

D-84

AIR & NOISE ANALYSIS

ROCK CREEK PARK

WASHINGTON D.C.



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# **Technical Report on Monitoring of Carbon Monoxide Concentrations and Noise Levels in Rock Creek Park, Washington, D.C.**

**Prepared for:**

**United States Department of the Interior  
National Park Service  
Denver Service Center  
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**This study was prepared by Robert Peccia & Associates under the direction of the Branch of Transportation, Denver Service Center, National Park Service. The findings and opinions contained in this document are those of the A/E, and do not necessarily reflect the opinion of the National Park Service.**

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## **1.0 INTRODUCTION**

The purpose of this study was to characterize the existing air quality and noise "environments" in Rock Creek National Park. Rock Creek Park is located in Washington D.C. and includes a significant roadway network as shown by Figure 1. Its roadways are frequently used by commuters during the morning and evening rush hours. The information in this report, determined through field monitoring, forms the basis for the air quality and noise portions of the Affected Environment section of the draft environmental impact statement for transportation system changes in the Park.

## **2.0 AIR QUALITY**

### **2.1 Introduction**

The purpose of this part of the study was to determine, through field monitoring, the carbon monoxide (CO) concentrations due to motor vehicle traffic in Rock Creek National Park. The sampling period was selected to be in December, for several reasons. First, automobiles emit more CO in winter temperatures. Second, the mixing layer of the atmosphere is usually more shallow in the winter, leading to reduced vertical mixing, and greater concentrations. Third, traffic projections showed little change in traffic volumes by time of year. These reasons led to the final sampling dates of December 7 to 20, 1996.

### **2.2 Measurement Sites**

A site reconnaissance was conducted on August 19, 1996. During this park visit, traffic characteristics, local topography, wind patterns, and park facilities were reviewed. Based on these parameters as well as security, accessibility, and safety, four locations were selected to characterize the park. After selection, a commercial fence company was hired to install temporary cyclone fencing for security at the four sites. In addition to these sites, one additional "grab" sample was collected. These locations are described in detail in the following discussion.

#### ***Site 1: Golf Course (Background Site)***

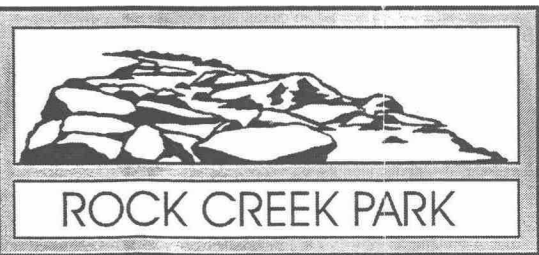
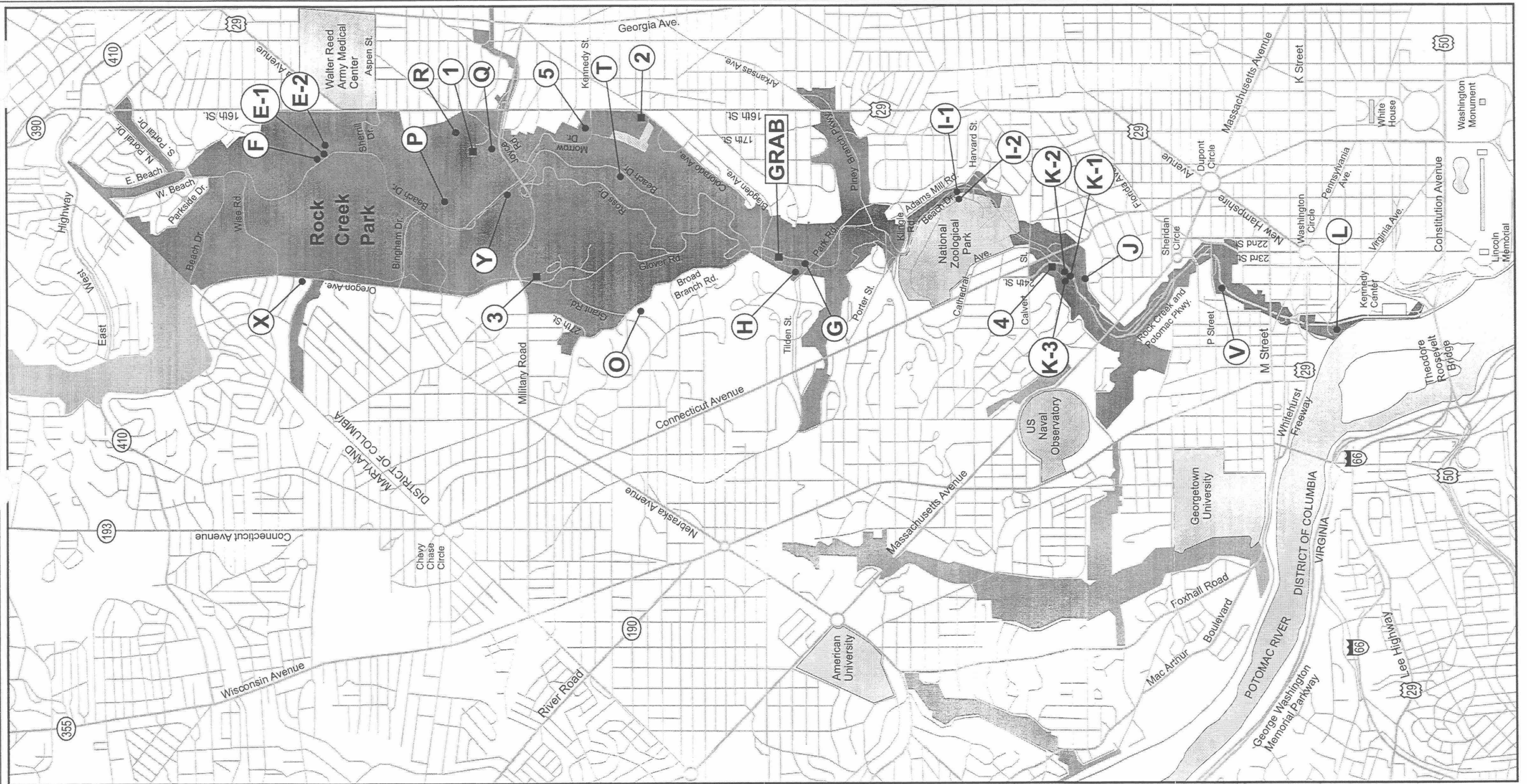
The first air quality monitoring site was located 74 feet west of a small parking lot and about 150 yards from the club house of the public golf course which is located within the boundaries of Rock Creek Park. The general site location is indicated in Figure 1. The sample location was located at the peak of a hill in the golf course near the first tee and was away from all obstructions. This made the site an excellent background site for both air quality (away from sources) and meteorology (no nearby obstructions or higher topography). A portable meteorological station was located at this site and measured wind speed, wind direction and temperature. A plan view depiction of this site is shown below in Figure 2 (not to scale). Figure 3 shows a photograph of the site.





Map Scale: 1" = 0.5 Miles

- Air Quality Monitoring Site
- Noise Measurement Site



**Figure 1**  
Air Quality Monitoring and  
Noise Measurement Sites

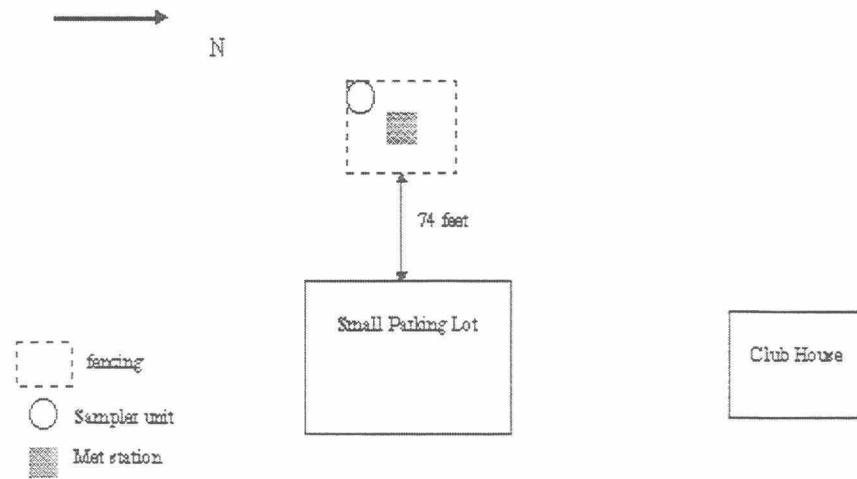
ON MICROFILM

ON MICROFILM

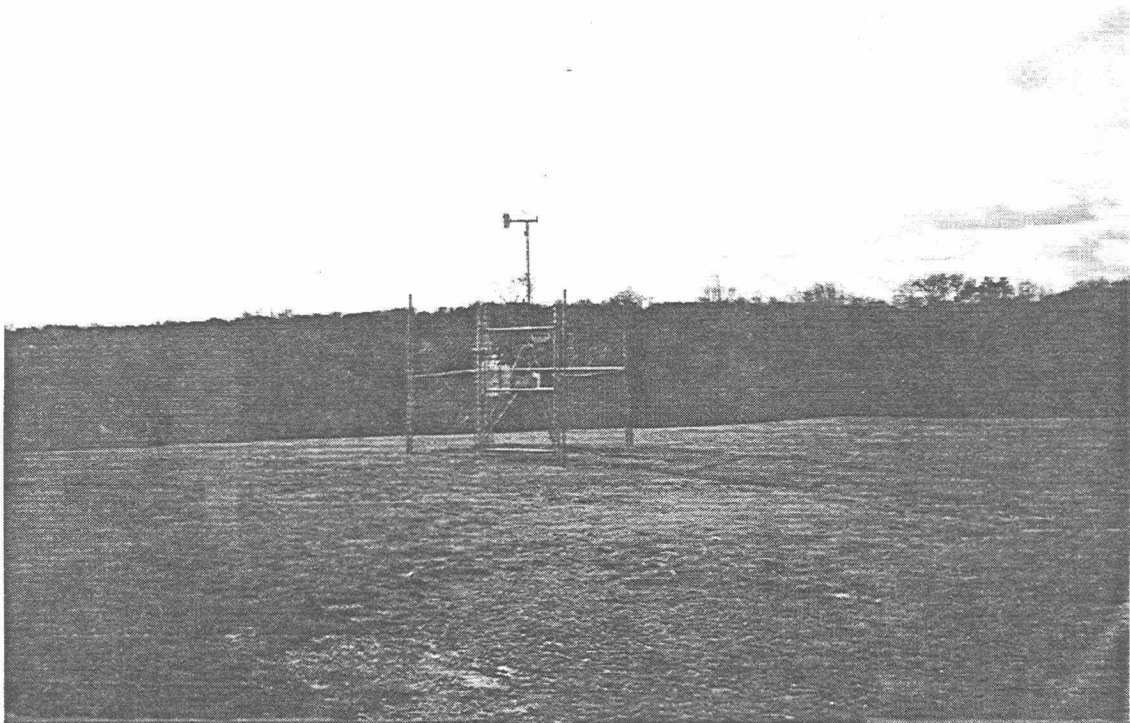
**Figure 2. Site Sketch: Golf Course, Site 1**

*Site 1: Golf Course Site (Background Site)*

A plan view depiction of this site is shown below (not to scale).



**Figure 3. Golf Course, Site 1 (Showing Meteorological Station)**





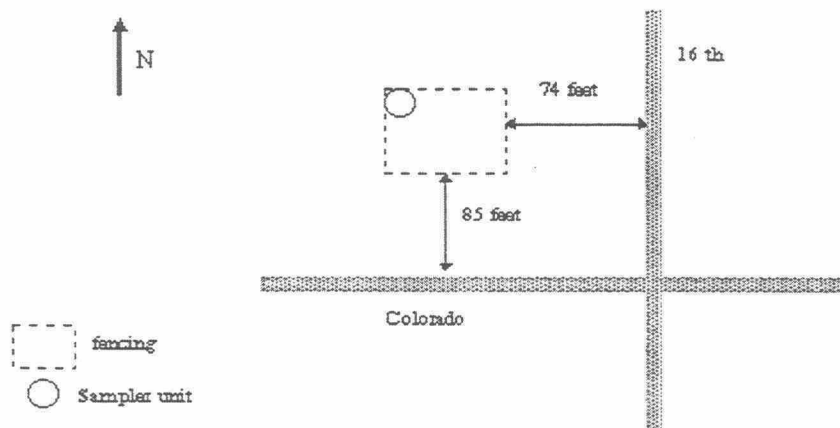
### ***Site 2: Colorado Avenue and 16th Street***

This site was located just south of the Tennis Stadium at the intersection of Colorado Avenue and 16th Street (see Figure 1), west of 16th Street. This site was selected to characterize the air quality near the heavy park use area of the amphitheater and sports complex. The site was located near 16th Street since this is a major commute route. The perpendicular distance<sup>1</sup> to Colorado Avenue was 85 feet, while the perpendicular distance to 16th Street was 74 feet. A plan view depiction of this site is shown in Figure 4 (not to scale). Figures 5 and 6 show photographs of the site.

**Figure 4. Site Sketch: 16th Street, Site 2**

### *Site 2: Colorado Street and 16th Avenue*

A plan view depiction of this site is shown below (not to scale).

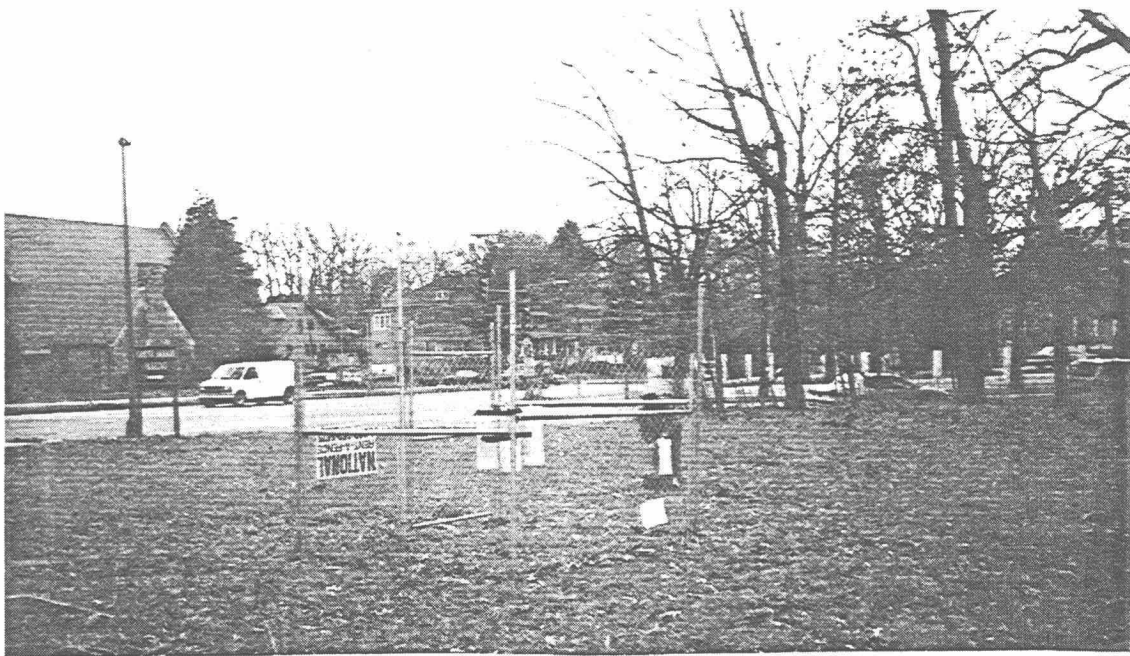


<sup>1</sup> Perpendicular distance is defined here as perpendicular to the centerline of the roadway, extending from the sample location to edge of roadway.

**Figure 5. 16th Street, Site 2 (16th Street in Background)**



**Figure 6. 16th Street, Site 2 (Colorado Avenue in Background)**





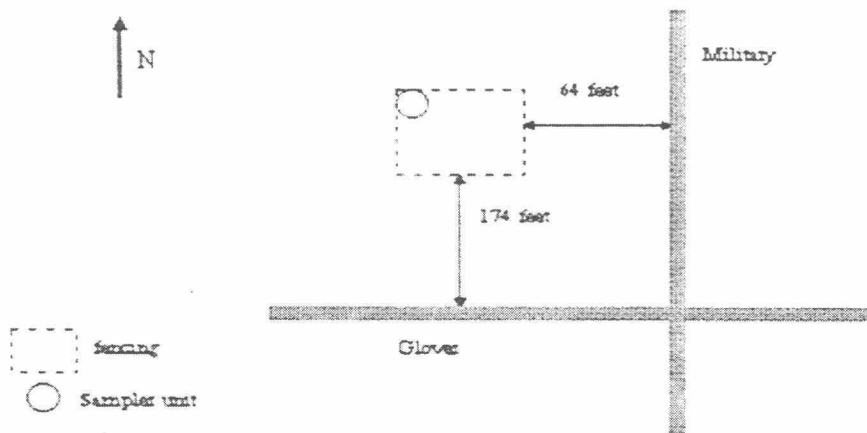
### ***Site 3: Military Road , Oregon Avenue and Glover Road***

This site was located south of the intersection of Military Road, Oregon Avenue and Glover Road. Military Road is a significant east-west traffic route. Oregon Avenue is the north leg of the intersection and serves as a collector for neighborhood traffic. This site was selected to characterize the impact of Military Road and Oregon Avenue. The Southwest quadrant of the intersection was selected because it was flat, unobstructed. The site was located a perpendicular distance of 174 feet from Glover Road and 64 feet to Military Road. A plan view depiction of this site is shown in Figure 7. (not to scale). Figures 8 and 9 are photographs of the site.

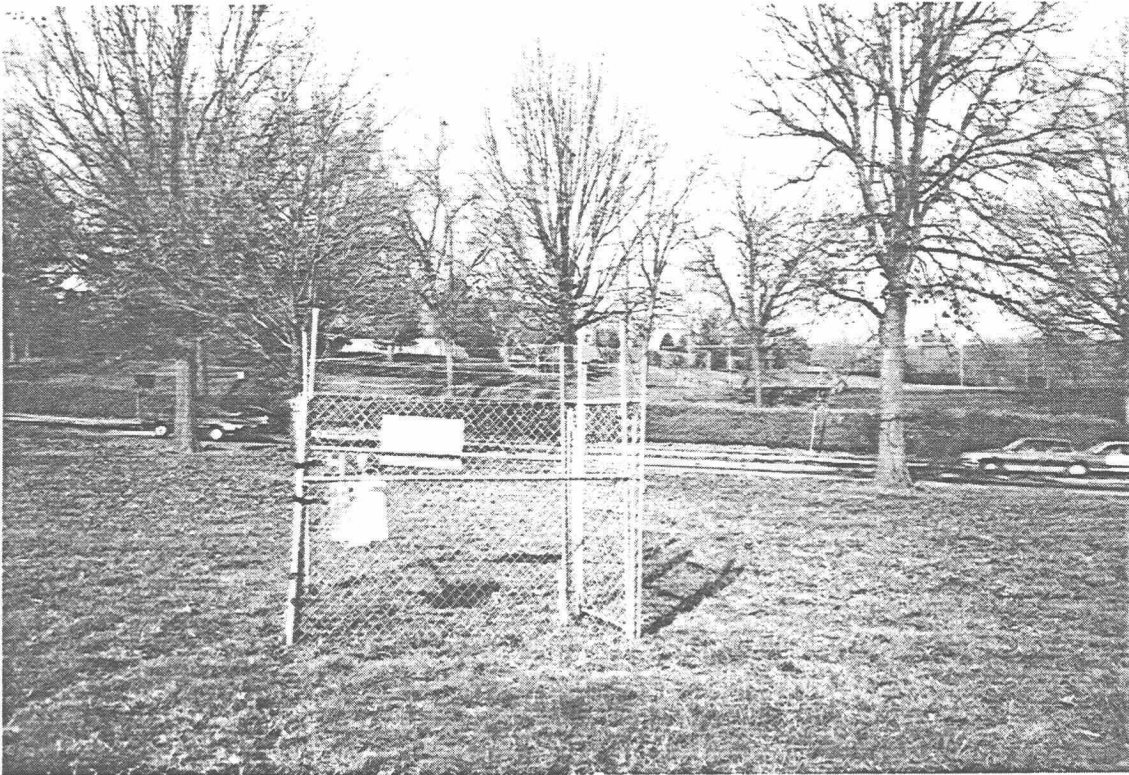
**Figure 7. Site Sketch, Military Road, Site 3**

### ***Site 3: Military Trail and Glover Road***

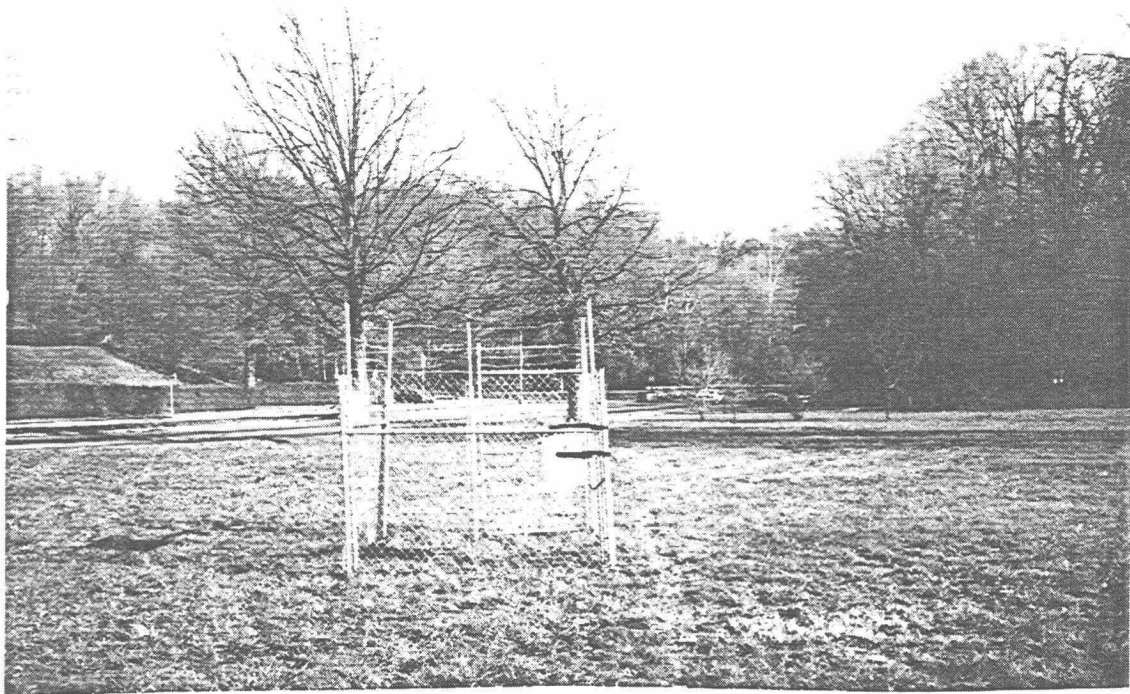
A plan view depiction of this site is shown below (not to scale).



**Figure 8. Military Road, Site 3 (Military Road in Background)**



**Figure 9. Military Road, Site 3 (Glover Road in Background)**





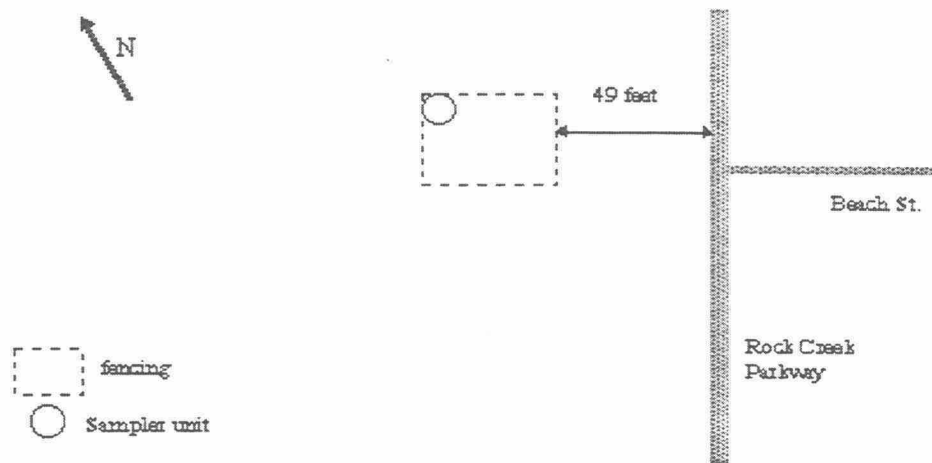
***Site 4: Rock Creek/Potomac Parkway, Calvert Street, Beach Street***

This site was located due west of the intersection of Beach Drive, Calvert, and Rock Creek/Potomac Parkway. The perpendicular distance to Calvert was 49 feet. This location was selected because no obstructions existed and it was near a frequently used jogging trail. A plan view depiction of this site is shown in Figure 10 (not to scale). Photographs of the site are shown in Figures 11 and 12.

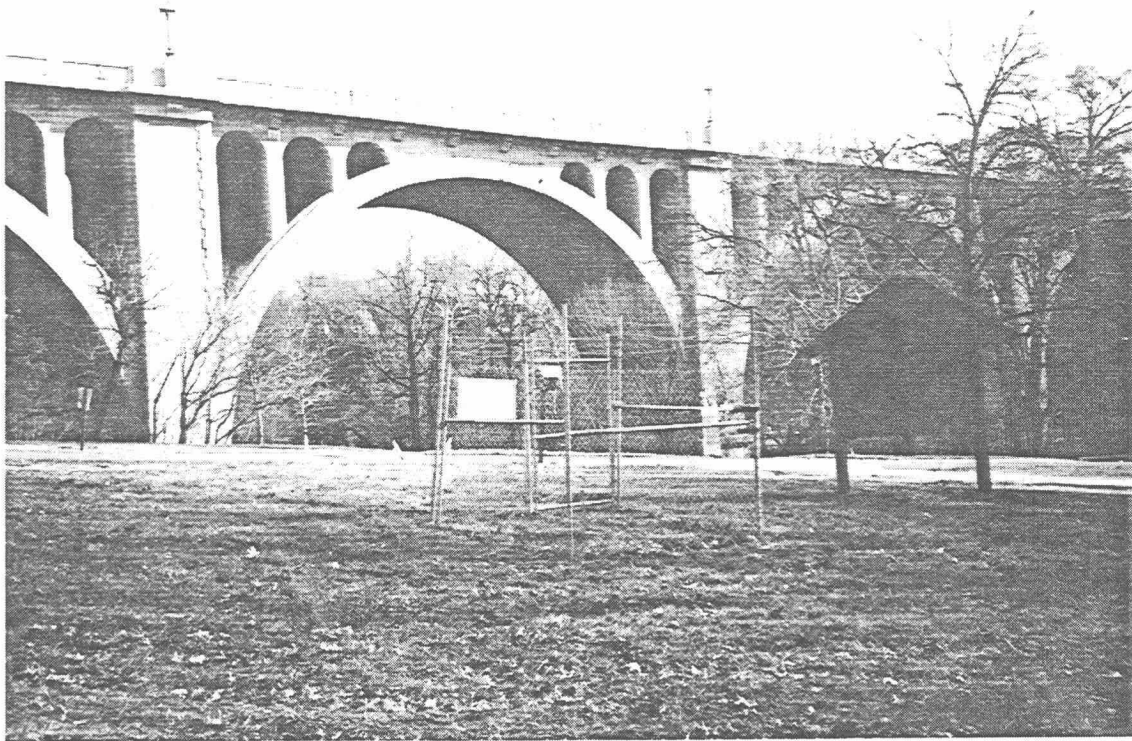
**Figure 10. Site Sketch, Rock Creek Parkway, Site 4**

*Site 4: Rock Creek Parkway, Beach Street*

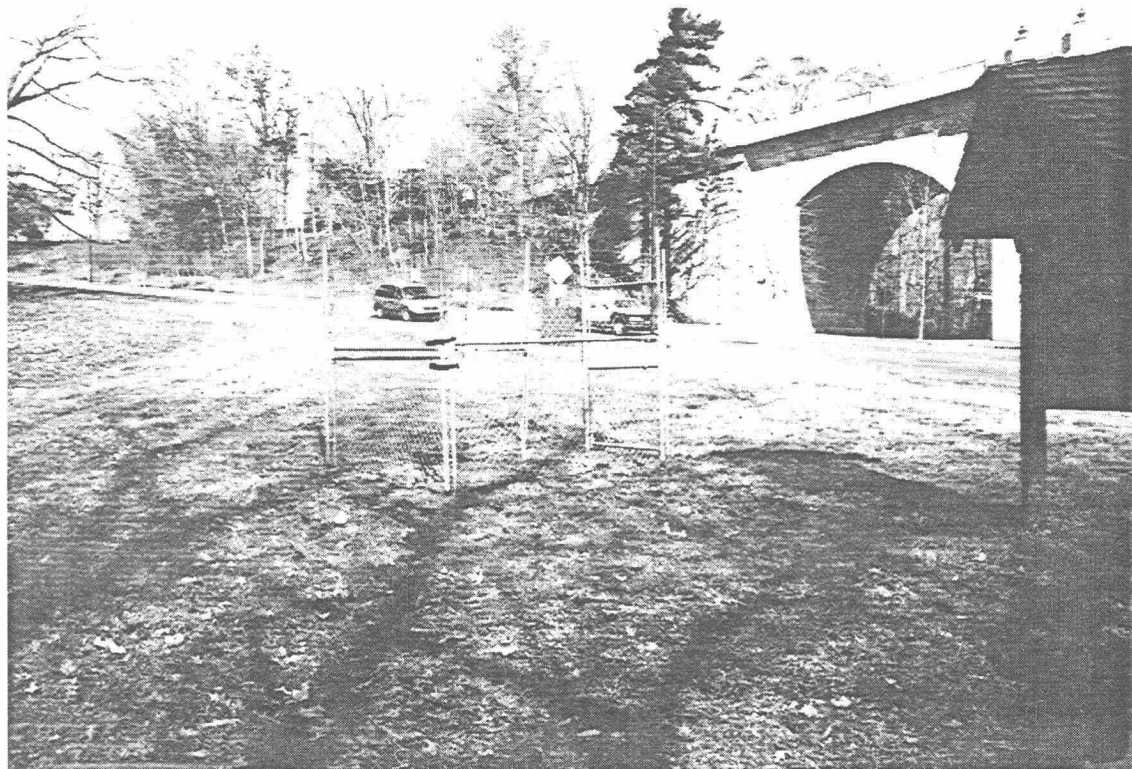
A plan view depiction of this site is shown below (not to scale).



**Figure 11. Rock Creek Parkway, Site 4  
(Beach Drive in Far Background, Calvert in Near Background)**



**Figure 12. Rock Creek Parkway, Site 4 (Calvert Street in Background)**





### ***Grab Site: Rest Area 2, along Beach Drive***

Security fences were used at the four previously defined sites so samplers could be left unattended. However, it was also desirable to collect data near the south end of Beach Drive because of the heavy rush hour traffic. On December 9, 1996, from 6:00 a.m. until 9:00 a.m. an attended site was used to measure this impact. The sampler was located 30 feet from the edge of Beach Drive (perpendicular distance) at about three feet above the roadway surface due to the sloping terrain. These results are also included in this report.

## **2.3 Equipment Description**

The air samplers used in this study were Air-Metrics (Eugene, Oregon) model 4.2, mini-vol units. The air monitoring units are shown in Figure 13. The samplers each contain a pump with selectable flow rates, a timer, tedlar bags, and associated electronics. The samplers may be programmed to fill tedlar sample bags at a user specified start and stop times. There are two 5 liter sample bags per sampler unit and each may be filled at programmed times.

In addition to the four sample units, a small meteorological station was set up at the golf course site to measure wind speed, wind direction and ambient temperature (see Figure 3). These data also permitted determination of stability classes and effects on mixing. An R.M. Young wind direction/wind speed weather vane was mounted at a height of twelve feet and used in conjunction with a Campbell 21X datalogger (see Figure 14) to record the weather data.

A Monitor Labs Non Dispersive Infrared (NDIR) CO monitor (ML 3890 CO; serial number 2500) was used to analyze the bag samples collected from the sites. Sample bags were collected and replaced each day and analyzed the same day. The NDIR was calibrated with ultrapure air (0 ppm CO) and EPA protocol span gas (24.6 ppm CO). Both calibration gases were U.S. EPA certified. The calibration was checked daily.

**Figure 13. Air Sample Devices (Bag Samplers)**

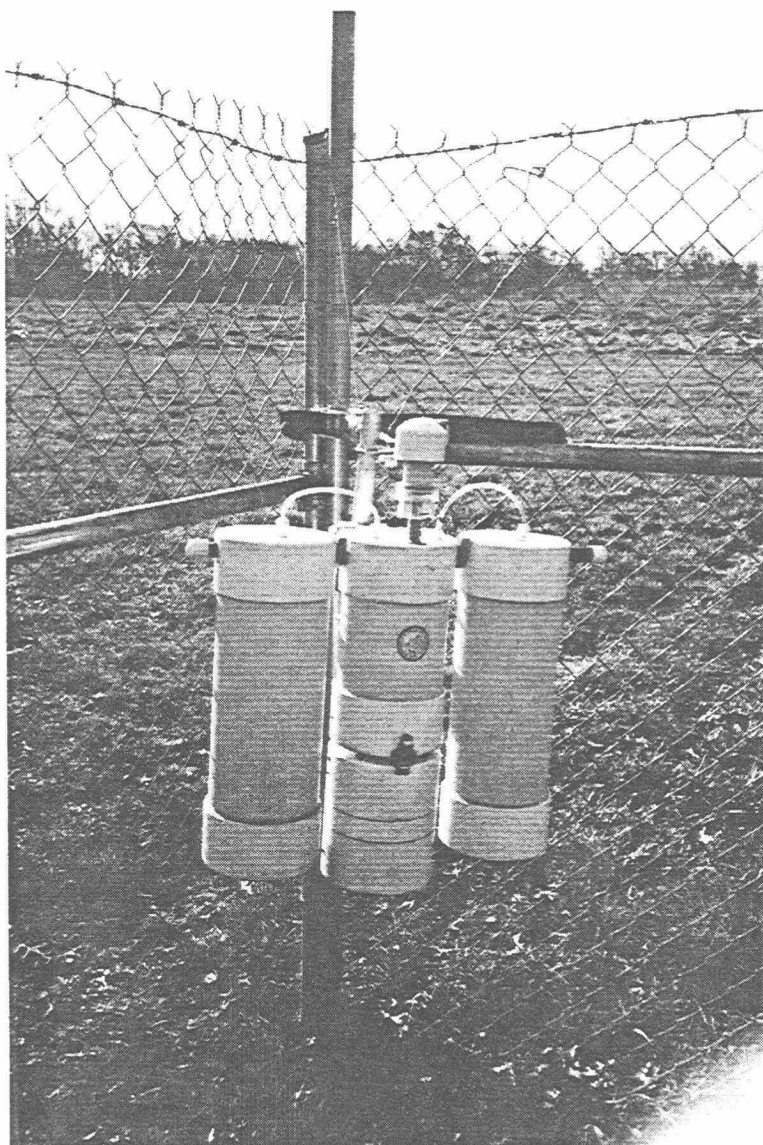


Figure 14. Electronic Data Logger for Meteorological Data





## 2.4 Sampling Details

Weather sampling began on Sunday, December 8, 1996. Air quality sampling was delayed due to freezing rain and snow and began the following day (Monday; 12/9/96). As such, only the relevant weather data is reported here. Sampling continued until Friday, December 20, 1996. The samplers at each site were programmed to fill a 5 liter bag over a three hour period from 6:00 a.m. to 9:00 a.m. each morning and fill another 5 liter bag over the period 4:00 p.m. to 7:00 p.m. each afternoon. Additionally, a 24 hour sample was collected at each site to help characterize daily concentrations.

