6	59.5	57	55	54
32	L	56.1	60.7	58	56	54
63	L	55.6	63.8	59	54	52
125	L	49.9	56.1	53	49	47
250	L	42.5	47.2	45	41	40
500	L	42	44.7	43	42	41
1k	L	42.2	46.9	44	42	40
2k	L	37.2	44.6	39	37	35
4k	L	27.3	34.7	30	27	23
8k	L	15.9	25.1	17	15	14
16k	L	14.6	17.3	15	14	14

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- Period results -

Record number 9 : 25  
 Record start 16:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	59.9	63.3	61	60	59
Broadband	A	44.3	50.2	45	44	43
16	L	54.9	58.7	56	55	53
32	L	54.5	58.1	56	54	52
63	L	54.4	60.1	56	54	52
125	L	48.7	55.6	50	48	47
250	L	42.2	45.8	43	42	41
500	L	41.5	44.1	42	41	41
1k	L	41.1	49.5	42	41	40
2k	L	34.4	43.7	36	34	32
4k	L	26	39	29	24	22
8k	L	18.8	24.1	21	18	15
16k	L	15.5	18.2	16	15	14

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- Period results -

Record number 10 : 25  
 Record start 17:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.6	66	63	61	60
Broadband	A	45.9	50.8	48	45	44
16	L	54.1	57.8	56	54	52
32	L	54.5	60.3	56	54	52
63	L	58.2	65.3	61	57	54
125	L	52.3	59.7	55	51	48
250	L	44.1	48.2	46	44	42
500	L	43	46.3	45	43	41
1k	L	42.1	46.8	44	42	41
2k	L	36.5	44.3	39	35	34
4k	L	28.6	37.5	31	28	25
8k	L	22.3	31.9	24	21	19
16k	L	16.9	24.2	19	16	15

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- Period results -

Record number 11 : 25  
 Record start 18:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	63.5	71.9	66	62	60
Broadband	A	47.7	56.5	50	47	45
16	L	54.3	58	56	54	52
32	L	56.2	64.5	58	56	53
63	L	61.4	71.6	64	59	55
125	L	52.3	62.5	55	51	49
250	L	45.9	60.6	48	44	42
500	L	44.2	52.2	47	43	42
1k	L	44	54	46	43	41
2k	L	38.5	51.6	41	37	34
4k	L	30.3	49.4	31	26	25
8k	L	21.2	39	20	18	17
16k	L	15.7	27.7	16	15	15

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- Period results -

Record number 12 : 25  
 Record start 19:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62	68	64	62	60
Broadband	A	47.3	54.9	49	47	45
16	L	55.2	58.6	57	55	53
32	L	55.1	60.8	57	55	52
63	L	58.8	66.9	61	58	54
125	L	50.9	57.5	53	50	48
250	L	45.3	51.9	47	45	43
500	L	43.8	49.7	45	43	42
1k	L	44.1	53.6	46	43	41
2k	L	38.3	48.8	40	38	35
4k	L	29.7	43.7	31	28	26
8k	L	23.4	43.3	23	19	18
16k	L	16.3	33.2	17	15	15

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- Period results -

Record number 15 : 25  
 Record start 22:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.6	70.2	64	62	60
Broadband	A	49.1	54.8	53	48	46
16	L	54.9	59.7	57	55	52
32	L	56.4	63.6	58	56	53
63	L	58.9	69.7	61	57	55
125	L	53.8	61.7	57	52	50
250	L	45.7	55	49	44	42
500	L	44.7	49.3	47	44	42
1k	L	45.9	52.3	49	44	42
2k	L	41.4	49.8	45	39	37
4k	L	32.5	50.8	35	29	27
8k	L	23.3	43.2	24	20	18
16k	L	15.7	31.1	16	15	15

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- Period results -

Record number 16 : 25  
 Record start 23:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.3	70.2	62	61	60
Broadband	A	49.5	59	52	48	45
16	L	55.6	61.6	58	55	53
32	L	55.7	67.3	57	55	53
63	L	55.9	65.6	58	55	53
125	L	50	57.5	52	49	47
250	L	46.8	56.8	50	44	42
500	L	46.7	57.1	50	45	43
1k	L	45.2	55.3	48	43	41
2k	L	42.7	55	46	38	35
4k	L	32.7	52.5	34	26	24
8k	L	23.5	42.9	25	17	16
16k	L	16.1	34.1	16	15	14

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- Period results -

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Record number 17 : 25  
 Record start 24:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred Yes  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.2	71.6	64	62	60
Broadband	A	47.2	55.2	49	46	45
16	L	55.7	60.5	58	55	53
32	L	57.1	68.8	59	56	54
63	L	57.9	68.4	61	57	54
125	L	50.6	60.9	52	50	48
250	L	45	51.4	46	45	43
500	L	43.2	51.5	45	43	42
1k	L	43.6	52.3	46	43	41
2k	L	39.6	49.4	43	38	35
4k	L	31.1	50.6	33	29	25
8k	L	21.4	44.5	22	18	16
16k	L	15.7	34.9	15	15	14

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- Period results -

Record number 20 : 25  
 Record start 27:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62.3	68.6	64	62	60
Broadband	A	49.3	60.8	51	47	45
16	L	55.3	58.9	57	55	53
32	L	55.7	62.5	58	55	53
63	L	58.1	66.2	60	57	54
125	L	54.2	64.5	56	52	49
250	L	45.9	55.6	48	45	42
500	L	44	54.1	47	43	42
1k	L	46.1	56.9	48	44	41
2k	L	42.4	58.2	44	40	36
4k	L	30.3	43.4	33	27	25
8k	L	21.1	36.4	23	16	15
16k	L	15	26.8	15	15	14

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- Period results -

**NSA-5: 53 Ayer Road (Industrial Use)****November 22, 2010**

Record number 21 : 25  
 Record start 28:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	61.6	66.3	63	61	60
Broadband	A	48.6	54.9	51	48	46
16	L	55.1	58.3	57	55	53
32	L	55.9	62.3	58	56	53
63	L	57.2	64.7	60	56	53
125	L	51.2	59.3	53	51	48
250	L	46.5	57.5	50	45	43
500	L	45.2	51.9	47	44	43
1k	L	45.2	52.5	48	44	42
2k	L	40.6	46.8	44	39	37
4k	L	29.7	39	33	28	25
8k	L	21.5	39.7	23	17	15
16k	L	15.9	31	17	15	14

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- Period results -

Record number 24 : 25  
 Record start 31:01.0  
 Period time 1 min  
 Periods too short for LNs No  
 Overload occurred No  
 Overload %time 0  
 Low battery occurred No  
 Pause was used No  
 Paused all the time No

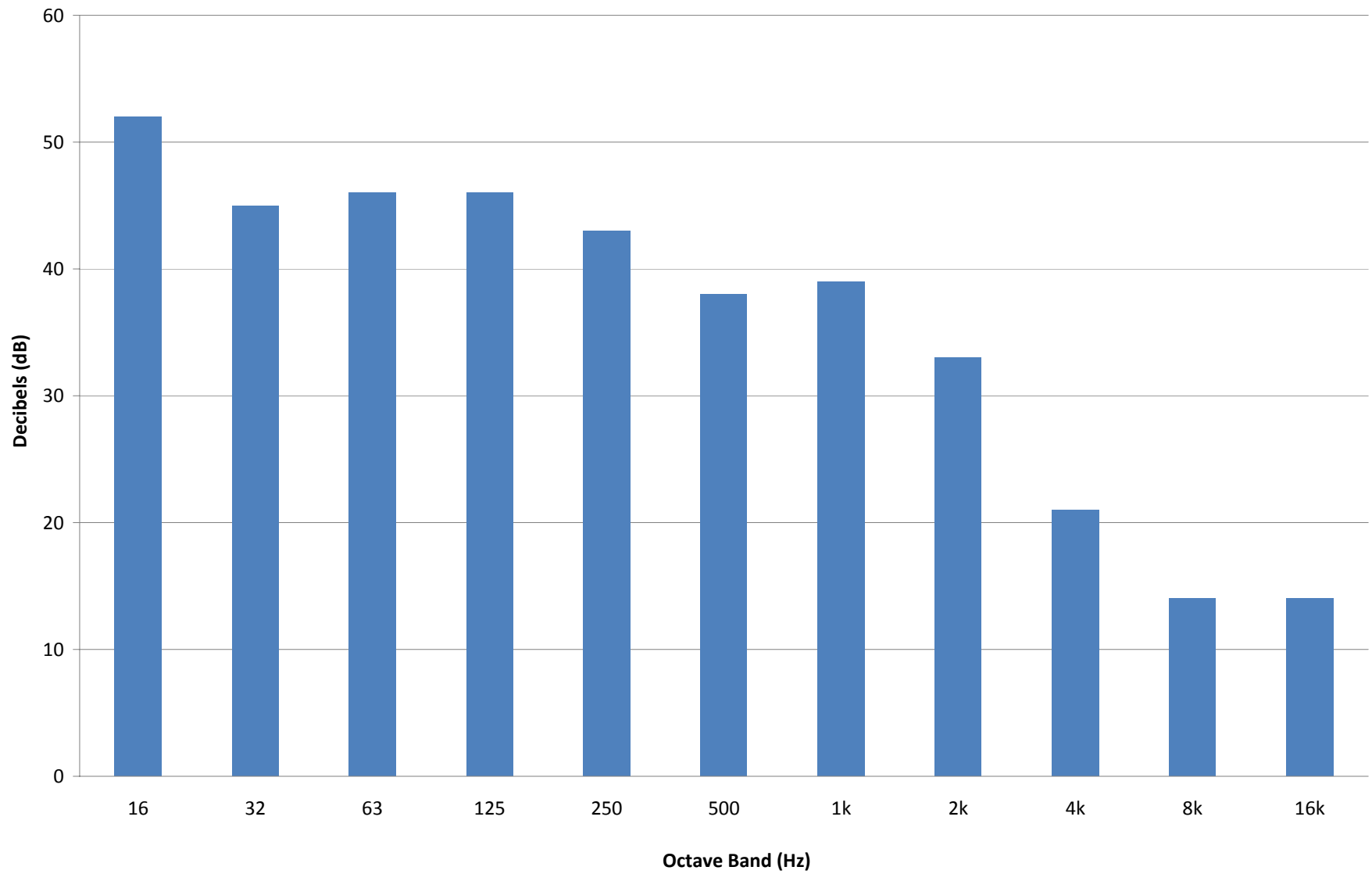
Band (Hz)	Fw	Leq (dB)	SPLMAX F (dB)	LN10.0% F (dB)	LN50.0% F (dB)	LN90.0% F (dB)
Broadband	L	62	69.4	64	61	59
Broadband	A	51.1	61.2	54	47	46
16	L	54.7	58.1	56	55	53
32	L	55	59.2	57	55	53
63	L	58.5	68.8	62	56	52
125	L	51.4	58.1	54	50	48
250	L	46	54.4	48	44	43
500	L	46.5	55.5	49	44	43
1k	L	48.3	59.1	52	44	42
2k	L	43.8	55.1	47	38	36
4k	L	33.5	46	35	28	25
8k	L	25	39.1	27	19	17
16k	L	16.6	28.6	17	15	15