Meteorological data was collected at the golf course site by the Campbell 21X datalogger, 24 hours a day for the duration of the study. Sample bags were collected midday each day and replaced with evacuated bags. At this time, the air sampler batteries were changed, timer programs checked and the run time meter value was recorded. The filled bags were tested using the ML 9830 CO NDIR and the results recorded. The calibration was checked daily.

## 2.5 Results

The measured data is contained in the following plots and tables.

### *Carbon Monoxide Measurement Results*

As previously stated, CO was measured during the peak traffic hours of 6:00 to 9:00 a.m. and 4:00 to 7:00 a.m. In addition, each site was measured for a twenty-four hour period to determine the average daily concentration. The results are discussed for each site individually.

#### Site 1: Golf Course Site (Background Site)

Table 1 shows the results of measurements at the background site. This site generally had low concentrations as expected since it was away from most major sources and was selected as a background site. The results are plotted in Figure 15. It can be seen that the concentrations varied from 0.09 to 1.66 ppm<sup>2</sup>.

#### Site 2: Colorado Avenue and 16th Street

The result from this site are reported in Table 2 and plotted in Figure 16. This site, used to characterize the impact from 16th Street, shows measurement values for CO that range from 0.14 to 3.38 ppm.

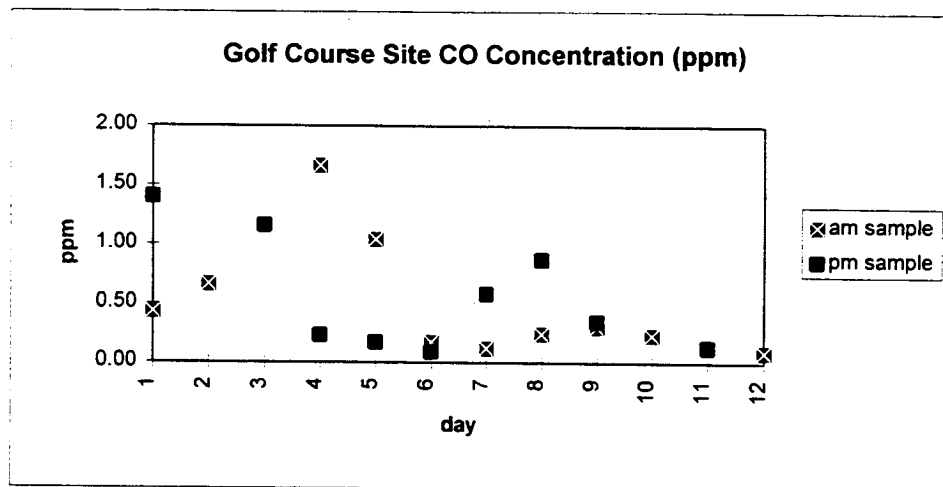
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<sup>2</sup> ppm = parts-per-million on a volume basis.

**Table 1. Golf Course Site (Background Site) CO Concentrations**

Day	A.M. 3 hr (ppm)	P.M. 3 hr (ppm)	24 hour (ppm)
Mon 12/9	0.43	1.40	
Tue 12/10	0.66		1.04
Wed 12/11		1.16	1.04
Thur 12/12	1.66	0.23	
Fri 12/13	1.04	0.17	
Sat 12/14	0.17	0.09	
Sun 12/15	0.12	0.58	
Mon 12/16	0.24	0.87	
Tue 12/17	0.30	0.35	
Wed 12/18	0.23		0.15
Thur 12/19		0.13	0.15
Fri 12/20	0.09		

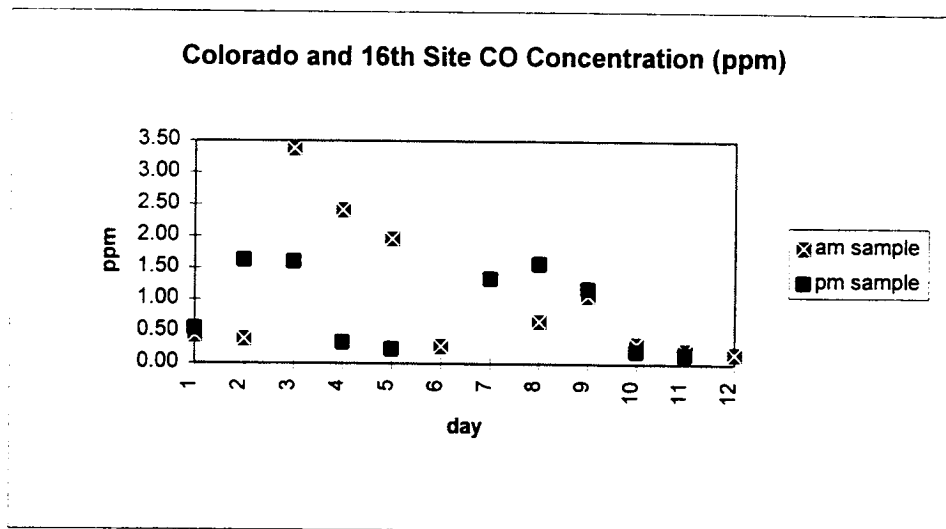
**Figure 15. Measured CO Concentrations, Site 1**



**Table 2. Colorado Avenue and 16th Street Site CO Concentrations**

Day	A.M. 3 hr (ppm)	P.M. 3 hr (ppm)	24 hour (ppm)
Mon 12/9	0.44	0.55	
Tue 12/10	0.38	1.63	
Wed 12/11	3.38	1.60	
Thur 12/12	2.41	0.33	
Fri 12/13	1.96	0.23	
Sat 12/14	0.27		0.16
Sun 12/15		1.34	0.16
Mon 12/16	0.66	1.57	
Tue 12/17	1.07	1.18	
Wed 12/18	0.31	0.20	
Thur 12/19	0.21	0.14	
Fri 12/20	0.16		

**Figure 16. Measured CO Concentrations, Site 2**





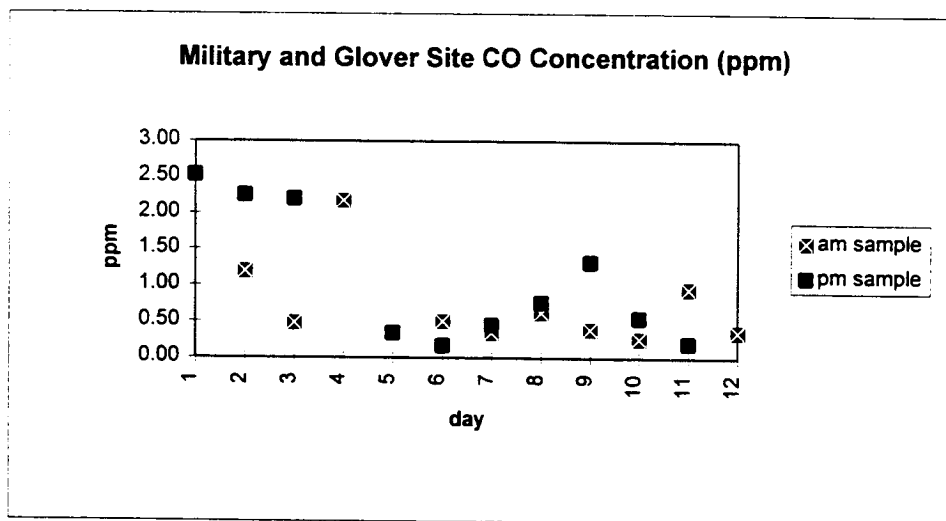
### Site 3: Military and Glover Road

The CO measurement results for site 3 are shown in Table 3 and Figure 17. This site was selected to characterize the impact from Military Road. The measured values ranged from 0.17 to 2.53 ppm.

**Table 3. Military Road and Glover Road Site CO Concentrations**

Day	a.m. 3 hr (ppm)	p.m. 3 hr (ppm)	24 hour (ppm)
Mon 12/9		2.53	
Tue 12/10	1.19	2.25	
Wed 12/11	0.48	2.20	
Thur 12/12	2.17		0.73
Fri 12/13		0.34	0.73
Sat 12/14	0.50	0.17	
Sun 12/15	0.34	0.45	
Mon 12/16	0.62	0.76	
Tue 12/17	0.39	1.32	
Wed 12/18	0.26	0.55	
Thur 12/19	0.95	0.20	
Fri 12/20	0.36		

**Figure 17. Measured CO Concentrations, Site 3**



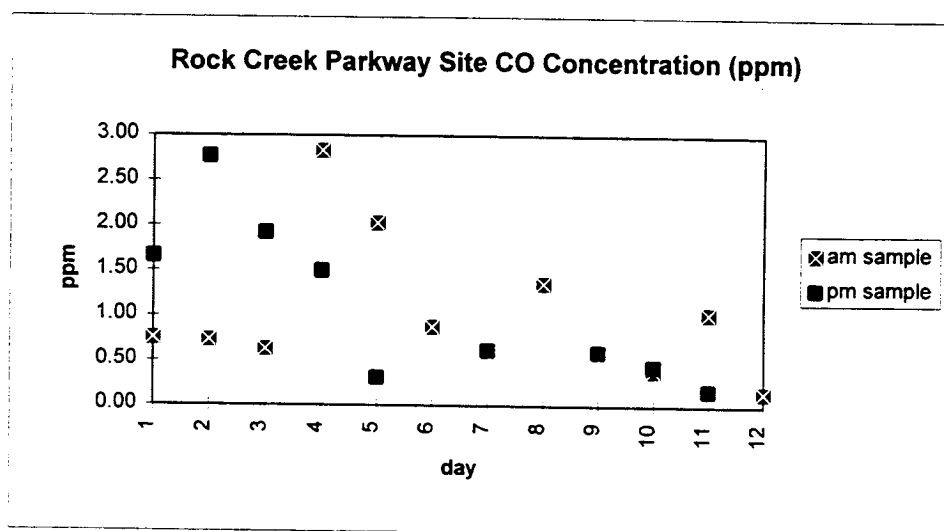
Site 4: Rock Creek / Potomac Parkway, Beach Drive and Calvert Street

The measured values for this site are reported in Table 4 and Figure 18. This site was selected to derive the impact from the busy intersection of Beach Drive, Rock Creek / Potomac Parkway and Calvert Street. This is important because of the heavy traffic and nearby jogging trails. The measured concentrations ranged from 0.15 to 2.83 ppm.

**Table 4. Rock Creek Parkway and Beach Drive Site CO Concentrations**

Day	A.M. 3 hr (ppm)	P.M. 3 hr (ppm)	24 hour (ppm)
Mon 12/9	0.75	1.66	
Tue 12/10	0.73	2.77	
Wed 12/11	0.63	1.92	
Thur 12/12	2.83	1.50	
Fri 12/13	2.03	0.31	
Sat 12/14	0.88		0.47
Sun 12/15		0.62	0.47
Mon 12/16	1.36		0.78
Tue 12/17		0.60	0.78
Wed 12/18	0.39	0.44	
Thur 12/19	1.03	0.17	
Fri 12/20	0.15		

**Figure 18. Measured CO Concentrations, Site 4**



Grab Site: 30 Feet West of Beach Drive in Picnic Area 2

This site was measured only on one day because of security (the site had to be manned). This "grab" sample was taken to help determine the impact from South Beach Drive during the rush hour. The measurement period was December 9, 1996 from 6:00 to 9:00 a.m. The measured value was 1.63 ppm.

Calibrations

Table 5 contains the NDIR calibration results for the upscale span at the end of each measurement period. Calibration was done each day using EPA protocol calibration gases of zero and 24.6 +/- 0.08 ppm of CO.

**Table 5. NDIR CO Calibration Span Gas Results**

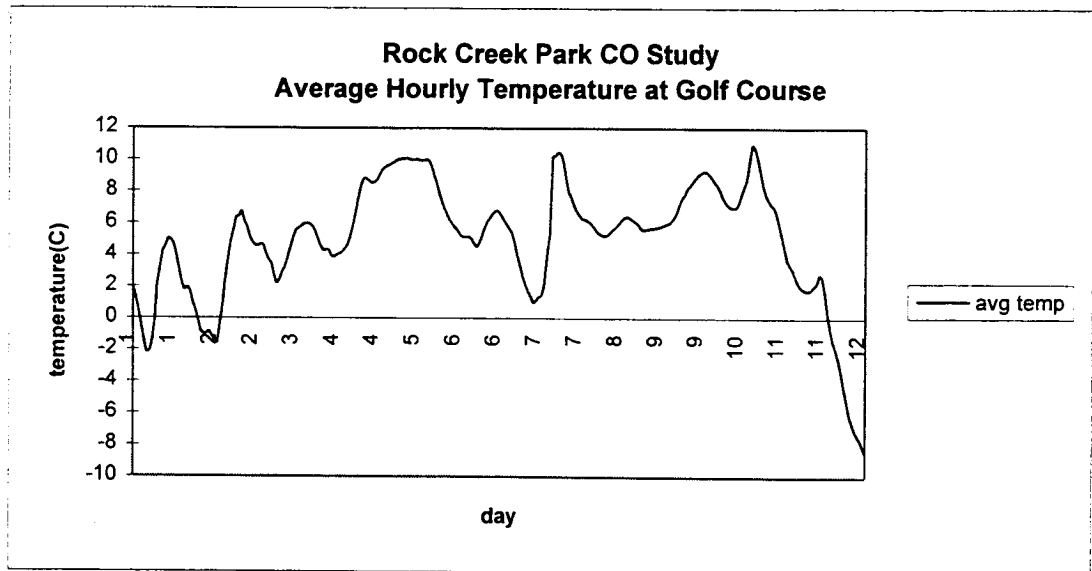
<b>Day</b>	<b>NDIR Span gas result (ppm)</b>
Mon 12/9	25.07
Tue 12/10	25.35
Wed 12/11	24.65
Thur 12/12	24.64
Fri 12/13	24.52
Sat 12/14	24.57
Sun 12/15	24.44
Mon 12/16	24.43
Tue 12/17	24.47
Wed 12/18	24.41
Thur 12/19	24.38
Fri 12/20	24.61

***Meteorological Measurement Results***

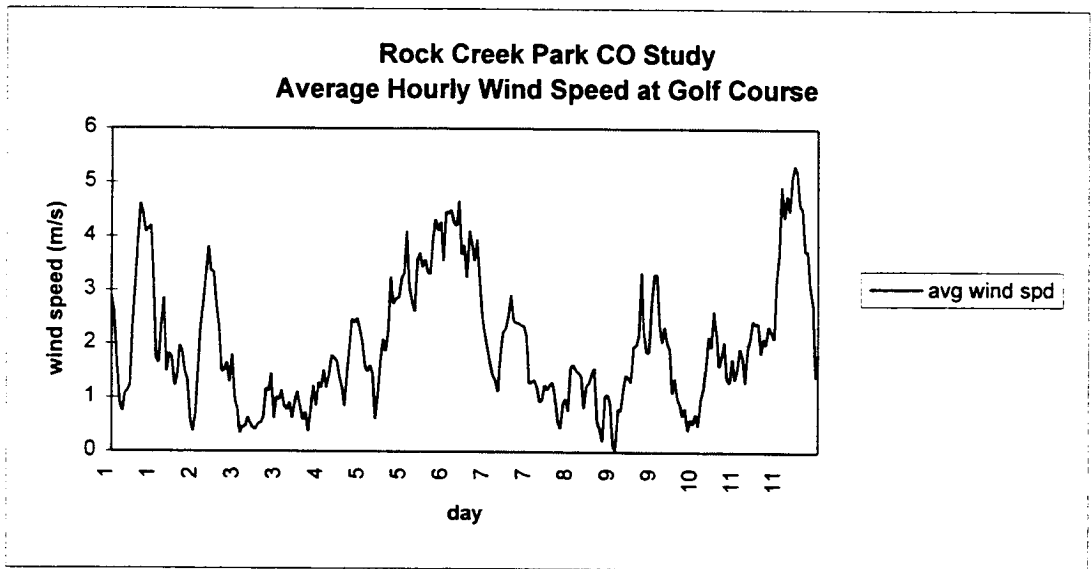
Meteorological data was recorded at the golf course site for the duration of this study, Sunday (12/9/96) to Friday (12/20/96). Figures 19, 20 and 21 contain a summary of hourly averages for wind speed, wind direction and temperature for each day of this study. Appendix A contains the raw data used to generate these figures.



**Figure 19. Hourly Temperature (°C)**

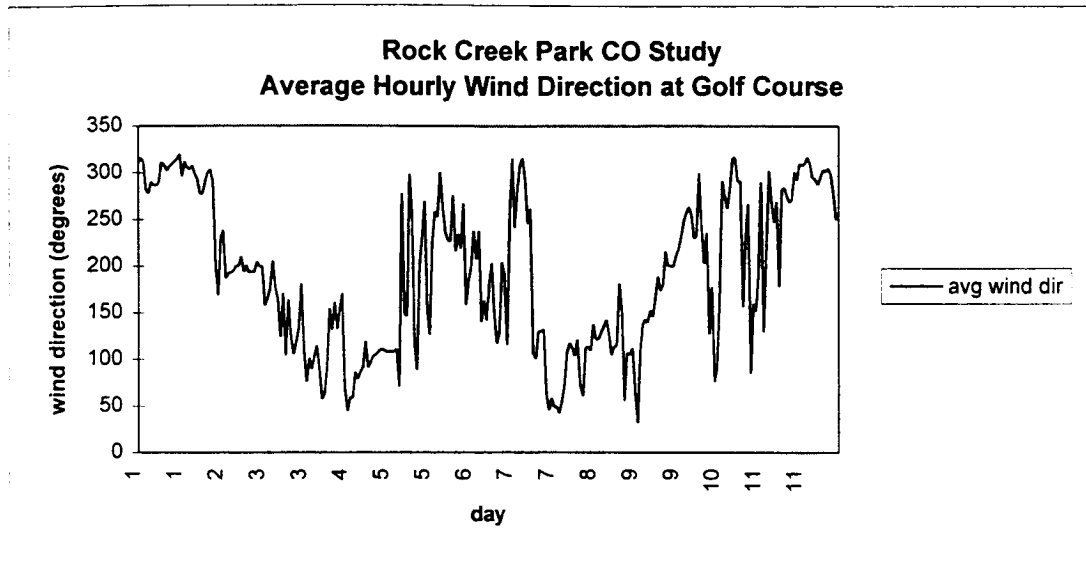


**Figure 20. Hourly Wind Speed (meters/second)**



**Figure 21. Hourly Wind Direction Average (degrees)**

**[North = 0 degrees]**



## 2.6 Conclusions

The concentrations were generally lower than expected. No concentrations approached the one hour National Ambient Air Quality Standard of 35 ppm or the eight hour standard of 9 ppm. The low values were a result of good mixing (windy and sunny days), wind direction (blowing away from the receptor locations many times) and precipitation events. Because of these variables, the data was carefully reviewed. Table 6 presents the data formatted in such a way to show the weather and CO data for the hours of concern (rush hours).

It can be seen that wind direction has a significant influence as would be expected. For example, at the Military Road site, the monitoring location was south of the roadway. As such, a northerly wind (the direction the wind is coming from) results in higher concentrations. Because the park is primarily in a valley, the wind is channeled in a general north/south direction. So when the winds are from north or south, wind blows along the valley. When the winds are from the east or west, there is a tendency to blow over the valley and not along it. These patterns are shown to be especially true for greater wind speeds. The impact of wind speed, and related mixing, also are apparent from the data in Table 6. Not shown, but also a dramatic impact was the days with precipitation. On these days, concentrations were quite low.

These data will be used to determine impacts for the Affected Environment section of proposed environmental documentation. For this documentation, the maximum concentration days for each site have been carefully reviewed and will be used. These data will be compared to historic monitoring data being collected for the project.

In sum, no major existing CO impacts were demonstrated in the park from this short term monitoring. Long term monitoring would be required to statistically validate area concentrations. However, these data provides insights into the impacts of wind direction, speed, and local area traffic. Using the collected data, along with historic data from nearby monitoring sites, a more comprehensive characterization of the park is possible. This characterization will allow the air quality of the park to be much better described in the Affected Environment section of the environmental impact statement.



Table 6. Data Summary

DATE	TEST DAY	HOUR	AVG WIND SPEED	AVG WIND DIRECTION	MEASUREMENT SITE CONCENTRATIONS (ppm)						
					BKGRD	16th ST. TOTAL	W/O BKGD	MILITARY TOTAL	W/O BKGD	ROCK CR. TOTAL	W/O BKGD
Mon 12/9		1 6 a.m.	1.12	286.60	0.43	0.44	0.01			0.75	0.32
		1 7 a.m.	1.23	286.56							
		1 8 a.m.	2.38	289.14							
		1 4 p.m.	3.33	320.13	1.40	0.55	0.00	2.53	1.98	1.66	1.11
		1 5 p.m.	1.75	295.89							
		1 6 p.m.	1.64	312.62							
Tue 12/10		2 6 a.m.	0.57	200.71	0.66	0.38	0.00	1.19	0.81	0.73	0.35
		2 7 a.m.	0.35	168.12							
		2 8 a.m.	0.71	230.53							
		2 4 p.m.	2.71	210.14		1.63		2.25		2.77	
		2 5 p.m.	2.30	193.74							
		2 6 p.m.	1.49	200.87							
Wed 12/11		3 6 a.m.	0.43	163.59		3.38		0.48		0.63	
		3 7 a.m.	0.40	123.42							
		3 8 a.m.	0.51	170.77							
		3 4 p.m.	0.95	107.80	1.16	1.60	0.44	2.20	1.04	1.92	0.76
		3 5 p.m.	1.14	75.33							
		3 6 p.m.	0.85	101.23							
Thur 12/12		4 6 a.m.	0.84	154.69	1.66	2.41	0.75	2.17	0.51	2.83	1.17
		4 7 a.m.	1.28	170.18							
		4 8 a.m.	1.17	69.50							
		4 4 p.m.	1.19	119.34	0.23	0.33	0.10			1.50	1.27
		4 5 p.m.	0.84	90.75							
		4 6 p.m.	1.47	96.83							
Fri 12/13		5 6 a.m.	1.05	277.57	1.04	1.96	0.92			2.03	0.99
		5 7 a.m.	1.65	148.72							
		5 8 a.m.	2.09	145.98							
		5 4 p.m.	3.31	153.07	0.17	0.23	0.06	0.34	0.17	0.31	0.14
		5 5 p.m.	4.10	125.83							
		5 6 p.m.	3.08	224.49							
Sat 12/14		6 6 a.m.	4.27	267.00	0.17	0.27	0.10	0.50	0.33	0.88	0.71
		6 7 a.m.	3.54	157.92							
		6 8 a.m.	4.46	183.84							
		6 4 p.m.	3.23	182.01	0.09			0.17	0.08		
		6 5 p.m.	4.11	202.51							
		6 6 p.m.	3.86	148.55							
Sun 12/15		7 6 a.m.	2.23	291.40	0.12			0.34	0.22		
		7 7 a.m.	2.28	244.99							
		7 8 a.m.	2.54	261.11							
		7 4 p.m.	1.27	58.68	0.58	1.34	0.89	0.45	0.00	0.62	0.17
		7 5 p.m.	1.29	48.51							
		7 6 p.m.	1.34	49.70							
Mon 12/16		8 6 a.m.	0.99	113.69	0.24	0.66	0.42	0.62	0.38	1.36	1.12
		8 7 a.m.	0.75	108.76							
		8 8 a.m.	1.57	137.79							
		8 4 p.m.	1.44	112.83	0.87	1.57	0.81	0.76	0.00		
		8 5 p.m.	1.56	113.85							
		8 6 p.m.	0.57	180.56							
Tue 12/17		9 6 a.m.	1.38	152.31	0.30	1.07	0.77	0.39	0.09		
		9 7 a.m.	1.30	145.00							
		9 8 a.m.	1.98	165.91							
		9 4 p.m.	3.30	210.44	0.35	1.18	0.83	1.32	0.97	0.60	0.25
		9 5 p.m.	3.31	217.41							
		9 6 p.m.	2.34	230.00							
Wed 12/18		10 6 a.m.	0.61	246.18	0.23	0.31	0.08	0.26	0.03	0.39	0.16
		10 7 a.m.	0.52	268.72							
		10 8 a.m.	0.71	176.82							
		10 4 p.m.	2.20	309.33	0.13	0.20	0.07	0.55	0.42	0.44	0.31
		10 5 p.m.	1.59	307.55							
		10 6 p.m.	1.78	309.22							
Thur 12/19		11 6 a.m.	2.45	176.92		0.21		0.95		1.03	
		11 7 a.m.	2.37	75.84							
		11 8 a.m.	2.41	90.47							
		11 4 p.m.	3.66	289.82		0.14		0.20		0.17	
		11 5 p.m.	4.95	291.04							
		11 6 p.m.	4.36	155.55							
Fri 12/20		12 6 a.m.	1.40	249.21	0.09	0.16	0.07	0.36	0.27	0.15	0.06
		12 7 a.m.	1.82	256.81							
		12 8 a.m.									

## **3.0 NOISE**

### **3.1 Introduction**

The purpose of this part of the study was to determine, through field monitoring, the existing noise environment within Rock Creek National Park and immediately adjacent to the Park in areas most likely to be affected by the project alternatives.

The noise measurements for the project were conducted on December 3-6, 1996.

### **3.2 Methodology**

#### ***Identification of noise sensitive areas***

Preliminarily, 26 sites were identified as potential noise monitoring locations. These sites were identified after a review of Rock Creek Park mapping and discussions with park personnel.

Sites were chosen to represent the areas in and around Rock Creek Park which would most likely be affected by traffic changes as a result of the alternatives under consideration. This criterion made it necessary to measure the noise environment for several different areas within the park boundaries as well as areas along the major roadways adjacent to the park.

#### ***Measurement of noise***

For each of the sites chosen for the noise study, attempts were made to measure the noise environment during peak hour traffic conditions and off-peak traffic conditions.

Two types of noise measurement devices were used in this study: four Metrosonics db-308 sound level analyzers and one Norsonics 116 sound level analyzer.

The Metrosonics db-308 analyzers were typically used for longer term, unmanned measurements at certain measurement sites. The data collected using these analyzers was recorded in one-minute periods and included the  $L_{eq}$  (equivalent sound level) and  $L_{max}$  (maximum sound level) for each period. The data was stored in the analyzers memory and then downloaded to a PC after the conclusion of the measurement.

The Norsonics 116 sound analyzer was used for shorter term measurements. Data was taken in ten one-minute periods for each measurement with two ten minute measurements typically made for each site. The data taken with the Norsonics 116 was stored into the memory of the analyzer and then hand recorded at the end of the day.

### ***Comparison to Standards***

The final step for the assessment of the existing noise environment for the project area was to compare the measured noise levels against the FHWA Noise Standards. These Noise Standards present a set of Noise Abatement Criteria (NAC) in 23 CFR Part 772.

All of the areas of concern for the project fall into the NAC land use category B definition, defined to include picnic areas, recreation areas, playgrounds, active sports areas, residences, motels, hotels, schools, churches, libraries and hospitals. The criterion level for category B is a 67 dB worst hour equivalent sound level ( $L_{eq}(1h)$ ) on the A-weighted scale. The Noise Standards state that noise impacts are serious enough to warrant consideration of abatement when either the  $L_{eq}(1h)$  approaches (defined by most states as 66 dB for category B) or exceeds the NAC for a given land use category, or, the  $L_{eq}(1h)$  from the project substantially exceeds the existing  $L_{eq}(1h)$  (defined by most states as an increase of 10 dB).

To characterize which areas of the project are currently impacted by traffic noise, a comparison was made between the measured  $L_{eq}$  and the NAC. The conclusions section of the noise portion of this report presents those impacts.

### **3.3 Study Sites and Measurement Results**

A total of 21 sites was finally chosen for measurement of existing traffic noise along the project length and in the surrounding areas of the park. These sites are shown on the map in Figure 1. Several other sites were initially selected for possible inclusion in the study, however, those not listed below were excluded for various reasons (most importantly, similarity to other selected sites). A summary of the peak and off-peak traffic noise measurements for the project is presented in Table 7.

The complete measurement data for the study is located in Appendix A.



**Table 7. Noise Measurement Results, December 3-6, 1996**

<b>Site</b>	<b>Description</b>	<b>Distance to Road (ft)</b>	<b>Peak Leq (dB)</b>	<b>Off-peak Leq (dB)</b>
E-1	Picnic Area #10, along Beach Drive	100	61	57
E-2	Picnic Area #10, along Beach Drive	200	--	58
F	Picnic Area #10, along Beach Drive	25	69	67
G	Picnic Area #2, along Beach Drive	100	62	62
H	Pierce Mill area, along Beach Drive	225	58	57
I-1	National Zoo, 30' from Rock Creek, along Beach Drive	250	61	58
I-2	National Zoo. 30' from perimeter road, along Beach Drive	350	--	57
J	Northwest of 86 Kalorama Circle (outside of the park)	250	60	62
K-1	Jogging trail south of Calvert, along Rock Creek Parkway	10	79	--
K-2	Jogging trail south of Calvert, along Rock Creek Parkway	60	68	66
K-3	Exercise station South of Calvert, along Rock Creek Parkway	100	67	65
L	Thompson Boat Center area, along Rock Creek Parkway	50	67	68
O	2801 Chesterfield, backyard facing Broad Branch	150	55	53
P	17th green of golf course, along Beach Drive	225	58	55
Q	3rd green of golf course, along Military Drive	200	63	63
R	West side of fairway on 4th hole of golf course, along 16th Street	300	57	58
S	Field at 16th Street and Morrow Drive, along 16th Street	200	60	59
T	Rapids Bridge Area, along trail east of creek, west of Beach Drive	5	71	69
V	Jogging trail, south of P Street, along Rock Creek Parkway	5	76	77
X	Front yard, 3000 Birch, facing Oregon Avenue	70	60	56
Y	Picnic Area # 6, along Beach Drive	130	58	--

***Site E: Picnic Area #10***

This site was broken down into two different measurement locations: E-1 and E-2. The main source of noise at these locations was the automobile traffic on Beach Drive. Traffic in the area was typically southbound in the morning as residents on the north side of the park drove into the city and northbound in the late afternoon and early evening as residents returned to the area from the south end of the park.

Site E-1 was located approximately 100 feet east of Beach Drive in Picnic Area #10. The location represents a typical distance between Beach Drive and visitors in the picnic area. Typical measured noise levels ranged from 56 dB to 62 dB for the automobile traffic on Beach Drive. The peak hour  $L_{eq}$  for Site E-1 was measured at 61 dB while the off-peak  $L_{eq}$  was measured as 57 dB.

Site E-2 was located approximately 200 feet east of Beach Drive in the picnic area. The location represents the noise environment experienced by visitors walking along the creek at the east side of Picnic Area #10. The peak hour  $L_{eq}$  for Site E-2 was measured as 58 dB. No off-peak measurement was conducted at this site.

***Site F: Picnic Area #10***

Site F was approximately 25 feet east of Beach Drive at Picnic Area #10. This distance was selected to represent sections of the foot trail to the south of the picnic area. The peak  $L_{eq}$  for site F was 69 dB and the off-peak  $L_{eq}$  was measured as 67 dB.

***Site G: Picnic Area #2***

This noise measurement site was approximately 100 feet west of Beach Drive and east of Rock Creek in Picnic Area #2. The distance of 100 feet was chosen based on the location of the picnic tables in the area.

The main source of noise at Site G was automobile traffic moving past the measurement site. Traffic flow was interrupted by the traffic signal at the intersection of Beach Drive and Park Road causing acceleration and deceleration noise at regular intervals. When traffic was flowing uninterrupted, typical noise levels ranged between 61 dB and 66 dB. The measured peak and off-peak  $L_{eq}$ 's for Site G were 62 dB.

***Site H: Pierce Mill***

Noise measurement Site H was located at the Pierce Mill area of the Park. The microphone was placed approximately 100 feet east of the north end of the parking lot between the paved trail and the dirt trail. This measurement location was selected to represent the park visitors using the trails in the area as well as those visiting Pierce Mill for a tour.

Traffic noise from Beach Drive was the primary noise source at Site H. Traffic flow was interrupted by the traffic signal at the intersection of Beach Drive and Park Road causing

acceleration and deceleration noise at regular intervals. Typical noise levels were in the 58 dB to 60 dB range when traffic was in a free flow condition. The measured peak  $L_{eq}$  for this location was 58 dB. The off-peak  $L_{eq}$  was measured as 57 dB.

#### ***Site I: National Zoo***

The noise environment at this location, on the east side of the National Zoo, was measured at two sites, I-1 and I-2. These sites were grassy areas commonly used for picnics.

Site I-1 was located 75 feet north of the bridge leading into the National Zoo, approximately 30 feet to the west of Rock Creek. This site was mainly affected by the noise from traffic on Beach Drive. Automobile traffic on Beach Drive typically produced noise levels of 57 to 60 dB. The peak  $L_{eq}$  for this site was measured as 61 dB while the off-peak  $L_{eq}$  was 58 dB.

Site I-2 was a measurement site 30 feet east of the perimeter road of the park and 50 feet north of the bridge leading into the National Zoo. Beach Drive traffic was the main noise source for this site, however, local traffic on the bridge leading into the zoo and on the perimeter road also contributed to the noise levels. Beach Drive traffic was observed to usually be in the range of 55 dB to 58 dB. The off-peak measured  $L_{eq}$  was 57 dB. No peak  $L_{eq}$  was measured for this site.

#### ***Site J: Kalorama Circle***

This measurement site was located outside the park, directly across the street from 86 Kalorama Circle on the hillside overlooking the Rock Creek Parkway. The microphone was approximately 40 feet from the edge of the street. This microphone placement was selected to represent the residential areas on the east side of Rock Creek Park not affected by traffic from any other roadways. Traffic noise from Rock Creek Parkway was the major noise source during the measurements.