**APPENDIX B**

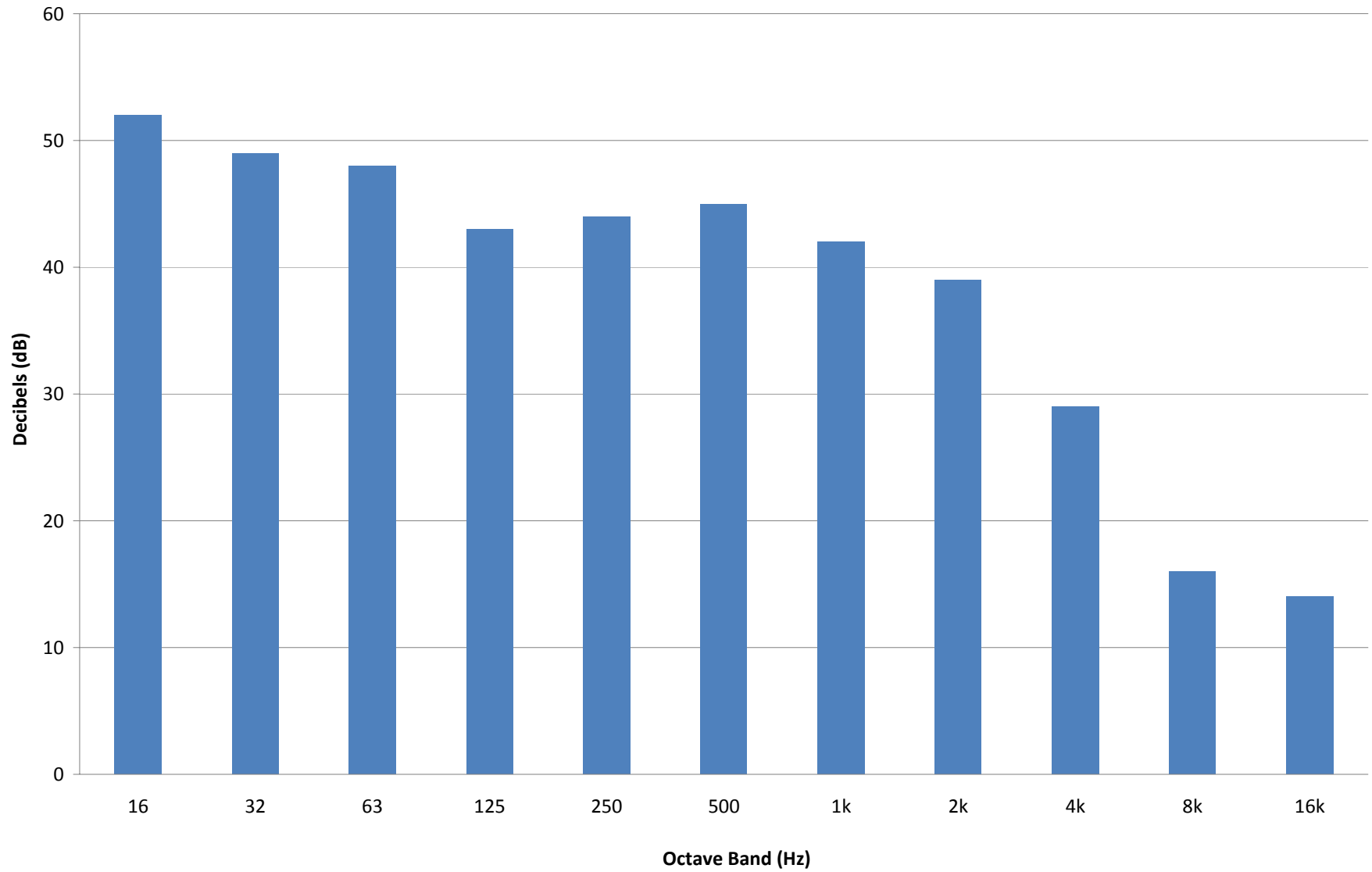
**OCTAVE BAND SOUND GRAPHS**

**NOVEMBER 15, 2010 OCTAVE BAND GRAPHS**

**NSA-7 3 Whitetail Way L<sub>90</sub> Octave Band Levels**  
**November 15, 2010 at 8:12 a.m.**

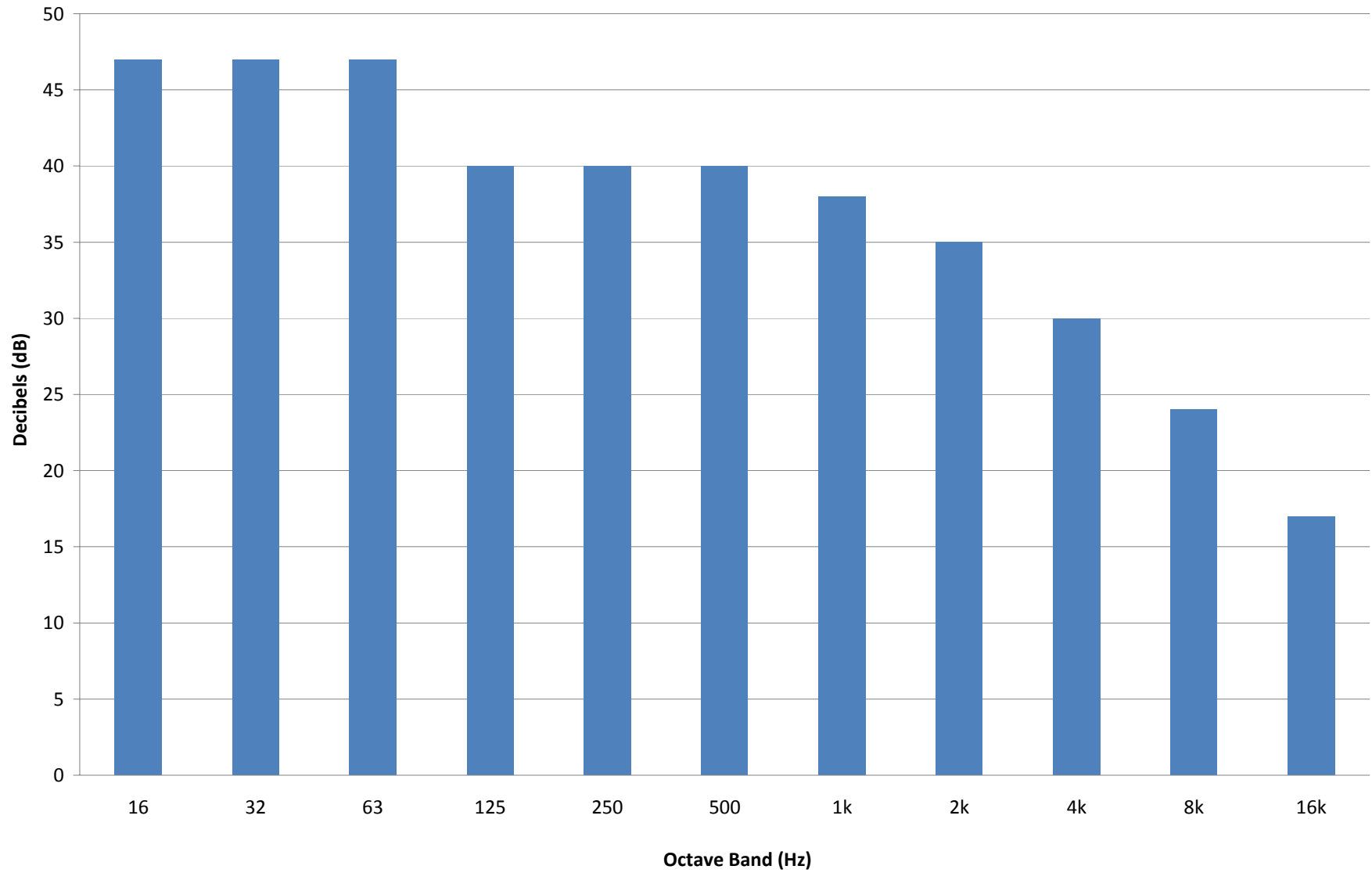


**NSA-1 11 Whitetail Way L<sub>90</sub> Octave Band Levels**  
**November 15, 2010 at 8:42 a.m.**

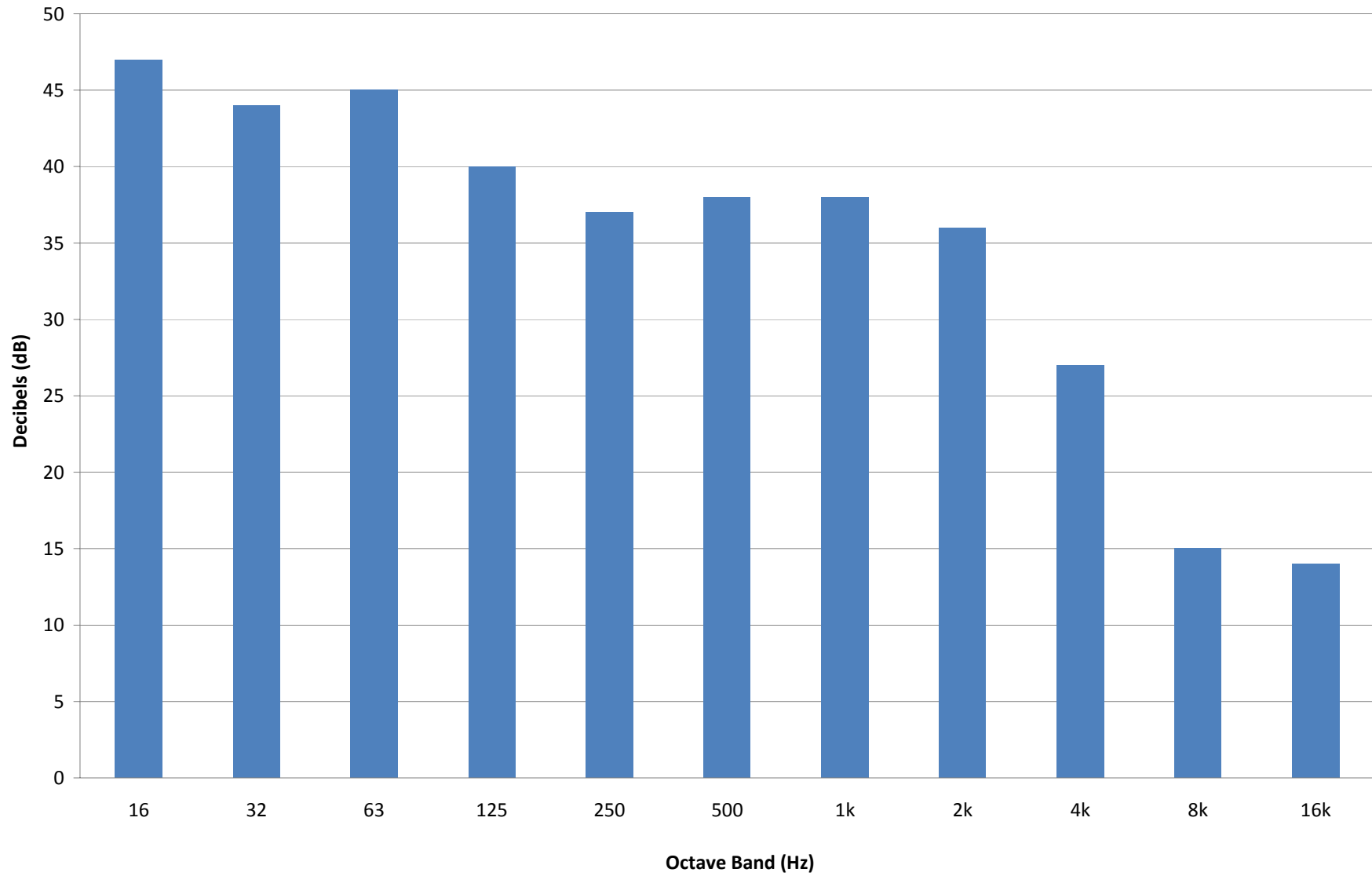


# NSA-3 78 Spectacle Pond Road L<sub>90</sub> Octave Band Levels

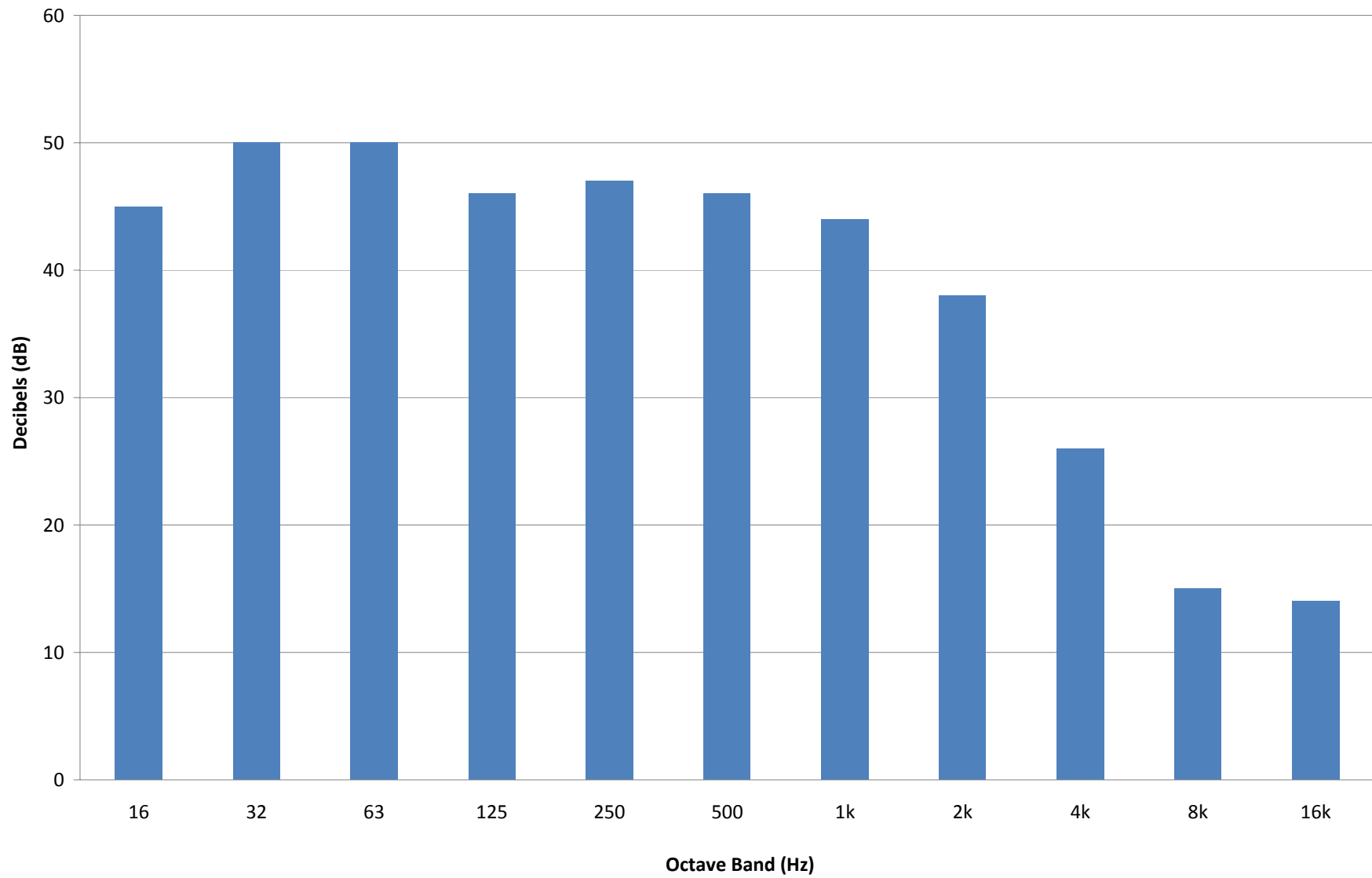
November 15, 2010 at 1:47 p.m.



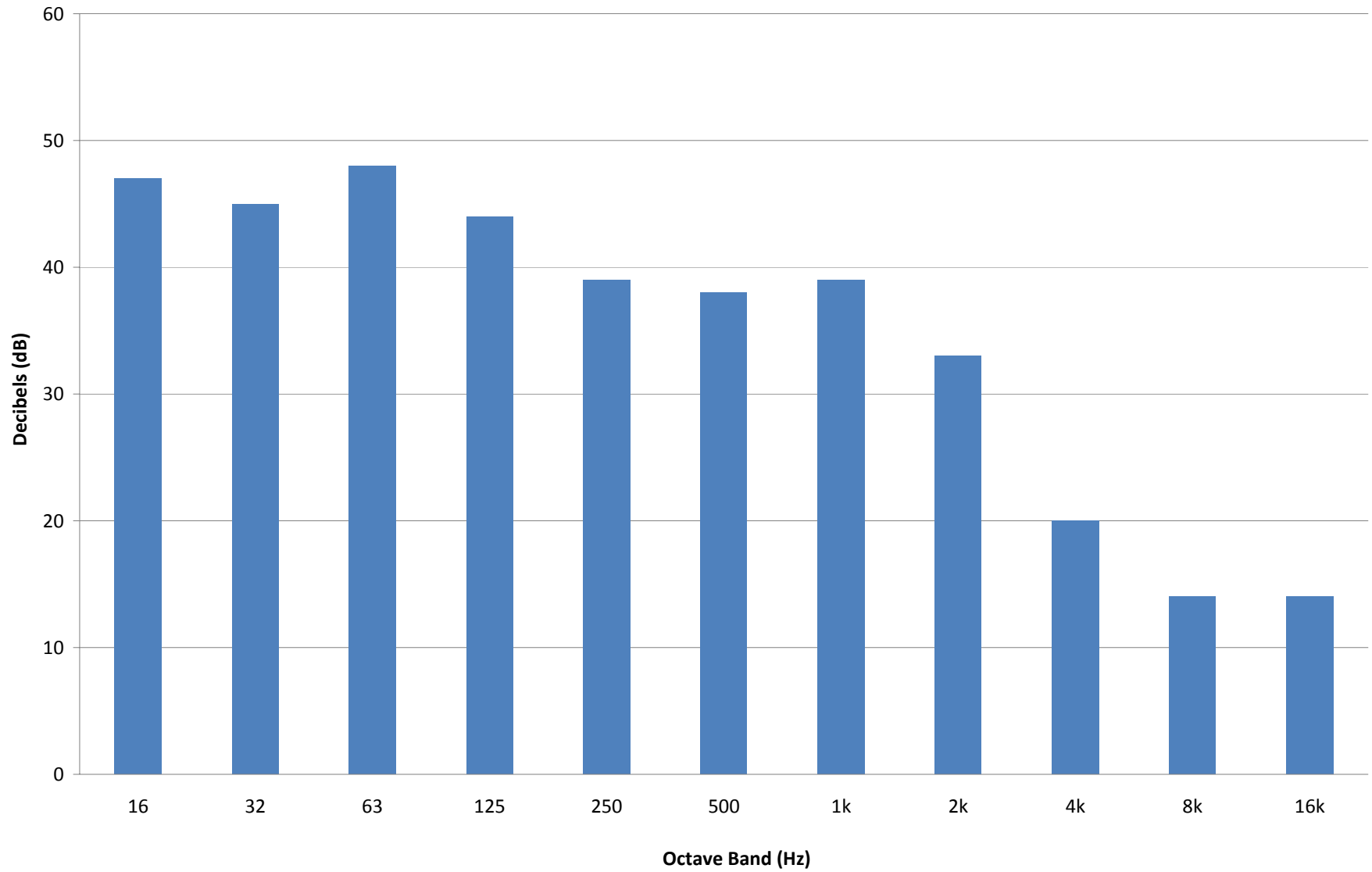
**PB-1 Northern Property Boundary L<sub>90</sub> Octave Band Levels**  
**November 15, 2010 at 2:40 p.m.**



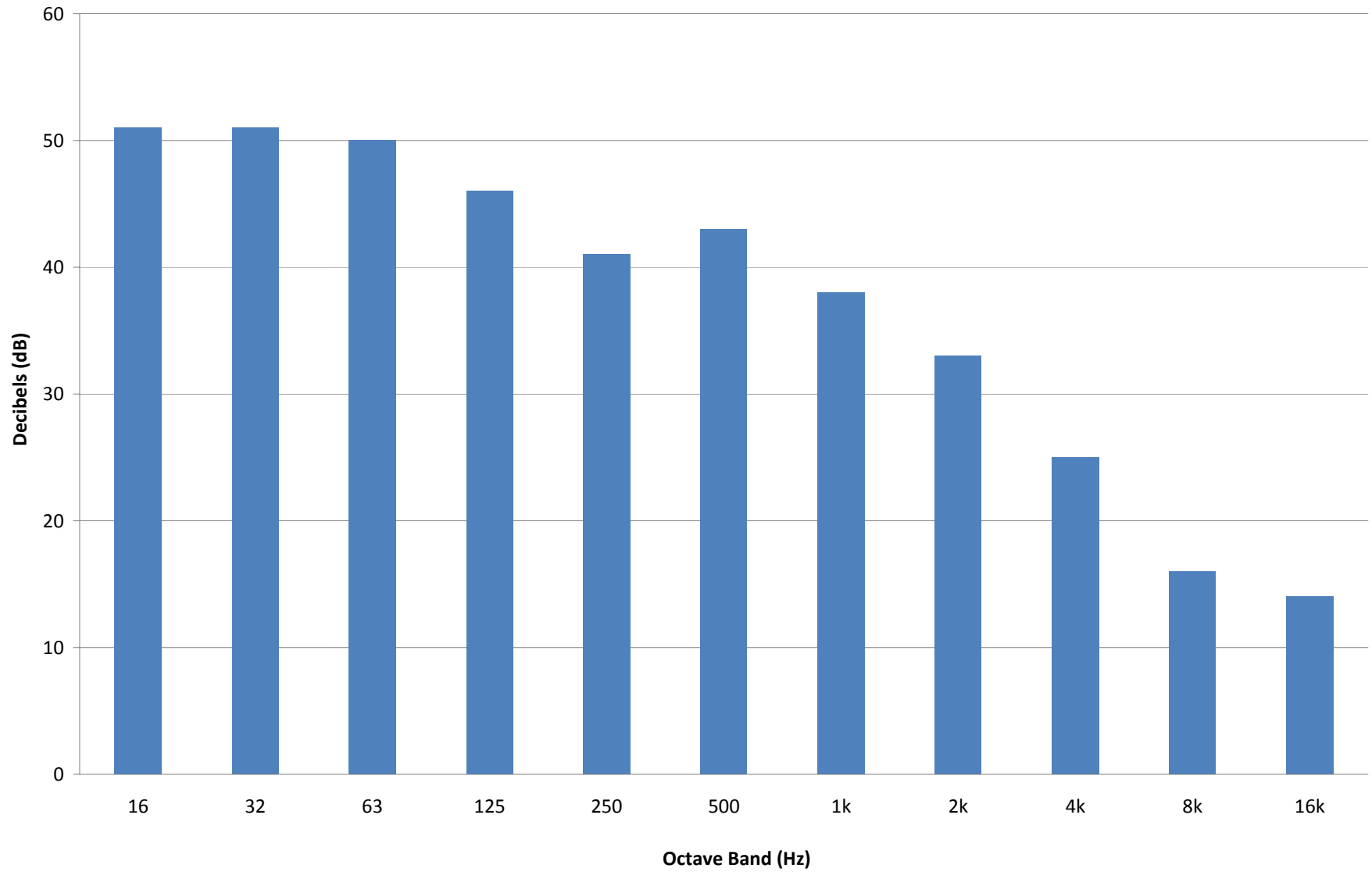
**NSA-6 38 Spectacle Pond Road L<sub>90</sub> Octave Band Levels**  
**November 15, 2010 at 9:13 a.m.**



**NSA-2 183 New Estate Road L<sub>90</sub> Octave Band Levels**  
**November 15, 2010 at 9:47 a.m.**

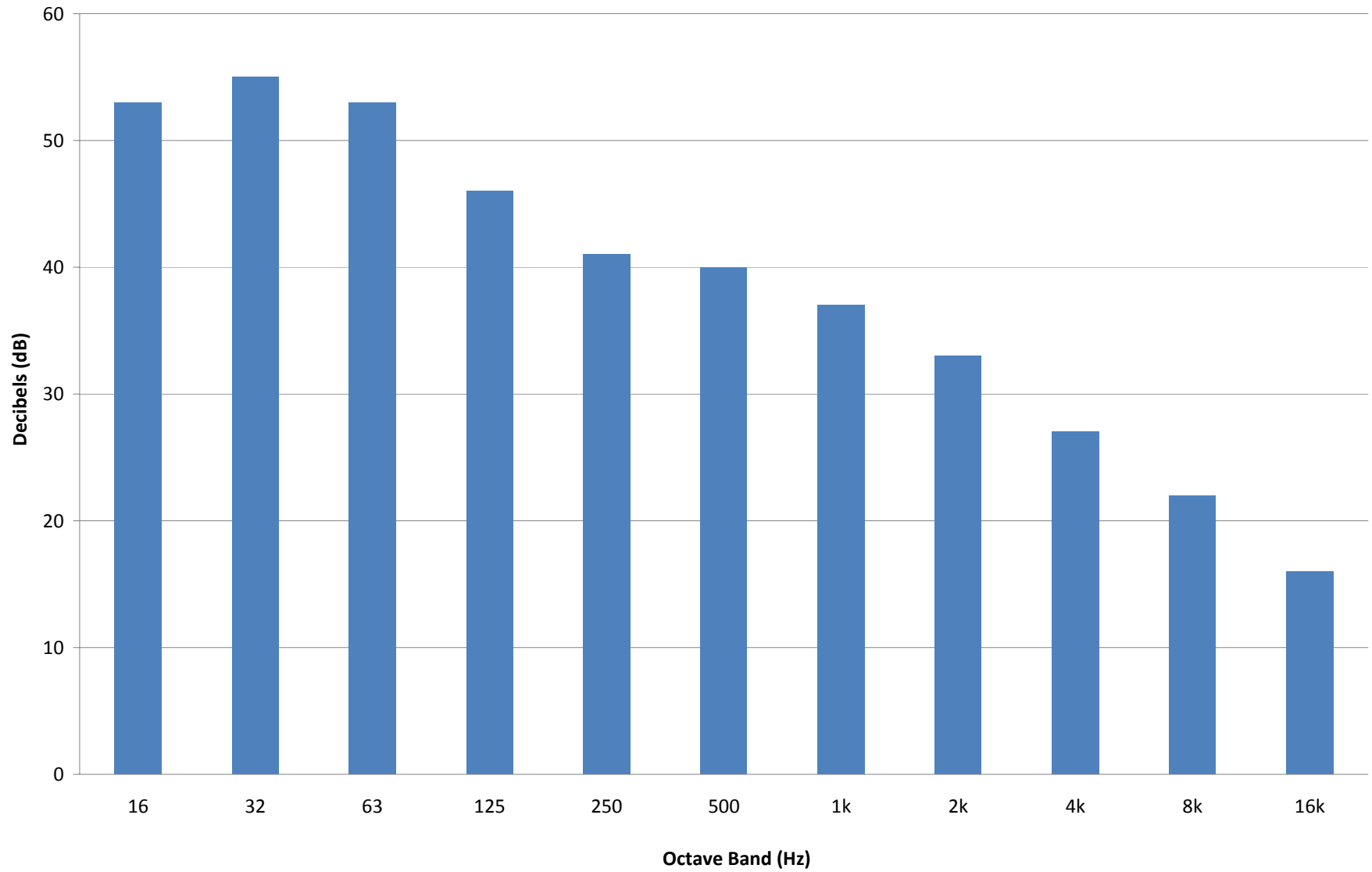


**NSA-4 Ayer Road (Industrial Use) L<sub>90</sub> Octave Band Levels  
November 15, 2010 at 10:15 a.m.**



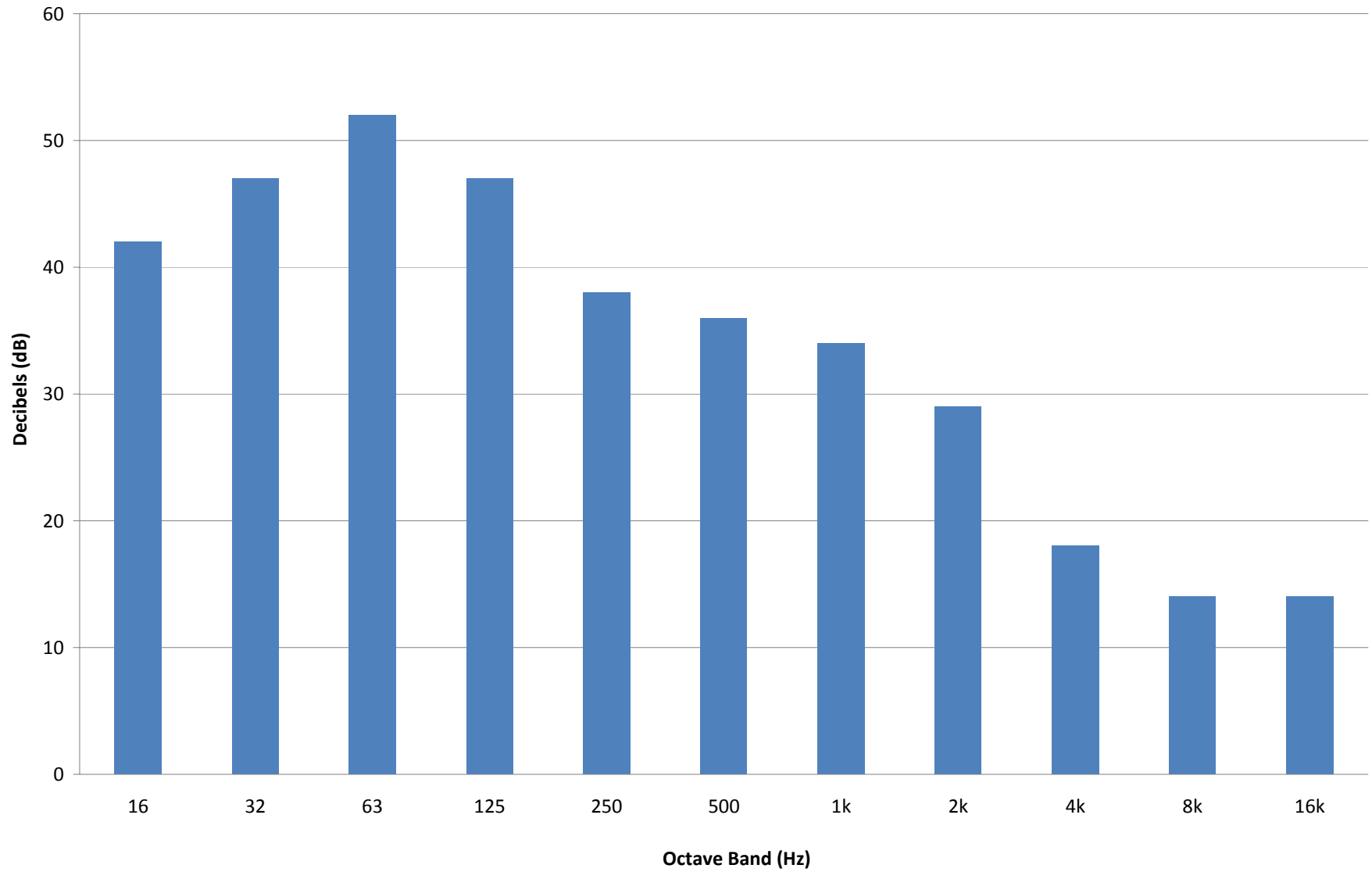
# PB-2 Northeast Property Boundary L<sub>90</sub> Octave Band Levels

November 15, 2010 at 10:54 a.m.