Peak hour  $L_{eq}$  for Site J was found to be 60 dB while the off-peak  $L_{eq}$  was 62 dB. The peak hour  $L_{eq}$  is lower than the off-peak  $L_{eq}$  because of the one way traffic northbound during the afternoon peak hour measurement. The site is located on a hillside that blocks the noise from the south, and therefore, with no traffic flowing from the north side, the measured  $L_{eq}$  was lower during this period.

#### ***Site K: Exercise Area South of Calvert***

The Site K noise measurement location was divided into three separate noise measurement sites, K-1, K-2 and K-3.

Site K-1 was immediately adjacent to Rock Creek Parkway, one quarter mile south of Calvert Street, approximately 10 feet to the west of the curb. Site K-1 was selected as representative of the jogging trail along the parkway to the south of this area. Rock Creek

Parkway traffic noise was the only discernable noise source for the noise environment at this location. The peak hour  $L_{eq}$  for this site was measured as 79 dB. No off-peak measurement was made.

Site K-2 was 5 feet west of the jogging trail in the same area as Site K-1, approximately 60 feet from Rock Creek Parkway. Again, traffic noise from Rock Creek Parkway was the major noise source. A 68 dB peak hour  $L_{eq}$  was measured at this site. The Off-peak  $L_{eq}$  was measured as 66 dB.

Site K-3 was approximately 100 feet west of Rock Creek Parkway in the same area as Sites K-1 and K-2. This site was selected as representative of the noise environment for the pedestrians and joggers using the exercise stations in the area. Peak hour  $L_{eq}$  was measured as 67 dB while the off-peak  $L_{eq}$  was 65 dB.

#### ***Site L: Thompson Boat Area***

Site L was at the south end of Rock Creek Parkway just south of the entry to the Thompson's Boat area. The analyzer was placed approximately 50 feet to the west of Rock Creek Parkway, 75 feet south of the entrance to the boat center parking lot. This measurement location was selected to represent the pedestrians using the walking trails in the area.

The major noise source at this location was the traffic along Rock Creek Parkway and on Virginia Avenue, which intersects with the parkway at a traffic signal just east of the measurement location. Typical noise levels from the automobile traffic ranged from 67-68 dB during uninterrupted flow conditions (while the traffic signal was green for Rock Creek Parkway traffic) and was as high as 69 dB for traffic accelerating from a stop at the traffic signal. This section of the parkway did include bus and truck traffic with noise levels reaching as high as 77 dB for some of these vehicles.

Peak hour  $L_{eq}$  for this site was measured as 67 dB while the off-peak  $L_{eq}$  was 68 dB. The peak hour  $L_{eq}$  is one decibel lower than the measured  $L_{eq}$  during the off-peak period. This result is due to the traffic controls placed on Beach Drive during the afternoon rush hour. A policeman directs traffic at the intersection of Beach Drive and Virginia. The policeman occasionally halts the northbound Beach Drive traffic to allow the traffic on Virginia Avenue to flow onto Beach Drive. These pauses in traffic flow lower the measured  $L_{eq}$  for the site during the peak hour.

#### ***Site O: 2801 Chesterfield***

This noise measurement site was a long term measurement site at the residence located at 2801 Chesterfield Road. The analyzer was placed in the backyard of the house, at the top of a steep incline approximately 150 feet west of Broad Branch Road. This site was selected to characterize the noise environment along the west side of the park on Broad Branch Road.

Traffic along Broad Branch Road provided the main component to the noise environment. Typical traffic levels were observed in the 53 dB to 56 dB range. The peak hour  $L_{eq}$  for this site was 55 dB. The off-peak  $L_{eq}$  for this site was 53 dB.

***Site P: Golf Course, 17<sup>th</sup> Green***

Site P was measured on the west side of the Rock Creek Golf Course approximately 20 feet west of the 17th green. The site is elevated above Beach Drive approximately 250 feet from the roadway. Site P was chosen as representative of the noise environment along Beach Drive for those areas elevated above the roadway.

The traffic along Beach Drive was the major component of the noise environment for this site. Typical traffic noise levels were observed in the 56 dB to 58 dB range. The peak hour  $L_{eq}$  for Site P was 58 dB. The off-peak  $L_{eq}$  for this site was 55 dB.

***Site Q: Golf Course, 3<sup>rd</sup> Green***

Site Q was measured at the south end of the Rock Creek Golf Course approximately 30 feet south and 30 feet east of the 3rd green. The site is elevated above Military Road which runs east-west approximately 200 feet from the measurement site. Site Q was chosen as representative of the noise environment along Military Road.

The traffic along Military Road was the major component of the noise environment for this site. Typical traffic noise levels were observed in the 59 dB to 64 dB range. Military Road traffic included buses, medium trucks and heavy trucks in addition to automobiles. The peak hour  $L_{eq}$  for Site Q was measured as 63 dB. The measured off-peak  $L_{eq}$  for this site was also 63 dB.

***Site R: Golf Course, 4<sup>th</sup> Hole***

This noise measurement location was approximately 300 feet west of 16th Street, 250 feet north of the tee box on the 4th hole of the Rock Creek Golf Course. The measurement site was directly west of the intersection of Joyce Road and 16th Street. This site was chosen as representative of the noise environment along 16th Street north of Military Road.

The main noise source measured at this location was the traffic on 16th Street. Typical traffic noise levels for the measurements ranged from 57-60 dB for automobile traffic to 63 dB for loud truck traffic. A peak hour  $L_{eq}$  of 57 dB was measured at this location while the off-peak  $L_{eq}$  was 58 dB. The off-peak  $L_{eq}$  was most likely higher than the peak because of a higher percentage of truck traffic during the off-peak periods.

***Site S: 16<sup>th</sup> and Morrow***

Site S was a measurement site 200 feet west of 16th Street and 100 feet north of Morrow Drive. This measurement site is representative of the traffic noise experienced by the areas along 16th Street south of Military Drive.



The major noise source for the site was traffic along 16th Street. Traffic noise levels were variable dependent upon the traffic signal at the intersection of 16th Street and Morrow Drive. Noise levels associated with free flowing traffic on 16th Street were observed to be in the range of 58 dB to 61 dB for automobiles and as high as 65 dB for louder truck traffic. Accelerating buses and trucks were measured at noise levels as high as 80 dB in one instance. The peak hour  $L_{eq}$  for the site was measured as 60 dB. The measured off-peak  $L_{eq}$  was 59 dB.

***Site T: Rapids Bridge***

This noise measurement site was located 400 feet north of the Rapids Bridge and 5 feet west of the curb along Beach Drive. Site T was selected to represent the noise environment along the trail on the west side of Rock Creek in this area.

Because of the close distance of the trail to Beach Drive, the traffic on Beach Drive is the major noise source for the site. Automobile traffic typically produced noise levels in the range of 73 dB to 75 dB.

***Site V: Jogging Trail South of P Street***

Site V was located 5 feet west of the Rock Creek Parkway approximately 1000 feet south of the entrance ramp at P Street. The site is representative of the jogging trail between P Street and M Street.

Rock Creek Parkway traffic was the major noise source at Site V. Automobiles typically produced noise levels ranging from 73 dB to 76 dB. The peak hour measurement was conducted during the afternoon traffic rush when the traffic in all four lanes was headed northbound. However, the peak hour measurement indicates an equivalent sound level of 76 dB while the off-peak measurement equivalent sound level was 77 dB.

The peak hour equivalent sound level is less than the off-peak because of the one-way traffic during the afternoon rush hour. The peak hour measurement was made as all traffic on Rock Creek Parkway was northbound. Field observation revealed that though traffic was heavy, most drivers were not making use of the two lanes which are southbound during the off-peak hours of the day. Since the drivers did not use these lanes, most of the traffic was traveling at a greater distance from the microphone than during the off-peak measurement time.

***Site X: 3000 Birch***

Measurements at Site X were conducted at a distance of 70 feet west of Oregon Avenue in the front yard of the residence at 3000 Birch Avenue. This site was chosen as a typical noise environment for the residences facing Oregon Avenue on the northwest side of the park.

The peak hour equivalent sound level of 60 dB was produced by traffic on Oregon Avenue. Automobile traffic noise levels typically ranged from 59 dB to 62 dB. The off-peak equivalent sound level at Site X was 56 dB. This site also represents the noise environment typical for the playing fields of the school in the northwest quadrant of the intersection of Military Drive and Oregon Avenue.

***Site Y: Picnic Area #6***

Site Y was located 130 feet west of Beach Drive in Picnic Area #6. This site was chosen as representative of the picnic areas north of Military Drive.

Traffic on Beach Drive was the main source of noise for Site Y. Field observations indicated that automobiles produced noise levels in the range of 58 dB to 64 dB. The peak hour equivalent sound level for this site was 58 dB. No off-peak measurement was made.

### **3.4 Conclusions**

Generally, the worst hour noise levels for the various areas of the park range from 57 dB on the Rock Creek Golf Course and at Pierce Mill to 79 dB for the jogging trail within 10 feet of Rock Creek Parkway.

In the section of the park from the north end to Military Road, the only areas that have noise levels over the NAC are the pedestrian and equestrian trails within 50 feet of Beach Drive (where noise levels are typically in the upper 60's). None of the picnic areas (with noise levels ranging from 58 dB to 61 dB) are impacted by traffic noise. The residences along the major streets bordering the park (Oregon Avenue and 16<sup>th</sup> Street) are not impacted by park traffic.

Impacted sites for the section of the park extending from Military Road to Connecticut Avenue include foot trails and picnic areas within 60 feet of Beach Drive. The residences outside of the park along Broad Branch Road and 16<sup>th</sup> Street are not impacted by park traffic. No areas typically used by the visitors at the National Zoo are impacted by traffic on Beach Drive.

For the section of the park south of Connecticut Avenue, any park areas that are within 110-125 feet of Rock Creek Parkway currently experience levels high enough to warrant consideration of noise abatement. These areas specifically include the pedestrian trail along the Parkway and the exercise stations south of Connecticut Avenue. The residences bordering the park on and near Kalorama Circle are not impacted according to FHWA guidelines.

**Appendix A**  
**Raw Meteorological Data During Air Quality Monitoring**

# Tabulated Average Hourly Temperatures (degrees Centigrade)

	Mon 12/9	Tue 12/10	Wed 12/11	Thur 12/12	Fri 12/13	Sat 12/14	Sun 12/15	Mon 12/16	Tue 12/17	Wed 12/18	Thur 12/19	Fri 12/20
time	avg temp	avg temp	avg temp	avg temp	avg temp	avg temp	avg temp	avg temp	avg temp	avg temp	avg temp	avg temp
0	1.99	-0.15	4.65	4.36	9.80	5.48	2.64	6.17	5.72	8.40	5.21	-5.27
1	1.40	-0.85	4.08	3.96	9.92	5.24	2.10	6.04	5.73	8.11	4.41	-6.06
2	0.60	-1.02	3.69	3.87	10.01	5.14	1.71	5.84	5.77	7.66	3.70	-6.63
3	-0.31	-0.99	3.49	4.03	10.05	5.17	1.37	5.59	5.81	7.36	3.33	-7.07
4	-1.40	-0.82	2.69	4.06	10.05	5.18	0.93	5.38	5.87	7.15	3.07	-7.40
5	-2.19	-1.12	2.16	4.17	10.09	5.04	1.13	5.28	5.95	7.02	2.65	-7.66
6	-2.17	-1.43	2.40	4.37	10.02	4.71	1.38	5.23	6.03	6.99	2.27	-8.12
7	-1.61	-1.62	2.91	4.61	9.98	4.51	1.40	5.24	6.15	6.99	2.00	-8.49
8	-0.33	-0.45	3.25	5.09	10.00	4.77	2.11	5.38	6.36	7.26	1.86	
9	2.14	0.81	3.79	5.80	10.01	5.30	3.88	5.59	6.66	7.84	1.77	
10	3.27	2.47	4.46	6.54	9.95	5.79	5.32	5.72	7.16	8.31	1.75	
11	4.28	3.84	5.05	7.49	9.92	6.16	10.24	5.91	7.57	8.78	1.84	
12	4.57	4.90	5.58	8.31	10.01	6.38	-----	6.09	7.79	9.97	2.05	
13	5.04	5.64	5.69	8.81	9.97	6.65	10.49	6.31	8.18	11.00	2.17	
14	4.95	6.41	5.79	8.82	9.60	6.79	10.38	6.44	8.38	10.79	2.80	
15	4.67	-----	5.97	8.64	9.05	6.76	9.82	6.42	8.61	10.11	2.70	
16	3.91	6.77	6.00	8.54	8.52	6.51	8.72	6.30	8.86	9.28	1.71	
17	3.08	6.09	5.94	8.55	7.87	6.20	7.96	6.16	9.03	8.36	0.43	
18	2.20	5.80	5.79	8.67	7.28	5.93	7.61	6.07	9.18	7.82	-0.71	
19	1.76	5.17	5.49	8.99	6.87	5.68	7.11	5.87	9.29	7.45	-1.48	
20	1.98	4.84	5.02	9.34	6.49	5.41	6.74	5.64	9.28	7.18	-1.99	
21	1.73	4.59	4.58	9.51	6.17	4.76	6.50	5.59	9.11	7.03	-2.60	
22	0.94	4.60	4.26	9.61	5.93	4.02	6.29	5.66	8.87	6.56	-3.48	
23	0.54	4.70	4.34	9.70	5.72	3.33	6.26	5.69	8.64	5.86	-4.39	

----- indicates datalogger down for data retrieval

# Tabulated Average Hourly Wind Speed (meters/sec)

	Mon 12/9	Tue 12/10	Wed 12/11	Thur 12/12	Fri 12/13	Sat 12/14	Sun 12/15	Mon 12/16	Tue 12/17	Wed 12/18	Thur 12/19	Fri 12/20
time	avg wnd spd	avg wnd spd	avg wnd spd	avg wnd spd	avg wnd spd	avg wnd spd	avg wnd spd	avg wnd spd	avg wnd spd	avg wnd spd	avg wnd spd	avg wnd spd
0	2.88	1.21	0.80	0.81	2.01	3.58	1.91	1.25	0.11	1.37	1.54	4.60
1	2.58	1.41	0.33	0.58	1.58	3.32	1.64	1.30	0.02	1.00	1.93	4.52
2	1.67	1.97	0.46	0.73	1.48	3.30	1.42	1.01	0.81	0.90	1.74	3.74
3	0.89	1.87	0.45	0.35	1.60	3.96	1.32	0.58	0.76	0.67	1.28	3.75
4	0.74	1.48	0.64	0.79	1.43	4.32	1.12	0.43	1.15	0.82	1.93	3.09
5	1.07	1.33	0.52	1.22	0.59	4.11	1.80	0.91	1.43	0.39	2.12	2.75
6	1.12	0.57	0.43	0.84	1.05	4.27	2.23	0.99	1.38	0.61	2.45	1.40
7	1.23	0.35	0.40	1.28	1.65	3.54	2.28	0.75	1.30	0.52	2.37	1.82
8	2.38	0.71	0.51	1.17	2.09	4.46	2.54	1.57	1.98	0.71	2.41	
9	3.09	1.52	0.52	1.51	1.85	4.43	2.92	1.63	1.97	0.48	1.82	
10	3.93	2.30	0.63	1.18	2.26	4.50	2.43	1.52	2.19	0.99	2.12	
11	4.62	2.78	1.17	1.44	3.25	4.25	2.39	1.47	3.35	1.17	1.99	
12	4.42	3.29	1.12	1.79	2.74	4.20	-----	1.41	2.22	1.59	2.35	
13	4.08	3.81	1.45	1.73	2.85	4.67	2.34	0.81	1.85	2.15	2.23	
14	4.14	3.34	0.60	1.68	2.86	3.66	2.33	1.23	1.85	1.94	2.10	
15	4.20	-----	1.02	1.40	3.22	3.84	2.12	1.27	2.79	2.63	3.24	
16	3.33	2.71	0.95	1.19	3.31	3.23	1.27	1.44	3.30	2.20	3.66	
17	1.75	2.30	1.14	0.84	4.10	4.11	1.29	1.56	3.31	1.59	4.95	
18	1.64	1.49	0.85	1.47	3.08	3.86	1.34	0.57	2.34	1.78	4.36	
19	2.39	1.50	0.77	1.98	2.78	3.55	1.19	0.42	2.04	2.05	4.78	
20	2.86	1.65	0.91	2.46	2.60	3.94	0.93	0.19	2.34	1.37	4.47	
21	1.48	1.28	0.61	2.40	3.56	3.11	0.96	1.04	2.03	1.29	5.07	
22	1.82	1.80	0.92	2.48	3.70	2.46	1.25	1.07	1.90	1.74	5.33	
23	1.75	0.97	1.11	2.26	3.43	2.16	1.15	0.91	1.10	1.35	5.22	

----- indicates datalogger down for data retrieval



# Tabulated Average Hourly Wind Direction (degrees)

[North = 0 degrees]

	Mon 12/9	Tue 12/10	Wed 12/11	Thur 12/12	Fri 12/13	Sat 12/14	Sun 12/15	Mon 12/16	Tue 12/17	Wed 12/18	Thur 12/19	Fri 12/20
time	avg wnd dir	avg wnd dir	avg wnd dir	avg wnd dir	avg wnd dir	avg wnd dir	avg wnd dir	avg wnd dir	avg wnd dir	avg wnd dir	avg wnd dir	avg wnd dir
0	310.60	278.03	199.93	63.45	108.09	227.77	252.02	112.39	65.87	192.92	232.30	294.93
1	316.17	277.46	157.49	93.08	107.50	226.15	315.41	103.27	31.66	289.61	299.32	302.42
2	312.11	289.67	165.12	154.21	108.66	275.65	240.32	121.07	105.31	128.63	240.61	301.40
3	281.46	299.70	176.50	131.36	107.76	215.45	281.18	72.89	135.47	211.77	201.91	304.64
4	277.64	303.82	205.43	160.77	110.86	234.33	307.53	60.15	142.62	301.79	234.81	297.53
5	290.31	289.77	176.18	132.32	70.42	218.73	315.54	111.98	138.89	268.30	126.53	275.86
6	286.60	200.71	163.59	154.69	277.57	267.00	291.40	113.69	152.31	246.18	176.92	249.21
7	286.56	168.12	123.42	170.18	148.72	157.92	244.99	108.76	145.00	268.72	75.84	256.81
8	289.14	230.53	170.77	69.50	145.98	183.84	261.11	137.79	165.91	176.82	90.47	
9	311.38	238.34	103.94	44.34	298.46	198.38	106.22	120.90	187.94	281.98	161.57	
10	308.34	186.69	164.10	60.17	259.08	237.29	100.25	121.44	172.85	283.54	290.87	
11	302.19	192.32	123.59	58.18	115.79	206.71	129.81	129.08	178.86	274.25	273.49	
12	307.29	192.65	105.48	86.03	88.43	237.35	-----	135.50	215.06	267.72	260.94	
13	309.13	195.00	118.40	78.70	200.92	139.66	131.67	142.20	199.53	271.12	285.16	
14	312.31	200.34	134.33	86.28	230.35	162.67	61.31	126.77	199.65	300.20	315.53	
15	314.83	-----	180.93	91.99	269.27	141.52	45.62	104.34	198.45	291.70	316.15	
16	320.13	210.14	107.80	119.34	153.07	182.01	58.68	112.83	210.44	309.33	289.82	
17	295.89	193.74	75.33	90.75	125.83	202.51	48.51	113.85	217.41	307.55	291.04	
18	312.62	200.87	101.23	96.83	224.49	148.55	49.70	180.56	230.00	309.22	155.55	
19	305.40	193.02	89.48	104.03	258.39	116.46	42.14	152.55	247.63	316.18	231.29	
20	303.69	193.81	102.81	104.49	252.31	127.44	54.55	55.35	256.50	310.26	265.91	
21	308.38	193.21	114.79	107.93	300.66	203.76	73.64	106.24	262.90	294.87	84.62	
22	298.86	204.83	90.35	110.77	261.08	190.05	106.78	104.48	254.53	292.54	159.07	
23	293.53	199.31	57.15	110.11	235.52	114.96	116.98	111.45	228.94	286.64	150.75	

----- indicates datalogger down for data retrieval

## **Appendix B**

### **Noise Measurement Data**

**Rock Creek Park 1996**  
**Summary of Measurement Data**  
December 3-6, 1996

Date	Site	Description	Time Start	Time End	Equip	Filename	Leq	Lmax
12/3/96	H	Pierce Mill	4.30 PM	4.40 PM	N116	961203-001	58.0	61.4
			4.41 PM	4.51 PM		961203-002	58.0	62.4
	R	Golf Course - 4th Hole	5.30 PM	5.40 PM	N116	961203-003	57.2	61.7
			5.43 PM	5.53 PM		961203-004	57.2	64.3
12/4/96	F	Picnic Area #10, 25' dist.	7.05 AM	7.55 AM	M#1948	BIN2		
	E-2	Picnic Area #10, 200' dist.	7.10 AM	7.20 AM	N116	961204-001	56.9	60.9
			7.21 AM	7.31 AM		961204-002	56.4	62.9
	S	16th & Morrow Field	7.48 AM	7.58 AM	N116	961204-003	60.9	79.8
			8.05 AM	8.10 AM		961204-004	59.5	68.7
	O	2801 Chesterfield	8.48 AM	6.30 PM	M#1967	BIN3	54.3	
	X	3000 Birch	9.14 AM	6.47 PM	M#1947	BIN4	57.7	
	K-2	Excercise Area, S of Calvert	11.05 AM	11.15 AM	N116	961204-005	65.1	70.2
			11.16 AM	11.26 AM		961204-006	66.0	71.2
	J	86 Kalorama Circle	1.58 PM	2.08 PM	N116	961204-007	62.0	67.2
			02:08 PM	02:18 PM		961204-008	62.4	75.5
	G	Picnic Area #2	02:52 PM	03:02 PM	N116	961204-009	61.8	68.3
			03:03 PM	04:13 PM		961204-010	62.4	68.3
	V	Trail, South of P	03:40 PM	03:50 PM	N116	961204-011	76.3	82.4
			04:00 PM	04:10 PM		961204-012	75.3	82.8
			04:10 PM	04:20 PM		961204-013	76.4	83.3
12/5/96	Q	Golf Course - 3rd Green	04:55 PM	05:05 PM	N116	961204-014	62.9	67.4
			05:10 PM	05:20 PM		961204-016*	63.1	67.4
	G	Picnic Area #2	05:50 PM	06:00 PM	N116	961204-017	62.4	69.0
			06:01 PM	06:11 PM		961204-018	62.4	66.3
	K-1	Excercise Area, S of Calvert	07:00 AM	07:27 AM	M#1948	BIN5		
	K-2	Excercise Area, S of Calvert	07:02 AM	07:12 AM	N116	961205-001	67.7	72.1
			07:14 AM	07:24 AM		961205-002	68.2	71.6
	K-3	Excercise Area, S of Calvert	07:29 AM	03:25 PM	M#1948	BIN5		
	F	Picnic Area #10, 25' dist.	08:13 AM	08:43 AM	M#1947	BIN6		
	E-2	Picnic Area #10, 200' dist.	08:17 AM	08:27 AM	N116	961205-003	57.8	63.3
	E-1	Picnic Area #10, 100' dist.	08:30 AM	08:40 AM	N116	961205-004	59.1	65.7
	H	Pierce Mill	09:50 AM	10:00 AM	N116	961205-005	57.6	63.2
			10:01 AM	10:11 AM		961205-006	57.0	61.0
	I-1	National Zoo, 30' from creek	10:34 AM	05:17 PM	M#1967	BIN7		
	I-2	National Zoo, 130' from creek	10:42 AM	10:52 AM	N116	961205-007	57.2	62.8
			10:56 AM	11:06 AM		961205-008	57.4	61.4
12/6/96	P	Golf Course - 17th Green	11:50 AM	12:00 PM	N116	961205-009	54.4	60.6
			12:01 PM	12:11 PM		961205-010	55.1	62.0
	S	16th & Morrow Field	02:51 PM	03:01 PM	N116	961205-011	59.1	68.4
			03:02 PM	03:12 PM		961205-012	58.3	67.1
	T	Rapids Bridge Area	03:46 PM	03:56 PM	N116	961205-013	68.9	80.0
			03:57 PM	04:07 PM		961205-014	68.7	78.5
	P	Golf Course - 17th Green	04:31 PM	04:41 PM	N116	961205-015	57.8	62.5
			04:43 PM	04:53 PM		961205-016	57.4	61.6
	J	86 Kalorama Circle	05:38 PM	05:48 PM	N116	961205-017	60.0	67.0
			05:50 PM	06:00 PM		961205-018	60.2	64.0
	E-1	Picnic Area #10, 100' dist.	06:06 AM	05:20 PM	M#1947	BIN8		
	I-1	National Zoo, 30' from creek	06:25 AM	04:30 PM	M#1967	BIN9		
	Y	Picnic Area #6	07:07 AM	07:17 AM	N116	961206-001	58.7	67.4
			07:18 AM	07:28 AM		961206-002	57.9	64.4
	T	Rapids Bridge Area	07:42 AM	07:52 AM	N116	961206-003	70.8	79.3
			07:53 AM	08:03 AM		961206-004	71.4	78.2
12/6/96	V	Trail, South of P	01:01 PM	01:11 PM	N116	961206-005	77.4	90.5
			01:13 PM	01:23 PM		961206-006	77.2	86.4
	L	Thompson Boat Center	01:40 PM	01:50 PM	N116	961206-007	68.1	77.2
			01:52 PM	02:02 PM		961206-008	67.9	74.6
	Q	Golf Course - 3rd Green	02:34 PM	02:44 PM	N116	961206-009	62.8	69.1
			02:45 PM	02:55 PM		961206-010	63.4	73.3
	R	Golf Course - 4th Hole	03:09 PM	03:19 PM	N116	961206-011	57.4	65.2
			03:20 PM	03:30 PM		961206-012	58.0	66.9
	L	Thompson Boat Center	04:00 PM	04:10 PM	N116	961206-013	66.5	75.5
			04:11 PM	04:21 PM		961206-014	67.3	82.3

\* Note the skip in record number due to an incomplete or interrupted measurement.

**Rock Creek Park 1996**  
**Summary of Measurement Data**  
 December 3, 1996 - N116 Data

REC#	001	002	003	004
Site	H	H	R	R
Start	04:30 PM	04:41 PM	05:30 PM	05:43 PM
Leq	58.0	58.0	57.2	57.2
Lmax	61.4	62.4	61.7	64.3
Lmin	53.9	53.4	51.4	50.5
SEL	85.8	85.8	85.0	85.0
L10	59.4	59.6	59.6	59.9
L50	58.1	58.1	56.6	56.5
L90	55.8	55.5	53.1	52.6
Period				
1	58.1	58.9	55.2	57.7
2	58.0	56.7	58.4	58.4
3	57.4	58.2	58.1	58.3
4	59.0	58.6	56.3	57.2
5	57.5	58.0	55.5	55.1
6	58.2	57.9	58.0	56.5
7	57.9	56.4	57.0	57.2
8	57.5	58.6	58.3	57.1
9	58.8	58.2	55.6	55.9
10	57.1	<b>59.4</b>	57.6	57.5
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Periods shown in bold contain data for paused interv

**Rock Creek Park 1996**  
**Summary of Measurement Data**  
December 4, 1996 - N116 Data

REC#	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018
Site	E	E	S	S	K-2	K-2	J	J	G	G	V	V	V	Q	Q	Q	G	G
Start	07:10 AM	07:21 AM	07:48 AM	08:05 AM	11:05 AM	11:16 AM	01:58 PM	02:08 PM	02:52 PM	03:03 PM	03:40 PM	04:00 PM	04:10 PM	04:55 PM	throwout	05:10 PM	05:50 PM	06:01 PM
Leq	56.9	56.4	60.9	59.5	65.1	66.0	62.0	62.4	61.8	62.4	76.3	75.3	76.4	62.9		63.1	62.4	62.4
Lmax	60.9	62.9	79.8	68.7	70.2	71.2	67.2	75.5	68.3	68.3	82.4	82.8	83.3	67.4		67.4	69.0	66.3
Lmin	46.7	49.0	50.1	50.6	55.4	58.7	56.9	56.5	52.3	52.4	60.0	52.0	62.0	54.0		57.6	54.3	54.0
SEL	84.6	84.1	88.6	87.2	92.8	93.8	89.8	90.2	89.6	90.2	104.1	103.0	104.1	90.7		90.9	90.1	90.2
L10	59.0	58.8	62.4	62.1	67.0	68.0	64.0	64.2	64.7	64.9	78.8	78.8	79.5	65.6		65.3	64.4	64.1
L50	56.8	55.8	58.8	58.7	64.9	65.7	61.8	62.3	61.2	62.0	76.0	74.1	75.6	62.5		62.8	62.1	62.3
L90	52.9	52.1	54.3	54.2	61.8	63.0	59.0	60.0	56.0	57.3	71.3	66.4	69.7	57.2		60.2	59.2	59.5
Period																		
1	55.3	55.6	57.9	60.9	65.7	66.6	62.7	61.3	62.9	64.3	77.5	72.6	76.4	63.2		63.4	60.1	63.1
2	57.3	58.3	61.1	59.5	64.7	65.2	63.2	<b>64.1</b>	62.9	62.3	76.8	71.9	76.0	63.8		62.7	63.0	<b>73.2</b>
3	56.6	58.1	61.5	56.8	65.4	65.4	61.8	<b>65.6</b>	60.5	62.2	76.9	73.5	75.8	63.0		62.2	61.7	<b>63.0</b>
4	57.0	56.0	59.6	58.4	66.1	65.7	60.7	<b>63.0</b>	61.0	61.7	76.9	73.7	76.6	61.2		62.9	62.0	61.9
5	57.4	55.6	65.9	57.0	64.3	67.0	61.2	<b>63.3</b>	61.3	62.7	77.4	76.7	76.0	64.3		63.3	64.3	61.0
6	57.0	56.5	59.7	58.5	63.4	65.8	60.8	<b>62.8</b>	60.4	61.9	75.7	76.5	76.9	63.8		64.0	62.4	62.1
7	54.3	55.1	58.2	60.8	64.8	66.4	60.5	63.3	62.1	62.6	76.5	76.4	76.7	62.9		62.4	63.0	61.6
8	58.0	55.8	59.2	61.7	63.8	67.5	63.3	61.3	62.5	61.9	75.8	76.3	76.8	61.5		63.3	63.4	63.3
9	57.5	56.0	59.3	59.7	65.4	65.3	61.9	62.4	60.9	60.6	73.1	76.5	76.0	62.5		63.5	61.1	61.6
10	56.9	55.2	58.8	58.6	66.0	64.7	62.5	<b>64.0</b>	62.5	62.7	74.8	75.4	76.0	61.6		63.3	60.9	62.4
11								61.4										
12								59.8										
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Periods shown in bold contain data for paused intervals



**Rock Creek Park 1996**  
**Summary of Measurement Data**  
December 5, 1996 - N116 Data

REC#	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018
Site	K-2	K-2	E-2	E-1	H	H	I-2	I-2	P	P	S	S	T	T	P	P	J	J
Start	07:02 AM	07:14 AM	08:17 AM	08:30 AM	09:50 AM	10:01 AM	10:52 AM	11:06 AM	11:50 AM	12:01 PM	02:51 PM	03:02 PM	03:46 PM	03:57 PM	04:31 PM	04:43 PM	05:38 PM	05:50 PM
Leq	67.7	68.2	57.8	59.1	57.6	57.0	57.2	57.4	54.4	55.1	59.1	58.3	68.9	68.7	57.8	57.4	60.0	60.2
Lmax	72.1	71.6	63.3	65.7	63.2	61.0	62.8	61.4	60.6	62.0	68.4	67.1	80.0	78.5	62.5	61.6	67.0	64.0
Lmin	59.1	60.4	51.6	48.2	52.9	53.4	50.8	52.1	43.0	45.4	50.1	48.5	61.6	61.6	49.5	48.0	53.7	55.4
SEL	95.4	96.0	85.6	86.9	85.3	84.8	85.0	85.2	82.2	82.8	86.9	86.1	96.6	96.5	85.5	85.1	87.8	88.0
L10	69.7	69.8	59.4	61.7	59.4	59.1	59.3	59.2	57.8	58.3	62.4	61.9	72.6	72.8	60.4	59.6	61.7	61.9
L50	67.4	68.3	57.6	59.0	57.3	56.7	56.8	57.3	53.3	54.2	56.2	56.2	65.0	64.1	57.5	57.4	59.8	60.2
L90	64.8	65.4	55.3	52.5	54.8	55.0	54.6	55.8	46.4	48.3	52.6	51.7	62.2	62.1	52.8	51.6	57.5	57.7
Period																		
1	67.3	67.6	58.1	58.3	58.5	55.7	56.2	57.0	54.9	56.0	61.1	55.2	66.7	71.1	57.1	57.9	59.5	60.1
2	67.8	67.3	59.1	61.1	59.5	56.7	58.0	57.2	53.9	54.6	61.1	58.2	70.1	63.9	59.6	<b>58.3</b>	60.2	59.5
3	66.9	68.7	57.8	56.8	57.7	56.3	59.3	<b>57.9</b>	53.4	56.5	59.5	57.2	66.4	69.3	57.7	<b>59.1</b>	57.5	60.8
4	66.0	68.2	58.6	60.0	57.2	57.3	55.6	<b>59.9</b>	54.6	52.3	58.6	56.1	71.3	69.5	58.0	57.8	59.7	59.4
5	68.5	68.9	57.8	58.0	56.7	57.2	56.8	<b>59.4</b>	55.0	53.5	61.2	54.1	67.9	65.6	56.1	57.3	<b>61.1</b>	59.3
6	68.1	68.9	57.6	58.1	56.8	57.2	<b>58.6</b>	<b>58.9</b>	56.3	54.9	57.8	60.7	62.2	70.6	58.5	58.0	60.6	61.3
7	67.0	67.4	57.9	59.1	58.2	<b>58.8</b>	<b>61.3</b>	<b>57.5</b>	51.3	56.8	57.1	60.7	69.0	65.6	55.5	55.9	60.1	59.3
8	67.6	68.5	55.7	59.3	<b>58.3</b>	57.9	<b>57.2</b>	56.8	52.5	53.0	57.6	56.1	70.4	69.3	58.1	57.2	60.3	60.5
9	68.5	68.4	57.7	60.9	<b>56.5</b>	57.7	<b>60.2</b>	<b>56.0</b>	55.8	53.6	55.8	58.6	70.4	68.0	<b>58.3</b>	56.0	61.9	61.0
10	68.1	67.8	57.1	57.1	55.9	<b>57.7</b>	56.1	57.7	54.0	<b>55.6</b>	56.9	60.5	68.2	68.8	<b>59.1</b>	55.5	58.7	60.4
11							<b>58.0</b>	<b>57.2</b>							<b>59.0</b>			
12								<b>57.3</b>										
13								<b>57.6</b>										
14								<b>60.7</b>										
15								<b>62.2</b>										
16																		
17																		
18																		
19																		
20																		

Periods shown in bold contain data for paused intervals

**Rock Creek Park 1996**  
**Summary of Measurement Data**  
December 6, 1996 - N116 Data

REC#	001	002	003	004	005	006	007	008	009	010	011	012	013	014
Site	Y	Y	T	T	V	V	L	L	Q	Q	R	R	L	L
Start	07:07 AM	07:18 AM	07:42 AM	07:53 AM	01:01 PM	01:13 PM	01:40 PM	01:52 PM	02:34 PM	02:45 PM	03:09 PM	03:20 PM	04:00 PM	04:11 PM
Leq	58.7	57.9	70.8	71.4	77.4	77.2	68.1	67.9	62.8	63.4	57.4	58.0	66.5	67.3
Lmax	67.4	64.4	79.3	78.2	90.5	86.4	77.2	74.6	69.1	73.3	65.2	66.9	75.5	82.3
Lmin	49.7	49.9	66.4	66.3	63.3	62.0	60.3	59.4	52.1	55.1	48.6	49.4	59.6	56.3
SEL	86.5	85.7	98.6	99.2	105.1	104.9	95.9	95.7	90.6	91.2	85.2	85.8	94.3	95.1
L10	61.5	61.3	74.6	75.5	79.6	79.6	70.5	70.4	65.7	65.8	60.7	61.3	69.3	68.9
L50	57.8	56.5	68.0	68.4	76.7	76.8	68.0	67.5	62.2	62.6	56.2	56.9	65.7	66.7
L90	53.6	52.0	66.9	66.8	73.0	72.6	63.1	63.1	57.4	58.3	51.3	51.6	62.0	61.8
Period														
1	57.0	58.2	71.1	71.9	77.3	77.0	68.5	67.2	63.0	62.7	58.7	57.7	63.6	66.1
2	57.0	59.6	70.1	71.7	76.6	77.9	67.1	67.0	61.7	63.3	58.6	56.8	65.9	71.2
3	60.0	58.0	70.4	72.5	76.2	77.6	67.5	68.8	63.6	63.0	56.2	56.9	67.2	66.9
4	56.8	58.9	71.7	69.6	77.6	78.1	68.3	<b>75.5</b>	60.9	62.5	54.5	59.4	66.1	<b>70.2</b>
5	59.2	56.8	70.8	72.8	77.6	77.4	69.4	<b>68.3</b>	64.4	63.1	58.0	59.2	66.5	<b>71.2</b>
6	<b>59.5</b>	59.0	71.8	70.3	76.7	77.3	69.8	<b>68.7</b>	62.1	61.1	56.8	59.7	68.4	<b>68.4</b>
7	60.3	55.9	69.3	71.2	76.4	76.2	<b>73.5</b>	68.0	61.9	65.5	58.7	55.5	66.3	<b>68.3</b>
8	59.2	56.2	72.0	70.0	<b>78.6</b>	<b>78.7</b>	<b>72.3</b>	68.3	64.5	<b>65.6</b>	56.6	58.3	<b>68.0</b>	66.7
9	59.7	55.1	70.0	72.6	<b>77.5</b>	<b>76.0</b>	68.0	67.5	63.0	<b>64.5</b>	57.0	56.9	<b>67.4</b>	<b>69.7</b>
10	55.9	58.6	70.1	69.7	78.9	76.0	66.8	67.4	61.2	63.2	57.2	57.4	65.6	66.0
11								69.3		<b>65.6</b>				<b>74.6</b>
12														
13														
14														
15														
16														
17														
18														
19														
20														

Periods shown in bold contain data for paused intervals

"File Name.....bin2  
 "Test Location.....Rock Creek '96 - Site F  
 "Employee Name.....CP  
 "Employee Number...  
 "Department.....  
 "Comment Field 1...Picnic Area #10  
 "Comment Field 2...12/4/96  
 "Numeric Code #1... #2... #3... #4... #5...

"METROSONICS db-308 SN 1948 V2.3  
 "REPORT PRINTED 12/05/96 AT 00:38:45

"EXCHANGE RATE..... 3dB FILTER.....A WGH  
 "DOSE CRITERION..... 90dB RESPONSE...SLOW  
 "PRE-TEST CALIBRATION TIME...12/04/96 AT 7:03:39  
 "PRE-TEST CALIBRATION RANGE... 43.9dB TO 139.9dB  
 "Calibrator Type & Serial #....

"Calibrator Calibration Date..

"-- OVERALL STATISTICS REPORT --

"TEST BEGAN....12/04/96 AT 7:05:00  
 "TEST LENGTH... 0 DAYS 1:06:52

"Lav..... 69.0dB  
 "SEL.....105.0dB  
 "Lmax..... 95.2dB ON 12/04/96 AT 7:59:14  
 "Lpk.....129 dB ON 12/04/96 AT 7:58:33  
 "TIME OVER 115dB.. 0 DAYS 0:00:00.00

"8 HR DOSE (80dB CUTOFF)..... 0.03%  
 "8 HR PROJ. DOSE (80dB CUTOFF).. 0.21%  
 "8 HR DOSE (90dB CUTOFF)..... 0.01%  
 "8 HR PROJ. DOSE (90dB CUTOFF).. 0.07%

"-- TABULAR TIME HISTORY REPORT --

"# OF PERIODS: 67 MODE: CONTINUOUS  
 "PERIOD LENGTH: 0:01:00  
 "TIME HISTORY CUTOFF: NONE  
 "Ln(1): 10.0% Ln(2): 90.0%

"DATE: 12/04/96

"INT"	"TIME"	"Lav"	"Lmx"	"L1"	"L2"
1	" 7:05:00"	66.3	71.8	69	54
2	" 7:06:00"	64.8	72.9	68	51
3	" 7:07:00"	66.9	73.5	71	55
4	" 7:08:00"	64.9	71.3	70	48
5	" 7:09:00"	66.7	72.9	70	53
6	" 7:10:00"	64.3	70.4	69	47
7	" 7:11:00"	67.5	73.6	72	53
8	" 7:12:00"	66.4	73.1	70	50
9	" 7:13:00"	66.9	72.9	70	55
10	" 7:14:00"	67.1	70.9	69	57
11	" 7:15:00"	67.1	70.9	69	56
12	" 7:16:00"	62.6	71.5	68	46
13	" 7:17:00"	67.5	72.1	71	56
14	" 7:18:00"	66.7	72.6	70	52
15	" 7:19:00"	66.6	72.0	69	57
16	" 7:20:00"	66.4	72.5	70	54
17	" 7:21:00"	64.9	72.0	69	52
18	" 7:22:00"	67.9	72.0	71	55
19	" 7:23:00"	68.7	76.8	72	52
20	" 7:24:00"	64.7	71.2	69	51
21	" 7:25:00"	64.6	70.2	68	52
22	" 7:26:00"	66.7	72.2	70	53
23	" 7:27:00"	64.3	70.6	69	52
24	" 7:28:00"	65.3	73.7	70	50
25	" 7:29:00"	66.1	72.4	69	51
26	" 7:30:00"	65.7	73.4	69	49
27	" 7:31:00"	67.1	74.2	72	51
28	" 7:32:00"	65.5	73.6	68	51
29	" 7:33:00"	66.9	73.2	71	54
30	" 7:34:00"	67.1	74.2	71	54
31	" 7:35:00"	68.2	73.9	72	53
32	" 7:36:00"	63.4	72.5	69	47
33	" 7:37:00"	64.5	70.9	69	49
34	" 7:38:00"	65.1	71.0	70	51
35	" 7:39:00"	65.8	72.3	70	47
36	" 7:40:00"	66.3	71.4	70	49
37	" 7:41:00"	64.0	71.3	69	48
38	" 7:42:00"	67.0	73.5	71	50
39	" 7:43:00"	65.7	71.4	70	48
40	" 7:44:00"	66.5	73.4	72	52
41	" 7:45:00"	68.9	72.6	70	63
42	" 7:46:00"	64.6	70.7	68	51
43	" 7:47:00"	67.9	73.0	71	59
44	" 7:48:00"	69.3	74.2	72	63
45	" 7:49:00"	68.5	72.6	71	61
46	" 7:50:00"	65.5	71.5	69	55

47	" 7:51:00"	67.8	73.7	70	57
48	" 7:52:00"	68.2	73.8	72	52
49	" 7:53:00"	69.1	76.7	72	59
50	" 7:54:00"	65.6	72.3	70	55
51	" 7:55:00"	68.1	75.1	71	54
52	" 7:56:00"	64.9	69.7	67	59
53	" 7:57:00"	70.6	82.3	74	60
54	" 7:58:00"	79.0	94.5	81	65
55	" 7:59:00"	77.9	95.2	73	65
56	" 8:00:00"	72.1	82.0	78	64
57	" 8:01:00"	65.5	68.9	66	60
58	" 8:02:00"	70.4	80.5	76	56
59	" 8:03:00"	72.9	83.2	77	59
60	" 8:04:00"	51.6	61.6	52	48
61	" 8:05:00"	66.1	80.2	66	49
62	" 8:06:00"	73.5	84.0	78	54
63	" 8:07:00"	69.1	81.0	72	55
64	" 8:08:00"	71.0	83.2	76	47
65	" 8:09:00"	72.2	83.1	77	49
66	" 8:10:00"	72.1	86.2	76	54
67	" 8:11:00"	72.0	86.0	71	57

## "-- AMPLITUDE DISTRIBUTION REPORT --

"TOTAL SAMPLES = 32099

"dB"	"SAMPLES"	"% OF TOTAL"
46	86 +	0.27
47	258 *	0.80
48	614 **	1.91
49	828 ***	2.58
50	771 **	2.40
51	938 ***	2.92
52	780 **	2.43
53	801 **	2.50
54	890 ***	2.77
55	771 **	2.40
56	653 **	2.03
57	1026 ***	3.20
58	1161 ****	3.62
59	1098 ***	3.42
60	1174 ****	3.66
61	1078 ***	3.36
62	1219 ****	3.80
63	1149 ****	3.58
64	1442 ****	4.49
65	1797 *****	5.60
66	2270 *****	7.07
67	1773 *****	5.52
68	2315 *****	7.21
69	2472 *****	7.70
70	1798 *****	5.60
71	1008 ***	3.14
72	675 **	2.10
73	327 *	1.02
74	141 +	0.44
75	116 +	0.36
76	106 +	0.33
77	87 +	0.27
78	101 +	0.31
79	86 +	0.27
80	87 +	0.27
81	54 +	0.17
82	45 +	0.14
83	31 .	0.10
84	18 .	0.06
85	16 .	0.05
86	9 .	0.03
87	4 .	0.01
88	4 .	0.01
89	2 .	0.01
90	4 .	0.01
91	4 .	0.01
92	3 .	0.01
93	3 .	0.01
94	5 .	0.02
95	1 .	0.00

"Ln( 0.0) = 95dB  
"Ln(10.0) = 70dB  
"Ln(50.0) = 64dB  
"Ln(99.9) = 46dB

"	NO	80.0dB	90.0dB
"	CUTOFF	CUTOFF	CUTOFF
"Leq	68.6dB	64.2dB	60.4dB
"Ldod	66.9dB	56.8dB	49.8dB
"Losha	66.0dB	49.7dB	43.9dB
"Leq(6)	65.4dB	43.9dB	43.9dB



"File Name.....bin3  
 "Test Location.....Rock Creek '96 - Site 0  
 "Employee Name.....CP  
 "Employee Number...  
 "Department.....  
 "Comment Field 1...2801 Chesterfield  
 "Comment Field 2...12/4/96  
 "Numeric Code #1... #2... #3... #4... #5...

"METROSONICS db-308 SN 1967 V2.3  
 "REPORT PRINTED 12/05/96 AT 00:42:04

"EXCHANGE RATE..... 3dB FILTER.....A WGHT  
 "DOSE CRITERION.... 90dB RESPONSE...SLOW  
 "PRE-TEST CALIBRATION TIME....12/04/96 AT 8:37:55  
 "PRE-TEST CALIBRATION RANGE... 43.0dB TO 139.0dB  
 "Calibrator Type & Serial #...

"Calibrator Calibration Date...

# "-- OVERALL STATISTICS REPORT --

"TEST BEGAN....12/04/96 AT 8:46:01  
 "TEST LENGTH... 0 DAYS 9:46:28

"Lav..... 54.3dB  
 "SEL..... 99.6dB  
 "Lmax..... 77.4dB ON 12/04/96 AT 17:56:05  
 "Lpk.....UNDER  
 "TIME OVER 115dB.. 0 DAYS 0:00:00.00

"8 HR DOSE (80dB CUTOFF)..... 0.00%  
 "8 HR DOSE (90dB CUTOFF)..... 0.00%

# "-- TABULAR TIME HISTORY REPORT --

"# OF PERIODS: 587 MODE: CONTINUOUS  
 "PERIOD LENGTH: 0:01:00  
 "TIME HISTORY CUTOFF: NONE  
 "Ln(1): 10.0% Ln(2): 90.0%

"DATE: 12/04/96

"INT"	"TIME"	"Lav"	"Lmx"	"L1"	"L2"
1	" 8:46:01"	54.7	58.1	56	51
2	" 8:47:01"	55.3	59.7	58	52
3	" 8:48:01"	53.2	58.2	55	49
4	" 8:49:01"	53.5	57.1	55	48
5	" 8:50:01"	52.2	55.9	54	48
6	" 8:51:01"	53.5	55.7	54	51
7	" 8:52:01"	54.2	56.2	55	53
8	" 8:53:01"	54.6	56.8	55	53
9	" 8:54:01"	60.1	64.2	62	55
10	" 8:55:01"	55.3	60.5	57	53
11	" 8:56:01"	54.7	58.5	57	49
12	" 8:57:01"	53.6	59.2	57	47
13	" 8:58:01"	54.0	56.7	55	51
14	" 8:59:01"	54.3	57.5	56	51
15	" 9:00:01"	52.6	57.9	55	49
16	" 9:01:01"	51.8	54.5	53	49
17	" 9:02:01"	52.4	57.8	55	49
18	" 9:03:01"	54.3	60.8	57	49
19	" 9:04:01"	55.8	60.6	58	51
20	" 9:05:01"	53.6	57.2	55	50
21	" 9:06:01"	52.1	55.4	54	49
22	" 9:07:01"	53.6	56.3	55	50
23	" 9:08:01"	51.4	56.0	53	48
24	" 9:09:01"	52.9	60.0	55	48
25	" 9:10:01"	51.2	54.3	53	47
26	" 9:11:01"	50.1	53.9	52	47
27	" 9:12:01"	52.1	57.6	54	48
28	" 9:13:01"	50.4	53.6	52	47
29	" 9:14:01"	54.6	57.6	56	52
30	" 9:15:01"	51.6	53.8	53	50
31	" 9:16:01"	52.7	57.3	55	47
32	" 9:17:01"	53.4	58.1	56	49
33	" 9:18:01"	53.3	57.6	55	50
34	" 9:19:01"	54.9	63.4	59	49
35	" 9:20:01"	56.0	61.6	58	52
36	" 9:21:01"	57.9	60.8	59	55
37	" 9:22:01"	53.8	57.3	55	51
38	" 9:23:01"	52.8	55.7	54	49
39	" 9:24:01"	55.9	60.7	58	52
40	" 9:25:01"	54.1	57.5	56	50
41	" 9:26:01"	55.6	62.8	59	51
42	" 9:27:01"	53.8	62.9	55	49
43	" 9:28:01"	51.1	55.1	52	49
44	" 9:29:01"	54.5	59.0	56	52
45	" 9:30:01"	48.9	51.3	50	47
46	" 9:31:01"	49.9	55.5	52	46

47	" 9:32:01"	53.4	57.9	57	48
48	" 9:33:01"	53.9	58.0	56	50
49	" 9:34:01"	52.5	55.4	54	47
50	" 9:35:01"	52.2	54.8	54	49
51	" 9:36:01"	54.6	57.1	56	52
52	" 9:37:01"	51.7	54.4	53	50
53	" 9:38:01"	53.0	57.0	56	48
54	" 9:39:01"	53.4	57.0	55	50
55	" 9:40:01"	58.9	62.1	60	56
56	" 9:41:01"	53.2	57.0	55	50
57	" 9:42:01"	54.1	62.2	56	49
58	" 9:43:01"	52.4	55.3	54	50
59	" 9:44:01"	52.9	57.3	55	50
60	" 9:45:01"	52.6	57.0	55	48
61	" 9:46:01"	51.7	56.3	53	48
62	" 9:47:01"	52.0	57.7	53	49
63	" 9:48:01"	52.0	56.0	54	49
64	" 9:49:01"	51.4	57.6	53	47
65	" 9:50:01"	53.0	57.3	55	50
66	" 9:51:01"	52.3	55.4	54	49
67	" 9:52:01"	52.8	57.6	55	50
68	" 9:53:01"	52.3	55.9	54	49
69	" 9:54:01"	53.1	55.6	54	50
70	" 9:55:01"	55.8	58.9	57	53
71	" 9:56:01"	52.6	56.3	54	49
72	" 9:57:01"	52.5	57.0	55	49
73	" 9:58:01"	52.9	56.1	53	50
74	" 9:59:01"	53.5	57.6	55	50
75	"10:00:01"	52.4	55.8	54	49
76	"10:01:01"	53.2	55.4	54	51
77	"10:02:01"	52.9	56.3	54	50
78	"10:03:01"	52.2	57.3	55	48
79	"10:04:01"	51.7	55.7	54	49
80	"10:05:01"	51.8	55.7	54	49
81	"10:06:01"	55.1	59.0	57	50
82	"10:07:01"	53.8	57.5	55	50
83	"10:08:01"	52.9	55.9	54	50
84	"10:09:01"	55.0	59.0	57	51
85	"10:10:01"	51.9	57.6	53	49
86	"10:11:01"	56.9	68.1	61	51
87	"10:12:01"	57.4	63.5	60	52
88	"10:13:01"	53.6	56.8	55	51
89	"10:14:01"	51.8	55.6	54	48
90	"10:15:01"	49.0	54.1	51	47
91	"10:16:01"	51.8	54.8	53	49
92	"10:17:01"	56.1	63.6	58	53
93	"10:18:01"	55.9	59.0	58	51
94	"10:19:01"	51.6	55.2	54	48
95	"10:20:01"	53.6	57.6	54	52
96	"10:21:01"	55.2	59.0	57	52
97	"10:22:01"	53.0	56.1	55	50
98	"10:23:01"	50.8	54.9	52	48
99	"10:24:01"	53.5	61.1	57	48
100	"10:25:01"	52.1	58.1	53	49
101	"10:26:01"	52.9	58.5	54	50
102	"10:27:01"	53.1	57.5	56	49
103	"10:28:01"	54.5	57.3	56	51
104	"10:29:01"	52.3	57.7	55	49

105	"10:30:01"	55.2	61.9	59	49
106	"10:31:01"	53.4	57.2	56	50
107	"10:32:01"	52.9	56.1	55	51
108	"10:33:01"	52.7	57.5	55	50
109	"10:34:01"	51.9	54.2	53	49
110	"10:35:01"	51.4	53.5	53	49
111	"10:36:01"	53.4	59.3	55	49
112	"10:37:01"	56.6	59.3	58	53
113	"10:38:01"	53.7	57.6	55	51
114	"10:39:01"	51.2	54.6	52	49
115	"10:40:01"	53.1	56.8	55	50
116	"10:41:01"	54.0	58.1	57	50
117	"10:42:01"	54.3	57.6	56	52
118	"10:43:01"	52.3	55.4	54	50
119	"10:44:01"	54.1	57.7	56	50
120	"10:45:01"	54.8	59.6	55	52
121	"10:46:01"	53.7	57.5	55	50
122	"10:47:01"	53.1	57.2	55	50
123	"10:48:01"	53.9	56.8	55	52
124	"10:49:01"	53.4	59.4	57	49
125	"10:50:01"	51.8	54.7	54	49
126	"10:51:01"	51.4	53.9	52	49
127	"10:52:01"	51.1	54.3	52	49
128	"10:53:01"	51.5	55.7	54	48
129	"10:54:01"	50.6	54.5	53	48
130	"10:55:01"	49.3	51.6	50	48
131	"10:56:01"	54.1	58.0	57	49
132	"10:57:01"	51.1	55.5	53	48
133	"10:58:01"	53.6	56.8	56	50
134	"10:59:01"	51.8	54.5	53	48
135	"11:00:01"	53.0	57.8	55	50
136	"11:01:01"	52.5	56.8	54	49
137	"11:02:01"	51.7	57.0	55	47
138	"11:03:01"	53.6	57.3	55	51
139	"11:04:01"	52.9	59.2	55	49
140	"11:05:01"	52.4	55.9	54	49
141	"11:06:01"	50.9	54.2	53	48
142	"11:07:01"	51.0	54.4	53	47
143	"11:08:01"	57.1	68.6	60	47
144	"11:09:01"	52.7	57.1	55	49
145	"11:10:01"	50.8	55.7	52	47
146	"11:11:01"	52.7	60.8	55	47
147	"11:12:01"	52.8	57.8	55	49
148	"11:13:01"	53.0	56.2	54	49
149	"11:14:01"	51.2	54.7	53	49
150	"11:15:01"	52.1	55.4	54	47
151	"11:16:01"	51.8	54.4	54	49
152	"11:17:01"	52.4	55.9	54	50
153	"11:18:01"	51.7	55.3	53	48
154	"11:19:01"	48.2	54.9	48	46
155	"11:20:01"	53.1	55.8	55	50
156	"11:21:01"	54.9	57.6	56	52
157	"11:22:01"	56.6	60.5	58	53
158	"11:23:01"	52.0	54.2	53	48
159	"11:24:01"	55.1	59.7	58	50
160	"11:25:01"	52.7	55.8	54	50
161	"11:26:01"	52.2	56.2	55	49
162	"11:27:01"	53.1	57.7	56	50

163	"11:28:01"	52.3	53.9	53	50
164	"11:29:01"	52.4	55.7	54	50
165	"11:30:01"	52.0	59.3	56	48
166	"11:31:01"	53.2	57.2	55	50
167	"11:32:01"	54.6	60.0	57	50
168	"11:33:01"	55.5	65.9	58	50
169	"11:34:01"	58.9	68.8	62	51
170	"11:35:01"	54.6	63.1	55	52
171	"11:36:01"	54.6	60.5	57	49
172	"11:37:01"	56.2	58.7	58	54
173	"11:38:01"	55.6	60.6	58	51
174	"11:39:01"	52.4	57.5	54	49
175	"11:40:01"	51.3	54.5	53	49
176	"11:41:01"	51.1	55.5	53	48
177	"11:42:01"	51.9	55.0	54	48
178	"11:43:01"	52.2	55.2	54	49
179	"11:44:01"	54.1	60.4	57	50
180	"11:45:01"	54.2	58.2	57	49
181	"11:46:01"	53.5	57.7	56	49
182	"11:47:01"	60.1	67.3	64	50
183	"11:48:01"	50.0	52.8	51	48
184	"11:49:01"	53.1	56.1	54	50
185	"11:50:01"	56.1	60.6	58	50
186	"11:51:01"	53.8	60.9	56	49
187	"11:52:01"	53.8	56.8	55	50
188	"11:53:01"	53.7	57.9	56	49
189	"11:54:01"	51.3	54.8	53	48
190	"11:55:01"	51.1	55.0	53	48
191	"11:56:01"	53.7	57.7	55	51
192	"11:57:01"	53.7	57.1	55	49
193	"11:58:01"	51.8	57.7	54	48
194	"11:59:01"	51.4	57.0	54	47
195	"12:00:01"	53.7	59.3	57	49
196	"12:01:01"	48.8	50.5	49	47
197	"12:02:01"	50.1	53.8	52	47
198	"12:03:01"	50.1	54.2	52	47
199	"12:04:01"	51.4	55.4	53	48
200	"12:05:01"	52.0	55.3	54	49
201	"12:06:01"	53.3	58.7	55	48
202	"12:07:01"	51.4	54.9	53	47
203	"12:08:01"	51.7	57.6	53	47
204	"12:09:01"	51.6	58.9	54	47
205	"12:10:01"	53.4	57.3	55	50
206	"12:11:01"	52.2	55.1	54	49
207	"12:12:01"	51.8	53.8	53	50
208	"12:13:01"	54.2	57.7	56	51
209	"12:14:01"	52.6	54.7	54	50
210	"12:15:01"	55.4	59.3	57	52
211	"12:16:01"	57.0	63.1	60	52
212	"12:17:01"	55.6	58.9	57	50
213	"12:18:01"	52.8	57.3	55	48
214	"12:19:01"	53.6	58.5	57	48
215	"12:20:01"	52.7	55.4	54	50
216	"12:21:01"	53.7	57.8	56	50
217	"12:22:01"	53.0	57.1	55	50
218	"12:23:01"	54.8	57.3	56	52
219	"12:24:01"	53.0	58.8	55	49
220	"12:25:01"	55.1	59.4	56	52

221	"12:26:01"	51.6	55.4	54	48
222	"12:27:01"	56.1	59.0	58	53
223	"12:28:01"	51.0	55.9	53	48
224	"12:29:01"	51.1	54.5	53	49
225	"12:30:01"	51.9	54.0	53	49
226	"12:31:01"	53.8	56.8	55	51
227	"12:32:01"	53.5	57.2	55	49
228	"12:33:01"	59.7	64.9	61	56
229	"12:34:01"	54.3	62.1	57	47
230	"12:35:01"	53.8	57.0	55	50
231	"12:36:01"	50.4	55.4	52	47
232	"12:37:01"	50.4	55.6	53	46
233	"12:38:01"	51.3	56.8	55	47
234	"12:39:01"	50.9	54.3	53	48
235	"12:40:01"	52.5	57.1	56	48
236	"12:41:01"	53.0	56.8	54	50
237	"12:42:01"	48.8	53.6	52	46
238	"12:43:01"	52.3	58.9	55	47
239	"12:44:01"	52.8	58.5	55	49
240	"12:45:01"	51.4	56.0	54	48
241	"12:46:01"	51.2	55.0	53	48
242	"12:47:01"	52.0	54.8	53	49
243	"12:48:01"	52.4	57.1	55	48
244	"12:49:01"	50.8	54.7	52	47
245	"12:50:01"	54.2	58.0	56	49
246	"12:51:01"	52.3	58.3	55	48
247	"12:52:01"	51.0	55.7	55	47
248	"12:53:01"	51.1	54.3	53	47
249	"12:54:01"	51.2	54.7	53	48
250	"12:55:01"	52.6	58.7	55	47
251	"12:56:01"	50.3	59.2	54	46
252	"12:57:01"	51.0	56.1	54	47
253	"12:58:01"	49.7	54.1	52	47
254	"12:59:01"	50.5	55.4	53	47
255	"13:00:01"	50.8	55.2	53	48
256	"13:01:01"	51.0	57.2	54	47
257	"13:02:01"	52.4	57.3	55	47
258	"13:03:01"	51.7	55.3	53	49
259	"13:04:01"	52.8	55.2	54	50
260	"13:05:01"	56.6	63.1	61	51
261	"13:06:01"	62.5	68.4	65	56
262	"13:07:01"	58.9	69.1	61	52
263	"13:08:01"	54.7	57.3	56	52
264	"13:09:01"	54.6	59.2	56	50
265	"13:10:01"	53.8	58.2	57	50
266	"13:11:01"	54.6	58.9	57	52
267	"13:12:01"	53.1	55.8	55	49
268	"13:13:01"	51.7	54.6	53	49
269	"13:14:01"	53.0	55.8	55	49
270	"13:15:01"	54.6	57.7	57	49
271	"13:16:01"	54.3	62.5	56	52
272	"13:17:01"	55.4	60.0	57	52
273	"13:18:01"	54.0	57.6	56	52
274	"13:19:01"	54.4	57.6	56	52
275	"13:20:01"	56.7	61.7	58	52
276	"13:21:01"	53.7	58.0	56	51
277	"13:22:01"	53.8	56.8	55	52
278	"13:23:01"	52.8	57.6	55	51

279	"13:24:01"	53.3	56.8	55	51
280	"13:25:01"	55.8	62.0	58	52
281	"13:26:01"	53.4	57.0	55	51
282	"13:27:01"	55.2	60.4	59	51
283	"13:28:01"	53.7	55.5	55	51
284	"13:29:01"	53.2	57.5	55	51
285	"13:30:01"	55.6	58.3	57	52
286	"13:31:01"	54.0	57.1	56	51
287	"13:32:01"	53.2	55.9	54	51
288	"13:33:01"	53.0	55.5	54	51
289	"13:34:01"	52.8	55.2	54	51
290	"13:35:01"	53.8	58.1	55	51
291	"13:36:01"	54.1	58.0	56	52
292	"13:37:01"	55.6	58.0	57	53
293	"13:38:01"	56.7	60.0	58	54
294	"13:39:01"	56.6	64.3	60	51
295	"13:40:01"	53.4	56.8	55	51
296	"13:41:01"	53.8	58.0	56	50
297	"13:42:01"	55.8	68.1	57	50
298	"13:43:01"	53.4	57.7	56	48
299	"13:44:01"	51.7	55.6	54	48
300	"13:45:01"	53.0	57.6	56	49
301	"13:46:01"	51.2	54.8	53	48
302	"13:47:01"	52.7	56.2	55	48
303	"13:48:01"	53.1	56.8	55	49
304	"13:49:01"	51.4	55.7	53	48
305	"13:50:01"	53.3	55.9	55	50
306	"13:51:01"	49.7	52.9	52	46
307	"13:52:01"	51.7	53.7	53	49
308	"13:53:01"	52.0	56.0	53	50
309	"13:54:01"	50.2	57.1	51	47
310	"13:55:01"	53.0	59.0	57	47
311	"13:56:01"	54.8	62.2	58	48
312	"13:57:01"	54.4	59.9	58	50
313	"13:58:01"	52.9	55.4	54	49
314	"13:59:01"	53.4	57.5	56	49
315	"14:00:01"	52.1	57.5	55	48
316	"14:01:01"	54.3	57.0	55	51
317	"14:02:01"	56.1	63.7	58	52
318	"14:03:01"	56.0	60.1	58	53
319	"14:04:01"	54.8	58.0	57	52
320	"14:05:01"	52.6	56.8	55	48
321	"14:06:01"	52.6	57.3	54	50
322	"14:07:01"	54.5	57.7	56	51
323	"14:08:01"	52.9	58.5	56	48
324	"14:09:01"	51.3	53.8	53	48
325	"14:10:01"	50.7	56.3	53	47
326	"14:11:01"	50.8	55.3	52	48
327	"14:12:01"	50.9	58.1	52	47
328	"14:13:01"	54.3	58.9	56	52
329	"14:14:01"	53.9	57.9	56	50
330	"14:15:01"	51.1	54.9	53	48
331	"14:16:01"	52.9	57.7	55	47
332	"14:17:01"	52.7	64.2	55	47
333	"14:18:01"	53.4	58.0	56	49
334	"14:19:01"	50.1	53.9	52	47
335	"14:20:01"	53.1	57.2	57	47
336	"14:21:01"	53.5	57.1	56	50

337	"14:22:01"	54.6	57.2	56	51
338	"14:23:01"	54.2	57.8	56	50
339	"14:24:01"	52.9	55.7	54	50
340	"14:25:01"	53.1	56.8	54	51
341	"14:26:01"	52.0	55.5	54	49
342	"14:27:01"	50.6	54.3	53	47
343	"14:28:01"	51.1	54.4	53	47
344	"14:29:01"	46.7	48.7	47	46
345	"14:30:01"	59.0	67.5	64	49
346	"14:31:01"	55.5	61.1	59	48
347	"14:32:01"	57.9	66.0	62	48
348	"14:33:01"	55.8	62.9	58	52
349	"14:34:01"	53.9	57.8	55	52
350	"14:35:01"	54.2	57.9	57	51
351	"14:36:01"	53.4	57.2	56	49
352	"14:37:01"	51.6	58.0	55	47
353	"14:38:01"	54.0	56.0	55	49
354	"14:39:01"	52.6	57.1	54	50
355	"14:40:01"	53.1	56.8	56	49
356	"14:41:01"	54.1	57.9	56	51
357	"14:42:01"	52.4	55.5	54	47
358	"14:43:01"	53.0	55.8	54	50
359	"14:44:01"	57.7	66.7	61	50
360	"14:45:01"	51.8	55.9	54	49
361	"14:46:01"	55.4	57.9	57	52
362	"14:47:01"	54.1	59.3	55	50
363	"14:48:01"	55.3	61.0	59	50
364	"14:49:01"	50.4	55.2	51	47
365	"14:50:01"	53.1	59.3	56	49
366	"14:51:01"	52.2	58.0	54	48
367	"14:52:01"	53.7	61.8	57	48
368	"14:53:01"	55.6	61.9	58	50
369	"14:54:01"	54.8	59.3	58	51
370	"14:55:01"	52.7	58.8	56	47
371	"14:56:01"	53.0	56.2	54	49
372	"14:57:01"	54.4	63.7	57	50
373	"14:58:01"	52.5	55.8	54	49
374	"14:59:01"	54.1	58.0	57	50
375	"15:00:01"	54.3	57.1	56	52
376	"15:01:01"	56.5	68.6	57	53
377	"15:02:01"	52.2	61.1	54	48
378	"15:03:01"	52.7	57.3	56	49
379	"15:04:01"	53.4	56.8	55	51
380	"15:05:01"	55.6	59.0	57	51
381	"15:06:01"	54.7	59.0	57	52
382	"15:07:01"	53.2	61.7	57	47
383	"15:08:01"	50.9	54.6	53	47
384	"15:09:01"	53.9	58.3	56	50
385	"15:10:01"	53.8	57.1	55	51
386	"15:11:01"	54.2	58.7	57	50
387	"15:12:01"	53.1	57.0	55	50
388	"15:13:01"	52.5	57.6	54	50
389	"15:14:01"	53.4	56.8	55	51
390	"15:15:01"	56.9	61.7	58	54
391	"15:16:01"	55.3	61.3	57	52
392	"15:17:01"	53.2	55.8	54	50
393	"15:18:01"	55.9	64.2	57	50
394	"15:19:01"	53.7	57.8	57	50