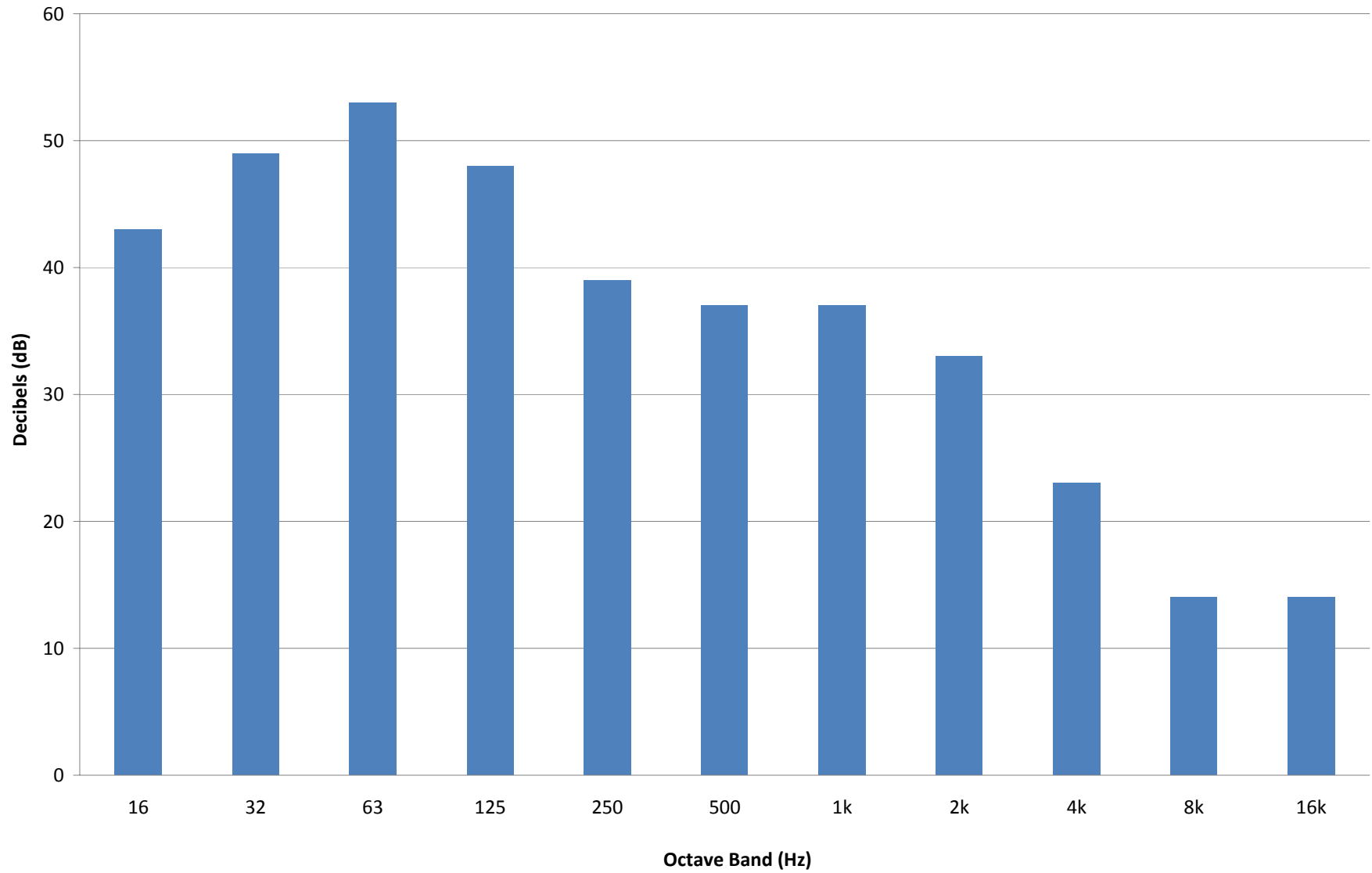


# PB-3 Southeast Property Boundary L<sub>90</sub> Octave Band Levels

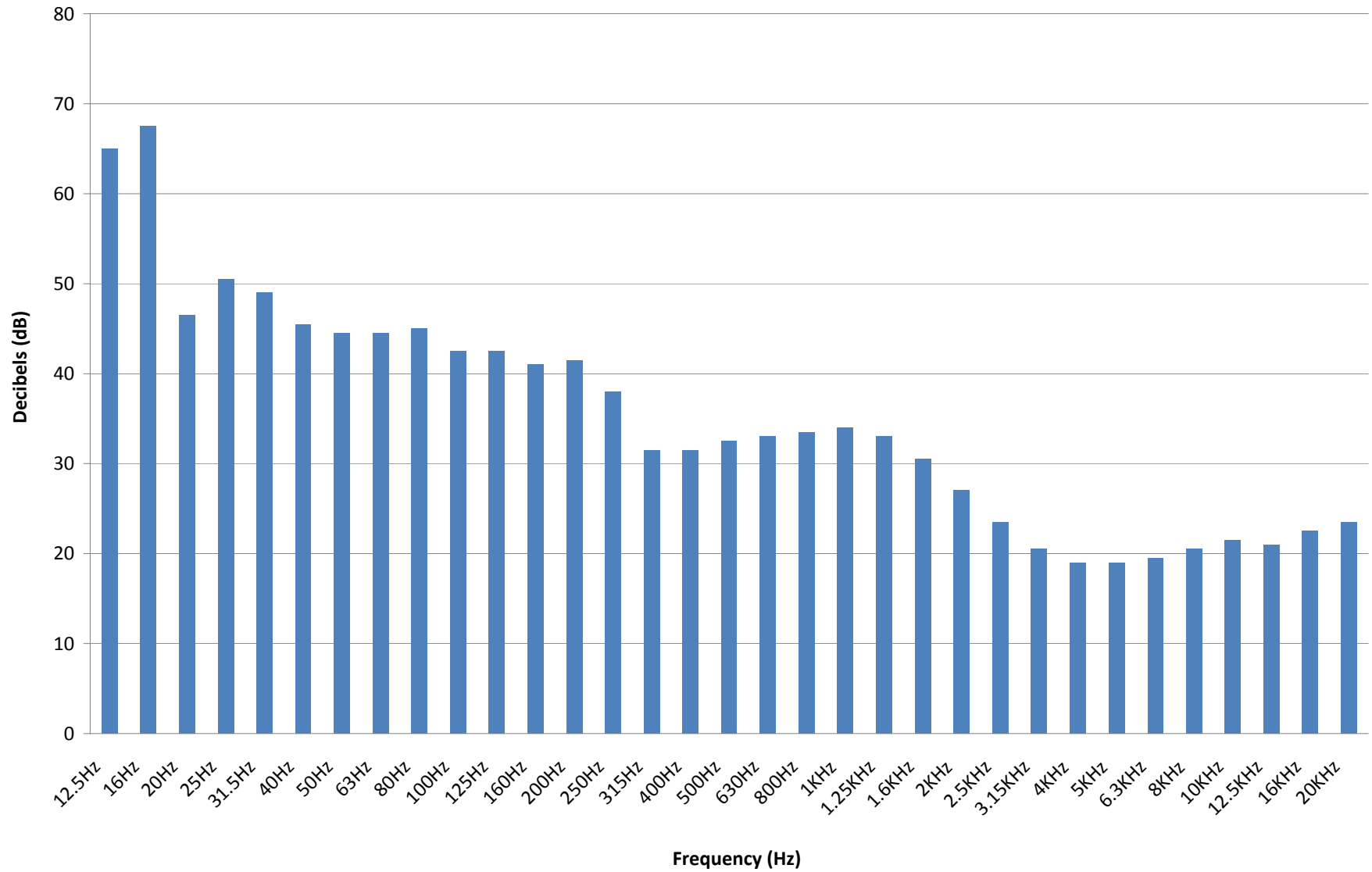
## November 15, 2010 at 12:25 p.m.



**NSA-5 53 Ayer Road (Industrial Use) L<sub>90</sub> Octave Band Levels**  
**November 15, 2010 at 12:58 p.m.**

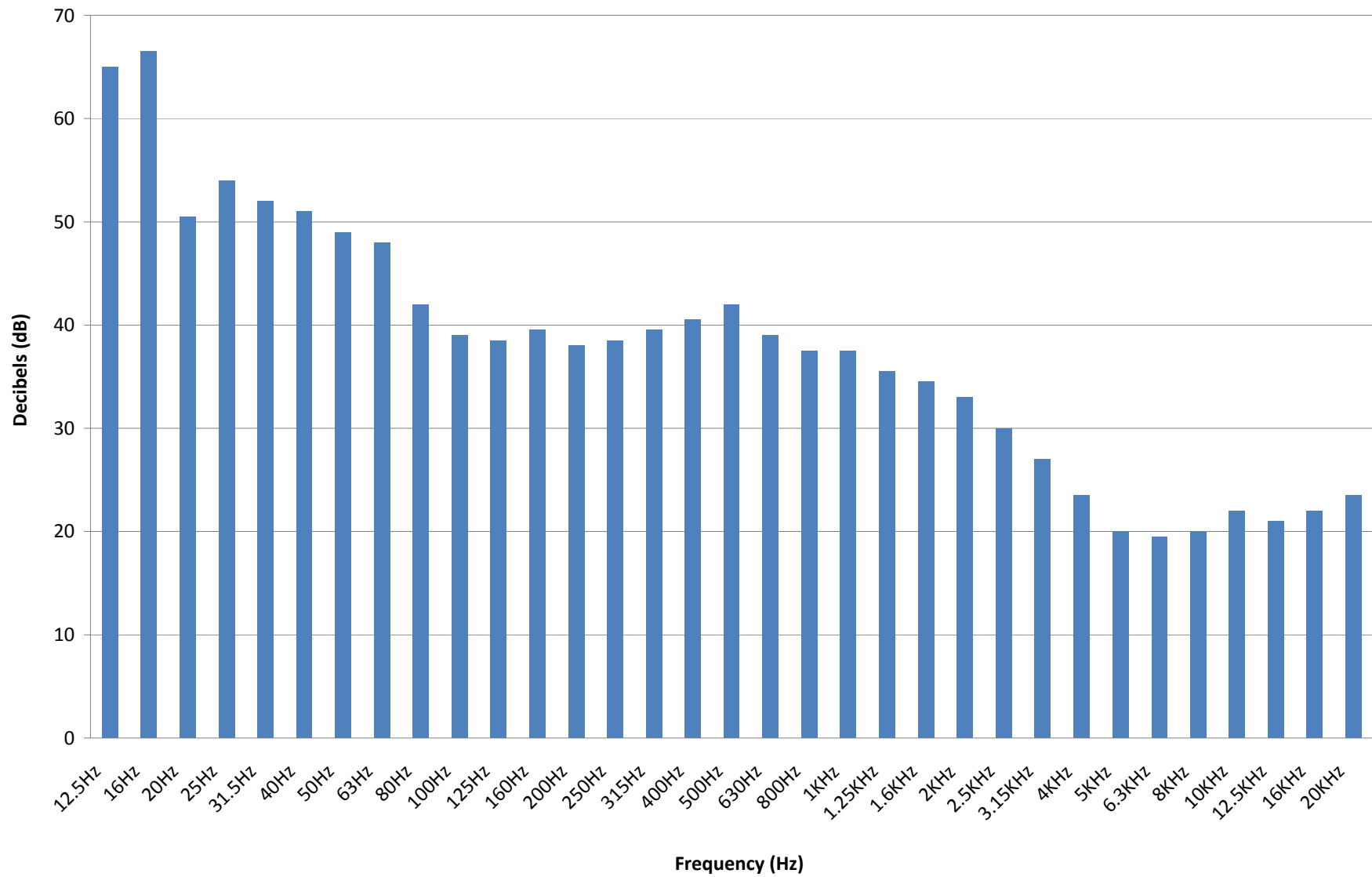


**L<sub>90</sub> 1/3 Octave Bands at NSA-7 3 Whitetail Way  
November 15, 2010 at 8:14 a.m.**

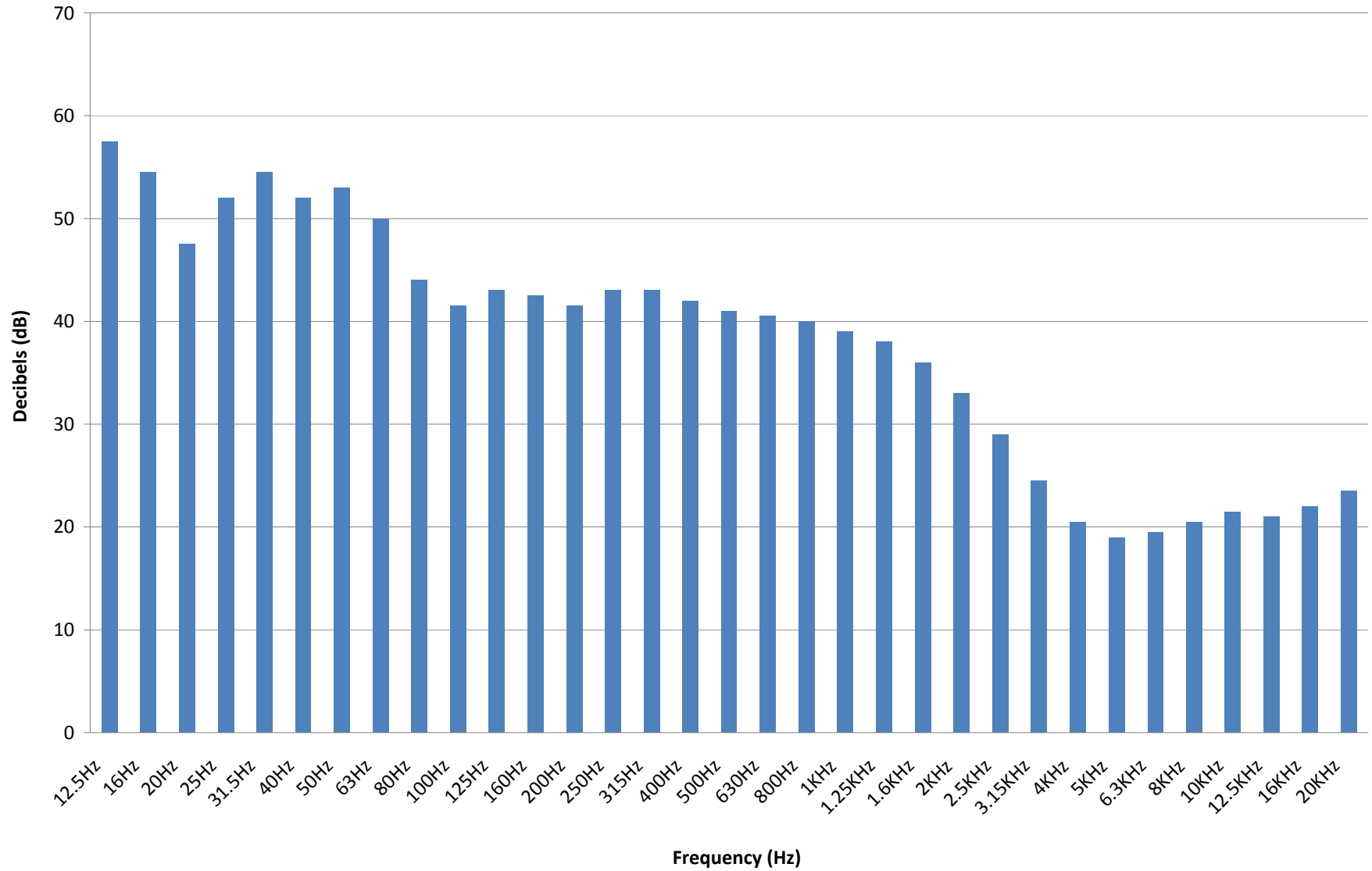


# L<sub>90</sub> 1/3 Octave Bands at NSA-1 11 Whitetail Way

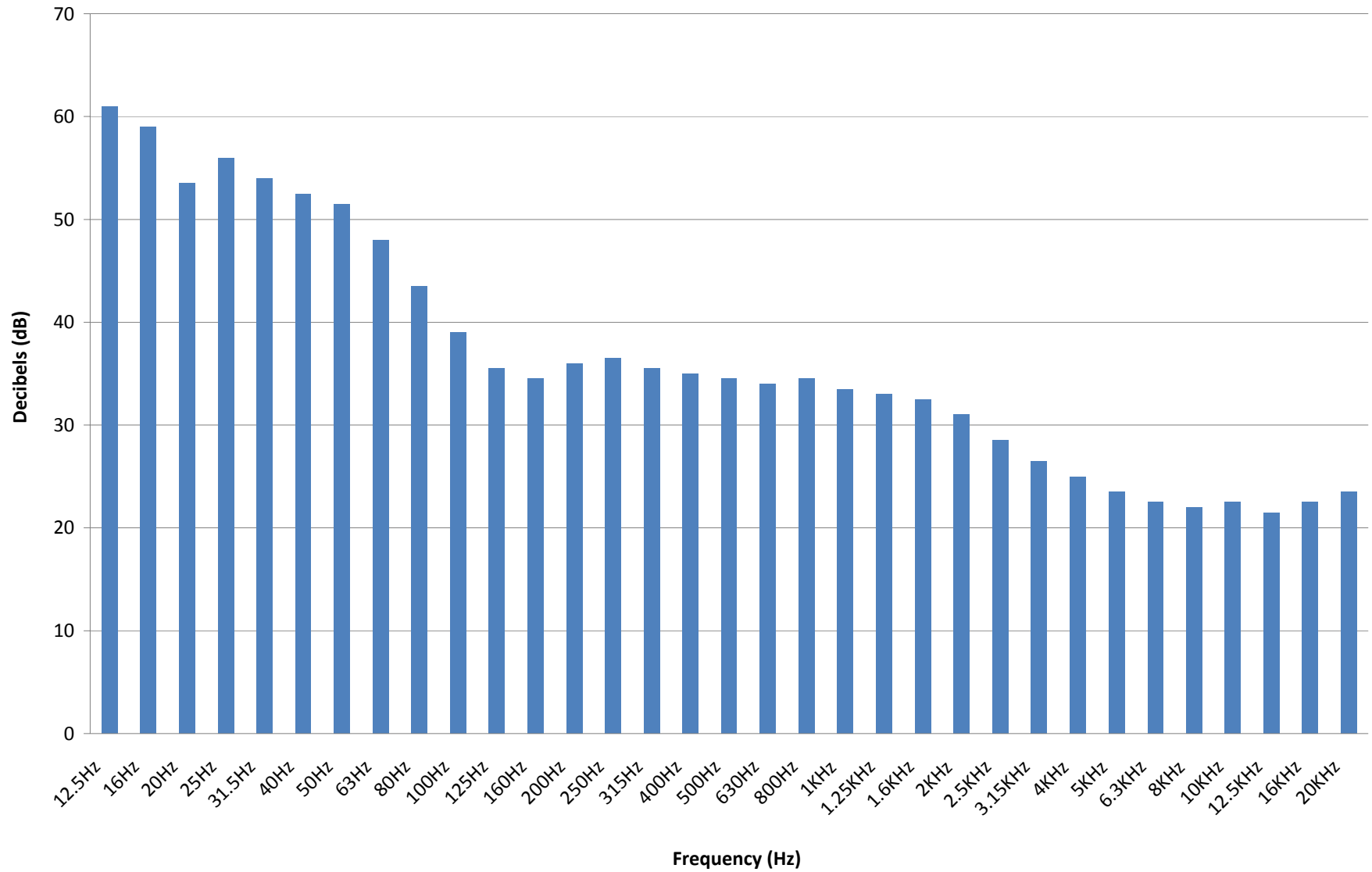
November 15, 2010 at 8:44 a.m.