395	"15:20:01"	53.4	59.3	57	49
396	"15:21:01"	54.5	57.8	56	51
397	"15:22:01"	54.1	57.5	56	50
398	"15:23:01"	53.6	57.0	55	49
399	"15:24:01"	53.2	57.5	56	47
400	"15:25:01"	53.6	57.6	56	49
401	"15:26:01"	54.1	57.3	56	50
402	"15:27:01"	54.3	58.1	56	51
403	"15:28:01"	53.1	55.9	54	51
404	"15:29:01"	55.8	59.9	58	52
405	"15:30:01"	59.6	65.4	61	56
406	"15:31:01"	55.4	60.1	58	51
407	"15:32:01"	53.3	57.3	55	49
408	"15:33:01"	54.5	57.2	56	50
409	"15:34:01"	52.6	54.6	53	51
410	"15:35:01"	54.2	58.3	57	49
411	"15:36:01"	51.7	57.5	54	48
412	"15:37:01"	52.6	56.1	55	50
413	"15:38:01"	51.9	55.5	54	48
414	"15:39:01"	53.4	55.8	55	50
415	"15:40:01"	53.3	57.2	55	49
416	"15:41:01"	54.0	57.1	56	48
417	"15:42:01"	52.0	57.1	53	49
418	"15:43:01"	50.1	55.2	52	47
419	"15:44:01"	52.4	57.5	55	48
420	"15:45:01"	53.0	57.3	55	49
421	"15:46:01"	53.5	57.9	56	49
422	"15:47:01"	54.2	59.2	57	50
423	"15:48:01"	54.9	58.9	57	51
424	"15:49:01"	55.3	58.5	57	52
425	"15:50:01"	52.6	54.5	53	51
426	"15:51:01"	52.0	55.5	53	50
427	"15:52:01"	52.5	57.1	56	47
428	"15:53:01"	53.0	57.6	56	46
429	"15:54:01"	51.3	55.2	53	48
430	"15:55:01"	52.1	57.6	54	48
431	"15:56:01"	52.3	58.0	55	47
432	"15:57:01"	54.2	57.7	57	49
433	"15:58:01"	53.2	57.1	55	50
434	"15:59:01"	52.3	56.8	55	47
435	"16:00:01"	52.7	57.0	54	49
436	"16:01:01"	53.6	58.8	57	49
437	"16:02:01"	52.2	57.3	55	48
438	"16:03:01"	51.4	54.6	53	48
439	"16:04:01"	49.9	53.0	51	48
440	"16:05:01"	54.8	59.0	57	51
441	"16:06:01"	52.8	56.3	55	48
442	"16:07:01"	49.0	53.8	51	46
443	"16:08:01"	49.7	53.5	52	46
444	"16:09:01"	50.0	54.2	53	46
445	"16:10:01"	52.4	56.1	54	47
446	"16:11:01"	53.2	57.2	55	49
447	"16:12:01"	53.5	56.2	55	50
448	"16:13:01"	53.3	56.8	55	49
449	"16:14:01"	53.5	57.1	54	51
450	"16:15:01"	50.9	56.3	53	48
451	"16:16:01"	52.3	55.8	54	50
452	"16:17:01"	54.4	59.3	57	50

453	"16:18:01"	55.5	60.5	59	51
454	"16:19:01"	52.9	57.1	55	49
455	"16:20:01"	51.9	57.6	54	48
456	"16:21:01"	52.9	56.3	55	49
457	"16:22:01"	51.8	56.0	54	47
458	"16:23:01"	52.4	56.0	54	49
459	"16:24:01"	52.7	57.0	54	49
460	"16:25:01"	50.4	54.4	53	47
461	"16:26:01"	52.3	56.0	54	48
462	"16:27:01"	49.9	53.3	52	47
463	"16:28:01"	53.3	63.6	55	48
464	"16:29:01"	53.6	56.1	55	51
465	"16:30:01"	53.6	56.8	55	51
466	"16:31:01"	53.7	57.6	56	50
467	"16:32:01"	49.1	55.7	51	47
468	"16:33:01"	52.2	57.7	55	47
469	"16:34:01"	51.6	56.8	53	48
470	"16:35:01"	52.8	55.8	54	49
471	"16:36:01"	52.8	58.2	55	45
472	"16:37:01"	50.0	55.6	54	45
473	"16:38:01"	50.9	55.7	53	46
474	"16:39:01"	52.8	56.2	55	47
475	"16:40:01"	52.9	58.3	56	47
476	"16:41:01"	52.5	57.0	55	49
477	"16:42:01"	52.9	57.2	55	48
478	"16:43:01"	51.6	55.8	53	48
479	"16:44:01"	51.2	53.9	52	48
480	"16:45:01"	53.3	57.5	56	48
481	"16:46:01"	52.1	57.5	55	47
482	"16:47:01"	55.5	58.6	57	52
483	"16:48:01"	52.6	55.9	54	49
484	"16:49:01"	51.8	54.5	53	49
485	"16:50:01"	52.6	57.6	55	47
486	"16:51:01"	47.6	52.4	51	45
487	"16:52:01"	51.1	55.9	54	48
488	"16:53:01"	49.7	52.8	51	47
489	"16:54:01"	52.5	55.7	55	48
490	"16:55:01"	51.7	56.3	54	48
491	"16:56:01"	54.9	59.3	57	49
492	"16:57:01"	52.3	55.6	53	50
493	"16:58:01"	54.6	57.8	56	51
494	"16:59:01"	52.7	55.9	54	49
495	"17:00:01"	53.3	57.6	55	50
496	"17:01:01"	52.5	56.1	55	48
497	"17:02:01"	51.0	54.5	53	47
498	"17:03:01"	54.0	58.0	57	50
499	"17:04:01"	50.8	58.0	51	47
500	"17:05:01"	52.0	57.3	54	48
501	"17:06:01"	53.8	58.1	57	46
502	"17:07:01"	51.8	56.6	54	47
503	"17:08:01"	54.4	57.3	56	50
504	"17:09:01"	50.3	55.4	52	48
505	"17:10:01"	53.7	57.7	55	51
506	"17:11:01"	54.0	57.1	55	52
507	"17:12:01"	51.9	57.1	54	46
508	"17:13:01"	51.6	55.7	54	48
509	"17:14:01"	54.6	57.5	56	51
510	"17:15:01"	54.2	61.1	57	51

511	"17:16:01"	54.1	58.0	56	51
512	"17:17:01"	52.3	55.4	54	50
513	"17:18:01"	52.1	55.4	54	49
514	"17:19:01"	52.7	55.0	54	50
515	"17:20:01"	53.3	57.3	55	49
516	"17:21:01"	53.5	57.1	55	50
517	"17:22:01"	52.9	55.6	54	50
518	"17:23:01"	56.2	64.7	60	50
519	"17:24:01"	61.1	66.1	64	57
520	"17:25:01"	54.5	58.0	56	51
521	"17:26:01"	52.8	56.8	55	48
522	"17:27:01"	51.7	55.6	54	47
523	"17:28:01"	51.6	54.8	53	50
524	"17:29:01"	51.7	55.1	54	48
525	"17:30:01"	51.6	57.5	56	46
526	"17:31:01"	52.7	57.9	56	48
527	"17:32:01"	53.9	56.2	55	52
528	"17:33:01"	53.5	58.0	55	50
529	"17:34:01"	51.5	55.7	53	49
530	"17:35:01"	53.2	57.6	55	50
531	"17:36:01"	54.2	59.2	56	50
532	"17:37:01"	50.5	55.8	53	46
533	"17:38:01"	58.0	64.3	60	54
534	"17:39:01"	56.1	63.9	58	50
535	"17:40:01"	51.8	55.1	54	48
536	"17:41:01"	55.5	59.6	58	51
537	"17:42:01"	61.0	66.5	62	55
538	"17:43:01"	55.1	58.9	58	51
539	"17:44:01"	56.9	61.9	60	52
540	"17:45:01"	52.5	57.0	55	49
541	"17:46:01"	53.2	55.3	54	50
542	"17:47:01"	52.9	57.1	55	48
543	"17:48:01"	51.8	54.9	53	49
544	"17:49:01"	51.0	53.9	53	47
545	"17:50:01"	51.7	54.4	53	47
546	"17:51:01"	54.3	57.0	55	52
547	"17:52:01"	57.3	62.1	59	53
548	"17:53:01"	53.5	57.1	55	50
549	"17:54:01"	57.3	63.1	61	48
550	"17:55:01"	58.0	67.7	61	50
551	"17:56:01"	67.9	77.4	74	49
552	"17:57:01"	52.4	56.8	54	49
553	"17:58:01"	54.1	57.8	56	47
554	"17:59:01"	57.0	60.2	59	53
555	"18:00:01"	58.3	63.3	61	53
556	"18:01:01"	57.7	64.1	60	52
557	"18:02:01"	54.7	60.4	57	50
558	"18:03:01"	52.7	57.1	55	47
559	"18:04:01"	49.2	55.0	53	45
560	"18:05:01"	53.3	57.8	56	48
561	"18:06:01"	55.7	58.1	57	53
562	"18:07:01"	52.4	57.2	55	47
563	"18:08:01"	51.8	55.4	54	48
564	"18:09:01"	53.2	57.7	56	49
565	"18:10:01"	53.3	56.2	55	49
566	"18:11:01"	55.1	59.1	58	50
567	"18:12:01"	53.2	59.0	57	48
568	"18:13:01"	51.0	54.7	53	47

569	"18:14:01"	54.9	58.5	57	48
570	"18:15:01"	59.5	65.0	62	54
571	"18:16:01"	54.0	57.9	56	50
572	"18:17:01"	69.5	77.4	74	52
573	"18:18:01"	64.0	73.9	69	52
574	"18:19:01"	54.7	57.6	56	51
575	"18:20:01"	52.8	56.3	55	48
576	"18:21:01"	54.0	58.5	57	48
577	"18:22:01"	55.5	60.8	58	50
578	"18:23:01"	53.9	57.7	57	50
579	"18:24:01"	54.2	58.5	56	50
580	"18:25:01"	54.0	57.6	56	48
581	"18:26:01"	54.9	57.8	56	52
582	"18:27:01"	54.2	57.8	56	50
583	"18:28:01"	53.7	57.1	55	50
584	"18:29:01"	52.3	57.0	55	47
585	"18:30:01"	54.8	57.3	56	51
586	"18:31:01"	53.0	58.0	55	49
587	"18:32:01"	58.4	68.8	62	49

--- AMPLITUDE DISTRIBUTION REPORT ---

"TOTAL SAMPLES = 281506

"dB"	"SAMPLES"	"% OF TOTAL"
45	479 +	0.17
46	2928 *	1.04
47	10184 ****	3.62
48	17435 *****	6.19
49	21609 *****	7.68
50	30973 *****	11.00
51	34390 *****	12.22
52	39122 *****	13.90
53	37570 *****	13.35
54	30175 *****	10.72
55	21745 *****	7.72
56	12654 ****	4.50
57	10698 ****	3.80
58	4337 **	1.54
59	2478 *	0.88
60	1620 *	0.58
61	1181 +	0.42
62	603 +	0.21
63	348 +	0.12
64	242 .	0.09
65	177 .	0.06
66	136 .	0.05
67	73 .	0.03
68	50 .	0.02
69	19 .	0.01
70	16 .	0.01
71	46 .	0.02
72	46 .	0.02
73	70 .	0.02
74	26 .	0.01
75	25 .	0.01
76	38 .	0.01
77	13 .	0.00

"Ln( 0.0) = 77dB

"Ln(10.0) = 56dB

"Ln(50.0) = 52dB

"Ln(99.9) = 45dB

"	NO	80.0dB	90.0dB
"	CUTOFF	CUTOFF	CUTOFF
"Leq	53.8dB	43.0dB	43.0dB
"Ldod	53.2dB	43.0dB	43.0dB
"Lsha	53.0dB	43.0dB	43.0dB
"Leq(6)	52.8dB	43.0dB	43.0dB



"File Name.....bin4  
"Test Location.....Rock Creek '96 - Site X  
"Employee Name.....CP  
"Employee Number....  
"Department.....  
"Comment Field 1...3000 Birch  
"Comment Field 2...12/4/96  
"Numeric Code #1... #2... #3... #4... #5...

"METROSONICS db-308 SN 1947 V2.3  
"REPORT PRINTED 12/05/96 AT 00:44:32

"EXCHANGE RATE..... 3dB FILTER.....A WGH  
"DOSE CRITERION.... 90dB RESPONSE...SLOW  
"PRE-TEST CALIBRATION TIME...12/04/96 AT 9:08:20  
"PRE-TEST CALIBRATION RANGE... 43.8dB TO 139.8dB  
"Calibrator Type & Serial #....

"Calibrator Calibration Date..

"-- OVERALL STATISTICS REPORT --

"TEST BEGAN....12/04/96 AT 9:12:00  
"TEST LENGTH... 0 DAYS 9:36:23

"Lav..... 57.7dB  
"SEL.....102.9dB  
"Lmax..... 78.6dB ON 12/04/96 AT 9:39:02  
"Lpk.....UNDER  
"TIME OVER 115dB.. 0 DAYS 0:00:00.00

"8 HR DOSE (80dB CUTOFF)..... 0.00%  
"8 HR DOSE (90dB CUTOFF)..... 0.00%

"-- TABULAR TIME HISTORY REPORT --

"# OF PERIODS: 577 MODE: CONTINUOUS  
"PERIOD LENGTH: 0:01:00  
"TIME HISTORY CUTOFF: NONE  
"Ln(1): 10.0% Ln(2): 90.0%

"DATE: 12/04/96

"INT"	"TIME"	"Lav"	"Lmx"	"L1"	"L2"
1	" 9:12:00"	56.4	62.2	60	49
2	" 9:13:00"	59.7	69.1	62	52
3	" 9:14:00"	58.6	68.6	63	49
4	" 9:15:00"	58.7	62.6	61	53
5	" 9:16:00"	55.6	60.1	58	49
6	" 9:17:00"	57.6	61.7	60	53
7	" 9:18:00"	56.5	60.2	59	50
8	" 9:19:00"	57.0	61.6	60	52
9	" 9:20:00"	61.4	70.6	64	55
10	" 9:21:00"	64.0	71.8	66	58
11	" 9:22:00"	59.2	67.8	61	54
12	" 9:23:00"	58.7	62.7	61	53
13	" 9:24:00"	61.9	66.4	65	57
14	" 9:25:00"	56.9	64.6	61	49
15	" 9:26:00"	58.4	62.7	61	54
16	" 9:27:00"	57.5	61.5	59	50
17	" 9:28:00"	55.8	62.1	58	50
18	" 9:29:00"	57.1	62.0	59	52
19	" 9:30:00"	55.8	60.7	59	49
20	" 9:31:00"	56.3	60.6	59	48
21	" 9:32:00"	55.5	60.1	58	49
22	" 9:33:00"	57.1	62.6	60	49
23	" 9:34:00"	54.5	62.9	59	46
24	" 9:35:00"	56.8	60.0	59	51
25	" 9:36:00"	58.5	61.9	61	55
26	" 9:37:00"	56.7	61.3	58	53
27	" 9:38:00"	67.4	77.5	73	54
28	" 9:39:00"	67.7	78.6	72	57
29	" 9:40:00"	60.8	68.0	64	51
30	" 9:41:00"	58.2	67.2	61	51
31	" 9:42:00"	58.8	65.2	61	47
32	" 9:43:00"	57.9	67.8	60	47
33	" 9:44:00"	57.7	62.7	60	50
34	" 9:45:00"	56.9	62.6	59	50
35	" 9:46:00"	55.1	60.9	59	49
36	" 9:47:00"	57.3	64.0	60	51
37	" 9:48:00"	59.1	65.8	61	55
38	" 9:49:00"	54.7	60.8	58	49
39	" 9:50:00"	56.7	62.5	61	52
40	" 9:51:00"	55.3	60.5	59	50
41	" 9:52:00"	59.8	69.6	61	51
42	" 9:53:00"	67.1	75.8	73	53
43	" 9:54:00"	55.8	61.4	58	50
44	" 9:55:00"	53.5	59.8	57	48
45	" 9:56:00"	58.6	68.1	61	48
46	" 9:57:00"	55.3	61.9	59	49

47	" 9:58:00"	55.6	60.2	58	50
48	" 9:59:00"	58.0	62.3	60	53
49	"10:00:00"	53.4	61.5	58	47
50	"10:01:00"	58.6	67.1	61	52
51	"10:02:00"	59.9	70.6	63	50
52	"10:03:00"	51.9	57.5	54	49
53	"10:04:00"	52.8	58.7	56	48
54	"10:05:00"	56.5	61.1	58	49
55	"10:06:00"	54.7	62.9	58	47
56	"10:07:00"	57.2	67.8	60	49
57	"10:08:00"	56.5	65.1	59	52
58	"10:09:00"	51.2	56.0	54	48
59	"10:10:00"	59.8	66.1	63	54
60	"10:11:00"	60.4	70.1	64	48
61	"10:12:00"	57.5	62.4	60	52
62	"10:13:00"	58.2	67.4	62	49
63	"10:14:00"	57.7	62.7	61	47
64	"10:15:00"	56.2	62.9	59	48
65	"10:16:00"	55.0	61.9	58	48
66	"10:17:00"	54.0	58.3	56	48
67	"10:18:00"	56.5	60.9	59	48
68	"10:19:00"	56.3	64.0	60	50
69	"10:20:00"	57.0	61.0	59	50
70	"10:21:00"	55.8	63.7	58	50
71	"10:22:00"	54.3	61.9	57	48
72	"10:23:00"	54.5	62.0	58	49
73	"10:24:00"	56.4	63.4	59	50
74	"10:25:00"	55.4	60.4	57	52
75	"10:26:00"	53.8	58.8	56	50
76	"10:27:00"	52.1	57.1	55	49
77	"10:28:00"	55.0	61.1	58	50
78	"10:29:00"	54.7	61.0	56	51
79	"10:30:00"	55.2	59.9	58	51
80	"10:31:00"	53.4	57.6	56	49
81	"10:32:00"	54.7	60.1	58	49
82	"10:33:00"	58.7	69.7	60	48
83	"10:34:00"	54.1	61.6	57	48
84	"10:35:00"	54.7	61.9	60	47
85	"10:36:00"	54.9	58.9	58	50
86	"10:37:00"	64.5	70.8	67	58
87	"10:38:00"	56.3	60.2	58	52
88	"10:39:00"	57.4	63.0	60	52
89	"10:40:00"	54.2	59.6	57	50
90	"10:41:00"	55.8	60.6	58	50
91	"10:42:00"	60.8	68.5	62	57
92	"10:43:00"	57.1	60.4	59	53
93	"10:44:00"	54.0	59.4	57	50
94	"10:45:00"	57.3	67.6	58	53
95	"10:46:00"	59.3	67.8	62	50
96	"10:47:00"	55.7	63.0	59	51
97	"10:48:00"	53.0	60.2	55	50
98	"10:49:00"	55.4	60.2	58	50
99	"10:50:00"	55.3	61.2	58	50
100	"10:51:00"	55.6	62.4	59	51
101	"10:52:00"	55.4	60.2	58	50
102	"10:53:00"	57.9	65.3	60	52
103	"10:54:00"	55.8	64.7	59	50
104	"10:55:00"	56.8	61.9	60	49

105	"10:56:00"	54.5	60.1	58	50
106	"10:57:00"	54.4	59.4	58	48
107	"10:58:00"	55.5	61.0	59	49
108	"10:59:00"	54.1	60.6	58	47
109	"11:00:00"	54.1	62.9	58	46
110	"11:01:00"	54.4	59.4	57	50
111	"11:02:00"	53.8	58.5	57	48
112	"11:03:00"	57.7	64.3	60	52
113	"11:04:00"	57.2	61.8	60	51
114	"11:05:00"	55.2	62.7	59	51
115	"11:06:00"	54.5	60.1	58	49
116	"11:07:00"	56.3	62.4	59	49
117	"11:08:00"	55.6	64.1	58	48
118	"11:09:00"	56.4	61.8	59	49
119	"11:10:00"	54.8	60.1	56	51
120	"11:11:00"	55.5	60.1	58	50
121	"11:12:00"	56.7	62.9	60	50
122	"11:13:00"	55.4	61.5	59	48
123	"11:14:00"	54.3	60.1	57	47
124	"11:15:00"	54.9	59.5	58	48
125	"11:16:00"	59.0	69.4	62	51
126	"11:17:00"	54.6	58.7	57	50
127	"11:18:00"	54.5	61.0	58	49
128	"11:19:00"	54.3	61.6	58	47
129	"11:20:00"	58.0	67.7	61	48
130	"11:21:00"	58.0	68.2	61	48
131	"11:22:00"	53.8	58.8	56	51
132	"11:23:00"	53.2	60.3	57	47
133	"11:24:00"	54.0	59.3	58	48
134	"11:25:00"	52.0	59.5	54	48
135	"11:26:00"	55.7	64.4	58	50
136	"11:27:00"	57.6	63.4	60	52
137	"11:28:00"	59.2	67.8	62	52
138	"11:29:00"	56.8	61.0	59	53
139	"11:30:00"	54.1	62.6	57	49
140	"11:31:00"	55.3	62.6	58	48
141	"11:32:00"	55.2	60.9	59	49
142	"11:33:00"	55.4	59.4	58	52
143	"11:34:00"	56.2	60.7	58	53
144	"11:35:00"	55.9	61.8	58	51
145	"11:36:00"	55.8	61.3	59	51
146	"11:37:00"	57.6	65.0	61	49
147	"11:38:00"	56.2	64.3	59	49
148	"11:39:00"	53.3	59.4	57	50
149	"11:40:00"	56.2	60.4	59	51
150	"11:41:00"	56.8	62.2	60	52
151	"11:42:00"	54.6	58.0	56	52
152	"11:43:00"	53.3	58.0	55	50
153	"11:44:00"	54.2	58.8	57	50
154	"11:45:00"	55.4	62.8	58	52
155	"11:46:00"	52.2	56.7	53	50
156	"11:47:00"	52.5	56.3	55	49
157	"11:48:00"	55.4	62.5	59	48
158	"11:49:00"	54.2	61.6	58	49
159	"11:50:00"	55.9	61.9	58	51
160	"11:51:00"	56.6	61.6	59	51
161	"11:52:00"	54.7	59.4	57	51
162	"11:53:00"	58.1	60.8	60	54

163	"11:54:00"	56.6	60.3	58	54
164	"11:55:00"	53.2	58.4	56	47
165	"11:56:00"	56.6	63.4	59	50
166	"11:57:00"	58.6	68.7	61	51
167	"11:58:00"	57.2	65.3	61	49
168	"11:59:00"	55.8	62.5	60	48
169	"12:00:00"	56.9	64.0	60	50
170	"12:01:00"	56.3	62.1	59	50
171	"12:02:00"	61.7	73.9	65	48
172	"12:03:00"	56.5	61.7	60	50
173	"12:04:00"	56.6	61.3	59	51
174	"12:05:00"	51.6	57.1	55	46
175	"12:06:00"	53.5	60.4	57	47
176	"12:07:00"	50.7	57.9	53	47
177	"12:08:00"	55.1	60.4	59	50
178	"12:09:00"	54.8	59.7	57	49
179	"12:10:00"	52.1	58.3	56	48
180	"12:11:00"	55.8	61.3	58	49
181	"12:12:00"	55.8	60.8	59	50
182	"12:13:00"	55.5	58.8	57	52
183	"12:14:00"	54.9	60.9	57	51
184	"12:15:00"	55.5	64.5	58	49
185	"12:16:00"	56.9	64.4	60	50
186	"12:17:00"	56.1	61.1	58	52
187	"12:18:00"	53.7	59.4	57	49
188	"12:19:00"	54.7	59.8	58	49
189	"12:20:00"	57.0	60.9	59	53
190	"12:21:00"	52.4	57.9	56	47
191	"12:22:00"	53.1	62.0	57	46
192	"12:23:00"	59.1	63.4	62	54
193	"12:24:00"	60.2	65.9	63	54
194	"12:25:00"	58.0	61.5	59	54
195	"12:26:00"	59.4	65.5	62	54
196	"12:27:00"	57.7	61.8	59	55
197	"12:28:00"	56.5	62.0	58	53
198	"12:29:00"	59.4	64.1	61	56
199	"12:30:00"	57.9	64.0	61	52
200	"12:31:00"	58.0	62.2	60	54
201	"12:32:00"	56.1	62.1	59	49
202	"12:33:00"	56.7	61.9	60	52
203	"12:34:00"	53.9	61.3	58	49
204	"12:35:00"	54.6	59.4	57	50
205	"12:36:00"	54.4	58.5	57	51
206	"12:37:00"	55.0	60.1	58	50
207	"12:38:00"	56.1	61.6	58	51
208	"12:39:00"	54.8	60.2	59	50
209	"12:40:00"	54.6	59.6	57	49
210	"12:41:00"	53.7	59.3	56	49
211	"12:42:00"	59.8	69.6	62	52
212	"12:43:00"	53.7	62.9	58	47
213	"12:44:00"	53.9	60.0	57	46
214	"12:45:00"	55.8	64.6	59	48
215	"12:46:00"	58.0	62.7	60	54
216	"12:47:00"	56.7	61.8	59	52
217	"12:48:00"	58.2	65.7	60	53
218	"12:49:00"	55.9	62.7	59	49
219	"12:50:00"	56.8	63.2	60	51
220	"12:51:00"	54.2	59.3	57	50

221	"12:52:00"	52.8	58.5	55	48
222	"12:53:00"	56.6	62.3	60	50
223	"12:54:00"	55.7	59.9	58	51
224	"12:55:00"	55.5	60.1	58	51
225	"12:56:00"	54.4	62.0	56	50
226	"12:57:00"	54.4	61.0	58	47
227	"12:58:00"	52.0	59.9	56	47
228	"12:59:00"	53.6	59.6	58	48
229	"13:00:00"	55.5	60.8	58	51
230	"13:01:00"	52.8	57.6	55	49
231	"13:02:00"	51.7	58.1	54	48
232	"13:03:00"	54.5	60.9	57	50
233	"13:04:00"	52.5	61.3	55	47
234	"13:05:00"	47.8	52.2	49	46
235	"13:06:00"	55.1	60.1	58	48
236	"13:07:00"	53.1	62.9	56	47
237	"13:08:00"	57.1	62.9	60	49
238	"13:09:00"	54.8	61.8	58	48
239	"13:10:00"	55.9	64.2	59	50
240	"13:11:00"	54.6	59.7	57	50
241	"13:12:00"	55.4	62.9	58	49
242	"13:13:00"	52.8	57.9	55	49
243	"13:14:00"	56.3	61.1	59	51
244	"13:15:00"	54.3	58.8	57	50
245	"13:16:00"	58.7	69.3	61	51
246	"13:17:00"	57.4	63.7	60	52
247	"13:18:00"	57.1	61.4	60	52
248	"13:19:00"	54.4	61.5	57	49
249	"13:20:00"	55.5	60.9	59	50
250	"13:21:00"	54.6	62.9	58	49
251	"13:22:00"	61.0	72.6	63	51
252	"13:23:00"	55.8	62.2	59	50
253	"13:24:00"	55.5	60.5	58	50
254	"13:25:00"	57.3	66.4	60	49
255	"13:26:00"	55.9	63.0	59	50
256	"13:27:00"	54.9	59.5	58	50
257	"13:28:00"	57.6	62.5	60	52
258	"13:29:00"	55.2	60.6	58	50
259	"13:30:00"	53.2	57.9	55	50
260	"13:31:00"	55.8	62.9	61	49
261	"13:32:00"	56.3	62.4	60	50
262	"13:33:00"	56.6	61.3	60	51
263	"13:34:00"	54.8	61.0	58	50
264	"13:35:00"	54.3	61.2	59	49
265	"13:36:00"	53.6	58.7	57	48
266	"13:37:00"	57.0	64.7	60	50
267	"13:38:00"	56.9	65.5	60	50
268	"13:39:00"	53.8	60.0	57	49
269	"13:40:00"	56.1	62.2	59	50
270	"13:41:00"	57.3	62.2	59	52
271	"13:42:00"	50.4	57.6	52	47
272	"13:43:00"	53.2	58.4	56	50
273	"13:44:00"	53.3	58.9	56	50
274	"13:45:00"	53.0	58.4	56	49
275	"13:46:00"	56.3	60.2	59	51
276	"13:47:00"	55.4	60.2	58	51
277	"13:48:00"	56.8	61.1	59	50
278	"13:49:00"	54.4	59.5	57	49

279	"13:50:00"	55.0	60.1	59	50
280	"13:51:00"	57.6	64.1	62	50
281	"13:52:00"	56.2	64.6	60	50
282	"13:53:00"	53.6	59.1	57	50
283	"13:54:00"	52.8	57.8	56	49
284	"13:55:00"	58.3	68.7	62	50
285	"13:56:00"	57.1	62.6	59	50
286	"13:57:00"	55.4	60.3	58	49
287	"13:58:00"	55.0	60.4	58	51
288	"13:59:00"	54.1	58.3	56	50
289	"14:00:00"	57.0	61.5	60	50
290	"14:01:00"	55.6	61.0	59	48
291	"14:02:00"	56.6	61.5	60	52
292	"14:03:00"	55.7	60.1	58	50
293	"14:04:00"	56.9	64.6	60	51
294	"14:05:00"	58.2	69.6	61	49
295	"14:06:00"	55.0	62.7	59	49
296	"14:07:00"	54.0	60.1	58	47
297	"14:08:00"	54.8	61.0	58	48
298	"14:09:00"	56.7	62.5	61	49
299	"14:10:00"	56.1	61.9	59	51
300	"14:11:00"	57.8	61.7	60	50
301	"14:12:00"	55.8	62.1	59	50
302	"14:13:00"	57.0	61.0	60	51
303	"14:14:00"	54.9	59.5	57	50
304	"14:15:00"	57.2	62.5	60	50
305	"14:16:00"	56.2	62.1	59	50
306	"14:17:00"	59.6	69.9	62	50
307	"14:18:00"	54.7	60.0	58	48
308	"14:19:00"	56.0	60.0	58	51
309	"14:20:00"	61.7	70.3	66	49
310	"14:21:00"	56.6	61.1	60	50
311	"14:22:00"	55.7	62.9	60	49
312	"14:23:00"	56.5	61.1	59	51
313	"14:24:00"	58.1	63.0	61	52
314	"14:25:00"	56.2	61.0	58	51
315	"14:26:00"	62.2	70.5	66	55
316	"14:27:00"	54.0	59.7	56	50
317	"14:28:00"	54.0	59.9	58	50
318	"14:29:00"	54.6	59.1	57	51
319	"14:30:00"	53.8	58.6	57	49
320	"14:31:00"	56.1	63.3	58	50
321	"14:32:00"	55.5	61.0	59	50
322	"14:33:00"	59.3	70.4	61	51
323	"14:34:00"	56.2	60.8	59	49
324	"14:35:00"	55.8	60.2	58	48
325	"14:36:00"	58.0	65.5	61	50
326	"14:37:00"	55.6	61.0	59	46
327	"14:38:00"	57.7	64.6	60	52
328	"14:39:00"	54.6	67.1	59	45
329	"14:40:00"	56.2	61.3	59	47
330	"14:41:00"	56.3	61.5	59	51
331	"14:42:00"	56.4	62.3	59	48
332	"14:43:00"	59.8	70.3	61	49
333	"14:44:00"	57.4	65.4	59	52
334	"14:45:00"	56.3	61.2	59	50
335	"14:46:00"	56.4	61.3	59	48
336	"14:47:00"	55.3	60.4	58	48

337	"14:48:00"	54.0	60.1	58	48
338	"14:49:00"	55.8	62.6	58	50
339	"14:50:00"	57.4	61.7	60	50
340	"14:51:00"	54.7	61.2	59	47
341	"14:52:00"	53.4	60.4	58	48
342	"14:53:00"	56.6	62.2	60	50
343	"14:54:00"	57.1	61.1	59	52
344	"14:55:00"	56.2	65.9	59	48
345	"14:56:00"	59.0	64.7	61	54
346	"14:57:00"	54.7	62.2	58	48
347	"14:58:00"	54.6	60.2	57	49
348	"14:59:00"	57.7	63.2	61	51
349	"15:00:00"	55.8	61.8	60	48
350	"15:01:00"	57.4	63.3	60	51
351	"15:02:00"	55.7	62.5	60	48
352	"15:03:00"	57.4	65.8	61	49
353	"15:04:00"	58.2	63.3	61	51
354	"15:05:00"	55.6	60.7	59	49
355	"15:06:00"	55.9	60.1	58	49
356	"15:07:00"	59.4	68.0	61	53
357	"15:08:00"	58.2	61.1	60	54
358	"15:09:00"	56.9	61.9	60	51
359	"15:10:00"	56.6	63.2	59	51
360	"15:11:00"	56.8	62.4	60	50
361	"15:12:00"	55.9	61.1	58	52
362	"15:13:00"	55.5	62.2	59	47
363	"15:14:00"	60.2	69.8	62	52
364	"15:15:00"	56.7	60.5	59	53
365	"15:16:00"	52.5	58.1	54	49
366	"15:17:00"	56.9	62.6	59	52
367	"15:18:00"	57.6	61.6	60	53
368	"15:19:00"	57.6	61.5	60	52
369	"15:20:00"	56.1	62.1	58	51
370	"15:21:00"	55.0	62.9	58	48
371	"15:22:00"	62.0	73.4	65	52
372	"15:23:00"	57.8	61.6	60	53
373	"15:24:00"	56.9	62.9	60	52
374	"15:25:00"	56.0	60.2	58	52
375	"15:26:00"	57.1	61.2	60	53
376	"15:27:00"	57.8	65.0	60	51
377	"15:28:00"	55.5	61.9	60	48
378	"15:29:00"	58.8	65.2	62	49
379	"15:30:00"	59.4	63.9	61	55
380	"15:31:00"	59.2	64.7	63	54
381	"15:32:00"	56.6	60.9	59	51
382	"15:33:00"	57.3	60.6	59	53
383	"15:34:00"	58.0	62.5	60	53
384	"15:35:00"	58.2	61.6	60	55
385	"15:36:00"	58.4	61.6	61	53
386	"15:37:00"	61.0	68.0	66	49
387	"15:38:00"	55.4	60.7	58	49
388	"15:39:00"	58.7	63.6	61	54
389	"15:40:00"	56.5	60.9	59	50
390	"15:41:00"	57.6	62.5	60	50
391	"15:42:00"	57.9	65.7	60	51
392	"15:43:00"	56.6	61.5	60	50
393	"15:44:00"	57.0	61.5	59	50
394	"15:45:00"	55.4	60.8	59	46

395	"15:46:00"	56.7	60.1	59	51
396	"15:47:00"	56.6	61.8	59	49
397	"15:48:00"	58.3	65.6	61	51
398	"15:49:00"	57.6	64.2	61	48
399	"15:50:00"	59.5	63.0	61	55
400	"15:51:00"	59.1	62.5	60	56
401	"15:52:00"	56.1	61.4	59	48
402	"15:53:00"	59.9	64.0	63	54
403	"15:54:00"	56.0	60.4	59	48
404	"15:55:00"	58.0	65.3	62	47
405	"15:56:00"	56.7	60.5	59	50
406	"15:57:00"	57.2	61.9	60	48
407	"15:58:00"	59.7	69.8	62	46
408	"15:59:00"	54.1	62.2	59	44
409	"16:00:00"	58.0	63.8	61	46
410	"16:01:00"	56.2	61.9	59	48
411	"16:02:00"	61.7	71.7	63	53
412	"16:03:00"	57.0	62.4	60	51
413	"16:04:00"	58.9	68.6	61	51
414	"16:05:00"	57.1	62.2	60	52
415	"16:06:00"	55.9	61.1	59	50
416	"16:07:00"	57.0	65.7	61	50
417	"16:08:00"	58.3	68.5	60	51
418	"16:09:00"	55.4	61.1	59	49
419	"16:10:00"	57.5	62.7	60	50
420	"16:11:00"	55.7	60.1	59	49
421	"16:12:00"	55.4	61.2	59	47
422	"16:13:00"	50.8	61.6	54	45
423	"16:14:00"	56.0	61.2	59	48
424	"16:15:00"	58.4	64.5	61	52
425	"16:16:00"	57.9	61.9	60	51
426	"16:17:00"	57.3	62.2	60	52
427	"16:18:00"	58.5	61.9	60	55
428	"16:19:00"	59.0	63.2	61	54
429	"16:20:00"	55.6	60.9	60	47
430	"16:21:00"	56.6	62.2	60	48
431	"16:22:00"	56.3	60.3	59	49
432	"16:23:00"	56.9	62.6	60	48
433	"16:24:00"	55.8	62.5	59	47
434	"16:25:00"	58.1	61.8	59	54
435	"16:26:00"	58.9	66.9	64	47
436	"16:27:00"	57.3	60.5	59	54
437	"16:28:00"	56.3	59.9	59	50
438	"16:29:00"	57.7	65.5	61	48
439	"16:30:00"	57.2	62.3	60	51
440	"16:31:00"	57.1	65.3	60	49
441	"16:32:00"	57.8	63.5	62	48
442	"16:33:00"	56.0	62.2	59	48
443	"16:34:00"	55.2	60.3	59	48
444	"16:35:00"	54.9	60.6	59	46
445	"16:36:00"	56.3	61.0	59	49
446	"16:37:00"	60.4	70.6	62	51
447	"16:38:00"	59.2	63.5	61	50
448	"16:39:00"	56.8	61.5	59	50
449	"16:40:00"	56.2	59.3	58	51
450	"16:41:00"	54.3	58.6	57	49
451	"16:42:00"	56.9	62.2	61	50
452	"16:43:00"	57.8	63.5	62	49

453	"16:44:00"	55.8	61.0	59	49
454	"16:45:00"	60.9	70.5	65	51
455	"16:46:00"	62.9	74.0	65	54
456	"16:47:00"	59.4	64.4	61	56
457	"16:48:00"	60.1	65.1	62	53
458	"16:49:00"	59.4	66.8	61	54
459	"16:50:00"	59.7	67.5	63	51
460	"16:51:00"	57.4	61.2	59	50
461	"16:52:00"	55.6	59.1	58	49
462	"16:53:00"	58.0	61.1	60	53
463	"16:54:00"	58.2	61.9	60	54
464	"16:55:00"	56.6	61.0	59	45
465	"16:56:00"	63.0	73.3	67	47
466	"16:57:00"	57.6	60.4	59	54
467	"16:58:00"	54.7	62.5	59	48
468	"16:59:00"	59.5	64.3	62	50
469	"17:00:00"	60.0	68.7	62	53
470	"17:01:00"	57.9	60.4	59	55
471	"17:02:00"	58.4	63.7	61	51
472	"17:03:00"	56.7	60.9	59	50
473	"17:04:00"	58.6	63.3	61	52
474	"17:05:00"	56.9	61.0	60	50
475	"17:06:00"	60.7	69.8	64	51
476	"17:07:00"	58.3	66.8	61	50
477	"17:08:00"	59.1	65.5	62	53
478	"17:09:00"	56.7	62.9	59	50
479	"17:10:00"	57.9	65.0	61	48
480	"17:11:00"	58.5	62.8	61	52
481	"17:12:00"	56.4	63.3	58	51
482	"17:13:00"	56.9	60.7	59	50
483	"17:14:00"	57.1	59.8	58	53
484	"17:15:00"	57.4	61.7	60	51
485	"17:16:00"	56.1	60.5	59	48
486	"17:17:00"	58.5	61.4	60	54
487	"17:18:00"	59.6	62.4	61	57
488	"17:19:00"	56.5	61.0	58	51
489	"17:20:00"	60.8	68.6	61	57
490	"17:21:00"	58.2	64.3	60	51
491	"17:22:00"	58.0	61.9	61	48
492	"17:23:00"	66.6	76.2	71	55
493	"17:24:00"	68.8	75.5	72	62
494	"17:25:00"	58.8	67.0	60	54
495	"17:26:00"	61.4	74.0	62	49
496	"17:27:00"	58.3	61.9	60	52
497	"17:28:00"	56.6	66.8	59	48
498	"17:29:00"	60.5	69.8	65	50
499	"17:30:00"	59.9	62.8	61	55
500	"17:31:00"	56.8	60.8	58	55
501	"17:32:00"	56.5	60.8	58	51
502	"17:33:00"	57.2	61.0	60	48
503	"17:34:00"	57.9	60.7	59	55
504	"17:35:00"	58.6	62.0	60	55
505	"17:36:00"	58.5	61.2	60	54
506	"17:37:00"	55.9	60.1	58	48
507	"17:38:00"	58.3	61.9	60	53
508	"17:39:00"	56.1	60.9	59	49
509	"17:40:00"	59.6	67.1	62	51
510	"17:41:00"	61.6	70.6	64	55

511	"17:42:00"	66.1	69.7	68	61
512	"17:43:00"	56.1	63.0	58	51
513	"17:44:00"	58.2	64.6	60	52
514	"17:45:00"	56.4	61.4	58	51
515	"17:46:00"	57.1	60.7	59	53
516	"17:47:00"	59.0	62.5	61	56
517	"17:48:00"	59.8	63.5	61	56
518	"17:49:00"	58.3	62.2	60	53
519	"17:50:00"	58.3	61.5	60	54
520	"17:51:00"	58.1	61.8	60	53
521	"17:52:00"	59.0	61.8	61	53
522	"17:53:00"	57.6	61.2	60	50
523	"17:54:00"	57.4	62.9	61	50
524	"17:55:00"	59.9	62.6	61	56
525	"17:56:00"	56.8	60.8	59	52
526	"17:57:00"	57.3	62.4	61	49
527	"17:58:00"	58.1	62.4	60	53
528	"17:59:00"	65.3	69.7	67	58
529	"18:00:00"	60.1	67.3	64	54
530	"18:01:00"	56.1	60.1	58	51
531	"18:02:00"	58.2	62.4	60	53
532	"18:03:00"	60.0	63.5	62	57
533	"18:04:00"	57.7	63.5	60	50
534	"18:05:00"	57.9	63.5	61	47
535	"18:06:00"	57.4	60.4	59	49
536	"18:07:00"	56.2	61.5	60	49
537	"18:08:00"	56.8	60.9	58	53
538	"18:09:00"	56.5	61.9	60	50
539	"18:10:00"	60.3	70.6	65	52
540	"18:11:00"	67.6	75.4	73	52
541	"18:12:00"	58.2	63.3	62	50
542	"18:13:00"	56.4	59.8	59	50
543	"18:14:00"	58.4	61.0	60	55
544	"18:15:00"	56.7	60.9	59	50
545	"18:16:00"	58.1	62.9	61	45
546	"18:17:00"	56.2	60.6	58	48
547	"18:18:00"	65.5	72.6	69	53
548	"18:19:00"	58.9	62.6	61	52
549	"18:20:00"	57.1	61.8	60	50
550	"18:21:00"	58.7	62.8	61	54
551	"18:22:00"	60.7	65.3	63	54
552	"18:23:00"	57.3	61.4	60	51
553	"18:24:00"	57.5	62.3	60	51
554	"18:25:00"	55.5	59.7	58	48
555	"18:26:00"	55.5	61.2	59	47
556	"18:27:00"	59.3	64.2	61	55
557	"18:28:00"	55.2	60.8	59	44
558	"18:29:00"	55.5	62.9	59	45
559	"18:30:00"	54.9	59.5	58	49
560	"18:31:00"	57.7	61.5	60	52
561	"18:32:00"	57.9	63.6	60	50
562	"18:33:00"	57.2	61.2	59	53
563	"18:34:00"	56.7	61.0	59	51
564	"18:35:00"	55.3	60.3	58	47
565	"18:36:00"	56.5	60.4	59	50
566	"18:37:00"	58.5	62.9	61	54
567	"18:38:00"	56.6	60.7	59	51
568	"18:39:00"	55.4	59.3	58	49

569	"18:40:00"	56.3	61.7	59	50
570	"18:41:00"	56.7	61.5	59	52
571	"18:42:00"	55.9	59.9	58	47
572	"18:43:00"	56.0	59.9	58	47
573	"18:44:00"	53.5	58.9	57	46
574	"18:45:00"	56.2	62.6	59	50
575	"18:46:00"	54.5	59.9	57	48
576	"18:47:00"	53.9	61.3	57	45
577	"18:48:00"	56.1	61.4	59	50

--- AMPLITUDE DISTRIBUTION REPORT ---

"TOTAL SAMPLES = 276664

"dB"	"SAMPLES"	"% OF TOTAL"
43	8 .	0.00
44	268 .	0.10
45	830 +	0.30
46	2152 *	0.78
47	4488 **	1.62
48	8902 ***	3.22
49	13086 *****	4.73
50	19766 *****	7.14
51	19690 *****	7.12
52	20297 *****	7.34
53	20305 *****	7.34
54	20867 *****	7.54
55	22105 *****	7.99
56	21085 *****	7.62
57	23829 *****	8.61
58	26217 *****	9.48
59	19664 *****	7.11
60	14325 *****	5.18
61	7887 ***	2.85
62	3578 *	1.29
63	1803 *	0.65
64	1359 +	0.49
65	1004 +	0.36
66	734 +	0.27
67	647 +	0.23
68	552 +	0.20
69	370 +	0.13
70	270 .	0.10
71	172 .	0.06
72	121 .	0.04
73	79 .	0.03
74	105 .	0.04
75	51 .	0.02
76	25 .	0.01
77	16 .	0.01
78	7 .	0.00

"Ln( 0.0) = 78dB

"Ln(10.0) = 60dB

"Ln(50.0) = 55dB

"Ln(99.9) = 45dB

"	NO	80.0dB	90.0dB
"	CUTOFF	CUTOFF	CUTOFF

"Leq	57.2dB	43.8dB	43.8dB
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"Ldod	56.5dB	43.8dB	43.8dB
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"Losha	56.1dB	43.8dB	43.8dB
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"Leq(6)	55.9dB	43.8dB	43.8dB
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"File Name.....BIN5  
 "Test Location.....Rock Creek, Site K1,K3  
 "Employee Name.....CP  
 "Employee Number...  
 "Department.....  
 "Comment Field 1...Excercise Stations  
 "Comment Field 2...12/5/96  
 "Numeric Code #1... #2... #3... #4... #5...

"METROSONICS db-308 SN 1948 V2.3  
 "REPORT PRINTED 12/16/96 AT 16:29:16

"EXCHANGE RATE..... 3dB FILTER.....A WGH  
 "DOSE CRITERION.... 90dB RESPONSE...SLOW  
 "PRE-TEST CALIBRATION TIME...12/05/96 AT 6:55:17  
 "PRE-TEST CALIBRATION RANGE... 43.9dB TO 139.9dB  
 "Calibrator Type & Serial #....

"Calibrator Calibration Date..

"-- OVERALL STATISTICS REPORT --

"TEST BEGAN...12/05/96 AT 7:00:00  
 "TEST LENGTH... 0 DAYS 8:24:27

"Lav..... 68.8dB  
 "SEL.....113.4dB  
 "Lmax..... 84.4dB ON 12/05/96 AT 7:22:15  
 "Lpk.....UNDER  
 "TIME OVER 115dB.. 0 DAYS 0:00:00.00

"8 HR DOSE (80dB CUTOFF)..... 0.11%  
 "8 HR DOSE (90dB CUTOFF)..... 0.00%

"-- TABULAR TIME HISTORY REPORT --

"# OF PERIODS: 505 MODE: CONTINUOUS  
 "PERIOD LENGTH: 0:01:00  
 "TIME HISTORY CUTOFF: NONE  
 "Ln(1): 10.0% Ln(2): 90.0%

"DATE: 12/05/96

"INT"	"TIME"	"Lav"	"Lmx"	"L1"	"L2"
1	" 7:00:00"	78.1	82.6	80	75
2	" 7:01:00"	78.3	83.1	80	73
3	" 7:02:00"	77.6	82.3	80	71
4	" 7:03:00"	77.3	81.2	79	72
5	" 7:04:00"	77.1	80.5	78	74
6	" 7:05:00"	76.1	80.7	79	69
7	" 7:06:00"	77.8	82.7	80	68
8	" 7:07:00"	78.7	82.2	81	74
9	" 7:08:00"	76.0	80.4	78	69
10	" 7:09:00"	77.5	80.5	79	73
11	" 7:10:00"	78.6	83.1	80	73
12	" 7:11:00"	78.2	83.1	81	72
13	" 7:12:00"	77.1	80.7	79	73
14	" 7:13:00"	78.0	81.0	79	75
15	" 7:14:00"	77.6	82.1	80	71
16	" 7:15:00"	77.6	82.0	79	74
17	" 7:16:00"	78.6	82.5	81	73
18	" 7:17:00"	78.7	81.8	80	72
19	" 7:18:00"	78.0	83.5	80	74
20	" 7:19:00"	79.0	81.8	80	77
21	" 7:20:00"	77.3	81.1	80	73
22	" 7:21:00"	78.2	81.1	80	73
23	" 7:22:00"	78.7	84.4	80	74
24	" 7:23:00"	78.1	82.8	81	68
25	" 7:24:00"	78.4	82.3	81	74
26	" 7:25:00"	79.6	83.0	81	75
27	" 7:26:00"	78.9	82.1	81	74
28	" 7:27:00"	77.3	81.2	80	72

"DATE: 12/05/96

"INT"	"TIME"	"Lav"	"Lmx"	"L1"	"L2"
29	" 7:29:10"	66.5	69.2	68	64
30	" 7:30:10"	65.9	68.0	66	64
31	" 7:31:10"	67.5	69.9	69	65
32	" 7:32:10"	66.7	68.2	67	65
33	" 7:33:10"	67.1	68.5	68	65
34	" 7:34:10"	66.7	69.0	68	65
35	" 7:35:10"	66.5	68.2	67	65
36	" 7:36:10"	67.0	68.2	68	65
37	" 7:37:10"	67.2	68.5	68	66
38	" 7:38:10"	66.8	71.2	68	64
39	" 7:39:10"	66.7	68.4	67	65
40	" 7:40:10"	68.4	72.0	70	65
41	" 7:41:10"	67.6	70.3	69	66
42	" 7:42:10"	67.2	69.4	67	66

43	" 7:43:10"	67.6	69.2	68	66
44	" 7:44:10"	67.0	69.3	68	64
45	" 7:45:10"	67.6	70.0	68	66
46	" 7:46:10"	66.4	67.6	67	64
47	" 7:47:10"	67.2	69.8	68	66
48	" 7:48:10"	67.3	68.2	67	66
49	" 7:49:10"	67.8	68.7	68	66
50	" 7:50:10"	68.2	72.9	69	65
51	" 7:51:10"	67.7	69.3	68	67
52	" 7:52:10"	67.5	68.8	68	66
53	" 7:53:10"	67.6	69.3	68	66
54	" 7:54:10"	67.1	67.7	67	66
55	" 7:55:10"	67.0	68.7	67	65
56	" 7:56:10"	66.7	68.6	67	65
57	" 7:57:10"	67.2	68.5	68	66
58	" 7:58:10"	66.7	68.1	67	66
59	" 7:59:10"	66.0	68.3	67	64
60	" 8:00:10"	67.0	69.3	68	65
61	" 8:01:10"	67.5	68.8	68	66
62	" 8:02:10"	67.7	69.7	68	66
63	" 8:03:10"	67.1	69.0	68	65
64	" 8:04:10"	67.1	68.1	67	66
65	" 8:05:10"	67.6	70.5	68	66
66	" 8:06:10"	67.4	68.5	68	66
67	" 8:07:10"	67.0	67.9	67	66
68	" 8:08:10"	65.3	67.3	66	64
69	" 8:09:10"	66.6	67.7	67	65
70	" 8:10:10"	67.3	68.5	68	65
71	" 8:11:10"	67.3	68.4	67	66
72	" 8:12:10"	66.9	67.7	67	66
73	" 8:13:10"	67.6	69.5	68	66
74	" 8:14:10"	67.1	70.0	67	66
75	" 8:15:10"	68.2	69.7	69	67
76	" 8:16:10"	67.3	68.5	68	66
77	" 8:17:10"	69.4	73.9	72	66
78	" 8:18:10"	66.3	67.7	67	64
79	" 8:19:10"	68.6	79.7	68	66
80	" 8:20:10"	66.3	70.8	67	64
81	" 8:21:10"	64.5	66.0	65	62
82	" 8:22:10"	65.6	68.2	67	63
83	" 8:23:10"	65.1	66.9	66	63
84	" 8:24:10"	64.9	66.0	65	64
85	" 8:25:10"	65.9	67.7	66	64
86	" 8:26:10"	66.0	67.5	66	65
87	" 8:27:10"	66.5	68.4	67	64
88	" 8:28:10"	64.5	66.2	65	62
89	" 8:29:10"	64.3	67.2	66	62
90	" 8:30:10"	63.9	65.9	65	62
91	" 8:31:10"	65.3	66.5	66	63
92	" 8:32:10"	64.8	66.9	66	63
93	" 8:33:10"	65.3	66.7	66	64
94	" 8:34:10"	65.6	67.9	67	64
95	" 8:35:10"	65.6	72.1	67	62
96	" 8:36:10"	63.1	64.1	63	62
97	" 8:37:10"	63.6	65.4	65	62
98	" 8:38:10"	63.0	67.1	65	60
99	" 8:39:10"	64.1	65.7	65	63
100	" 8:40:10"	65.7	66.6	66	64

101	" 8:41:10"	66.1	71.6	67	64
102	" 8:42:10"	68.0	71.0	69	66
103	" 8:43:10"	67.0	69.5	68	66
104	" 8:44:10"	67.1	68.4	67	66
105	" 8:45:10"	67.4	69.3	68	66
106	" 8:46:10"	67.2	68.1	67	66
107	" 8:47:10"	67.9	74.6	69	66
108	" 8:48:10"	67.6	70.4	68	66
109	" 8:49:10"	68.7	73.8	69	67
110	" 8:50:10"	68.2	69.4	68	67
111	" 8:51:10"	68.7	73.9	70	66
112	" 8:52:10"	68.0	71.6	69	66
113	" 8:53:10"	67.3	69.4	68	65
114	" 8:54:10"	67.9	69.2	68	67
115	" 8:55:10"	68.3	69.9	69	67
116	" 8:56:10"	67.6	69.3	68	66
117	" 8:57:10"	67.8	69.7	68	66
118	" 8:58:10"	67.9	69.4	68	66
119	" 8:59:10"	68.3	71.6	69	66
120	" 9:00:10"	67.4	68.8	68	64
121	" 9:01:10"	67.7	70.3	69	65
122	" 9:02:10"	67.3	69.8	68	66
123	" 9:03:10"	67.7	70.4	68	66
124	" 9:04:10"	67.6	69.3	68	66
125	" 9:05:10"	67.1	68.9	68	65
126	" 9:06:10"	67.0	69.3	68	65
127	" 9:07:10"	66.6	68.0	67	64
128	" 9:08:10"	66.3	68.1	67	64
129	" 9:09:10"	65.4	67.3	66	64
130	" 9:10:10"	66.9	70.8	68	65
131	" 9:11:10"	67.2	69.8	68	64
132	" 9:12:10"	67.5	71.3	68	66
133	" 9:13:10"	65.8	68.0	67	64
134	" 9:14:10"	65.4	67.2	66	64
135	" 9:15:10"	65.7	67.4	66	63
136	" 9:16:10"	66.0	67.9	67	64
137	" 9:17:10"	66.0	68.6	66	64
138	" 9:18:10"	66.5	69.2	68	64
139	" 9:19:10"	67.3	69.2	68	66
140	" 9:20:10"	67.2	69.4	68	66
141	" 9:21:10"	65.8	67.1	66	64
142	" 9:22:10"	66.0	68.0	67	64
143	" 9:23:10"	65.8	67.4	66	64
144	" 9:24:10"	66.1	67.7	66	65
145	" 9:25:10"	65.7	67.4	66	64
146	" 9:26:10"	66.4	68.0	67	65
147	" 9:27:10"	67.3	70.8	68	65
148	" 9:28:10"	66.8	69.3	68	65
149	" 9:29:10"	66.9	69.9	68	65
150	" 9:30:10"	65.2	67.5	66	64
151	" 9:31:10"	67.5	71.5	69	64
152	" 9:32:10"	66.7	68.8	67	65
153	" 9:33:10"	68.2	70.2	69	65
154	" 9:34:10"	67.4	68.8	68	66
155	" 9:35:10"	66.7	69.3	68	63
156	" 9:36:10"	68.2	70.2	69	66
157	" 9:37:10"	66.9	69.5	68	65
158	" 9:38:10"	67.8	70.6	69	65

159	" 9:39:10"	67.3	70.7	69	65
160	" 9:40:10"	66.5	69.4	67	65
161	" 9:41:10"	66.5	73.7	68	61
162	" 9:42:10"	66.8	71.3	68	64
163	" 9:43:10"	67.8	70.2	69	65
164	" 9:44:10"	66.6	69.9	68	64
165	" 9:45:10"	66.7	68.8	68	64
166	" 9:46:10"	66.7	69.8	68	64
167	" 9:47:10"	66.5	69.0	67	65
168	" 9:48:10"	67.2	70.3	69	64
169	" 9:49:10"	66.2	68.6	67	63
170	" 9:50:10"	67.6	69.9	69	62
171	" 9:51:10"	65.8	68.8	67	62
172	" 9:52:10"	66.3	72.0	68	62
173	" 9:53:10"	67.1	69.8	68	65
174	" 9:54:10"	67.5	70.7	69	65
175	" 9:55:10"	66.4	69.4	68	63
176	" 9:56:10"	66.2	68.5	67	64
177	" 9:57:10"	67.6	73.1	69	64
178	" 9:58:10"	66.2	69.3	67	63
179	" 9:59:10"	64.6	67.9	66	62
180	"10:00:10"	66.1	68.2	67	64
181	"10:01:10"	66.9	70.0	68	65
182	"10:02:10"	64.5	67.3	66	61
183	"10:03:10"	65.9	67.9	67	64
184	"10:04:10"	67.5	69.8	69	65
185	"10:05:10"	66.3	69.3	67	63
186	"10:06:10"	66.3	69.2	68	64
187	"10:07:10"	66.1	71.9	68	62
188	"10:08:10"	65.9	69.3	68	60
189	"10:09:10"	66.0	69.5	67	63
190	"10:10:10"	67.3	70.0	69	65
191	"10:11:10"	66.3	67.9	67	65
192	"10:12:10"	66.8	69.4	68	64
193	"10:13:10"	66.8	70.0	68	64
194	"10:14:10"	66.2	69.3	68	64
195	"10:15:10"	65.7	68.1	67	63
196	"10:16:10"	64.6	67.6	66	63
197	"10:17:10"	65.9	69.5	68	61
198	"10:18:10"	65.8	69.5	68	61
199	"10:19:10"	65.6	67.6	67	63
200	"10:20:10"	66.2	67.9	67	65
201	"10:21:10"	67.1	69.3	68	66
202	"10:22:10"	65.1	68.8	66	61
203	"10:23:10"	66.3	68.3	68	64
204	"10:24:10"	65.4	68.2	67	62
205	"10:25:10"	65.2	71.2	67	61
206	"10:26:10"	67.6	72.0	68	65
207	"10:27:10"	65.5	67.7	67	63
208	"10:28:10"	65.5	67.6	66	64
209	"10:29:10"	66.8	69.7	68	65
210	"10:30:10"	65.6	67.5	66	63
211	"10:31:10"	66.2	68.1	67	64
212	"10:32:10"	65.5	68.4	67	63
213	"10:33:10"	64.4	67.4	66	61
214	"10:34:10"	66.2	68.7	68	62
215	"10:35:10"	66.5	69.8	68	64
216	"10:36:10"	65.6	69.3	68	58

217	"10:37:10"	66.7	72.5	68	63
218	"10:38:10"	65.8	68.0	67	63
219	"10:39:10"	65.9	69.4	68	63
220	"10:40:10"	66.5	68.7	68	64
221	"10:41:10"	65.5	67.5	67	63
222	"10:42:10"	66.7	70.2	68	63
223	"10:43:10"	66.5	67.9	67	65
224	"10:44:10"	63.7	66.9	66	60
225	"10:45:10"	64.4	66.1	65	62
226	"10:46:10"	66.6	69.3	68	64
227	"10:47:10"	65.2	67.5	67	62
228	"10:48:10"	65.8	69.3	68	63
229	"10:49:10"	66.8	71.8	68	64
230	"10:50:10"	65.6	69.9	67	59
231	"10:51:10"	66.8	72.3	69	62
232	"10:52:10"	66.1	69.3	67	64
233	"10:53:10"	66.7	68.1	67	65
234	"10:54:10"	64.8	67.0	66	62
235	"10:55:10"	65.6	68.5	67	62
236	"10:56:10"	65.4	68.3	67	61
237	"10:57:10"	65.6	68.0	66	64
238	"10:58:10"	63.9	66.6	65	61
239	"10:59:10"	63.9	67.2	65	61
240	"11:00:10"	66.2	72.0	68	64
241	"11:01:10"	64.0	68.1	67	57
242	"11:02:10"	65.5	67.6	66	63
243	"11:03:10"	65.6	67.6	67	62
244	"11:04:10"	66.4	69.2	68	64
245	"11:05:10"	66.3	68.8	68	64
246	"11:06:10"	65.0	68.0	67	61
247	"11:07:10"	65.3	67.5	67	62
248	"11:08:10"	65.7	67.5	67	64
249	"11:09:10"	64.3	67.5	66	61
250	"11:10:10"	66.2	70.3	67	64
251	"11:11:10"	65.2	67.5	66	63
252	"11:12:10"	65.2	67.8	66	63
253	"11:13:10"	65.2	67.9	66	62
254	"11:14:10"	66.1	68.3	67	64
255	"11:15:10"	65.4	67.6	67	62
256	"11:16:10"	65.5	67.5	66	63
257	"11:17:10"	65.7	67.7	67	63
258	"11:18:10"	64.7	67.3	66	61
259	"11:19:10"	64.8	66.7	66	63
260	"11:20:10"	64.8	67.4	66	62
261	"11:21:10"	65.2	67.4	66	63
262	"11:22:10"	64.5	65.7	65	63
263	"11:23:10"	66.1	69.7	68	60
264	"11:24:10"	64.7	67.0	66	62
265	"11:25:10"	66.1	68.1	67	62
266	"11:26:10"	64.3	67.4	66	61
267	"11:27:10"	64.8	68.6	66	62
268	"11:28:10"	67.2	70.0	69	64
269	"11:29:10"	66.0	68.9	67	64
270	"11:30:10"	64.9	67.0	66	63
271	"11:31:10"	65.2	68.1	67	62
272	"11:32:10"	66.1	68.1	67	62
273	"11:33:10"	67.2	69.5	68	65
274	"11:34:10"	63.4	66.9	65	60

275	"11:35:10"	65.4	68.6	67	62
276	"11:36:10"	65.5	70.0	67	63
277	"11:37:10"	64.5	67.2	66	62
278	"11:38:10"	65.3	69.0	66	64
279	"11:39:10"	66.3	69.8	69	61
280	"11:40:10"	64.3	69.9	66	61
281	"11:41:10"	66.5	69.9	68	64
282	"11:42:10"	67.1	74.5	69	62
283	"11:43:10"	65.0	68.4	67	62
284	"11:44:10"	63.8	65.7	65	62
285	"11:45:10"	65.7	68.6	68	62
286	"11:46:10"	66.4	68.1	67	64
287	"11:47:10"	65.2	66.9	66	64
288	"11:48:10"	65.0	67.0	66	63
289	"11:49:10"	65.8	69.2	68	61
290	"11:50:10"	67.1	70.0	68	66
291	"11:51:10"	65.7	68.2	67	62
292	"11:52:10"	65.0	70.7	66	62
293	"11:53:10"	65.9	67.9	67	63
294	"11:54:10"	64.7	67.8	67	61
295	"11:55:10"	64.7	67.9	66	61
296	"11:56:10"	67.0	69.8	69	64
297	"11:57:10"	65.3	68.1	66	62
298	"11:58:10"	65.8	68.1	67	63
299	"11:59:10"	65.9	69.3	67	63
300	"12:00:10"	66.8	68.8	68	64
301	"12:01:10"	65.4	69.4	67	61
302	"12:02:10"	66.0	68.4	67	63
303	"12:03:10"	65.6	67.5	66	64
304	"12:04:10"	64.5	66.9	65	62
305	"12:05:10"	66.2	69.2	68	64
306	"12:06:10"	65.3	67.5	66	63
307	"12:07:10"	66.0	67.5	66	65
308	"12:08:10"	64.5	66.5	66	62
309	"12:09:10"	66.1	68.3	67	64
310	"12:10:10"	64.3	68.3	66	60
311	"12:11:10"	64.1	67.7	67	59
312	"12:12:10"	66.6	68.3	67	64
313	"12:13:10"	65.6	69.8	67	62
314	"12:14:10"	63.7	65.7	65	62
315	"12:15:10"	64.7	66.9	66	61
316	"12:16:10"	66.2	68.5	67	64
317	"12:17:10"	63.9	66.7	65	61
318	"12:18:10"	67.2	69.4	68	65
319	"12:19:10"	66.2	69.3	67	63
320	"12:20:10"	64.1	68.2	66	60
321	"12:21:10"	65.3	67.8	66	63
322	"12:22:10"	65.0	67.6	66	62
323	"12:23:10"	65.6	68.3	67	62
324	"12:24:10"	65.6	67.7	67	63
325	"12:25:10"	65.8	68.8	67	63
326	"12:26:10"	65.9	70.6	67	62
327	"12:27:10"	66.8	72.4	69	63
328	"12:28:10"	66.1	68.5	67	63
329	"12:29:10"	66.4	68.1	67	64
330	"12:30:10"	65.6	67.5	67	63
331	"12:31:10"	66.2	68.1	67	64
332	"12:32:10"	64.9	66.4	66	63

333	"12:33:10"	67.1	73.2	69	64
334	"12:34:10"	65.9	68.3	67	64
335	"12:35:10"	65.8	69.4	67	63
336	"12:36:10"	66.3	68.1	67	64
337	"12:37:10"	65.4	67.5	66	62
338	"12:38:10"	66.7	68.7	68	63
339	"12:39:10"	65.4	68.2	67	62
340	"12:40:10"	66.0	70.4	67	64
341	"12:41:10"	64.9	67.1	66	63
342	"12:42:10"	66.4	68.8	68	64
343	"12:43:10"	66.0	67.7	67	63
344	"12:44:10"	66.4	68.2	67	64
345	"12:45:10"	66.3	68.9	67	64
346	"12:46:10"	65.6	68.7	67	63
347	"12:47:10"	66.8	69.3	68	65
348	"12:48:10"	64.8	67.2	66	61
349	"12:49:10"	65.2	68.1	67	62
350	"12:50:10"	65.7	67.5	66	63
351	"12:51:10"	66.4	70.4	68	62
352	"12:52:10"	66.9	70.3	68	64
353	"12:53:10"	65.0	68.2	67	61
354	"12:54:10"	66.5	70.4	68	64
355	"12:55:10"	65.0	67.5	67	61
356	"12:56:10"	66.0	68.3	67	62
357	"12:57:10"	65.5	67.9	66	64
358	"12:58:10"	64.9	67.1	66	63
359	"12:59:10"	65.1	69.3	67	63
360	"13:00:10"	63.6	66.7	65	59
361	"13:01:10"	65.6	68.4	67	61
362	"13:02:10"	64.4	68.1	67	58
363	"13:03:10"	63.6	66.5	65	58
364	"13:04:10"	64.7	69.8	67	59
365	"13:05:10"	64.5	68.3	67	61
366	"13:06:10"	65.2	67.5	66	63
367	"13:07:10"	64.6	66.8	66	62
368	"13:08:10"	65.3	67.8	66	61
369	"13:09:10"	65.1	67.4	66	60
370	"13:10:10"	64.9	66.5	66	63
371	"13:11:10"	66.2	68.2	67	64
372	"13:12:10"	65.8	69.7	68	61
373	"13:13:10"	62.9	66.5	65	58
374	"13:14:10"	64.6	68.9	67	60
375	"13:15:10"	65.1	66.8	66	63
376	"13:16:10"	65.2	69.5	68	62
377	"13:17:10"	64.8	67.2	66	63
378	"13:18:10"	66.9	69.9	68	64
379	"13:19:10"	65.5	67.7	67	63
380	"13:20:10"	66.0	69.3	67	62
381	"13:21:10"	64.5	68.9	66	61
382	"13:22:10"	65.3	67.9	66	63
383	"13:23:10"	63.7	67.4	66	59
384	"13:24:10"	65.1	69.9	67	61
385	"13:25:10"	65.3	68.1	66	62
386	"13:26:10"	63.7	65.7	65	61
387	"13:27:10"	65.5	70.0	67	62
388	"13:28:10"	67.5	72.3	70	64
389	"13:29:10"	65.1	67.7	67	60
390	"13:30:10"	64.1	67.5	66	59

391	"13:31:10"	66.7	69.8	68	63
392	"13:32:10"	65.8	68.3	66	64
393	"13:33:10"	65.8	67.8	67	64
394	"13:34:10"	65.4	66.9	66	62
395	"13:35:10"	66.5	69.8	68	63
396	"13:36:10"	65.7	67.6	66	64
397	"13:37:10"	66.8	68.9	68	65
398	"13:38:10"	65.5	67.7	66	63
399	"13:39:10"	64.4	66.8	66	63
400	"13:40:10"	66.3	67.9	67	65
401	"13:41:10"	63.5	66.0	64	61
402	"13:42:10"	63.4	66.1	65	60
403	"13:43:10"	66.5	68.6	68	64
404	"13:44:10"	65.5	69.3	67	63
405	"13:45:10"	65.5	67.4	66	64
406	"13:46:10"	64.5	66.7	65	62
407	"13:47:10"	66.5	69.7	69	60
408	"13:48:10"	67.3	75.3	68	65
409	"13:49:10"	66.2	74.7	67	62
410	"13:50:10"	65.7	69.2	68	62
411	"13:51:10"	66.7	73.2	68	62
412	"13:52:10"	66.6	70.0	69	64
413	"13:53:10"	65.6	68.1	67	63
414	"13:54:10"	65.8	67.9	67	64
415	"13:55:10"	65.7	67.5	66	64
416	"13:56:10"	65.3	67.7	66	62
417	"13:57:10"	65.1	68.5	67	61
418	"13:58:10"	65.8	69.2	68	63
419	"13:59:10"	64.5	67.4	66	62
420	"14:00:10"	67.1	69.8	68	64
421	"14:01:10"	66.1	68.2	67	64
422	"14:02:10"	65.4	68.6	67	63
423	"14:03:10"	64.2	67.3	66	61
424	"14:04:10"	67.0	69.7	68	64
425	"14:05:10"	66.4	69.8	69	62
426	"14:06:10"	65.4	68.8	67	61
427	"14:07:10"	66.6	69.9	67	63
428	"14:08:10"	65.7	70.6	67	58
429	"14:09:10"	65.9	68.0	67	63
430	"14:10:10"	65.8	73.8	68	62
431	"14:11:10"	67.0	69.5	68	64
432	"14:12:10"	65.7	68.8	67	61
433	"14:13:10"	66.9	69.5	68	63
434	"14:14:10"	65.4	67.6	66	62
435	"14:15:10"	66.2	68.7	68	64
436	"14:16:10"	65.9	67.8	67	64
437	"14:17:10"	66.3	67.8	67	65
438	"14:18:10"	65.7	68.2	66	62
439	"14:19:10"	66.2	68.3	67	64
440	"14:20:10"	66.9	69.5	68	64
441	"14:21:10"	67.0	70.5	69	63
442	"14:22:10"	64.5	68.1	66	56
443	"14:23:10"	66.8	69.4	68	65
444	"14:24:10"	66.4	68.8	68	64
445	"14:25:10"	67.4	70.2	69	65
446	"14:26:10"	66.7	69.4	68	64
447	"14:27:10"	65.9	68.8	67	63
448	"14:28:10"	67.3	69.4	68	65