**L<sub>90</sub> 1/3 Octave Bands at NSA-6 38 Spectacle Pond Road  
November 15, 2010 at 9:14 a.m.**

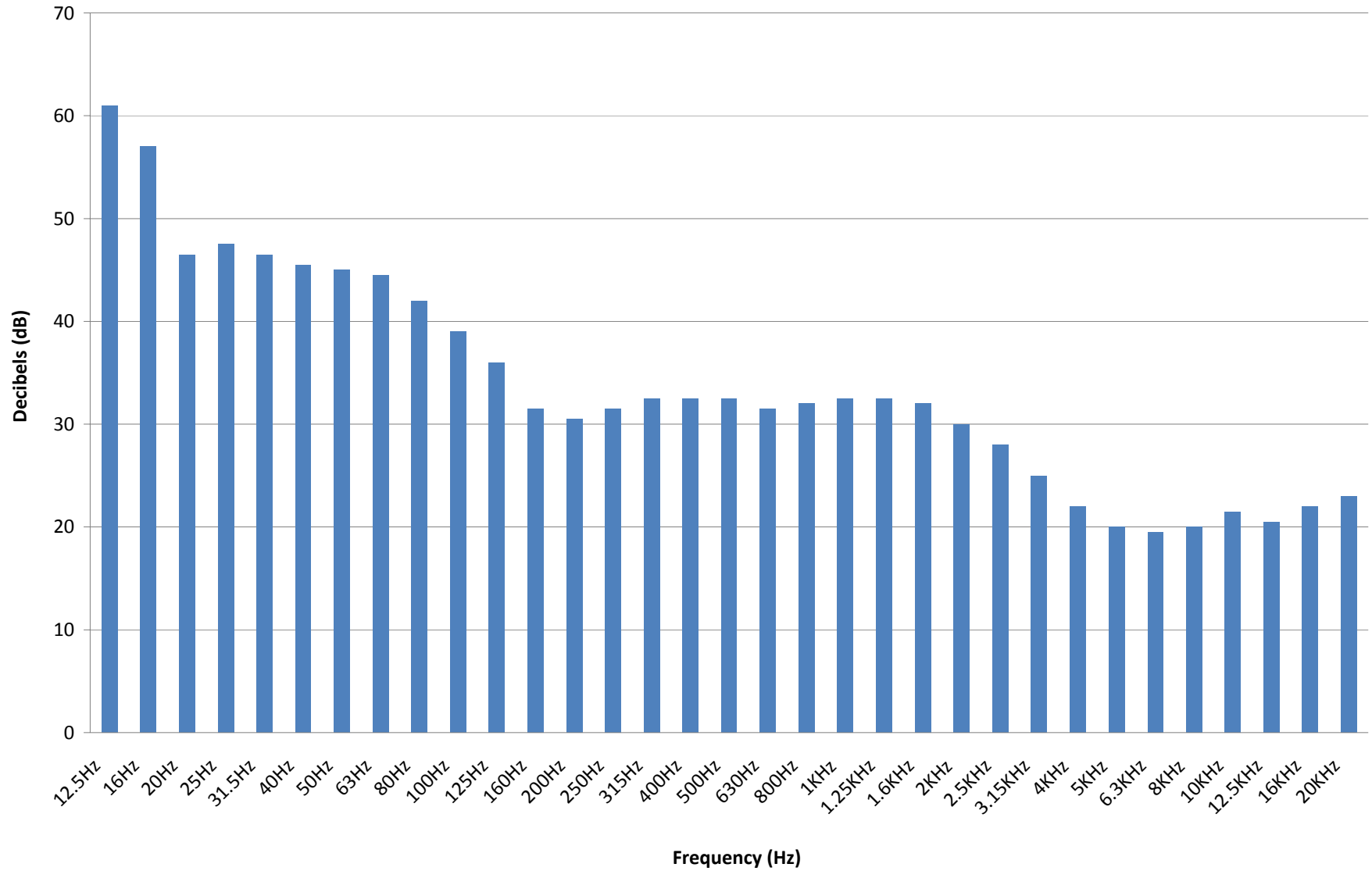


**L<sub>90</sub> 1/3 Octave Bands at NSA-3 78 Spectacle Pond Road  
November 15, 2010 at 2:03 p.m.**

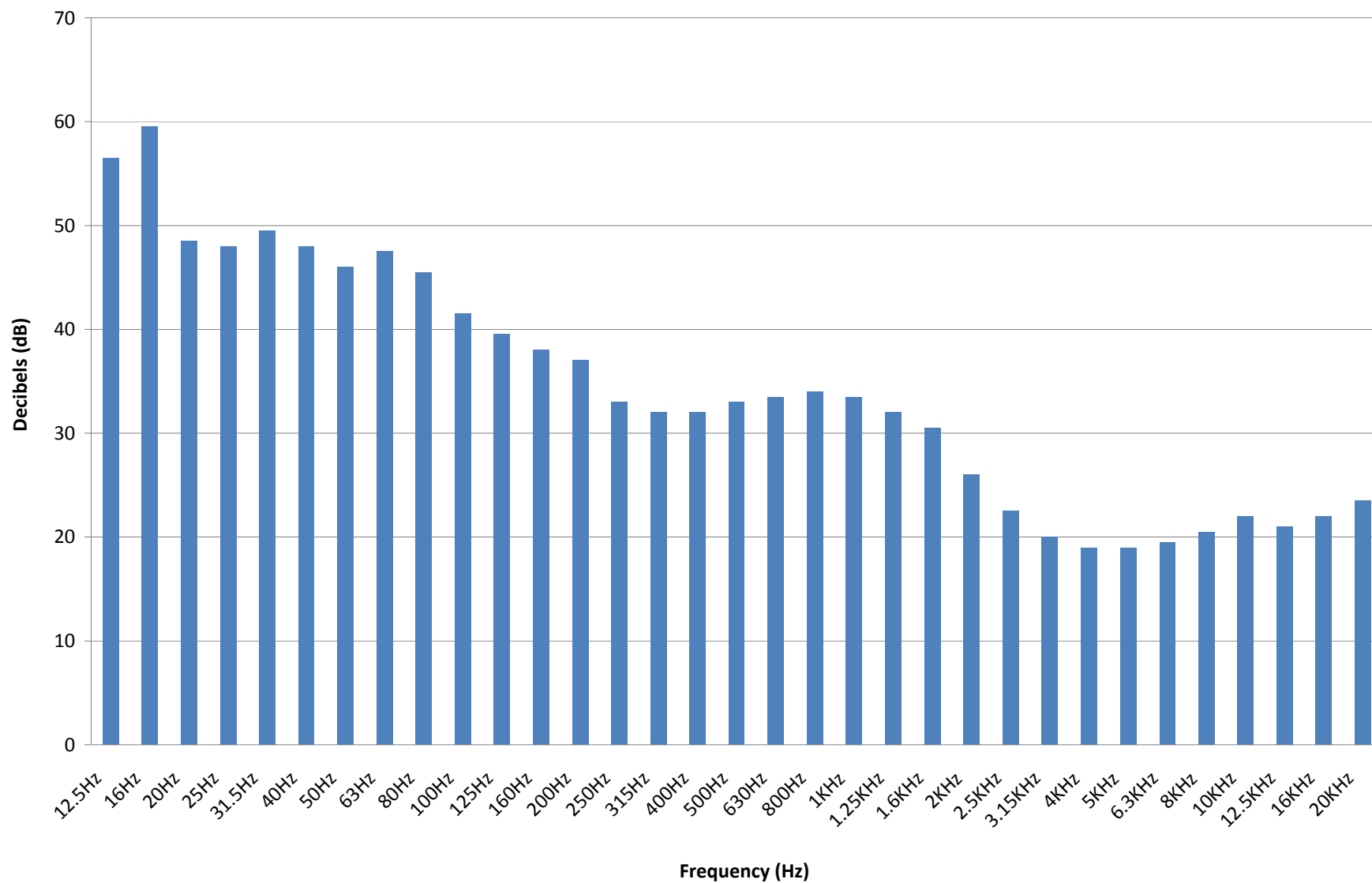


# L<sub>90</sub> 1/3 Octave Bands at PB-1 Northern Property Boundary

November 15, 2010 at 2:41 p.m.

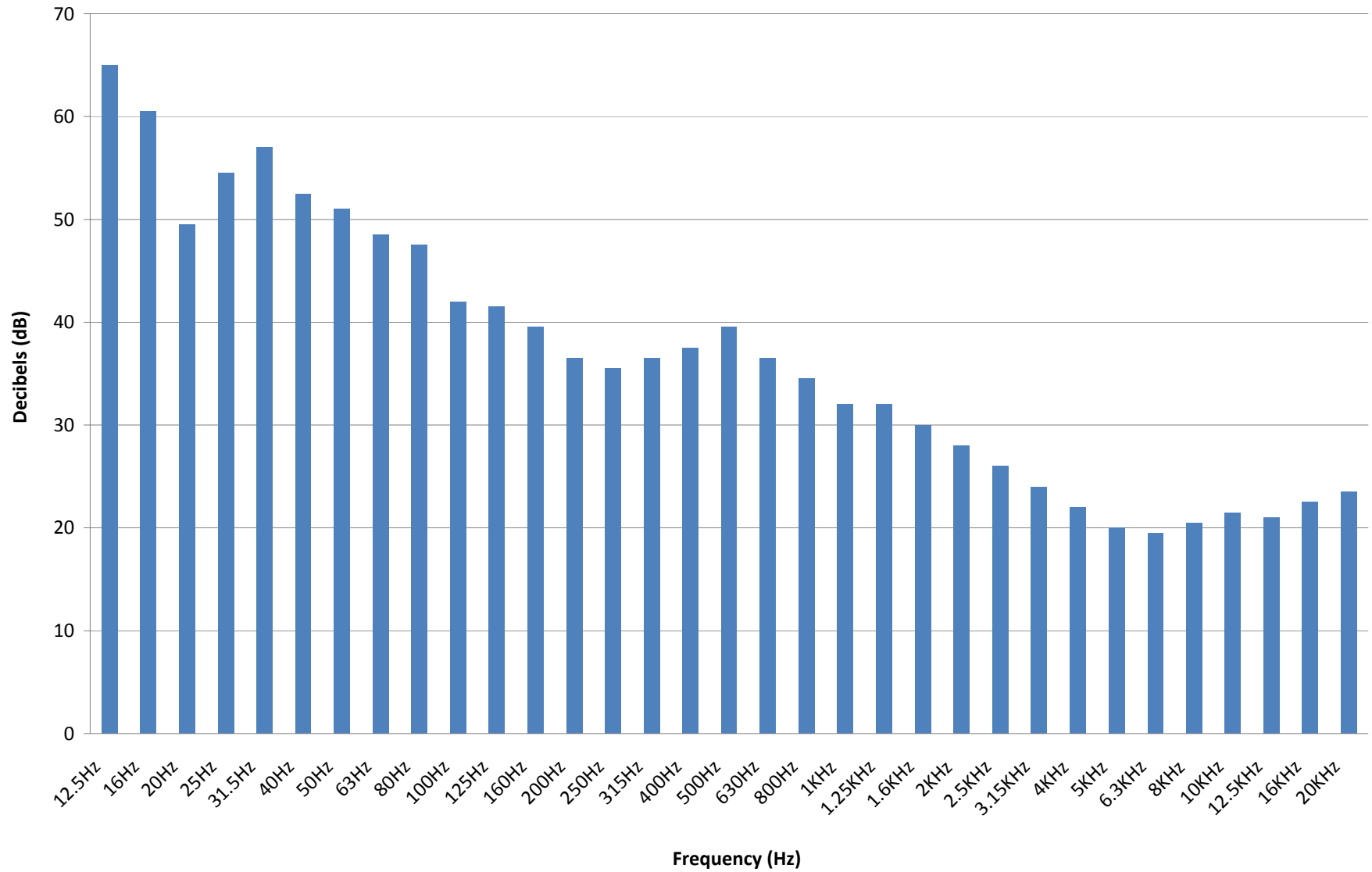


**L<sub>90</sub> 1/3 Octave Bands at NSA-2 183 New Estate Road  
November 15, 2010 at 9:48 a.m.**



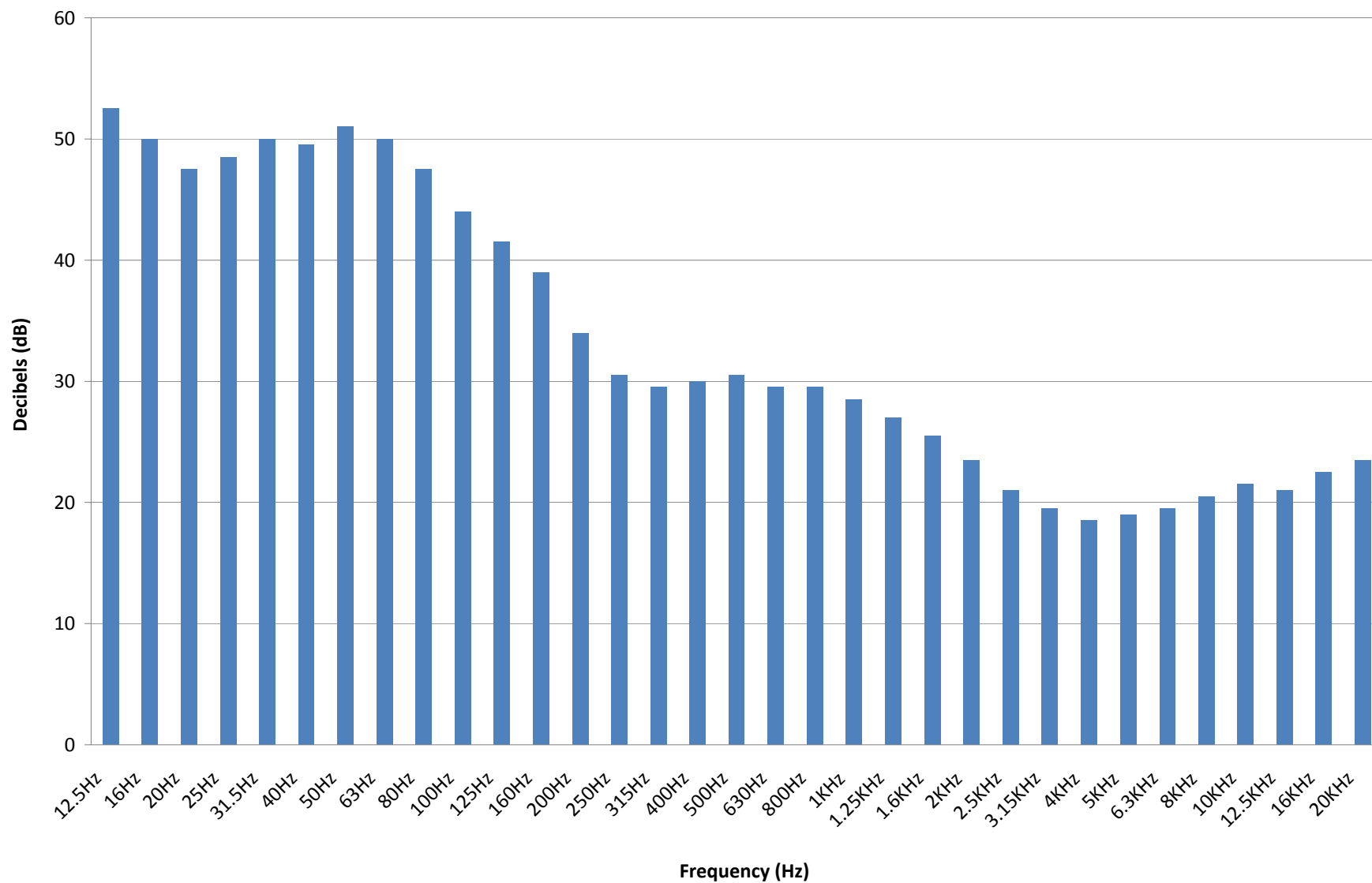
# L<sub>90</sub> 1/3 Octave Bands at NSA-4 Ayer Road (Industrial Use)

November 15, 2010 at 10:31 a.m.



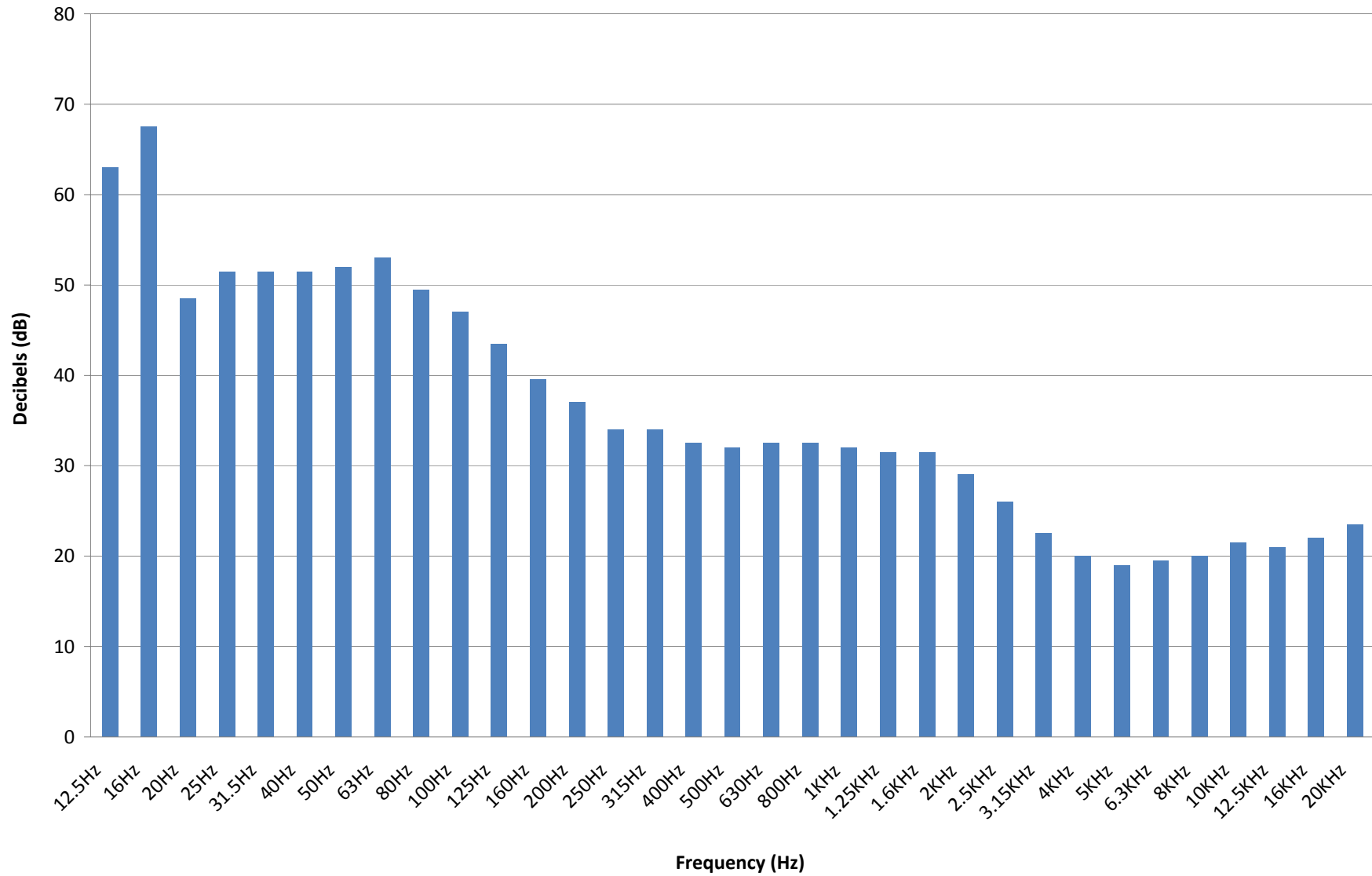
# L<sub>90</sub> 1/3 Octave Bands at PB-3 Southeast Property Boundary

November 15, 2010 at 12:27 p.m.



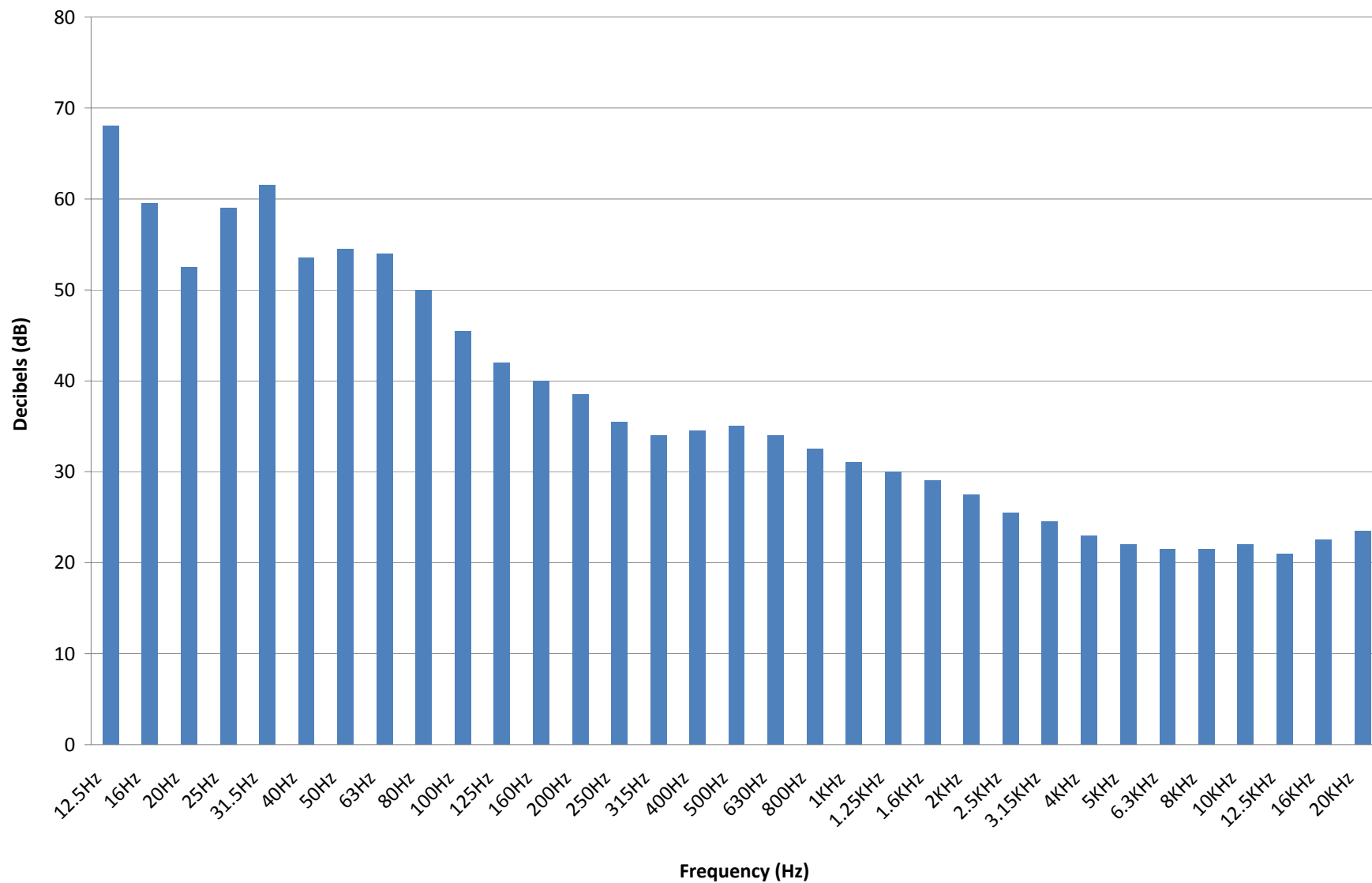
# L<sub>90</sub> 1/3 Octave Bands at NSA-5 53 Ayer Road (Industrial Use)

November 15, 2010 at 1:14 p.m.



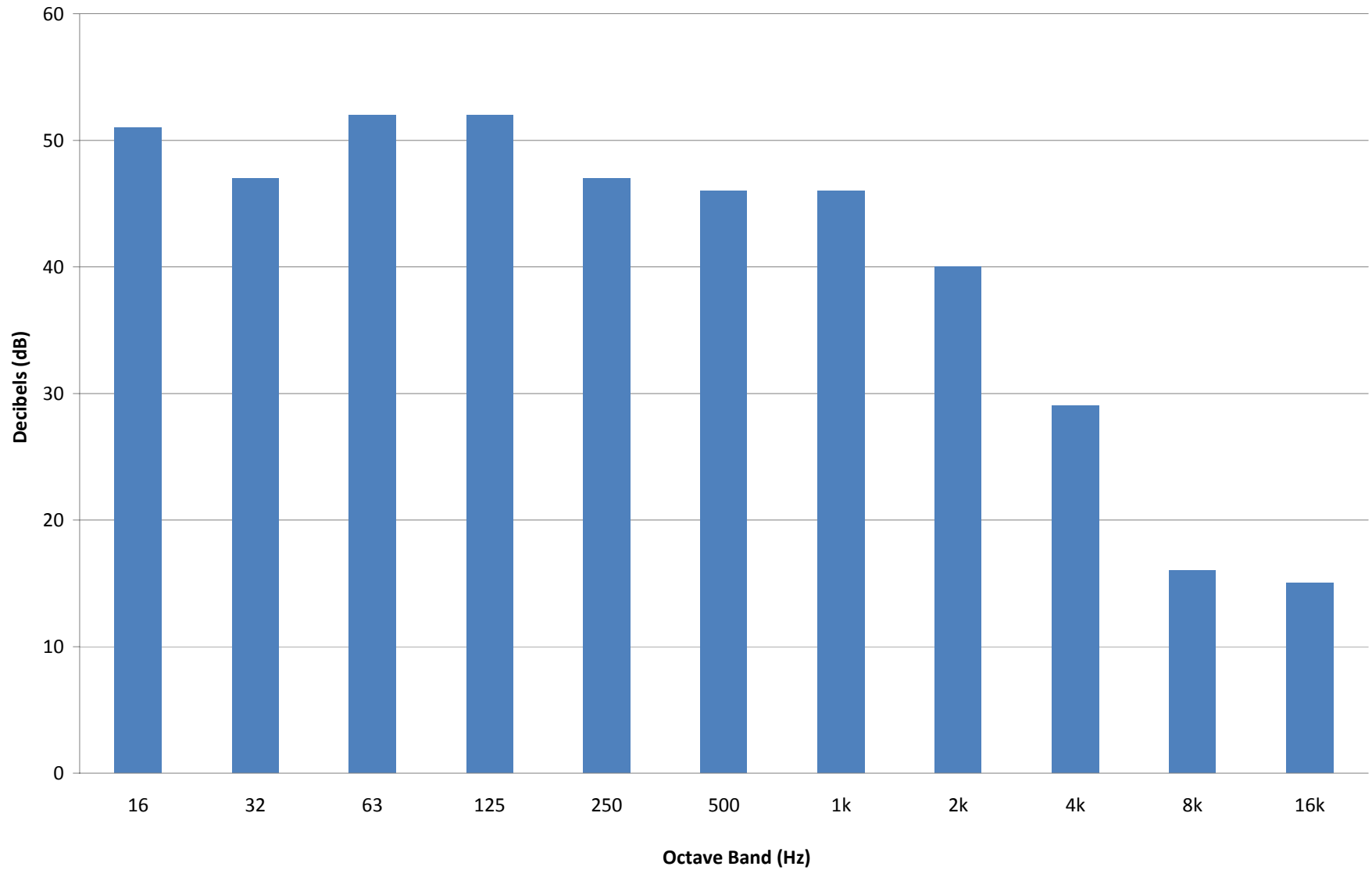
# L<sub>90</sub> 1/3 Octave Bands at PB-2 Northeast Property Boundary

## November 15, 2010 at 10:55 a.m.

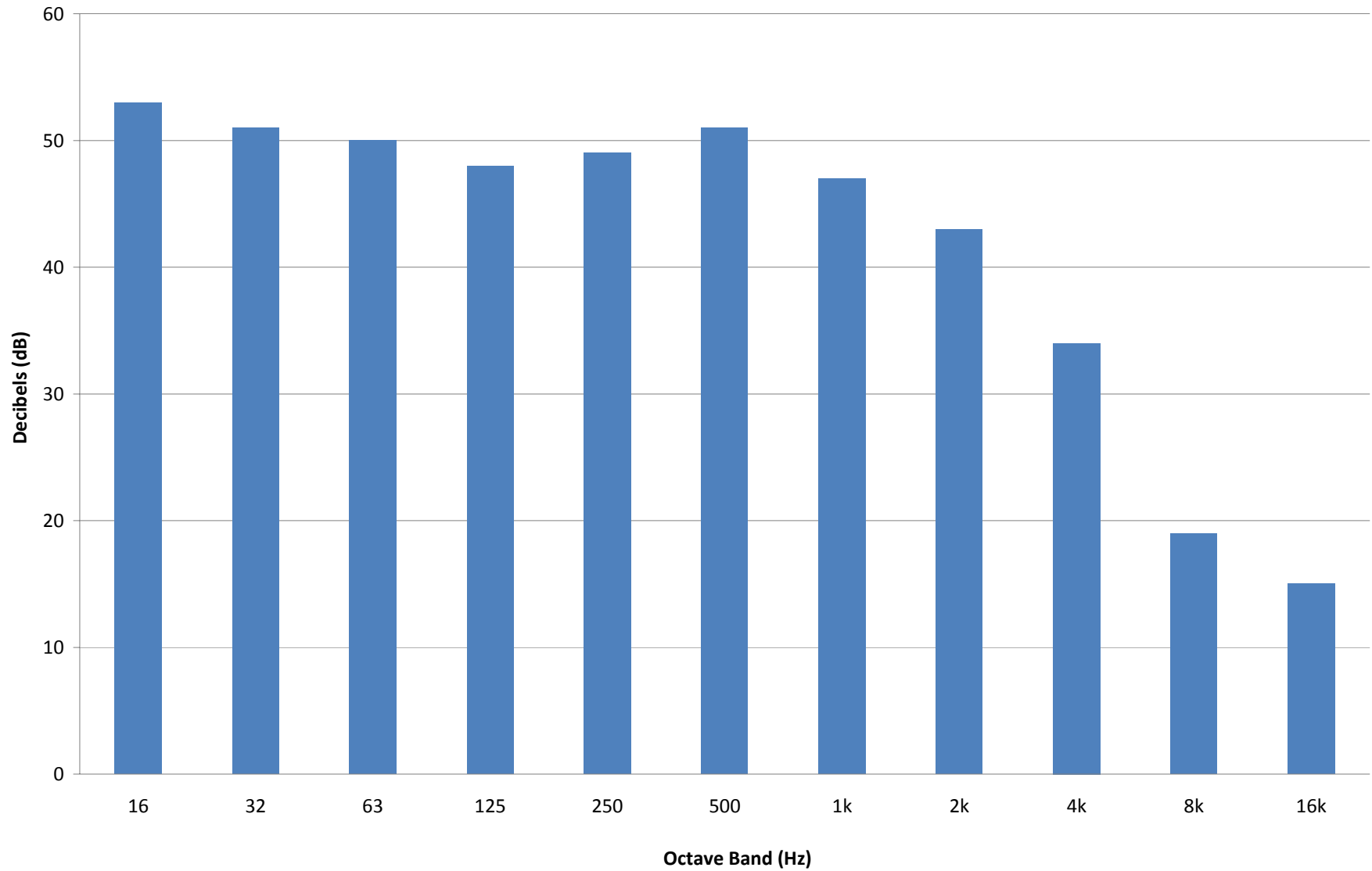


**NOVEMBER 22 AND 23, 2010 OCTAVE BAND GRAPHS**

**NSA-7 Between 3 and 5 Whitetail Way L<sub>90</sub> Octave Band Levels**  
**November 22, 2010 at 3:15 p.m.**

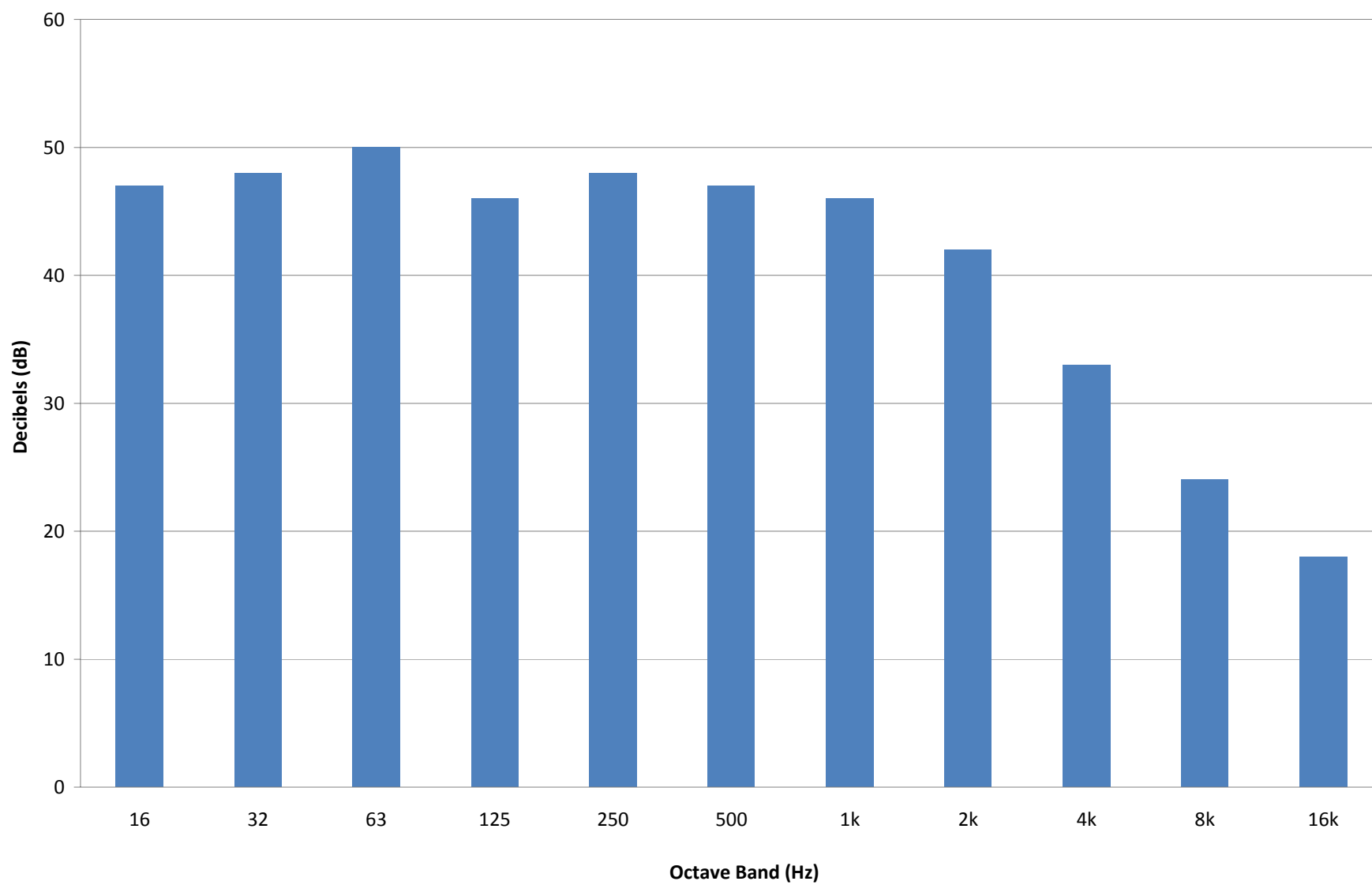


# NSA-1 11 Whitetail Way L<sub>90</sub> Octave Band Levels November 22, 2010 at 4:00 p.m.

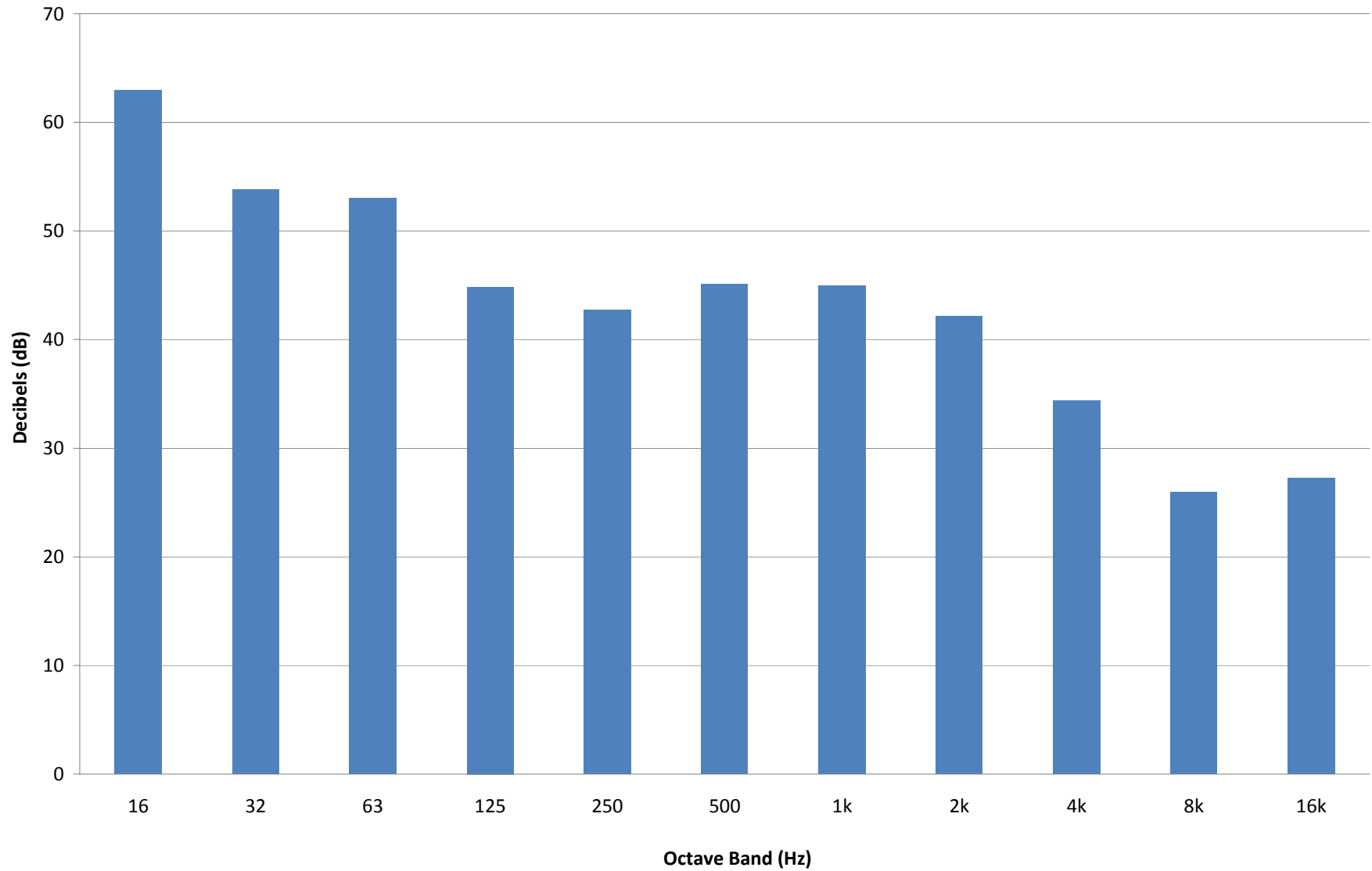


# NSA-3 78 Spectacle Pond Road L<sub>90</sub> Octave Band Levels

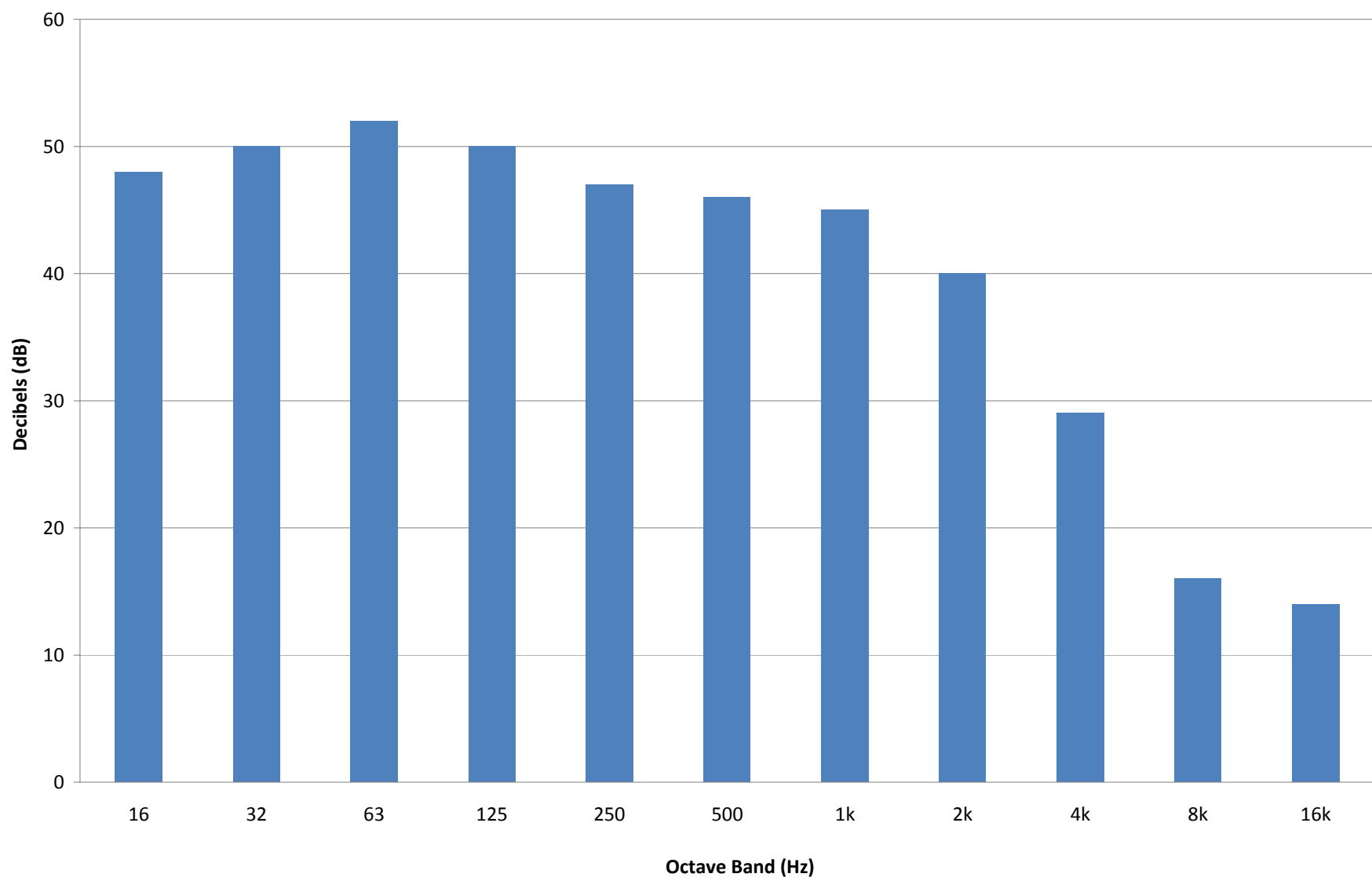
November 22, 2010 at 12:37 p.m.