449	"14:29:10"	65.2	72.1	66	61
450	"14:30:10"	67.7	69.4	69	66
451	"14:31:10"	65.7	68.3	67	63
452	"14:32:10"	66.3	68.9	68	61
453	"14:33:10"	66.2	69.3	68	64
454	"14:34:10"	67.3	68.6	68	65
455	"14:35:10"	67.1	69.8	68	66
456	"14:36:10"	66.8	68.7	67	66
457	"14:37:10"	65.6	67.9	67	63
458	"14:38:10"	67.2	69.5	68	65
459	"14:39:10"	66.5	68.5	67	63
460	"14:40:10"	66.8	69.8	68	63
461	"14:41:10"	66.2	68.0	67	64
462	"14:42:10"	66.3	68.4	67	64
463	"14:43:10"	67.0	68.8	68	64
464	"14:44:10"	66.9	69.7	68	64
465	"14:45:10"	66.6	69.3	68	65
466	"14:46:10"	66.5	68.9	68	63
467	"14:47:10"	67.6	70.4	69	64
468	"14:48:10"	66.3	68.2	67	63
469	"14:49:10"	67.1	69.5	68	64
470	"14:50:10"	65.8	68.5	67	63
471	"14:51:10"	66.6	68.9	68	63
472	"14:52:10"	66.9	69.3	68	65
473	"14:53:10"	66.8	70.2	68	64
474	"14:54:10"	67.2	69.3	68	64
475	"14:55:10"	66.6	69.3	67	65
476	"14:56:10"	66.8	69.5	68	65
477	"14:57:10"	67.5	70.8	68	65
478	"14:58:10"	65.9	68.2	67	63
479	"14:59:10"	67.0	70.6	69	64
480	"15:00:10"	66.8	69.0	68	65
481	"15:01:10"	67.6	69.4	69	65
482	"15:02:10"	66.6	68.8	68	64
483	"15:03:10"	66.3	68.1	67	64
484	"15:04:10"	67.4	70.8	69	63
485	"15:05:10"	66.6	68.3	67	64
486	"15:06:10"	66.7	69.7	68	64
487	"15:07:10"	67.2	69.8	69	65
488	"15:08:10"	67.6	70.7	69	64
489	"15:09:10"	66.8	69.5	68	63
490	"15:10:10"	67.3	69.4	69	64
491	"15:11:10"	67.2	69.8	68	64
492	"15:12:10"	67.5	69.9	69	65
493	"15:13:10"	66.9	69.7	67	66
494	"15:14:10"	68.9	76.9	69	66
495	"15:15:10"	67.9	70.0	69	65
496	"15:16:10"	66.7	68.8	68	65
497	"15:17:10"	67.4	70.0	68	65
498	"15:18:10"	66.6	68.6	68	64
499	"15:19:10"	66.5	68.5	67	64
500	"15:20:10"	67.5	68.8	68	66
501	"15:21:10"	66.3	68.4	67	65
502	"15:22:10"	67.5	69.9	68	66
503	"15:23:10"	67.1	69.4	68	66
504	"15:24:10"	67.8	69.9	68	65
505	"15:25:10"	67.3	68.8	68	66

--- AMPLITUDE DISTRIBUTION REPORT ---

"TOTAL SAMPLES = 242139

"dB"	"SAMPLES"	"% OF TOTAL"
55	35 .	0.01
56	59 .	0.02
57	315 +	0.13
58	352 +	0.15
59	724 +	0.30
60	1669 *	0.69
61	4034 **	1.67
62	9445 ****	3.90
63	16865 *****	6.97
64	30299 *****	12.51
65	42948 *****	17.74
66	52816 *****	21.81
67	43796 *****	18.09
68	18474 *****	7.63
69	5812 **	2.40
70	1134 +	0.47
71	525 +	0.22
72	561 +	0.23
73	638 +	0.26
74	812 +	0.34
75	1174 +	0.48
76	1528 *	0.63
77	2009 *	0.83
78	2179 *	0.90
79	1798 *	0.74
80	1248 *	0.52
81	697 +	0.29
82	171 .	0.07
83	18 .	0.01
84	4 .	0.00

"Ln( 0.0) = 84dB

"Ln(10.0) = 68dB

"Ln(50.0) = 66dB

"Ln(99.9) = 57dB

"	NO	80.0dB	90.0dB
"	CUTOFF	CUTOFF	CUTOFF

"Leq	68.3dB	60.0dB	43.9dB
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"Ldod	67.5dB	53.3dB	43.9dB
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"Losha	67.1dB	46.4dB	43.9dB
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"Leq(6)	66.9dB	43.9dB	43.9dB
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"File Name.....BIN6  
 "Test Location.....Rock Creek, Site F  
 "Employee Name.....CP  
 "Employee Number...  
 "Department.....  
 "Comment Field 1...Picnic Area #10, 25'  
 "Comment Field 2...12/5/96  
 "Numeric Code #1... #2... #3... #4... #5...

"METROSONICS db-308 SN 1947 V2.3  
 "REPORT PRINTED 12/16/96 AT 16:29:26

"EXCHANGE RATE..... 3dB FILTER.....A WGHT  
 "DOSE CRITERION.... 90dB RESPONSE...SLOW  
 "PRE-TEST CALIBRATION TIME....12/05/96 AT 8:09:17  
 "PRE-TEST CALIBRATION RANGE... 43.8dB TO 139.8dB  
 "Calibrator Type & Serial #...

"Calibrator Calibration Date..

# "-- OVERALL STATISTICS REPORT --

"TEST BEGAN....12/05/96 AT 8:13:01  
 "TEST LENGTH... 0 DAYS 0:30:22

"Lav..... 68.4dB  
 "SEL.....100.8dB  
 "Lmax..... 77.3dB ON 12/05/96 AT 8:29:52  
 "Lpk.....UNDER  
 "TIME OVER 115dB.. 0 DAYS 0:00:00.00

"8 HR DOSE (80dB CUTOFF)..... 0.00%  
 "8 HR PROJ. DOSE (80dB CUTOFF).. 0.00%  
 "8 HR DOSE (90dB CUTOFF)..... 0.00%  
 "8 HR PROJ. DOSE (90dB CUTOFF).. 0.00%

# "-- TABULAR TIME HISTORY REPORT --

"# OF PERIODS: 31 MODE: CONTINUOUS  
 "PERIOD LENGTH: 0:01:00  
 "TIME HISTORY CUTOFF: NONE  
 "Ln(1): 10.0% Ln(2): 90.0%

"DATE: 12/05/96

"INT"	"TIME"	"Lav"	"Lmx"	"L1"	"L2"
1	" 8:13:01"	67.7	75.3	71	50
2	" 8:14:01"	67.1	74.0	71	50
3	" 8:15:01"	64.0	73.2	69	50
4	" 8:16:01"	68.8	74.7	72	59
5	" 8:17:01"	68.9	73.4	72	57
6	" 8:18:01"	70.0	74.7	71	63
7	" 8:19:01"	68.0	74.2	72	55
8	" 8:20:01"	69.2	77.1	72	55
9	" 8:21:01"	68.5	73.5	71	58
10	" 8:22:01"	68.8	73.8	71	61
11	" 8:23:01"	68.6	75.8	72	58
12	" 8:24:01"	66.6	73.5	71	53
13	" 8:25:01"	68.1	73.0	71	57
14	" 8:26:01"	68.6	74.5	71	60
15	" 8:27:01"	67.1	73.7	71	51
16	" 8:28:01"	68.7	74.4	72	53
17	" 8:29:01"	69.4	77.3	73	53
18	" 8:30:01"	67.9	72.8	71	54
19	" 8:31:01"	70.3	75.8	73	60
20	" 8:32:01"	66.2	73.4	71	48
21	" 8:33:01"	69.8	74.1	72	62
22	" 8:34:01"	67.5	73.9	71	55
23	" 8:35:01"	67.7	73.3	71	54
24	" 8:36:01"	68.8	73.3	71	57
25	" 8:37:01"	69.2	73.9	72	59
26	" 8:38:01"	70.4	75.6	72	60
27	" 8:39:01"	66.6	73.7	72	49
28	" 8:40:01"	69.2	74.3	71	61
29	" 8:41:01"	66.2	73.8	70	50
30	" 8:42:01"	65.6	71.3	70	48
31	" 8:43:01"	69.1	72.8	70	67



-- AMPLITUDE DISTRIBUTION REPORT --

"TOTAL SAMPLES = 14578

"dB"	"SAMPLES"	"% OF TOTAL"
48	128 *	0.88
49	209 *	1.43
50	303 **	2.08
51	217 *	1.49
52	267 **	1.83
53	296 **	2.03
54	331 **	2.27
55	373 ***	2.56
56	307 **	2.11
57	321 **	2.20
58	466 ***	3.20
59	391 ***	2.68
60	381 ***	2.61
61	422 ***	2.89
62	437 ***	3.00
63	486 ***	3.33
64	490 ***	3.36
65	604 ****	4.14
66	649 ****	4.45
67	762 *****	5.23
68	1206 *****	8.27
69	1349 *****	9.25
70	1601 *****	10.98
71	1215 *****	8.33
72	728 *****	4.99
73	413 ***	2.83
74	124 *	0.85
75	61 +	0.42
76	33 +	0.23
77	8 .	0.05

"Ln( 0.0) = 77dB

"Ln(10.0) = 71dB

"Ln(50.0) = 67dB

"Ln(99.9) = 48dB

"	NO	80.0dB	90.0dB
"	CUTOFF	CUTOFF	CUTOFF

"Leq	67.9dB	43.8dB	43.8dB
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"Ldod	67.3dB	43.8dB	43.8dB
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"Losha	66.9dB	43.8dB	43.8dB
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"Leq(6)	66.6dB	43.8dB	43.8dB
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"File Name.....BIN7  
 "Test Location.....Rock Creek, Site I  
 "Employee Name.....CP  
 "Employee Number...  
 "Department.....  
 "Comment Field 1...Nat'l Zoo, I-1  
 "Comment Field 2...12/5/96  
 "Numeric Code #1... #2... #3... #4... #5...

"METROSONICS db-308 SN 1967 V2.3  
 "REPORT PRINTED 12/16/96 AT 16:29:36

"EXCHANGE RATE..... 3dB FILTER.....A WGHT  
 "DOSE CRITERION.... 90dB RESPONSE...SLOW  
 "PRE-TEST CALIBRATION TIME...12/05/96 AT 10:29:58  
 "PRE-TEST CALIBRATION RANGE... 43.0dB TO 139.0dB  
 "Calibrator Type & Serial #...

"Calibrator Calibration Date..

"-- OVERALL STATISTICS REPORT --

"TEST BEGAN...12/05/96 AT 10:34:00  
 "TEST LENGTH... 0 DAYS 6:43:07

"Lav..... 59.7dB  
 "SEL.....103.4dB  
 "Lmax..... 80.6dB ON 12/05/96 AT 13:43:33  
 "Lpk.....UNDER  
 "TIME OVER 115dB.. 0 DAYS 0:00:00.00

"8 HR DOSE (80dB CUTOFF)..... 0.00%  
 "8 HR PROJ. DOSE (80dB CUTOFF).. 0.00%  
 "8 HR DOSE (90dB CUTOFF)..... 0.00%  
 "8 HR PROJ. DOSE (90dB CUTOFF).. 0.00%

"-- TABULAR TIME HISTORY REPORT --

"# OF PERIODS: 404 MODE: CONTINUOUS  
 "PERIOD LENGTH: 0:01:00  
 "TIME HISTORY CUTOFF: NONE  
 "Ln(1): 10.0% Ln(2): 90.0%

"DATE: 12/05/96

"INT"	"TIME"	"Lav"	"Lmx"	"L1"	"L2"
1	"10:34:00"	58.5	59.8	59	57
2	"10:35:00"	59.5	66.4	61	56
3	"10:36:00"	57.7	60.2	58	55
4	"10:37:00"	58.2	61.1	60	56
5	"10:38:00"	57.8	60.6	58	56
6	"10:39:00"	59.0	61.7	60	57
7	"10:40:00"	57.4	59.6	59	55
8	"10:41:00"	57.3	61.0	60	54
9	"10:42:00"	56.0	58.3	57	54
10	"10:43:00"	57.4	60.9	59	54
11	"10:44:00"	59.2	62.5	61	56
12	"10:45:00"	55.6	58.6	57	51
13	"10:46:00"	56.7	59.2	58	53
14	"10:47:00"	58.3	60.6	60	56
15	"10:48:00"	58.1	65.1	60	52
16	"10:49:00"	55.8	58.0	57	54
17	"10:50:00"	58.5	61.1	60	54
18	"10:51:00"	55.6	58.1	57	51
19	"10:52:00"	57.4	59.9	59	54
20	"10:53:00"	57.3	59.9	59	56
21	"10:54:00"	56.9	62.7	58	53
22	"10:55:00"	58.2	59.3	59	57
23	"10:56:00"	56.9	59.3	58	54
24	"10:57:00"	57.0	59.8	59	54
25	"10:58:00"	57.5	59.6	59	55
26	"10:59:00"	57.5	60.7	58	55
27	"11:00:00"	58.6	61.1	60	55
28	"11:01:00"	58.5	61.1	60	55
29	"11:02:00"	56.5	59.0	57	54
30	"11:03:00"	56.9	58.7	57	55
31	"11:04:00"	55.9	59.4	57	53
32	"11:05:00"	57.7	60.4	59	54
33	"11:06:00"	57.6	63.2	59	55
34	"11:07:00"	56.8	60.5	58	55
35	"11:08:00"	57.7	59.9	59	54
36	"11:09:00"	57.5	59.5	58	56
37	"11:10:00"	59.5	64.0	61	55
38	"11:11:00"	60.1	63.6	62	56
39	"11:12:00"	57.9	60.7	59	56
40	"11:13:00"	59.6	63.2	60	56
41	"11:14:00"	59.8	61.9	61	57
42	"11:15:00"	59.4	61.9	60	57
43	"11:16:00"	59.0	63.9	59	57
44	"11:17:00"	56.5	60.3	58	55
45	"11:18:00"	57.4	59.0	58	56
46	"11:19:00"	56.9	60.5	59	53

47	"11:20:00"	57.4	59.0	58	56
48	"11:21:00"	56.6	59.5	59	53
49	"11:22:00"	58.6	60.9	60	57
50	"11:23:00"	56.5	59.1	58	54
51	"11:24:00"	58.6	65.2	60	55
52	"11:25:00"	58.0	62.5	58	56
53	"11:26:00"	57.1	63.2	58	54
54	"11:27:00"	58.0	62.0	59	55
55	"11:28:00"	61.8	72.5	62	58
56	"11:29:00"	61.4	71.5	64	58
57	"11:30:00"	57.7	60.7	58	56
58	"11:31:00"	63.6	70.7	69	57
59	"11:32:00"	59.0	61.4	60	57
60	"11:33:00"	58.0	60.5	59	56
61	"11:34:00"	60.1	65.2	64	56
62	"11:35:00"	57.7	63.2	60	55
63	"11:36:00"	57.0	59.6	58	56
64	"11:37:00"	56.3	58.9	58	51
65	"11:38:00"	58.4	63.1	61	54
66	"11:39:00"	57.8	63.2	60	53
67	"11:40:00"	59.6	67.1	63	54
68	"11:41:00"	58.9	64.6	60	56
69	"11:42:00"	62.0	72.7	64	55
70	"11:43:00"	57.3	61.9	59	54
71	"11:44:00"	56.8	58.8	58	55
72	"11:45:00"	54.9	59.1	57	51
73	"11:46:00"	57.7	66.0	59	53
74	"11:47:00"	57.6	63.4	59	54
75	"11:48:00"	58.0	61.4	59	56
76	"11:49:00"	57.7	62.0	59	53
77	"11:50:00"	57.3	59.3	58	55
78	"11:51:00"	57.9	60.8	59	56
79	"11:52:00"	58.3	60.7	60	55
80	"11:53:00"	56.2	60.7	58	53
81	"11:54:00"	57.5	64.6	58	54
82	"11:55:00"	57.6	60.4	59	54
83	"11:56:00"	56.5	59.2	58	54
84	"11:57:00"	57.0	59.7	58	55
85	"11:58:00"	57.6	60.1	59	52
86	"11:59:00"	57.8	59.3	58	56
87	"12:00:00"	56.2	58.6	58	52
88	"12:01:00"	55.4	57.9	57	54
89	"12:02:00"	56.5	59.1	58	53
90	"12:03:00"	58.3	61.9	61	54
91	"12:04:00"	57.8	61.4	59	55
92	"12:05:00"	57.2	59.4	58	55
93	"12:06:00"	56.9	59.3	58	54
94	"12:07:00"	56.1	58.1	57	54
95	"12:08:00"	57.3	60.0	58	54
96	"12:09:00"	56.4	61.9	57	54
97	"12:10:00"	58.2	60.8	59	56
98	"12:11:00"	56.6	58.8	58	54
99	"12:12:00"	54.2	57.0	56	51
100	"12:13:00"	57.8	61.9	59	53
101	"12:14:00"	57.7	60.1	59	55
102	"12:15:00"	55.8	58.6	57	53
103	"12:16:00"	55.8	58.5	57	53
104	"12:17:00"	57.5	59.6	59	56

105	"12:18:00"	56.2	62.6	58	52
106	"12:19:00"	57.6	59.8	59	55
107	"12:20:00"	58.2	60.2	59	55
108	"12:21:00"	57.0	59.1	58	53
109	"12:22:00"	56.5	62.6	59	51
110	"12:23:00"	55.9	58.9	57	51
111	"12:24:00"	58.0	60.6	59	56
112	"12:25:00"	57.3	58.9	58	55
113	"12:26:00"	57.1	58.7	58	56
114	"12:27:00"	57.5	59.2	58	55
115	"12:28:00"	56.5	59.8	58	54
116	"12:29:00"	58.6	62.3	60	56
117	"12:30:00"	58.6	61.8	61	54
118	"12:31:00"	57.5	61.2	59	55
119	"12:32:00"	56.9	58.7	58	55
120	"12:33:00"	58.3	60.6	60	56
121	"12:34:00"	56.5	59.0	57	54
122	"12:35:00"	56.6	58.6	57	55
123	"12:36:00"	57.3	60.8	59	53
124	"12:37:00"	57.4	60.0	59	53
125	"12:38:00"	57.6	61.4	59	54
126	"12:39:00"	57.5	58.9	58	56
127	"12:40:00"	59.4	65.7	62	53
128	"12:41:00"	57.7	59.9	58	56
129	"12:42:00"	63.9	70.7	68	57
130	"12:43:00"	56.7	59.1	57	54
131	"12:44:00"	57.1	59.8	58	54
132	"12:45:00"	58.0	60.0	59	56
133	"12:46:00"	57.7	59.6	59	55
134	"12:47:00"	58.9	61.1	60	57
135	"12:48:00"	59.5	63.5	61	56
136	"12:49:00"	59.3	62.5	61	56
137	"12:50:00"	57.5	61.5	58	55
138	"12:51:00"	57.4	59.3	58	55
139	"12:52:00"	57.4	61.9	59	54
140	"12:53:00"	57.5	59.4	59	54
141	"12:54:00"	57.9	61.3	60	55
142	"12:55:00"	57.8	59.9	59	55
143	"12:56:00"	58.7	65.8	62	53
144	"12:57:00"	59.3	65.4	61	57
145	"12:58:00"	57.9	61.6	60	55
146	"12:59:00"	57.2	60.8	59	55
147	"13:00:00"	56.1	59.1	58	53
148	"13:01:00"	56.8	59.5	58	54
149	"13:02:00"	57.0	58.9	58	55
150	"13:03:00"	55.8	57.8	57	53
151	"13:04:00"	55.6	57.6	57	54
152	"13:05:00"	58.4	61.7	60	55
153	"13:06:00"	56.3	61.2	58	53
154	"13:07:00"	56.5	59.3	58	54
155	"13:08:00"	59.1	66.5	62	54
156	"13:09:00"	57.1	58.9	58	55
157	"13:10:00"	56.4	59.3	57	54
158	"13:11:00"	56.8	58.6	58	54
159	"13:12:00"	56.5	59.3	58	54
160	"13:13:00"	57.4	60.2	58	55
161	"13:14:00"	57.4	59.3	58	56
162	"13:15:00"	57.2	59.8	59	53

163	"13:16:00"	57.0	61.5	59	53
164	"13:17:00"	56.9	59.0	58	54
165	"13:18:00"	57.9	60.0	58	56
166	"13:19:00"	57.9	60.4	58	56
167	"13:20:00"	58.2	63.3	60	56
168	"13:21:00"	57.6	60.4	59	54
169	"13:22:00"	57.7	59.1	58	57
170	"13:23:00"	60.6	67.6	64	56
171	"13:24:00"	56.3	60.0	59	52
172	"13:25:00"	56.0	59.1	58	53
173	"13:26:00"	58.5	60.4	59	57
174	"13:27:00"	57.3	59.5	59	55
175	"13:28:00"	56.8	62.3	58	54
176	"13:29:00"	55.9	59.2	58	51
177	"13:30:00"	55.7	58.6	57	53
178	"13:31:00"	56.8	58.6	58	54
179	"13:32:00"	58.2	60.7	60	55
180	"13:33:00"	56.6	60.5	58	54
181	"13:34:00"	56.7	60.1	58	53
182	"13:35:00"	56.6	58.9	57	55
183	"13:36:00"	57.9	62.9	60	54
184	"13:37:00"	56.5	58.9	58	55
185	"13:38:00"	57.0	62.5	59	54
186	"13:39:00"	56.5	59.4	58	54
187	"13:40:00"	56.1	58.8	57	54
188	"13:41:00"	57.1	60.7	59	54
189	"13:42:00"	57.6	61.3	59	54
190	"13:43:00"	71.8	80.6	77	57
191	"13:44:00"	59.3	62.5	62	55
192	"13:45:00"	63.1	69.6	67	55
193	"13:46:00"	58.3	60.6	59	55
194	"13:47:00"	57.8	60.1	59	55
195	"13:48:00"	60.3	64.4	62	57
196	"13:49:00"	63.9	67.8	67	60
197	"13:50:00"	63.1	67.8	66	55
198	"13:51:00"	64.0	66.6	66	61
199	"13:52:00"	64.6	68.9	67	58
200	"13:53:00"	63.6	66.9	65	62
201	"13:54:00"	63.0	65.0	64	61
202	"13:55:00"	64.3	66.2	65	63
203	"13:56:00"	64.9	66.7	66	63
204	"13:57:00"	65.3	67.4	66	63
205	"13:58:00"	65.5	70.5	68	61
206	"13:59:00"	63.7	66.4	65	61
207	"14:00:00"	64.4	69.3	66	62
208	"14:01:00"	64.2	68.6	65	62
209	"14:02:00"	68.4	74.7	72	63
210	"14:03:00"	63.4	66.1	64	61
211	"14:04:00"	62.9	64.2	63	61
212	"14:05:00"	65.9	68.9	68	63
213	"14:06:00"	68.2	71.6	70	63
214	"14:07:00"	62.5	63.7	63	61
215	"14:08:00"	62.8	64.3	63	61
216	"14:09:00"	62.8	65.5	63	61
217	"14:10:00"	64.2	66.6	65	62
218	"14:11:00"	62.5	64.2	63	60
219	"14:12:00"	68.6	72.0	70	64
220	"14:13:00"	71.9	74.0	73	68

221	"14:14:00"	64.2	67.6	66	59
222	"14:15:00"	63.1	67.4	66	57
223	"14:16:00"	57.1	60.6	59	54
224	"14:17:00"	58.8	61.6	60	56
225	"14:18:00"	57.4	60.7	60	54
226	"14:19:00"	58.0	61.0	59	54
227	"14:20:00"	61.2	67.8	64	57
228	"14:21:00"	58.4	60.2	59	55
229	"14:22:00"	58.6	60.0	59	57
230	"14:23:00"	58.2	60.7	60	55
231	"14:24:00"	62.1	69.6	65	57
232	"14:25:00"	58.1	61.7	59	56
233	"14:26:00"	56.8	60.9	59	52
234	"14:27:00"	60.3	63.1	61	58
235	"14:28:00"	59.6	64.0	61	57
236	"14:29:00"	59.6	62.8	61	58
237	"14:30:00"	56.6	58.7	58	53
238	"14:31:00"	60.4	67.7	65	52
239	"14:32:00"	60.3	65.6	62	55
240	"14:33:00"	59.0	61.9	60	57
241	"14:34:00"	59.1	61.4	60	56
242	"14:35:00"	59.6	64.8	61	57
243	"14:36:00"	57.9	61.4	59	54
244	"14:37:00"	58.7	63.1	61	56
245	"14:38:00"	57.4	60.7	59	55
246	"14:39:00"	57.7	61.5	60	55
247	"14:40:00"	58.4	60.8	59	56
248	"14:41:00"	59.1	61.9	60	55
249	"14:42:00"	58.8	63.5	60	57
250	"14:43:00"	59.9	62.7	61	57
251	"14:44:00"	58.6	63.4	62	54
252	"14:45:00"	58.7	60.2	59	57
253	"14:46:00"	57.9	59.6	59	56
254	"14:47:00"	59.0	60.3	59	58
255	"14:48:00"	58.8	60.3	59	57
256	"14:49:00"	58.4	63.2	59	56
257	"14:50:00"	57.3	59.8	59	52
258	"14:51:00"	58.0	59.6	59	56
259	"14:52:00"	57.6	61.3	59	55
260	"14:53:00"	58.5	60.7	59	57
261	"14:54:00"	58.1	59.5	59	56
262	"14:55:00"	59.8	62.0	61	58
263	"14:56:00"	59.6	63.3	60	57
264	"14:57:00"	59.8	64.3	61	57
265	"14:58:00"	59.1	62.5	60	56
266	"14:59:00"	57.7	60.1	59	54
267	"15:00:00"	58.9	60.4	59	57
268	"15:01:00"	59.1	61.7	60	57
269	"15:02:00"	57.7	60.2	58	55
270	"15:03:00"	59.1	64.4	61	55
271	"15:04:00"	58.7	63.8	61	54
272	"15:05:00"	58.2	59.5	59	57
273	"15:06:00"	59.6	61.5	61	57
274	"15:07:00"	59.3	62.1	61	57
275	"15:08:00"	58.9	60.5	59	57
276	"15:09:00"	59.1	63.2	60	56
277	"15:10:00"	60.5	62.7	61	59
278	"15:11:00"	59.1	62.3	60	57

279	"15:12:00"	57.4	61.4	58	55
280	"15:13:00"	59.8	62.0	61	58
281	"15:14:00"	59.8	62.1	61	58
282	"15:15:00"	58.2	61.4	59	54
283	"15:16:00"	59.0	60.9	60	57
284	"15:17:00"	60.1	62.3	61	59
285	"15:18:00"	57.7	60.6	59	55
286	"15:19:00"	58.9	63.0	60	57
287	"15:20:00"	59.1	63.6	61	55
288	"15:21:00"	59.4	60.8	60	58
289	"15:22:00"	58.6	60.8	59	57
290	"15:23:00"	58.8	60.7	60	56
291	"15:24:00"	57.4	59.1	58	55
292	"15:25:00"	59.8	61.4	61	57
293	"15:26:00"	59.3	61.0	60	57
294	"15:27:00"	59.2	63.6	60	54
295	"15:28:00"	59.7	64.2	60	57
296	"15:29:00"	60.0	62.3	61	57
297	"15:30:00"	59.5	61.1	60	58
298	"15:31:00"	59.2	61.7	60	55
299	"15:32:00"	59.6	61.7	60	58
300	"15:33:00"	59.4	62.9	61	55
301	"15:34:00"	59.2	61.3	59	58
302	"15:35:00"	59.1	61.7	60	57
303	"15:36:00"	58.5	60.4	59	55
304	"15:37:00"	59.0	61.6	60	57
305	"15:38:00"	66.7	74.9	71	60
306	"15:39:00"	59.2	61.4	60	57
307	"15:40:00"	60.1	61.9	61	59
308	"15:41:00"	58.9	62.5	60	56
309	"15:42:00"	59.6	62.5	61	57
310	"15:43:00"	59.0	61.0	60	57
311	"15:44:00"	58.7	60.4	60	57
312	"15:45:00"	58.8	61.0	60	57
313	"15:46:00"	57.6	61.3	60	53
314	"15:47:00"	57.7	59.9	59	55
315	"15:48:00"	60.0	63.5	61	58
316	"15:49:00"	59.1	61.4	60	57
317	"15:50:00"	58.5	60.9	60	56
318	"15:51:00"	59.7	60.5	60	58
319	"15:52:00"	59.4	61.5	60	57
320	"15:53:00"	58.5	61.9	60	56
321	"15:54:00"	58.6	62.9	59	57
322	"15:55:00"	58.0	60.7	59	55
323	"15:56:00"	58.8	62.5	59	57
324	"15:57:00"	57.6	62.1	60	54
325	"15:58:00"	58.3	61.9	60	56
326	"15:59:00"	58.8	61.3	60	56
327	"16:00:00"	56.8	59.8	58	54
328	"16:01:00"	57.6	59.3	59	54
329	"16:02:00"	58.9	60.6	60	57
330	"16:03:00"	57.7	59.4	59	55
331	"16:04:00"	57.8	60.8	60	54
332	"16:05:00"	59.5	61.4	60	57
333	"16:06:00"	58.7	61.3	59	58
334	"16:07:00"	59.4	61.4	60	57
335	"16:08:00"	58.1	60.2	59	56
336	"16:09:00"	58.8	61.1	60	57

337	"16:10:00"	58.6	60.0	59	57
338	"16:11:00"	60.0	63.6	61	57
339	"16:12:00"	58.9	61.1	60	55
340	"16:13:00"	59.3	63.1	60	56
341	"16:14:00"	59.1	61.1	60	57
342	"16:15:00"	58.1	59.8	59	56
343	"16:16:00"	58.6	60.8	59	57
344	"16:17:00"	59.1	60.7	59	57
345	"16:18:00"	58.5	60.9	60	55
346	"16:19:00"	58.6	60.2	59	57
347	"16:20:00"	58.4	59.6	59	57
348	"16:21:00"	58.1	61.9	59	56
349	"16:22:00"	58.5	60.3	59	56
350	"16:23:00"	57.4	61.0	59	54
351	"16:24:00"	58.1	59.4	59	56
352	"16:25:00"	59.8	64.5	60	58
353	"16:26:00"	58.4	61.1	59	56
354	"16:27:00"	58.6	61.1	59	56
355	"16:28:00"	58.8	61.0	60	57
356	"16:29:00"	60.0	63.2	61	58
357	"16:30:00"	59.9	62.8	61	58
358	"16:31:00"	59.3	60.5	60	57
359	"16:32:00"	59.4	61.1	60	57
360	"16:33:00"	59.9	63.8	60	58
361	"16:34:00"	58.0	63.5	59	51
362	"16:35:00"	59.1	61.7	60	53
363	"16:36:00"	57.8	59.5	59	55
364	"16:37:00"	59.1	60.9	60	57
365	"16:38:00"	57.9	60.0	59	53
366	"16:39:00"	58.3	61.7	59	57
367	"16:40:00"	59.4	63.0	60	57
368	"16:41:00"	59.9	62.3	61	58
369	"16:42:00"	59.1	61.3	60	57
370	"16:43:00"	57.0	58.7	58	56
371	"16:44:00"	60.2	65.6	62	57
372	"16:45:00"	58.8	61.7	59	57
373	"16:46:00"	58.0	61.4	59	57
374	"16:47:00"	58.6	60.5	59	57
375	"16:48:00"	58.6	60.3	59	57
376	"16:49:00"	57.7	58.6	58	57
377	"16:50:00"	57.6	60.0	59	55
378	"16:51:00"	57.3	61.5	58	56
379	"16:52:00"	57.6	59.1	58	55
380	"16:53:00"	57.9	59.9	58	56
381	"16:54:00"	57.6	59.3	58	56
382	"16:55:00"	58.4	60.0	59	57
383	"16:56:00"	59.8	63.1	61	58
384	"16:57:00"	60.0	62.5	61	58
385	"16:58:00"	58.5	62.4	59	56
386	"16:59:00"	60.1	62.1	61	59
387	"17:00:00"	59.5	61.3	60	58
388	"17:01:00"	58.8	61.8	60	57
389	"17:02:00"	59.4	61.4	60	58
390	"17:03:00"	59.0	61.7	59	58
391	"17:04:00"	58.4	61.2	59	57
392	"17:05:00"	59.2	63.6	61	57
393	"17:06:00"	58.7	60.0	59	58
394	"17:07:00"	58.2	60.5	58	57

395	"17:08:00"	58.9	60.7	59	58
396	"17:09:00"	60.0	63.9	62	57
397	"17:10:00"	60.4	69.4	60	58
398	"17:11:00"	61.1	67.3	63	58
399	"17:12:00"	59.1	61.3	60	56
400	"17:13:00"	58.6	62.6	59	56
401	"17:14:00"	58.6	61.0	60	53
402	"17:15:00"	58.0	60.6	58	56
403	"17:16:00"	58.5	61.1	59	57
404	"17:17:00"	59.4	60.2	60	58

# -- AMPLITUDE DISTRIBUTION REPORT --

"TOTAL SAMPLES = 193502

"dB"	"SAMPLES"	"% OF TOTAL"
49	1 .	0.00
50	196 +	0.10
51	685 +	0.35
52	1503 *	0.78
53	3654 **	1.89
54	8794 *****	4.54
55	14181 *****	7.33
56	21434 *****	11.08
57	37156 *****	19.20
58	38114 *****	19.70
59	32077 *****	16.58
60	14795 *****	7.65
61	6369 ***	3.29
62	3567 **	1.84
63	3665 **	1.89
64	2172 *	1.12
65	1576 *	0.81
66	1109 *	0.57
67	586 +	0.30
68	402 +	0.21
69	465 +	0.24
70	294 +	0.15
71	240 +	0.12
72	210 +	0.11
73	137 .	0.07
74	47 .	0.02
75	6 .	0.00
76	18 .	0.01
77	5 .	0.00
78	11 .	0.01
79	24 .	0.01
80	9 .	0.00

"Ln( 0.0) = 80dB

"Ln(10.0) = 61dB

"Ln(50.0) = 58dB

"Ln(99.9) = 50dB

"	NO	80.0dB	90.0dB
"	CUTOFF	CUTOFF	CUTOFF
"Leq	59.2dB	43.0dB	43.0dB
"Ldod	58.8dB	43.0dB	43.0dB
"Losha	58.6dB	43.0dB	43.0dB
"Leq(6)	58.4dB	43.0dB	43.0dB



"File Name.....BIN8  
"Test Location.....Rock Creek 96 - Site E  
"Employee Name.....CP  
"Employee Number....  
"Department.....  
"Comment Field 1...Picnic Area #10 - 100'  
"Comment Field 2...12/6/96  
"Numeric Code #1... #2... #3... #4... #5...