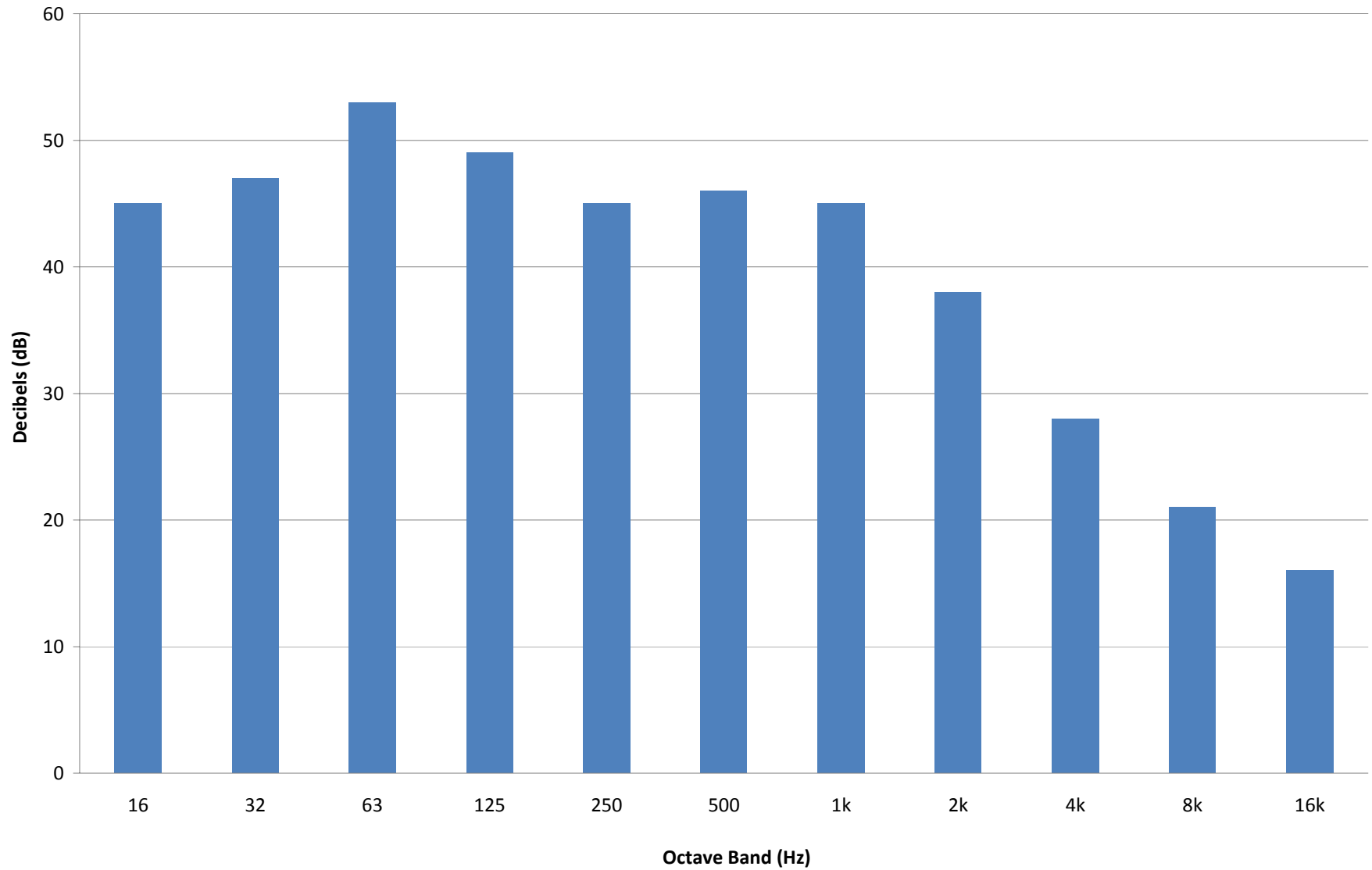
**PB-1 Northern Property Boundary L<sub>90</sub> Octave Band Levels**  
**November 22, 2010 at 1:25 p.m.**



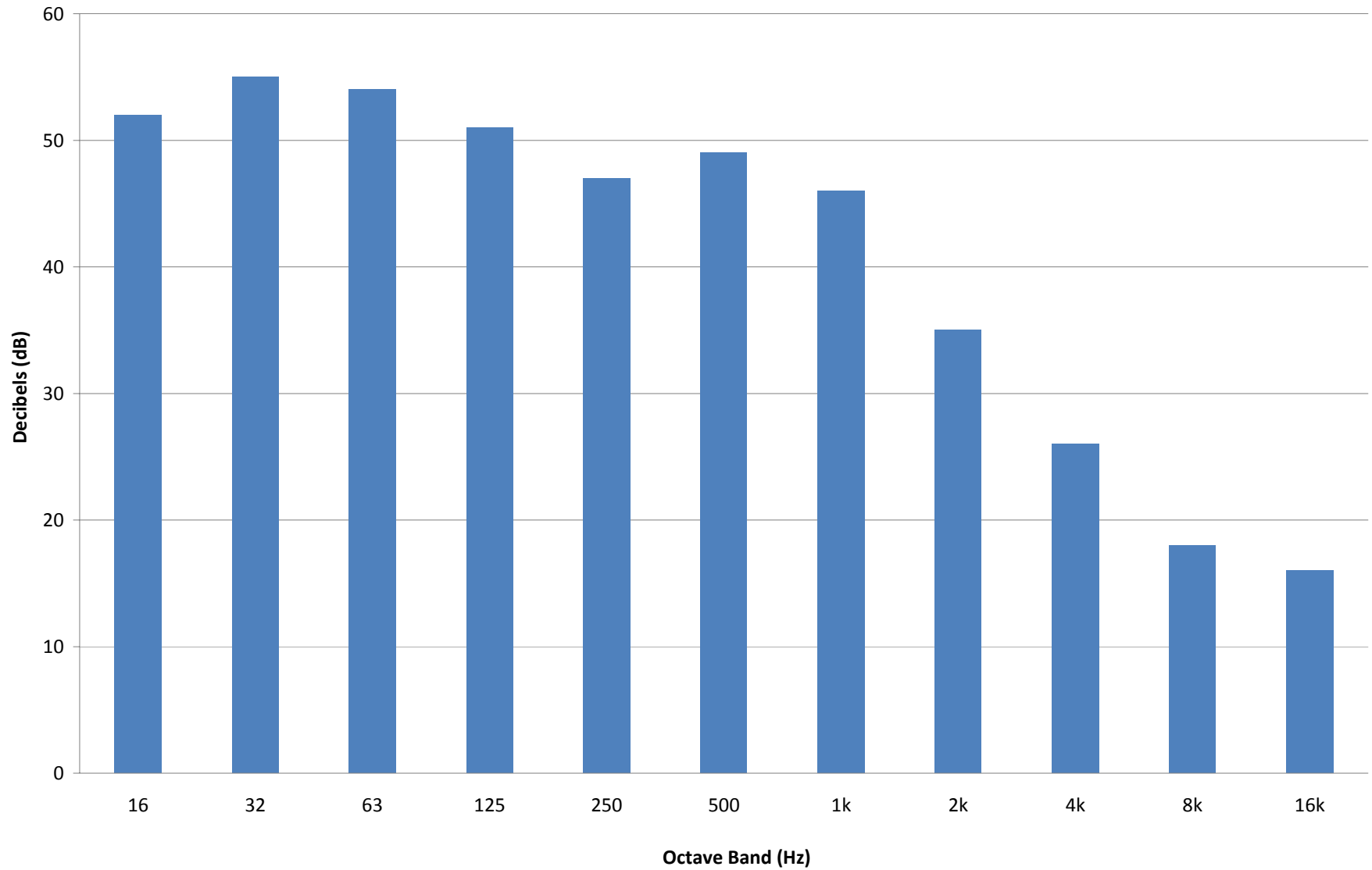
# NSA-6 38 Spectacle Pond Road L<sub>90</sub> Octave Band Levels November 23, 2010 at 10:54 a.m.



# NSA-2 183 New Estate Road L<sub>90</sub> Octave Band Levels November 22, 2010 at 11:57 a.m.

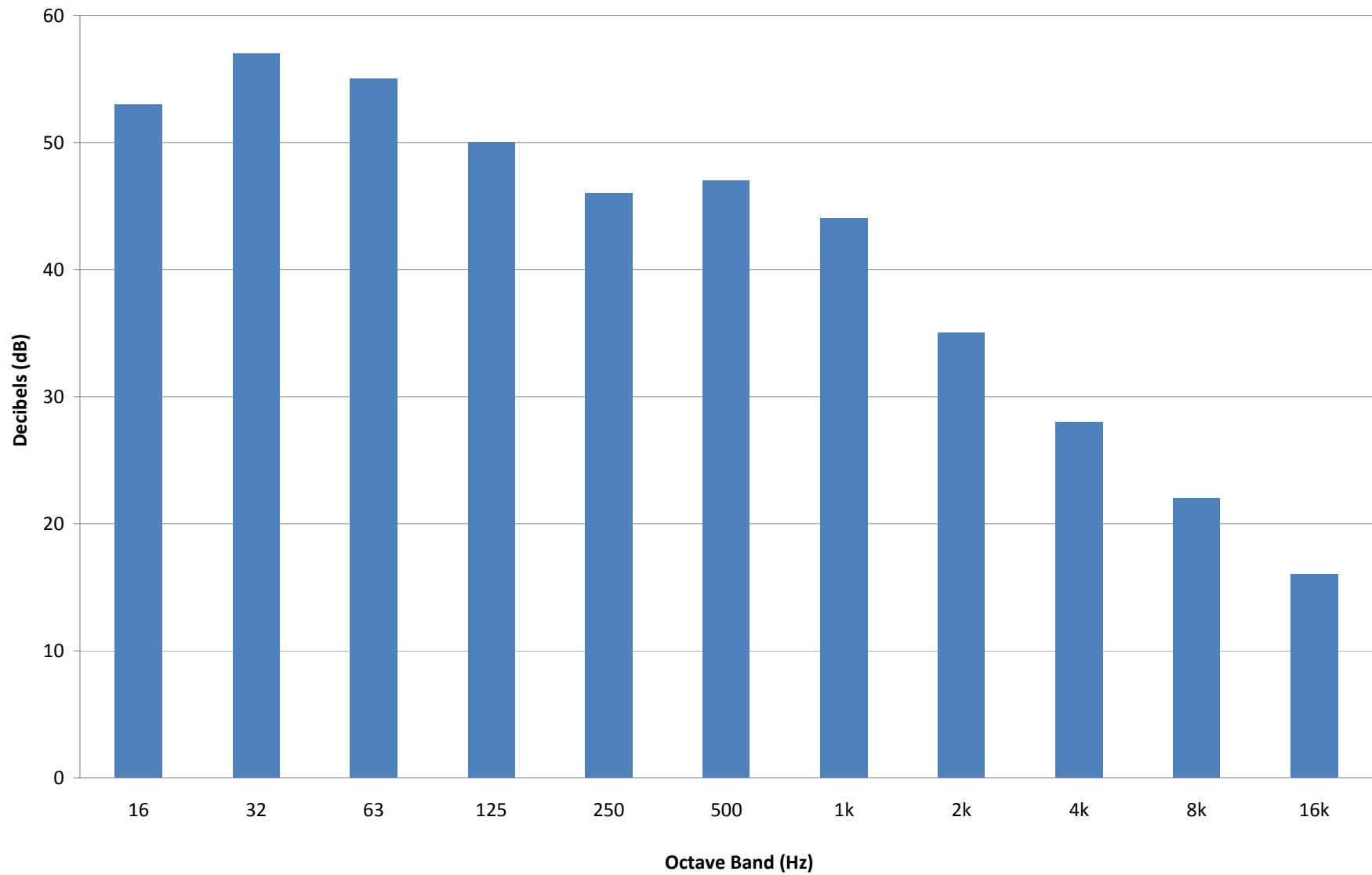


# NSA-4 Ayer Road (Industrial Use) L<sub>90</sub> Octave Band Levels November 22, 2010 at 9:26 a.m.



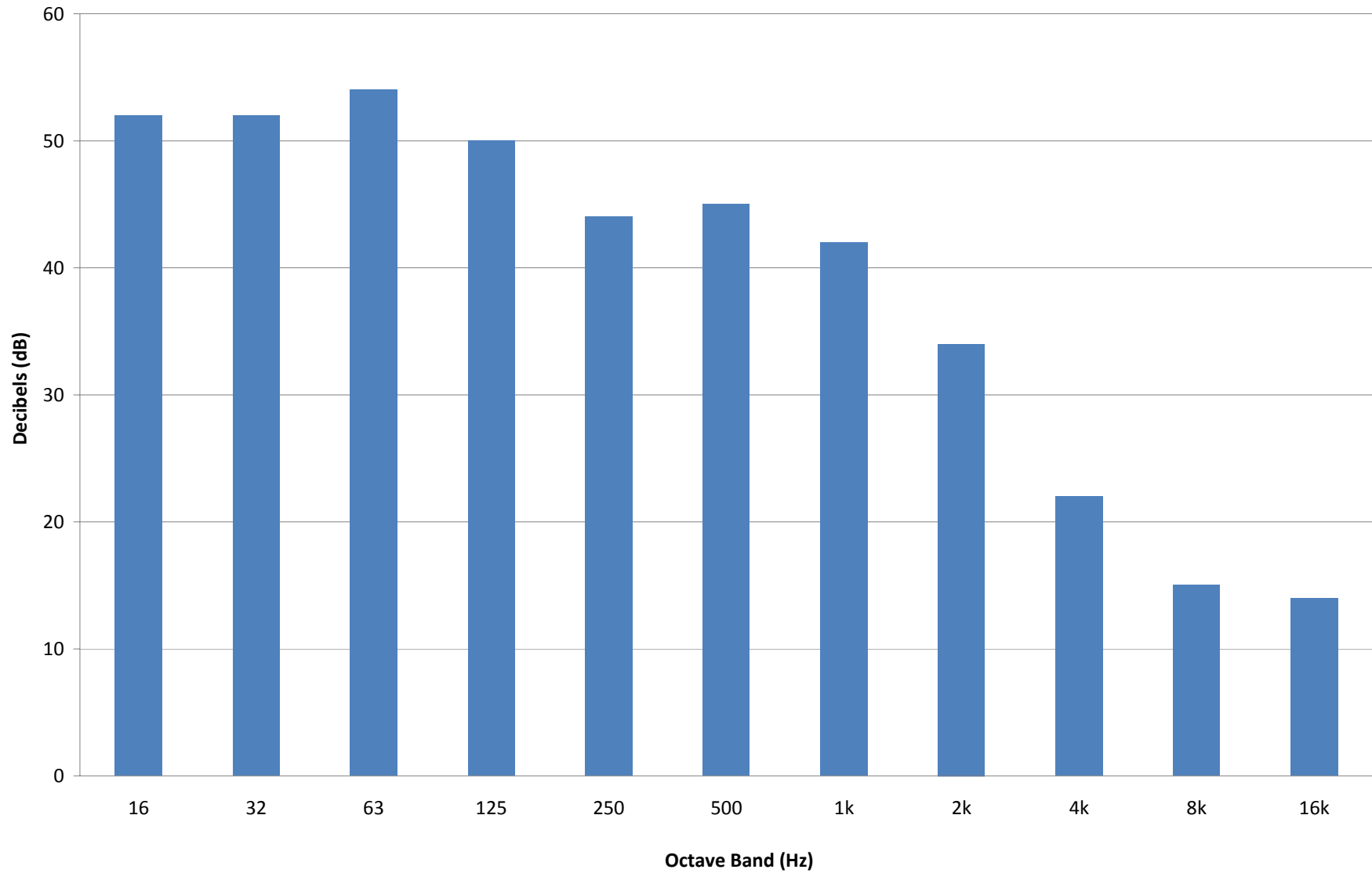
# PB-2 Northeast Property Boundary L<sub>90</sub> Octave Band Levels

November 22, 2010 at 10:03 a.m.



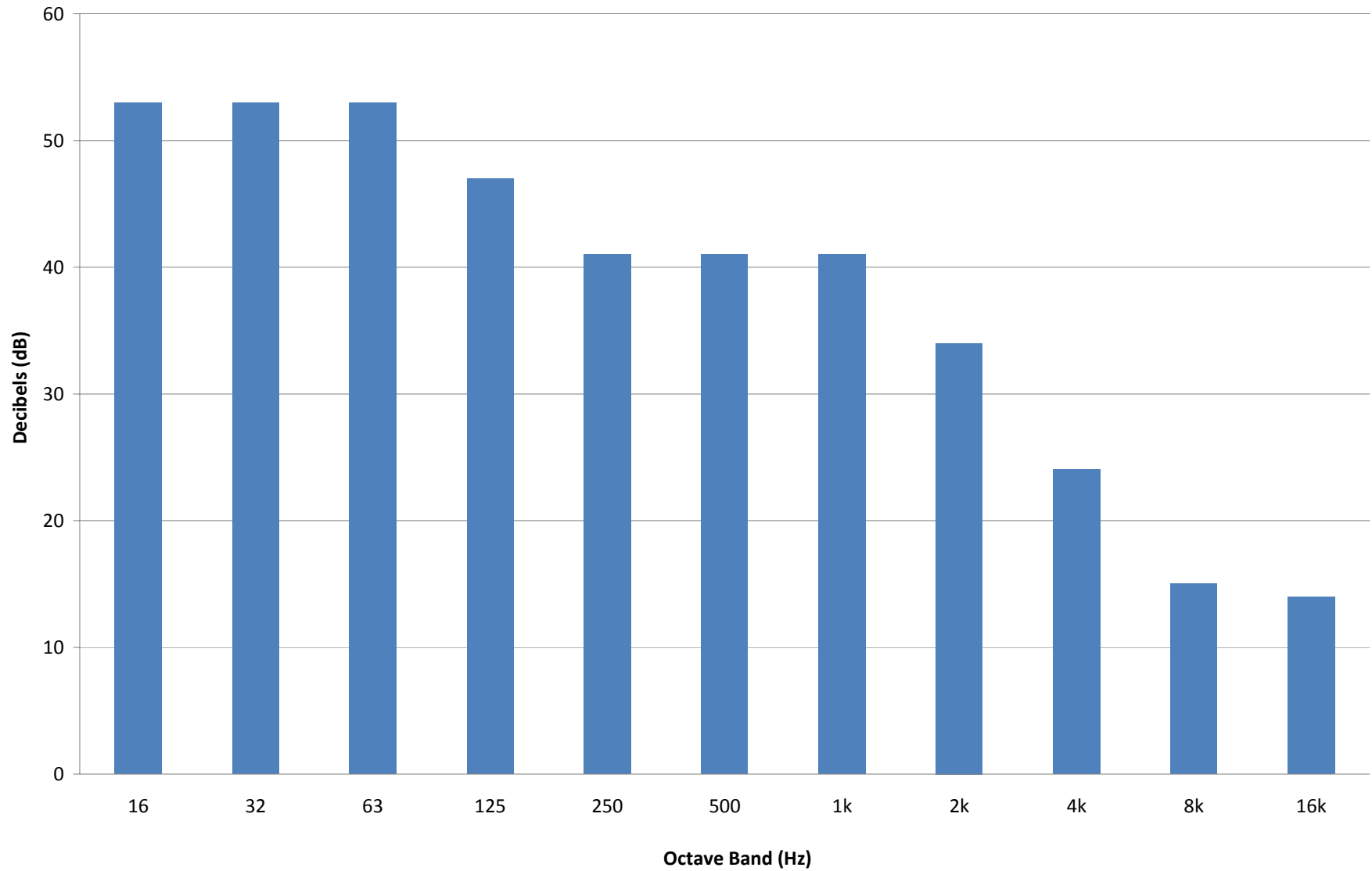
# PB-3 Southeast Property Boundary L<sub>90</sub> Octave Band Levels

November 22, 2010 at 10:29 a.m.

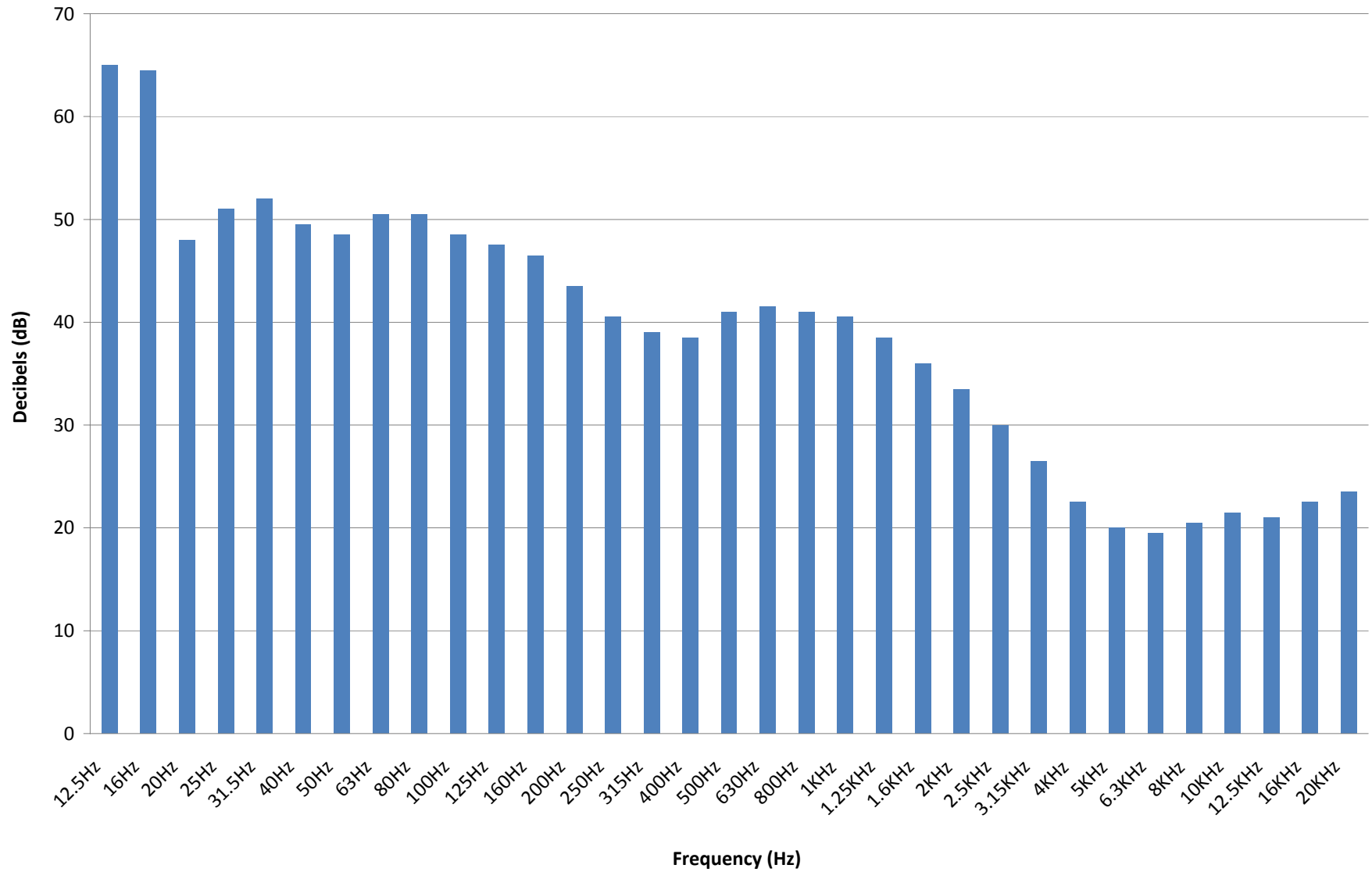


# NSA-5 53 Ayer Road (Industrial Use) L<sub>90</sub> Octave Band Levels

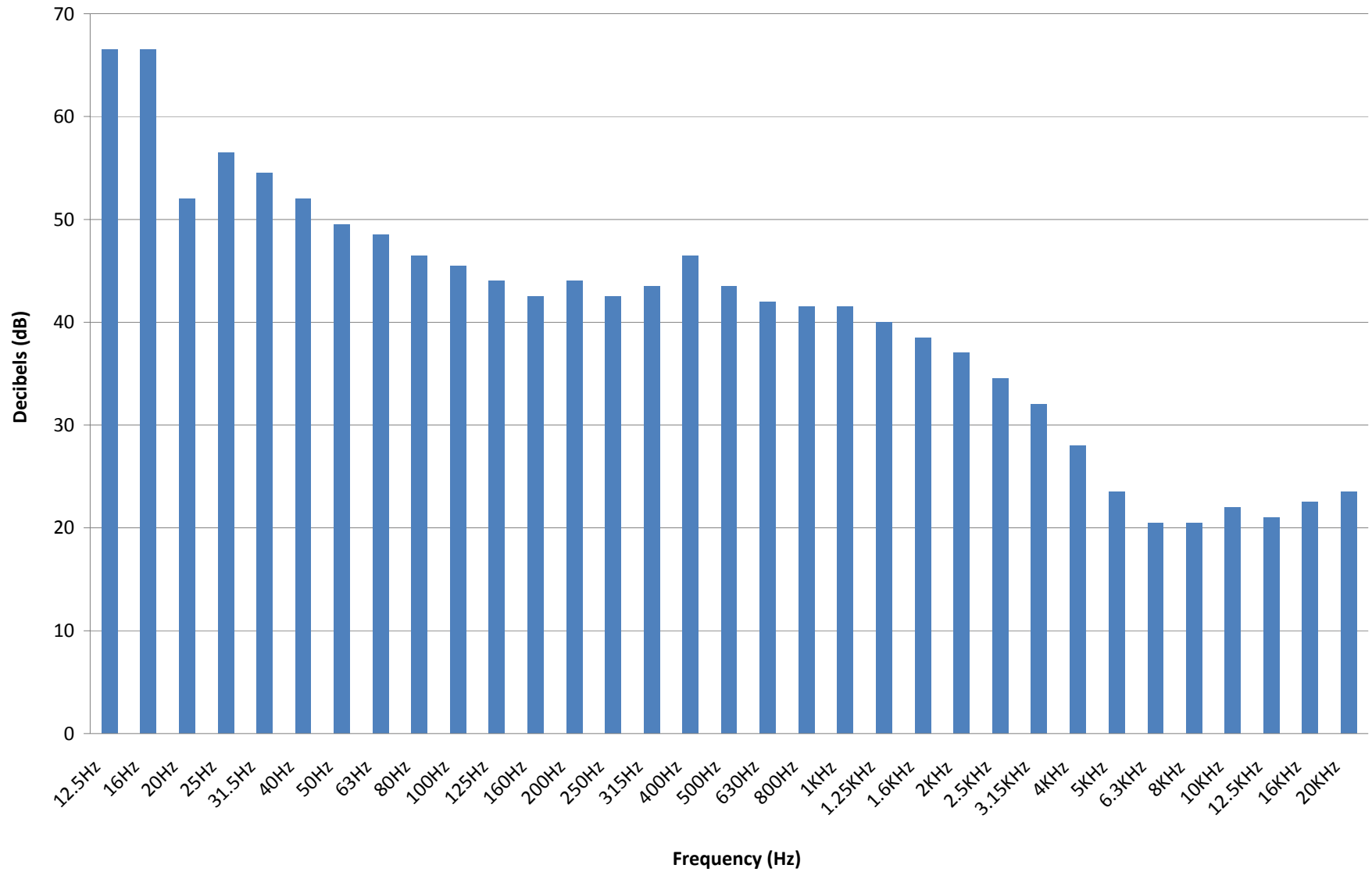
November 22, 2010 at 11:08 a.m.



**L<sub>90</sub> 1/3 Octave Bands at NSA-7 3 Whitetail Way  
November 22, 2010 at 3:17 p.m.**

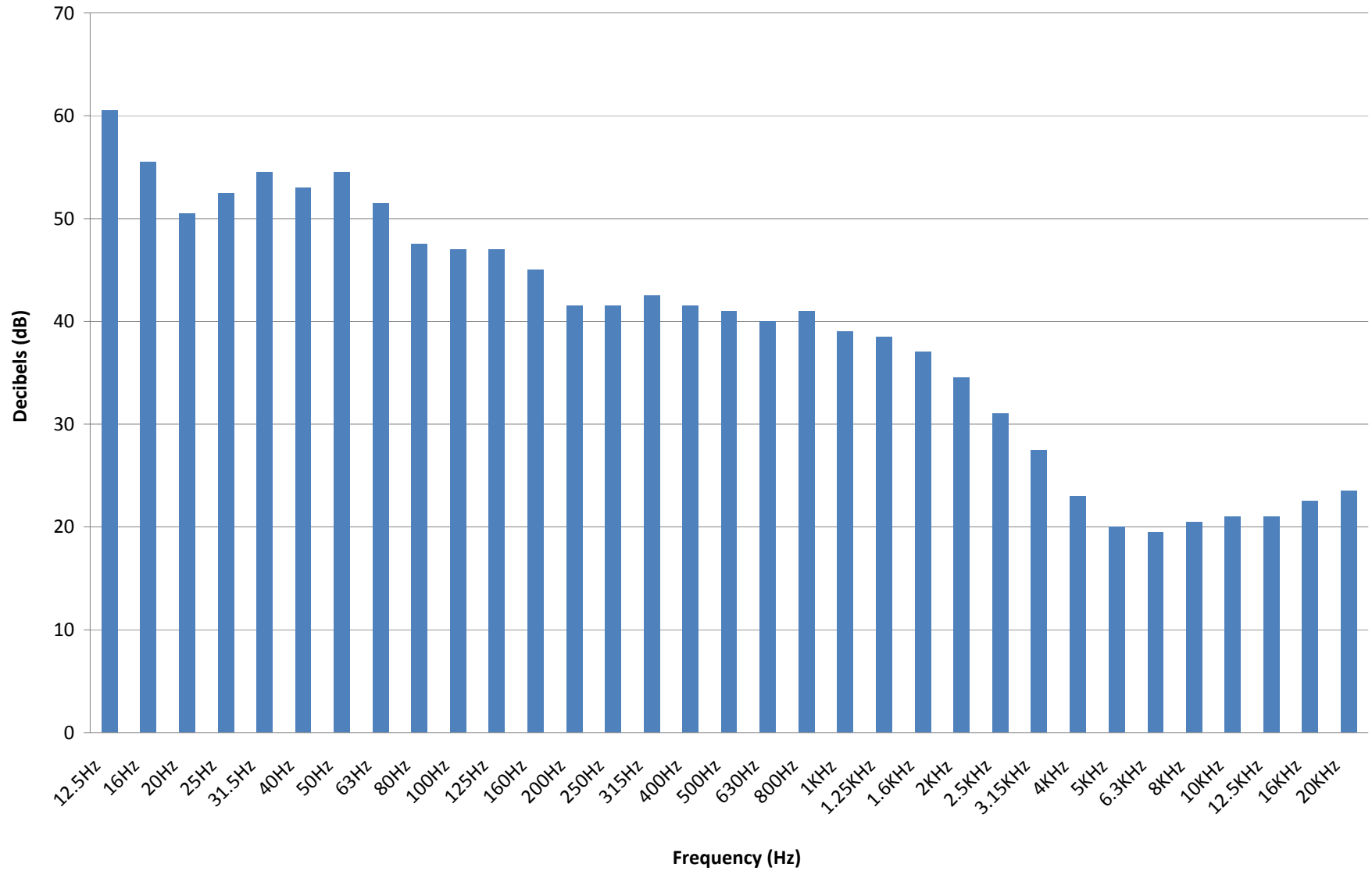


**L<sub>90</sub> 1/3 Octave Bands at NSA-1 11 Whitetail Way  
November 22, 2010 at 4:02 p.m.**

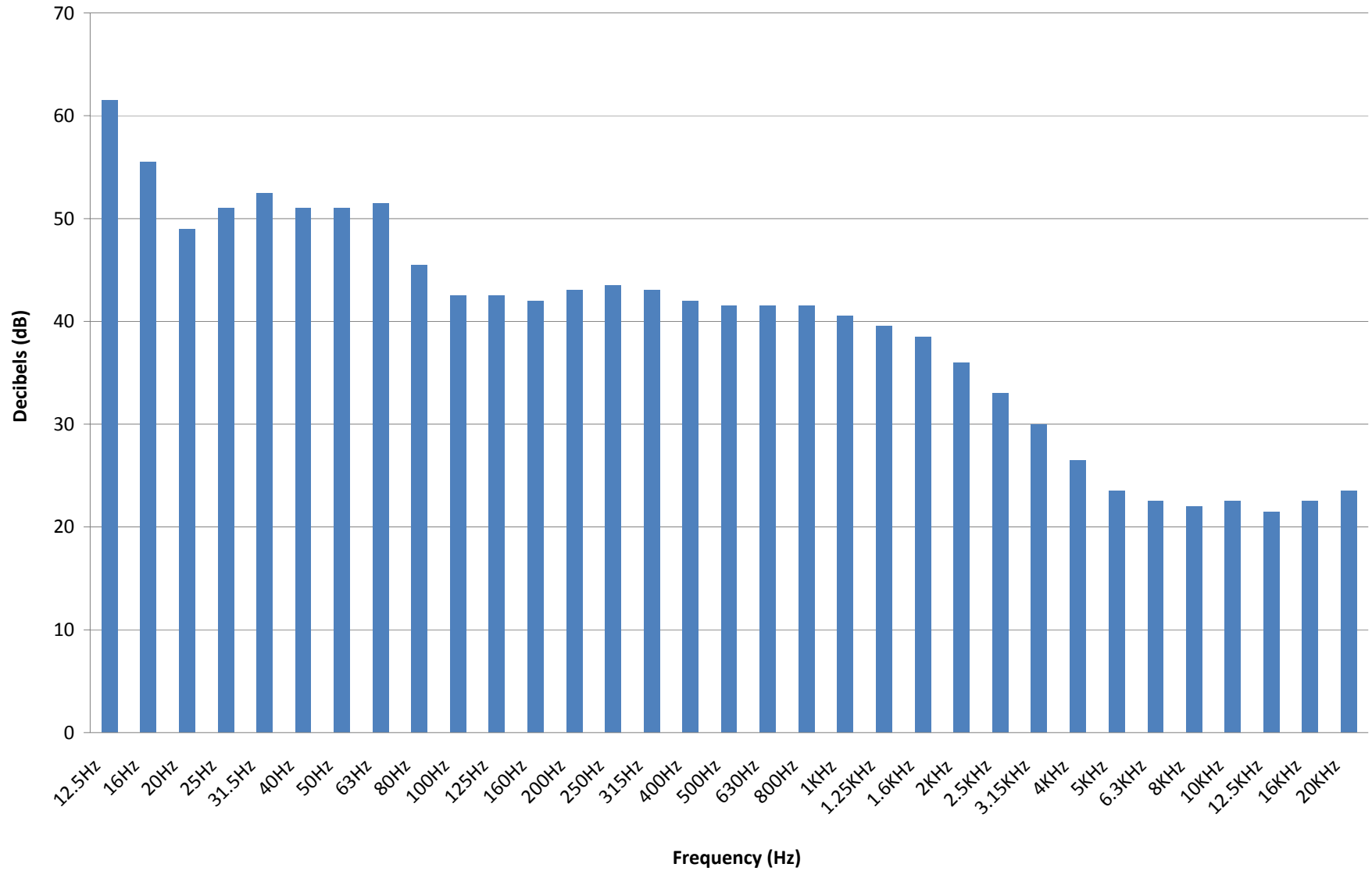


# L<sub>90</sub> 1/3 Octave Bands at NSA-6 38 Spectacle Pond Road

November 23, 2010 at 10:55 a.m.

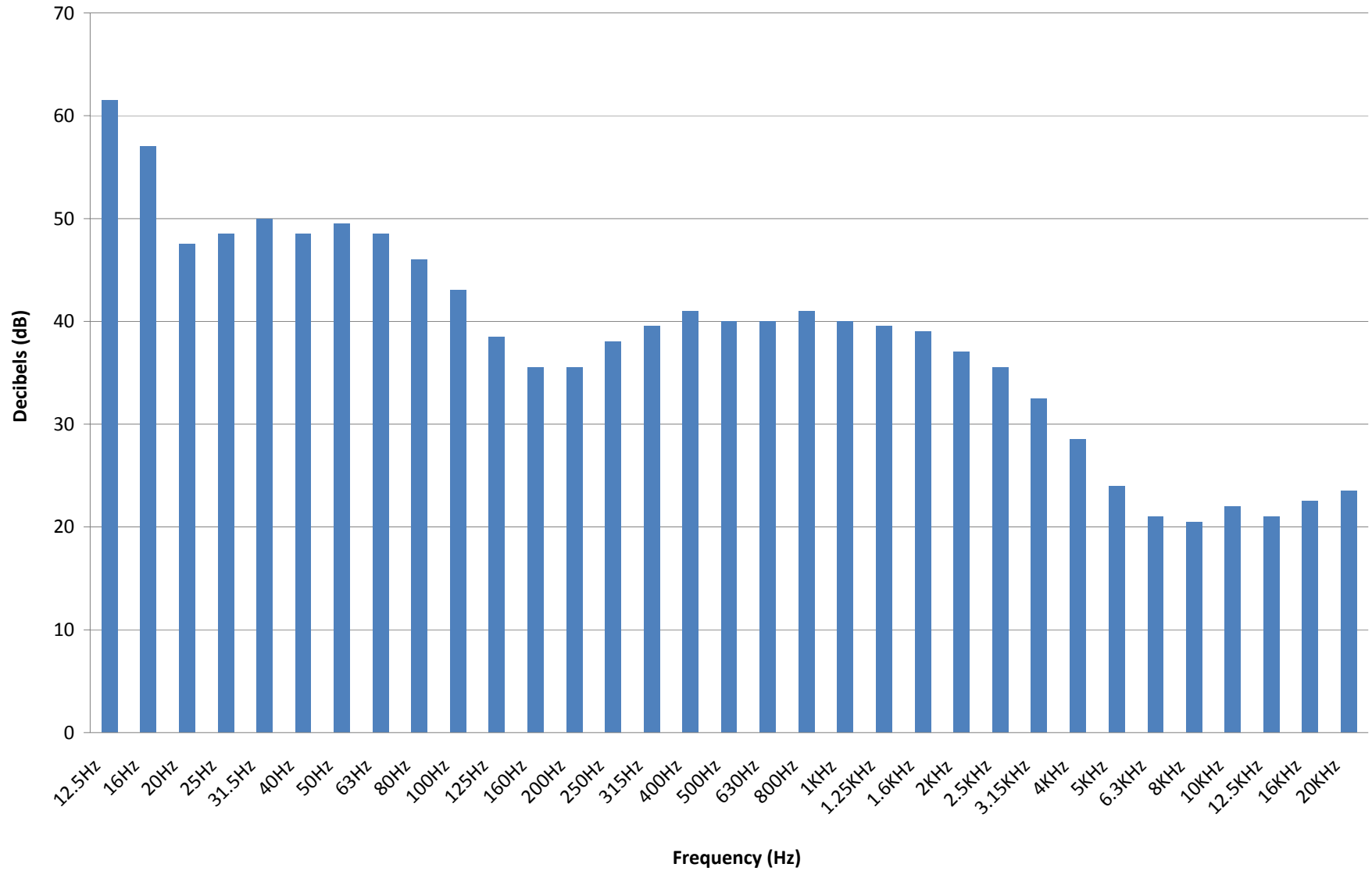


**L<sub>90</sub> 1/3 Octave Bands at NSA-3 78 Spectacle Pond Road  
November 22, 2010 at 12:39 p.m.**

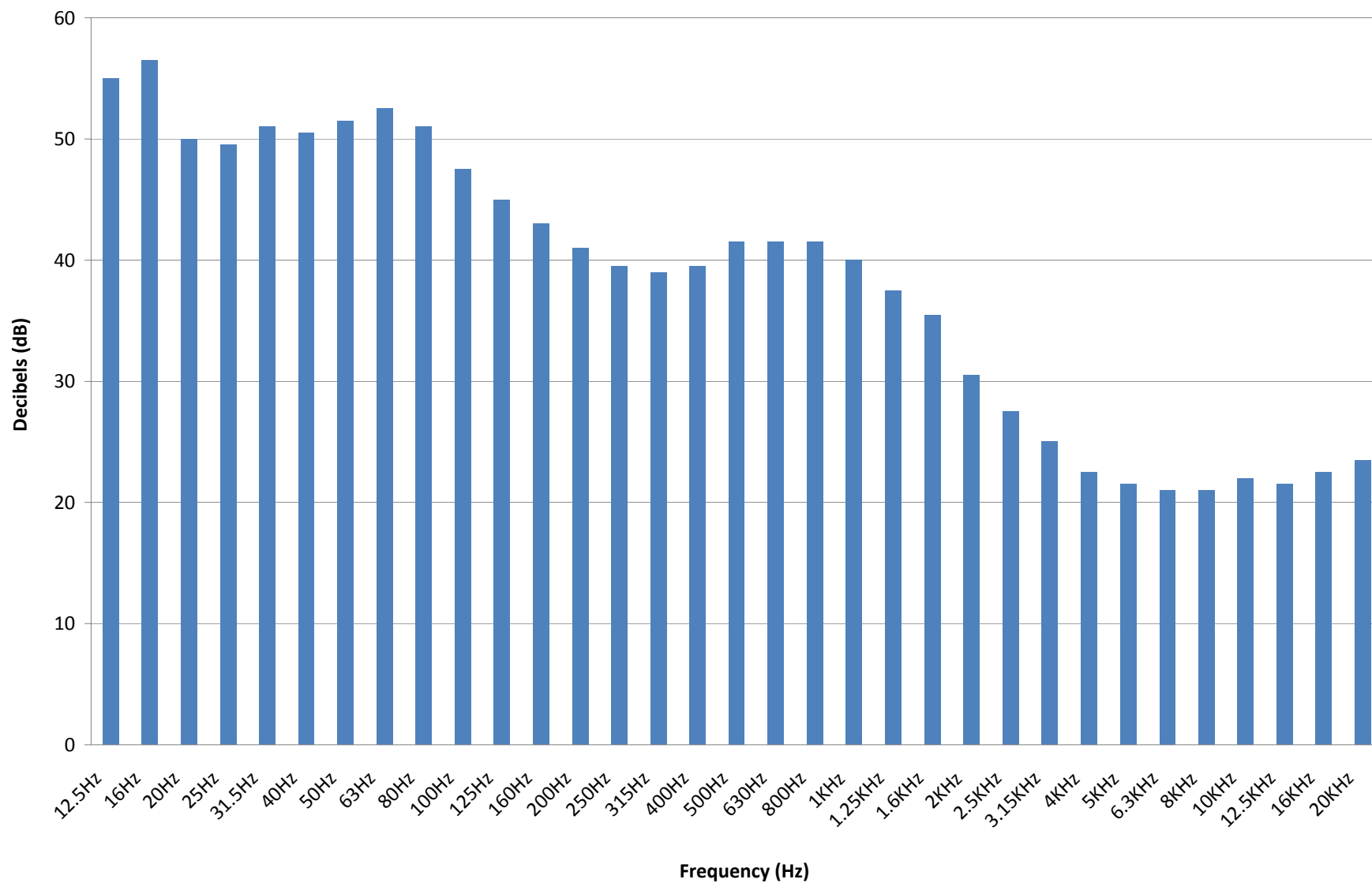


# L<sub>90</sub> 1/3 Octave Bands at PB-1 Northern Property Boundary

November 22, 2010 at 1:25 p.m.

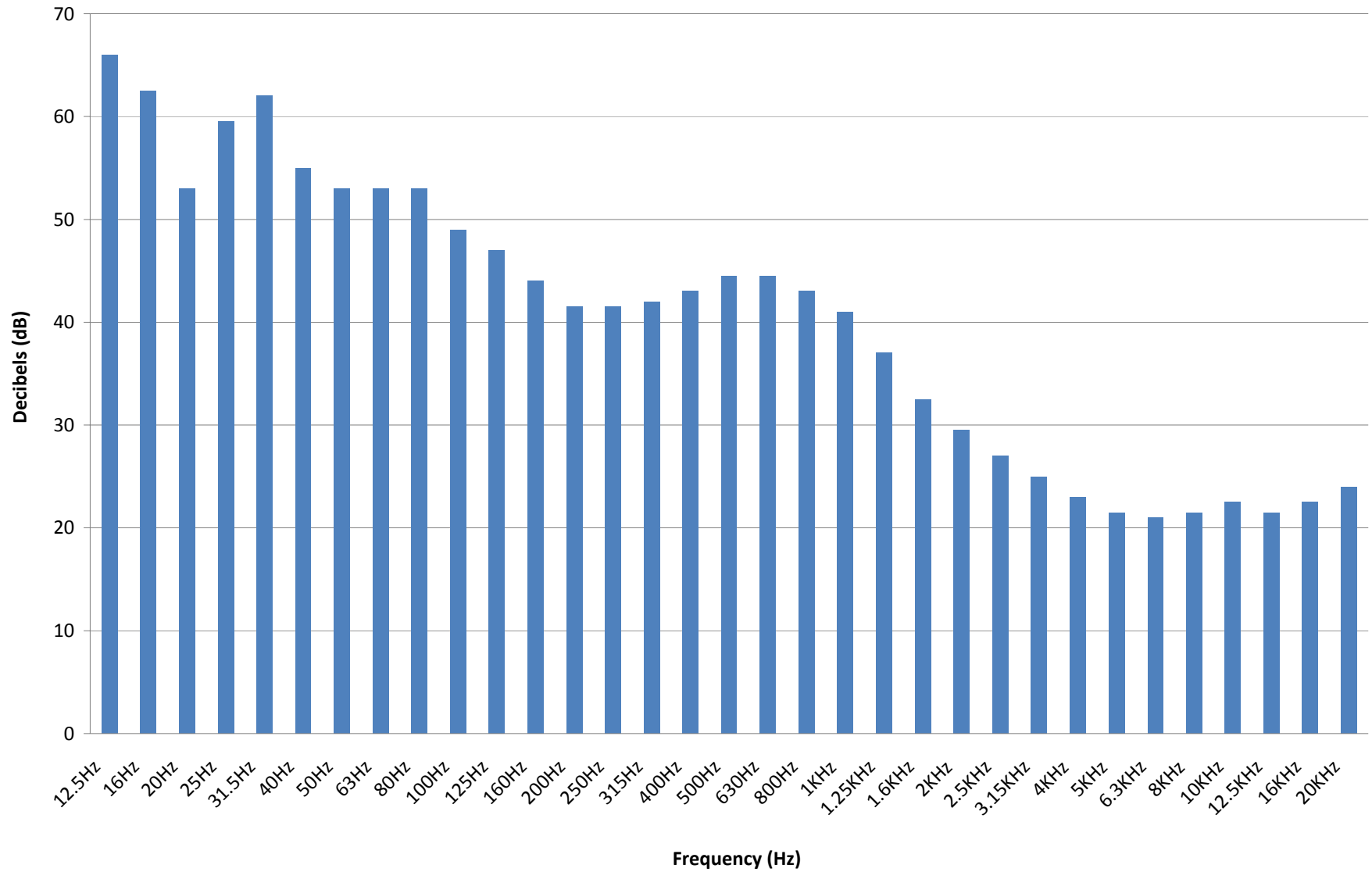


**L<sub>90</sub> 1/3 Octave Bands at NSA-2 183 New Estate Road  
November 22, 2010 at 11:59 a.m.**



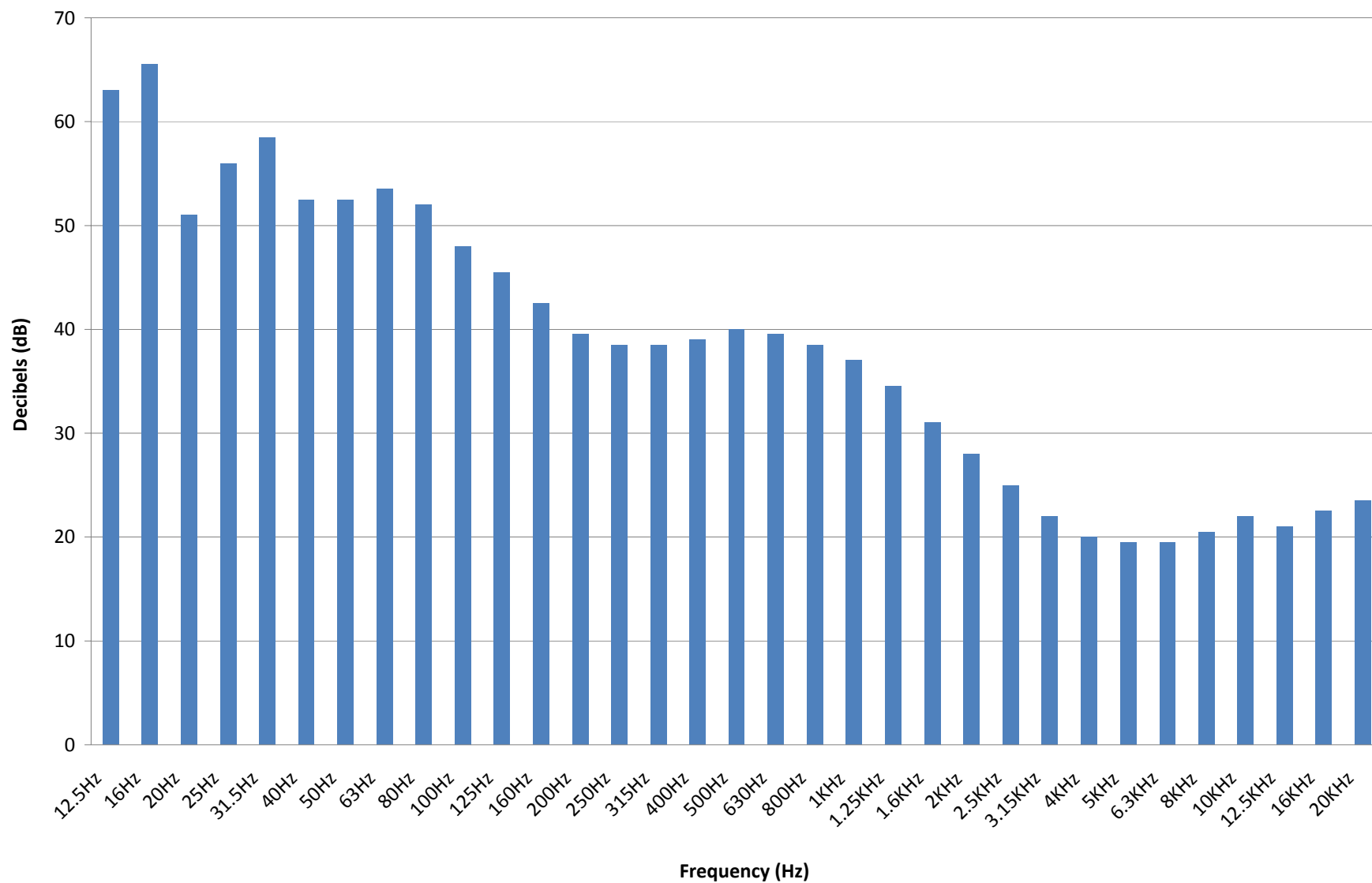
# L<sub>90</sub> 1/3 Octave Bands at NSA-4 Ayer Road (Industrial Use)

November 22, 2010 at 9:28 a.m.



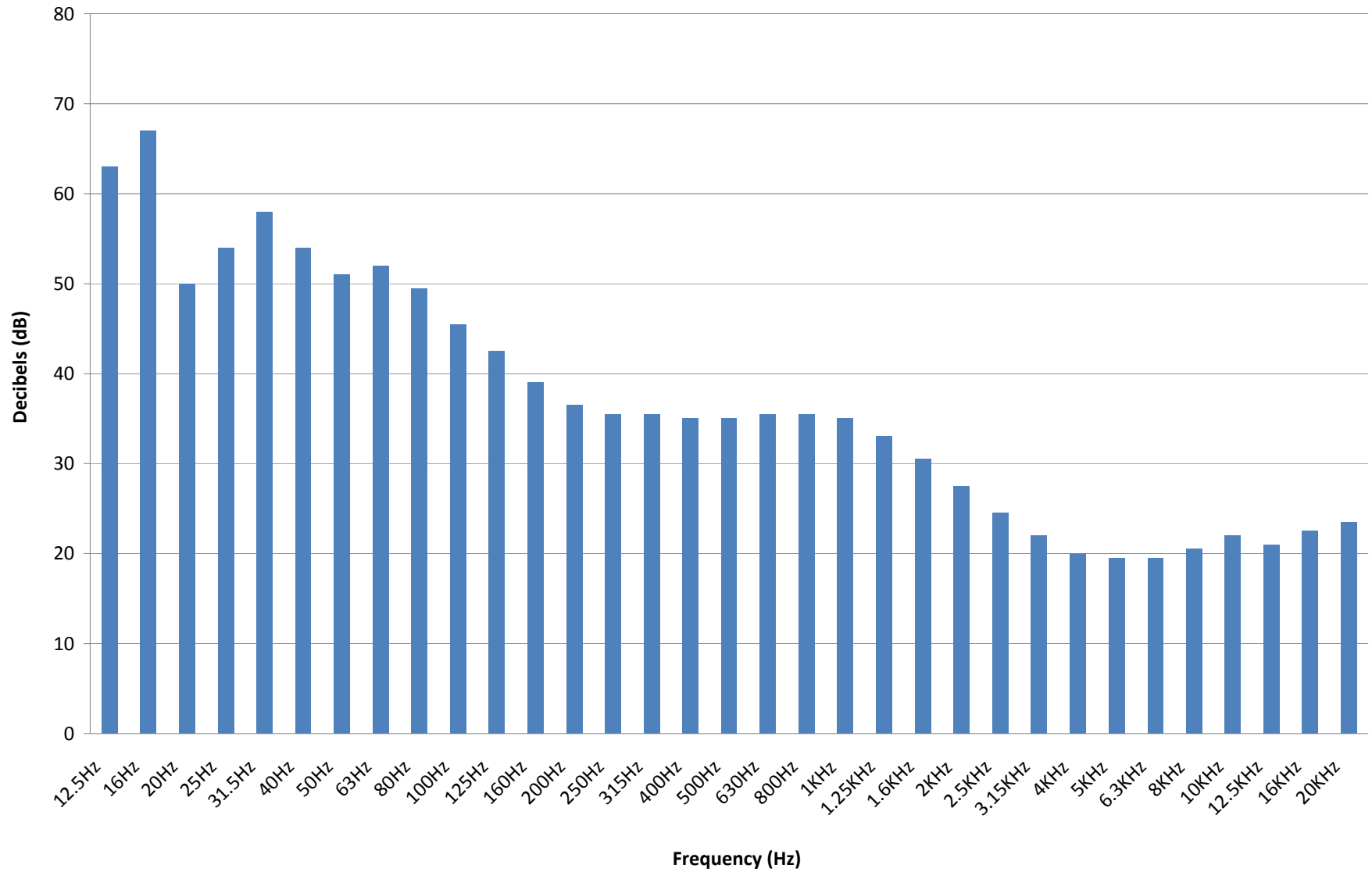
# L<sub>90</sub> 1/3 Octave Bands at PB-3 Southeast Property Boundary

## November 22, 2010 at 10:31 a.m.



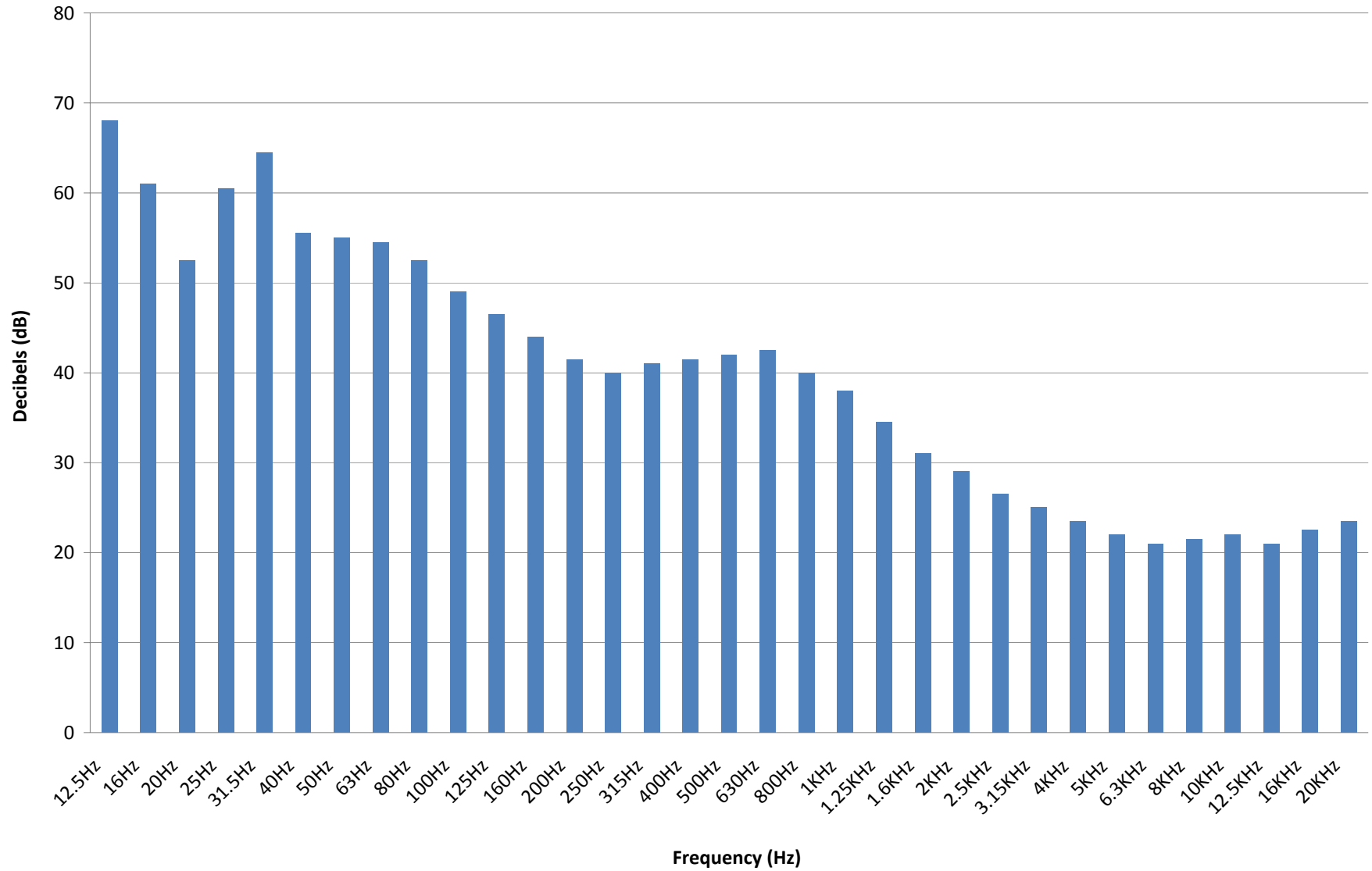
# L<sub>90</sub> 1/3 Octave Bands at NSA-5 53 Ayer Road (Industrial Use)

November 22, 2010 at 11:09 a.m.



# L<sub>90</sub> 1/3 Octave Bands at PB-2 Northeast Property Boundary

November 22, 2010 at 10:05 a.m.



**APPENDIX C**

**SUPPLEMENTAL SOUND STUDY FOR  
AGGREGATE INDUSTRIES SUMMARY TABLES**

**TABLE 6-4**

**EXISTING DAYTIME BASELINE SOUND LEVELS  
AT LOCATIONS NEAR THE AGGREGATE FACILITY  
11:45 A.M. TO 3:00 P.M. FEBRUARY 9, 2010**

<b>Sound Level Measurement</b>	<b>PB-1 Northern Property Boundary</b>	<b>PB-3 Southeast Property Boundary</b>	<b>NSA-2 183 New Estate Road</b>	<b>NSA-6 38 Spectacle Pond Road</b>
<b><u>Broadband (dBA)</u></b>				
<b>Background (L<sub>90</sub>)</b>	44.0	45.0	45.0	42.0
<b>Average (L<sub>eq</sub>)</b>	58.7	56.0	49.2	57.2
<b>Maximum (L<sub>max</sub>)</b>	77.3	77.7	69.7	78.2
<b><u>Octave Band L<sub>90</sub> (dB)</u></b>				
<b>16 Hz</b>	37	38	38	39
<b>32 Hz</b>	46	46	43	49
<b>63 Hz</b>	45	52	49	48
<b>125 Hz</b>	41	51	47	45
<b>250 Hz</b>	42	44	42	42
<b>500 Hz</b>	41	41	42	40
<b>1 kHz</b>	40	41	41	37
<b>2 kHz</b>	37	35	32	29
<b>4 kHz</b>	30	--	--	--
<b>8 kHz</b>	--	--	--	--
<b>16 kHz</b>	--	--	--	--
<b>Existing Pure Tone Condition?</b>	No	No	No	No
<b>DEP Noise Policy Limit (dBA)*</b>	<b>54.0</b>	<b>55.0</b>	<b>55.0</b>	<b>52.0</b>

\*Defined as a 10 dBA incremental increase relative to the existing daytime baseline (L<sub>90</sub>).

**TABLE 6-5**

**EXISTING DAYTIME BASELINE SOUND LEVELS  
AT LOCATIONS NEAR THE AGGREGATE FACILITY  
10:30 A.M. TO 1:00 P.M. FEBRUARY 10, 2010**

<b>Sound Level Measurement</b>	<b>PB-2 Northeast Property Boundary</b>	<b>NSA-1 11 White Tail Way</b>
<b><u>Broadband (dBA)</u></b>		
<b>Background (L<sub>90</sub>)</b>	40.0	40.0
<b>Average (L<sub>eq</sub>)</b>	47.6	49.3
<b>Maximum (L<sub>max</sub>)</b>	68.7	73.6
<b><u>Octave Band L<sub>90</sub> (dB)</u></b>		
<b>16 Hz</b>	37	38
<b>32 Hz</b>	45	45
<b>63 Hz</b>	49	47
<b>125 Hz</b>	47	43
<b>250 Hz</b>	38	39
<b>500 Hz</b>	38	40
<b>1 kHz</b>	35	34
<b>2 kHz</b>	29	23
<b>4 kHz</b>	--	15
<b>8 kHz</b>	--	15
<b>16 kHz</b>	--	--
<b>Existing Pure Tone Condition?</b>	No	No
<b>DEP Noise Policy Limit (dBA)*</b>	<b>50.0</b>	<b>50.0</b>

\*Defined as a 10 dBA incremental increase relative to the existing daytime baseline (L<sub>90</sub>).

**TABLE 6-7**

**SUMMARY OF PREDICTED DAYTIME SOUND LEVELS WITH MITIGATION  
MEASURES FROM AGGREGATE INDUSTRIES' FACILITY  
AT THE FACILITY PROPERTY LINE AND CLOSEST NOISE SENSITIVE AREAS**

<b>Sound Modeling Locations</b>	<b>Measured Background without Crushing Operations L<sub>90</sub> Level (dBA)</b>	<b>Predicted Facility Sound Level (dBA)</b>	<b>Total Expected Future L<sub>90</sub> Level (dBA)</b>	<b>Predicted Increase (dBA)</b>
PB-1 - Northern Property Boundary*	44	54.6	55.0	11.0
PB-2 - Northeast Property Boundary**	40	49.8	50.2	10.2
PB-3 - Southeast Property Boundary	45	49.0	50.5	5.5
NSA-1 – 11 White Tail Way	40	49.2	49.7	9.7
NSA-2 – 183 New Estate Road	45	48.6	50.2	5.2
NSA-3 – 78 Spectacle Pond Road	44	48.3	49.7	5.7
NSA-4 – Ayer Road (Industrial Use)**	40	50.7	51.1	11.1
NSA-5 – 53 Ayer Road (Industrial Use)	45	47.8	49.6	4.6
NSA-6 – 38 Spectacle Pond Road	42.0	48.4	49.3	7.3

\*The predicted sound level changes are adjacent to or located in industrial zoned property owned by Middlesex Materials Corporation on the western and northwestern areas abutting Aggregate Industries that is not buildable land.

\*\*PB-2 is adjacent to industrial zoned property that is not buildable and NSA-4 represents industrial property along Ayer Road.

## **APPENDIX D**

**FIELD OBSERVATIONS DURING NOVEMBER 15, 22 AND 23**

**NOVEMBER 15 FIELD OBSERVATIONS**





















**NOVEMBER 22 AND 23 FIELD OBSERVATIONS**



