"METROSONICS db-308 SN 1947 V2.3  
"REPORT PRINTED 12/16/96 AT 16:29:47

"EXCHANGE RATE..... 3dB FILTER.....A WGH  
"DOSE CRITERION.... 90dB RESPONSE...SLOW  
"PRE-TEST CALIBRATION TIME...12/06/96 AT 6:02:07  
"PRE-TEST CALIBRATION RANGE... 43.8dB TO 139.8dB  
"Calibrator Type & Serial #...

"Calibrator Calibration Date..

-- OVERALL STATISTICS REPORT --

"TEST BEGAN...12/06/96 AT 6:06:02  
"TEST LENGTH... 0 DAYS 11:15:40

"Lav..... 59.3dB  
"SEL.....105.2dB  
"Lmax..... 78.6dB ON 12/06/96 AT 7:26:38  
"Lpk.....UNDER  
"TIME OVER 115dB.. 0 DAYS 0:00:00.00

"8 HR DOSE (80dB CUTOFF)..... 0.00%  
"8 HR DOSE (90dB CUTOFF)..... 0.00%

-- TABULAR TIME HISTORY REPORT --

"# OF PERIODS: 676 MODE: CONTINUOUS  
"PERIOD LENGTH: 0:01:00  
"TIME HISTORY CUTOFF: NONE  
"Ln(1): 10.0% Ln(2): 90.0%

"DATE: 12/06/96

"INT"	"TIME"	"Lav"	"Lmx"	"L1"	"L2"
1	" 6:06:02"	55.0	60.4	58	50
2	" 6:07:02"	55.3	61.0	59	49
3	" 6:08:02"	56.4	63.1	61	51
4	" 6:09:02"	54.7	62.2	59	49
5	" 6:10:02"	53.0	61.7	56	48
6	" 6:11:02"	56.3	61.2	59	50
7	" 6:12:02"	52.8	60.6	56	49
8	" 6:13:02"	54.2	61.0	58	49
9	" 6:14:02"	55.6	63.4	60	49
10	" 6:15:02"	57.4	62.3	60	52
11	" 6:16:02"	56.2	63.1	60	49
12	" 6:17:02"	58.7	62.0	61	53
13	" 6:18:02"	55.3	64.3	58	50
14	" 6:19:02"	58.3	62.1	61	51
15	" 6:20:02"	56.9	60.6	59	50
16	" 6:21:02"	56.9	63.6	60	51
17	" 6:22:02"	58.9	63.3	62	53
18	" 6:23:02"	52.5	58.9	56	49
19	" 6:24:02"	56.4	63.3	60	50
20	" 6:25:02"	55.8	62.7	59	50
21	" 6:26:02"	57.0	62.8	61	51
22	" 6:27:02"	56.2	62.2	60	49
23	" 6:28:02"	55.2	62.0	58	49
24	" 6:29:02"	58.7	63.1	62	53
25	" 6:30:02"	54.5	62.2	58	49
26	" 6:31:02"	57.7	64.2	61	50
27	" 6:32:02"	55.9	63.5	62	49
28	" 6:33:02"	59.6	65.6	64	50
29	" 6:34:02"	58.2	65.4	63	50
30	" 6:35:02"	58.0	64.8	62	49
31	" 6:36:02"	59.6	64.2	62	56
32	" 6:37:02"	61.7	68.9	65	54
33	" 6:38:02"	59.9	67.2	64	53
34	" 6:39:02"	59.0	63.6	62	53
35	" 6:40:02"	59.2	63.3	62	54
36	" 6:41:02"	56.2	61.5	59	51
37	" 6:42:02"	57.9	62.7	61	50
38	" 6:43:02"	59.7	65.0	62	54
39	" 6:44:02"	58.4	63.5	62	52
40	" 6:45:02"	59.1	66.4	64	50
41	" 6:46:02"	57.7	62.9	61	51
42	" 6:47:02"	60.9	64.4	63	57
43	" 6:48:02"	59.2	64.3	62	52
44	" 6:49:02"	58.7	64.5	62	50
45	" 6:50:02"	58.1	64.5	62	50
46	" 6:51:02"	57.3	63.6	61	50



47	" 6:52:02"	57.4	64.2	62	51
48	" 6:53:02"	57.7	61.4	60	52
49	" 6:54:02"	58.1	63.7	62	51
50	" 6:55:02"	57.8	61.7	60	53
51	" 6:56:02"	58.1	62.7	61	50
52	" 6:57:02"	60.8	64.6	63	52
53	" 6:58:02"	57.3	62.1	59	52
54	" 6:59:02"	59.7	63.3	62	55
55	" 7:00:02"	59.2	65.3	61	53
56	" 7:01:02"	56.7	62.8	59	51
57	" 7:02:02"	56.0	62.2	58	50
58	" 7:03:02"	60.7	63.8	62	55
59	" 7:04:02"	59.3	63.5	62	55
60	" 7:05:02"	59.5	62.6	61	54
61	" 7:06:02"	59.0	63.1	61	55
62	" 7:07:02"	60.9	64.9	63	56
63	" 7:08:02"	57.6	64.9	61	50
64	" 7:09:02"	59.6	63.5	62	54
65	" 7:10:02"	59.7	63.9	62	55
66	" 7:11:02"	62.3	65.9	64	58
67	" 7:12:02"	61.1	65.7	63	57
68	" 7:13:02"	61.0	64.7	63	52
69	" 7:14:02"	61.1	67.4	64	54
70	" 7:15:02"	62.0	67.7	64	58
71	" 7:16:02"	60.3	64.6	63	54
72	" 7:17:02"	60.7	64.8	63	55
73	" 7:18:02"	59.3	62.1	61	55
74	" 7:19:02"	59.8	64.3	62	54
75	" 7:20:02"	59.5	63.1	62	56
76	" 7:21:02"	61.6	67.0	63	56
77	" 7:22:02"	59.2	64.2	62	54
78	" 7:23:02"	59.4	64.2	62	52
79	" 7:24:02"	56.4	62.7	61	49
80	" 7:25:02"	60.1	63.4	62	53
81	" 7:26:02"	67.3	78.6	73	56
82	" 7:27:02"	61.4	68.1	64	56
83	" 7:28:02"	59.9	70.8	62	55
84	" 7:29:02"	59.4	62.6	61	54
85	" 7:30:02"	58.5	63.5	61	53
86	" 7:31:02"	59.2	64.4	63	50
87	" 7:32:02"	58.8	63.8	62	52
88	" 7:33:02"	61.8	65.3	64	57
89	" 7:34:02"	60.1	64.7	62	56
90	" 7:35:02"	60.1	65.3	64	51
91	" 7:36:02"	61.5	66.0	64	56
92	" 7:37:02"	60.2	64.7	63	52
93	" 7:38:02"	58.8	63.3	62	50
94	" 7:39:02"	60.2	63.9	63	52
95	" 7:40:02"	59.8	64.2	62	54
96	" 7:41:02"	62.1	66.5	64	58
97	" 7:42:02"	59.9	65.2	62	54
98	" 7:43:02"	59.2	64.7	62	52
99	" 7:44:02"	56.5	64.0	60	49
100	" 7:45:02"	60.0	63.6	62	54
101	" 7:46:02"	61.4	65.5	63	54
102	" 7:47:02"	59.3	64.5	61	53
103	" 7:48:02"	59.7	63.2	61	56
104	" 7:49:02"	62.3	65.8	64	60

105	" 7:50:02"	60.7	65.2	62	57
106	" 7:51:02"	60.7	64.1	63	56
107	" 7:52:02"	63.0	66.4	65	60
108	" 7:53:02"	62.1	64.1	63	60
109	" 7:54:02"	58.3	63.2	62	51
110	" 7:55:02"	63.2	65.7	65	60
111	" 7:56:02"	61.0	65.2	64	52
112	" 7:57:02"	59.4	64.3	63	50
113	" 7:58:02"	58.3	64.6	61	51
114	" 7:59:02"	61.5	66.2	64	57
115	" 8:00:02"	58.7	63.7	62	52
116	" 8:01:02"	61.1	64.3	62	58
117	" 8:02:02"	58.6	63.3	61	51
118	" 8:03:02"	62.4	65.5	64	56
119	" 8:04:02"	61.2	64.4	63	58
120	" 8:05:02"	61.2	64.3	63	55
121	" 8:06:02"	62.5	66.6	65	57
122	" 8:07:02"	59.6	63.5	61	54
123	" 8:08:02"	61.5	67.0	63	58
124	" 8:09:02"	62.1	65.9	65	58
125	" 8:10:02"	60.6	64.7	62	57
126	" 8:11:02"	59.0	62.9	62	55
127	" 8:12:02"	60.9	64.2	62	57
128	" 8:13:02"	59.0	64.3	62	53
129	" 8:14:02"	62.5	66.1	64	59
130	" 8:15:02"	63.2	66.2	65	59
131	" 8:16:02"	60.1	64.2	62	55
132	" 8:17:02"	61.7	65.6	63	56
133	" 8:18:02"	61.7	65.1	64	57
134	" 8:19:02"	60.5	63.7	62	56
135	" 8:20:02"	62.1	64.4	63	59
136	" 8:21:02"	60.4	65.4	63	54
137	" 8:22:02"	59.8	63.9	62	52
138	" 8:23:02"	61.7	65.8	64	52
139	" 8:24:02"	60.4	64.7	62	57
140	" 8:25:02"	61.7	65.3	63	58
141	" 8:26:02"	59.6	64.3	62	52
142	" 8:27:02"	60.3	64.0	62	57
143	" 8:28:02"	60.4	63.5	62	55
144	" 8:29:02"	61.6	64.7	63	59
145	" 8:30:02"	59.8	64.7	62	54
146	" 8:31:02"	61.7	65.5	64	56
147	" 8:32:02"	60.5	64.4	63	55
148	" 8:33:02"	60.4	65.3	63	54
149	" 8:34:02"	63.2	66.4	65	59
150	" 8:35:02"	61.0	65.6	63	55
151	" 8:36:02"	58.6	63.0	61	54
152	" 8:37:02"	63.5	69.7	65	59
153	" 8:38:02"	65.6	72.9	70	57
154	" 8:39:02"	61.1	64.7	63	57
155	" 8:40:02"	61.2	65.0	63	56
156	" 8:41:02"	60.2	64.2	62	55
157	" 8:42:02"	61.0	64.2	62	57
158	" 8:43:02"	61.0	63.6	63	58
159	" 8:44:02"	59.9	63.9	62	55
160	" 8:45:02"	60.7	64.0	63	57
161	" 8:46:02"	61.1	65.6	63	57
162	" 8:47:02"	61.7	65.8	64	56

163	" 8:48:02"	61.9	69.3	65	57
164	" 8:49:02"	60.9	66.4	64	53
165	" 8:50:02"	58.7	64.0	62	52
166	" 8:51:02"	60.2	64.4	62	56
167	" 8:52:02"	57.2	62.5	60	50
168	" 8:53:02"	59.2	63.3	62	53
169	" 8:54:02"	62.3	65.6	64	58
170	" 8:55:02"	59.4	64.6	62	51
171	" 8:56:02"	59.4	65.0	62	54
172	" 8:57:02"	59.2	63.2	62	54
173	" 8:58:02"	57.1	62.7	60	51
174	" 8:59:02"	60.0	63.2	62	57
175	" 9:00:02"	58.2	64.2	62	50
176	" 9:01:02"	55.7	60.1	58	51
177	" 9:02:02"	59.3	64.3	62	51
178	" 9:03:02"	58.6	63.1	61	51
179	" 9:04:02"	58.5	64.2	61	52
180	" 9:05:02"	59.6	63.3	61	56
181	" 9:06:02"	58.5	65.8	61	52
182	" 9:07:02"	61.0	64.5	63	57
183	" 9:08:02"	58.4	63.7	62	52
184	" 9:09:02"	60.8	65.2	63	56
185	" 9:10:02"	61.1	70.3	64	51
186	" 9:11:02"	59.4	64.6	63	52
187	" 9:12:02"	58.5	63.1	62	51
188	" 9:13:02"	60.1	64.0	62	56
189	" 9:14:02"	58.9	63.7	61	51
190	" 9:15:02"	60.6	65.8	64	52
191	" 9:16:02"	59.0	66.4	63	50
192	" 9:17:02"	56.9	62.2	60	51
193	" 9:18:02"	60.7	65.6	63	54
194	" 9:19:02"	58.0	64.0	62	51
195	" 9:20:02"	56.2	62.0	59	52
196	" 9:21:02"	56.7	62.5	60	51
197	" 9:22:02"	56.7	62.2	60	53
198	" 9:23:02"	60.6	65.2	64	56
199	" 9:24:02"	58.4	62.9	61	54
200	" 9:25:02"	60.0	64.9	62	54
201	" 9:26:02"	56.3	61.5	60	51
202	" 9:27:02"	58.8	64.0	62	53
203	" 9:28:02"	57.9	59.9	59	55
204	" 9:29:02"	57.9	62.8	61	54
205	" 9:30:02"	58.2	62.8	61	54
206	" 9:31:02"	59.1	64.2	62	52
207	" 9:32:02"	58.4	63.3	62	52
208	" 9:33:02"	59.8	64.4	62	55
209	" 9:34:02"	55.3	62.8	59	49
210	" 9:35:02"	55.6	62.7	59	48
211	" 9:36:02"	57.8	63.3	61	52
212	" 9:37:02"	56.2	61.5	59	50
213	" 9:38:02"	61.2	63.0	62	59
214	" 9:39:02"	58.2	61.8	61	54
215	" 9:40:02"	59.4	64.2	61	56
216	" 9:41:02"	62.4	66.2	64	59
217	" 9:42:02"	59.4	64.3	61	54
218	" 9:43:02"	55.3	60.8	58	50
219	" 9:44:02"	57.8	61.9	60	54
220	" 9:45:02"	58.4	62.2	61	52

221	" 9:46:02"	66.1	71.6	68	61
222	" 9:47:02"	64.8	68.1	67	62
223	" 9:48:02"	57.0	62.5	60	52
224	" 9:49:02"	59.9	64.3	62	56
225	" 9:50:02"	59.0	63.9	62	53
226	" 9:51:02"	59.9	64.6	62	56
227	" 9:52:02"	59.5	65.7	63	53
228	" 9:53:02"	59.8	62.6	61	56
229	" 9:54:02"	62.5	66.4	65	58
230	" 9:55:02"	62.1	66.5	65	56
231	" 9:56:02"	58.2	63.6	61	53
232	" 9:57:02"	59.7	64.6	63	55
233	" 9:58:02"	60.7	65.5	64	54
234	" 9:59:02"	61.5	65.1	64	54
235	"10:00:02"	57.9	64.4	61	52
236	"10:01:02"	59.5	63.1	62	56
237	"10:02:02"	58.5	64.1	62	53
238	"10:03:02"	56.1	60.2	58	53
239	"10:04:02"	61.4	67.4	65	55
240	"10:05:02"	56.7	62.0	59	52
241	"10:06:02"	60.6	67.0	64	50
242	"10:07:02"	56.9	63.2	59	50
243	"10:08:02"	57.8	61.5	60	52
244	"10:09:02"	59.2	63.1	62	54
245	"10:10:02"	68.5	76.4	72	56
246	"10:11:02"	59.6	63.7	62	54
247	"10:12:02"	55.8	61.1	59	51
248	"10:13:02"	57.4	60.8	60	54
249	"10:14:02"	61.8	69.1	64	57
250	"10:15:02"	61.4	66.6	64	56
251	"10:16:02"	60.6	67.4	64	54
252	"10:17:02"	52.0	59.3	54	49
253	"10:18:02"	59.7	64.0	62	50
254	"10:19:02"	59.6	64.4	62	54
255	"10:20:02"	56.4	62.7	59	51
256	"10:21:02"	56.9	62.9	60	50
257	"10:22:02"	59.2	63.7	62	51
258	"10:23:02"	54.5	60.2	58	49
259	"10:24:02"	56.7	62.5	59	50
260	"10:25:02"	56.8	62.1	60	50
261	"10:26:02"	59.0	63.1	62	53
262	"10:27:02"	58.0	64.2	62	50
263	"10:28:02"	58.7	63.9	61	55
264	"10:29:02"	57.9	62.7	61	54
265	"10:30:02"	59.8	64.8	61	55
266	"10:31:02"	59.3	62.7	61	55
267	"10:32:02"	60.2	65.5	63	56
268	"10:33:02"	59.5	64.0	61	55
269	"10:34:02"	57.1	62.6	60	52
270	"10:35:02"	50.4	53.5	52	49
271	"10:36:02"	57.7	62.6	61	50
272	"10:37:02"	53.9	62.2	56	50
273	"10:38:02"	55.6	61.5	60	50
274	"10:39:02"	59.1	63.9	62	53
275	"10:40:02"	58.0	63.1	61	52
276	"10:41:02"	59.7	63.9	62	54
277	"10:42:02"	57.6	62.1	60	51
278	"10:43:02"	58.9	64.6	63	53

279	"10:44:02"	57.2	63.1	59	52
280	"10:45:02"	58.9	63.1	60	57
281	"10:46:02"	59.1	64.1	62	55
282	"10:47:02"	56.4	61.5	59	53
283	"10:48:02"	57.6	62.8	60	54
284	"10:49:02"	58.5	64.2	62	53
285	"10:50:02"	55.1	60.1	58	50
286	"10:51:02"	55.4	60.2	58	48
287	"10:52:02"	60.8	64.2	63	56
288	"10:53:02"	59.3	65.3	62	55
289	"10:54:02"	61.4	66.7	65	54
290	"10:55:02"	56.0	60.3	59	51
291	"10:56:02"	59.1	64.3	62	54
292	"10:57:02"	57.4	61.8	60	53
293	"10:58:02"	54.4	62.5	59	49
294	"10:59:02"	59.5	64.2	62	51
295	"11:00:02"	56.4	62.3	60	50
296	"11:01:02"	58.8	66.4	61	53
297	"11:02:02"	57.9	63.0	61	50
298	"11:03:02"	58.0	62.1	61	52
299	"11:04:02"	56.8	62.7	59	51
300	"11:05:02"	53.7	60.0	56	49
301	"11:06:02"	56.3	62.9	59	51
302	"11:07:02"	59.0	64.0	62	52
303	"11:08:02"	57.1	62.9	59	52
304	"11:09:02"	54.2	59.8	55	51
305	"11:10:02"	59.6	65.4	63	53
306	"11:11:02"	57.4	62.9	60	52
307	"11:12:02"	58.0	62.4	60	52
308	"11:13:02"	56.4	62.9	60	51
309	"11:14:02"	55.9	63.1	61	48
310	"11:15:02"	58.0	64.4	61	51
311	"11:16:02"	59.1	64.2	62	52
312	"11:17:02"	57.7	66.1	61	48
313	"11:18:02"	55.2	63.5	59	48
314	"11:19:02"	55.4	60.6	58	49
315	"11:20:02"	59.8	63.8	63	53
316	"11:21:02"	57.3	63.2	61	52
317	"11:22:02"	57.6	62.8	61	52
318	"11:23:02"	48.6	52.0	49	47
319	"11:24:02"	58.8	63.1	62	49
320	"11:25:02"	58.2	63.1	61	49
321	"11:26:02"	55.0	62.1	59	51
322	"11:27:02"	54.0	61.0	58	50
323	"11:28:02"	56.0	61.0	59	50
324	"11:29:02"	57.4	61.8	61	50
325	"11:30:02"	57.1	61.9	60	51
326	"11:31:02"	54.4	61.9	58	50
327	"11:32:02"	55.1	60.7	58	51
328	"11:33:02"	56.5	61.1	60	50
329	"11:34:02"	60.4	65.3	63	53
330	"11:35:02"	59.0	64.0	63	51
331	"11:36:02"	58.4	65.8	63	50
332	"11:37:02"	59.4	64.9	63	48
333	"11:38:02"	55.0	63.7	59	48
334	"11:39:02"	58.7	64.9	62	49
335	"11:40:02"	55.5	63.4	59	49
336	"11:41:02"	57.6	64.2	61	50

337	"11:42:02"	57.4	63.4	62	48
338	"11:43:02"	57.4	63.5	62	48
339	"11:44:02"	54.9	61.0	59	48
340	"11:45:02"	54.3	59.4	58	47
341	"11:46:02"	58.8	63.0	61	51
342	"11:47:02"	56.2	62.1	59	49
343	"11:48:02"	56.6	64.6	60	49
344	"11:49:02"	57.3	62.0	60	51
345	"11:50:02"	57.9	63.1	61	49
346	"11:51:02"	56.6	62.7	60	47
347	"11:52:02"	59.6	68.0	61	51
348	"11:53:02"	57.0	62.7	61	50
349	"11:54:02"	53.9	60.4	57	48
350	"11:55:02"	58.0	65.1	62	48
351	"11:56:02"	57.1	65.1	62	48
352	"11:57:02"	56.4	61.5	60	49
353	"11:58:02"	53.4	61.2	55	49
354	"11:59:02"	55.0	60.9	58	50
355	"12:00:02"	57.1	63.4	60	50
356	"12:01:02"	56.5	61.8	60	50
357	"12:02:02"	58.3	65.4	64	51
358	"12:03:02"	56.9	63.2	60	52
359	"12:04:02"	56.5	62.8	59	51
360	"12:05:02"	60.5	68.3	63	52
361	"12:06:02"	57.1	63.3	60	51
362	"12:07:02"	54.7	61.9	59	50
363	"12:08:02"	58.3	62.9	60	50
364	"12:09:02"	57.8	63.2	61	50
365	"12:10:02"	57.1	62.9	61	51
366	"12:11:02"	58.8	63.1	61	54
367	"12:12:02"	55.6	62.7	59	51
368	"12:13:02"	57.1	61.7	59	53
369	"12:14:02"	55.5	61.4	58	50
370	"12:15:02"	57.1	61.0	60	51
371	"12:16:02"	59.1	63.7	62	51
372	"12:17:02"	58.1	63.5	62	51
373	"12:18:02"	54.0	61.9	58	48
374	"12:19:02"	59.4	66.1	63	51
375	"12:20:02"	57.3	64.4	61	49
376	"12:21:02"	60.0	65.0	64	51
377	"12:22:02"	55.5	61.2	59	49
378	"12:23:02"	59.8	71.6	60	49
379	"12:24:02"	56.2	62.9	60	47
380	"12:25:02"	55.9	63.4	60	49
381	"12:26:02"	59.7	62.9	62	54
382	"12:27:02"	55.0	59.9	58	51
383	"12:28:02"	58.1	62.7	61	51
384	"12:29:02"	59.4	65.5	62	53
385	"12:30:02"	59.2	64.7	62	54
386	"12:31:02"	57.3	62.7	60	51
387	"12:32:02"	58.0	63.6	61	51
388	"12:33:02"	58.1	62.1	61	52
389	"12:34:02"	56.1	61.1	59	52
390	"12:35:02"	53.8	58.9	57	50
391	"12:36:02"	55.5	60.6	58	51
392	"12:37:02"	58.3	63.1	61	52
393	"12:38:02"	56.2	63.2	61	49
394	"12:39:02"	57.2	63.7	60	52

395	"12:40:02"	56.9	63.2	61	51
396	"12:41:02"	60.3	65.8	65	53
397	"12:42:02"	57.5	66.5	61	49
398	"12:43:02"	55.1	61.5	59	48
399	"12:44:02"	58.1	62.9	60	52
400	"12:45:02"	58.7	63.1	62	51
401	"12:46:02"	57.2	62.7	61	49
402	"12:47:02"	55.2	60.8	59	49
403	"12:48:02"	57.0	62.7	61	50
404	"12:49:02"	58.3	63.6	62	50
405	"12:50:02"	57.4	64.4	61	48
406	"12:51:02"	54.7	62.2	58	47
407	"12:52:02"	58.1	63.9	61	51
408	"12:53:02"	58.6	64.6	62	51
409	"12:54:02"	56.9	62.5	60	50
410	"12:55:02"	55.9	62.8	60	48
411	"12:56:02"	56.2	61.0	59	50
412	"12:57:02"	58.2	66.4	64	49
413	"12:58:02"	56.9	63.9	60	50
414	"12:59:02"	59.2	64.5	63	48
415	"13:00:02"	55.4	61.4	59	47
416	"13:01:02"	52.8	60.2	58	47
417	"13:02:02"	52.2	58.8	55	47
418	"13:03:02"	60.3	64.3	63	55
419	"13:04:02"	56.3	63.1	61	48
420	"13:05:02"	58.0	63.7	61	52
421	"13:06:02"	57.8	62.1	60	52
422	"13:07:02"	56.9	61.9	60	47
423	"13:08:02"	56.8	61.8	59	52
424	"13:09:02"	54.0	61.8	59	47
425	"13:10:02"	58.2	63.1	61	50
426	"13:11:02"	56.4	61.9	60	48
427	"13:12:02"	58.9	62.2	61	55
428	"13:13:02"	56.5	64.2	60	48
429	"13:14:02"	57.5	62.3	60	51
430	"13:15:02"	53.1	60.0	56	50
431	"13:16:02"	56.2	64.0	60	48
432	"13:17:02"	55.8	61.9	60	49
433	"13:18:02"	56.6	63.6	60	49
434	"13:19:02"	58.0	62.9	61	50
435	"13:20:02"	57.3	63.3	61	48
436	"13:21:02"	51.7	60.6	54	47
437	"13:22:02"	56.3	62.9	60	49
438	"13:23:02"	57.8	63.7	61	49
439	"13:24:02"	58.0	65.1	62	49
440	"13:25:02"	53.1	60.2	58	47
441	"13:26:02"	55.7	63.3	60	47
442	"13:27:02"	56.2	62.2	60	48
443	"13:28:02"	57.8	62.5	61	52
444	"13:29:02"	58.9	65.9	62	51
445	"13:30:02"	58.1	62.3	61	50
446	"13:31:02"	55.0	60.8	58	48
447	"13:32:02"	56.8	63.0	61	48
448	"13:33:02"	57.2	62.4	61	51
449	"13:34:02"	64.1	69.8	67	55
450	"13:35:02"	56.0	63.3	58	49
451	"13:36:02"	60.3	65.8	62	53
452	"13:37:02"	58.1	64.2	62	51

453	"13:38:02"	58.3	63.0	60	52
454	"13:39:02"	56.6	64.6	63	47
455	"13:40:02"	55.4	61.6	59	48
456	"13:41:02"	56.9	61.3	60	50
457	"13:42:02"	59.5	64.4	62	55
458	"13:43:02"	57.0	63.3	59	51
459	"13:44:02"	58.6	63.8	62	50
460	"13:45:02"	59.4	64.8	62	51
461	"13:46:02"	56.2	63.3	61	47
462	"13:47:02"	60.7	65.7	63	56
463	"13:48:02"	54.0	62.2	58	47
464	"13:49:02"	59.1	64.8	62	52
465	"13:50:02"	56.3	65.8	59	48
466	"13:51:02"	60.0	64.7	63	51
467	"13:52:02"	55.1	63.9	59	48
468	"13:53:02"	57.3	64.3	61	48
469	"13:54:02"	52.7	60.5	56	47
470	"13:55:02"	59.4	64.7	63	53
471	"13:56:02"	61.2	66.0	64	48
472	"13:57:02"	57.6	65.1	61	48
473	"13:58:02"	54.9	66.2	60	47
474	"13:59:02"	57.4	62.1	61	50
475	"14:00:02"	58.4	63.3	62	49
476	"14:01:02"	57.9	64.0	62	50
477	"14:02:02"	57.0	64.7	61	49
478	"14:03:02"	54.8	61.4	59	47
479	"14:04:02"	58.8	62.1	61	53
480	"14:05:02"	61.5	64.7	64	50
481	"14:06:02"	58.4	66.6	62	50
482	"14:07:02"	60.0	64.1	63	54
483	"14:08:02"	59.3	66.8	63	51
484	"14:09:02"	60.0	64.6	62	55
485	"14:10:02"	60.2	64.3	63	52
486	"14:11:02"	54.3	61.9	58	49
487	"14:12:02"	57.8	62.9	61	52
488	"14:13:02"	57.4	62.5	60	50
489	"14:14:02"	58.8	63.5	62	52
490	"14:15:02"	60.0	64.8	62	53
491	"14:16:02"	59.4	63.6	62	52
492	"14:17:02"	60.4	64.4	62	54
493	"14:18:02"	62.0	65.4	64	52
494	"14:19:02"	58.5	64.4	63	48
495	"14:20:02"	58.8	66.4	63	49
496	"14:21:02"	54.4	60.7	58	47
497	"14:22:02"	53.3	60.2	57	47
498	"14:23:02"	57.6	62.7	60	52
499	"14:24:02"	58.7	65.4	62	52
500	"14:25:02"	58.3	64.8	64	49
501	"14:26:02"	59.1	64.5	64	51
502	"14:27:02"	58.6	63.5	61	51
503	"14:28:02"	59.5	63.8	62	53
504	"14:29:02"	58.4	64.8	62	49
505	"14:30:02"	61.1	67.6	63	53
506	"14:31:02"	60.4	64.3	63	51
507	"14:32:02"	59.9	65.5	63	51
508	"14:33:02"	53.1	60.4	57	48
509	"14:34:02"	57.6	64.7	61	49
510	"14:35:02"	57.3	62.9	61	48

511	"14:36:02"	56.7	62.4	60	50
512	"14:37:02"	59.1	64.3	62	54
513	"14:38:02"	58.1	66.5	62	50
514	"14:39:02"	59.8	65.7	63	52
515	"14:40:02"	58.0	64.8	63	47
516	"14:41:02"	54.8	61.0	59	47
517	"14:42:02"	57.7	65.0	62	47
518	"14:43:02"	58.3	63.6	62	50
519	"14:44:02"	59.3	65.0	63	50
520	"14:45:02"	57.8	63.6	61	49
521	"14:46:02"	57.8	63.9	62	48
522	"14:47:02"	57.1	62.9	62	47
523	"14:48:02"	59.0	66.2	63	48
524	"14:49:02"	56.4	62.4	60	49
525	"14:50:02"	58.7	64.9	62	49
526	"14:51:02"	60.7	66.4	63	53
527	"14:52:02"	65.9	72.8	70	56
528	"14:53:02"	63.1	68.0	66	54
529	"14:54:02"	58.6	64.2	62	47
530	"14:55:02"	57.0	61.8	60	50
531	"14:56:02"	58.9	62.9	62	50
532	"14:57:02"	55.7	62.3	60	47
533	"14:58:02"	55.7	62.7	61	48
534	"14:59:02"	57.4	62.1	61	51
535	"15:00:02"	61.2	64.9	63	57
536	"15:01:02"	59.3	65.2	64	49
537	"15:02:02"	57.6	65.3	63	48
538	"15:03:02"	57.9	64.0	61	49
539	"15:04:02"	61.4	66.5	64	55
540	"15:05:02"	58.4	64.7	62	49
541	"15:06:02"	60.3	64.5	62	55
542	"15:07:02"	57.9	62.9	61	48
543	"15:08:02"	57.7	64.3	61	47
544	"15:09:02"	57.9	62.8	61	51
545	"15:10:02"	59.5	66.6	64	50
546	"15:11:02"	57.0	63.3	61	49
547	"15:12:02"	59.7	65.5	64	52
548	"15:13:02"	57.7	64.3	61	49
549	"15:14:02"	58.7	64.1	61	50
550	"15:15:02"	54.9	62.7	58	48
551	"15:16:02"	58.8	61.7	60	54
552	"15:17:02"	57.9	64.9	62	48
553	"15:18:02"	62.3	72.5	63	56
554	"15:19:02"	57.9	62.2	60	52
555	"15:20:02"	59.8	63.3	62	52
556	"15:21:02"	60.1	65.0	63	49
557	"15:22:02"	57.0	63.6	60	50
558	"15:23:02"	59.9	64.3	62	52
559	"15:24:02"	56.7	63.6	61	50
560	"15:25:02"	57.9	63.9	61	49
561	"15:26:02"	58.0	62.9	61	49
562	"15:27:02"	59.9	66.9	63	52
563	"15:28:02"	55.4	63.5	58	50
564	"15:29:02"	62.0	65.0	64	58
565	"15:30:02"	60.4	64.6	63	55
566	"15:31:02"	60.4	65.6	63	55
567	"15:32:02"	59.8	63.2	62	55
568	"15:33:02"	60.6	65.0	62	54

569	"15:34:02"	58.1	62.9	61	53
570	"15:35:02"	58.6	64.6	63	51
571	"15:36:02"	58.1	63.7	62	49
572	"15:37:02"	59.7	65.7	63	51
573	"15:38:02"	60.6	64.8	63	54
574	"15:39:02"	59.7	64.2	62	53
575	"15:40:02"	59.4	63.9	61	55
576	"15:41:02"	58.2	63.7	61	50
577	"15:42:02"	58.3	64.3	63	48
578	"15:43:02"	59.5	63.6	63	50
579	"15:44:02"	59.2	65.0	64	53
580	"15:45:02"	59.7	63.7	62	53
581	"15:46:02"	61.5	64.2	63	54
582	"15:47:02"	60.5	65.2	63	51
583	"15:48:02"	61.2	65.3	63	54
584	"15:49:02"	59.2	64.3	62	50
585	"15:50:02"	57.9	63.6	61	49
586	"15:51:02"	60.6	64.7	63	52
587	"15:52:02"	61.0	65.1	64	57
588	"15:53:02"	60.5	65.2	64	51
589	"15:54:02"	60.5	64.1	63	55
590	"15:55:02"	61.1	65.3	63	54
591	"15:56:02"	60.7	66.0	63	53
592	"15:57:02"	60.9	66.1	65	52
593	"15:58:02"	57.2	64.9	61	49
594	"15:59:02"	62.1	71.9	64	51
595	"16:00:02"	57.6	63.2	61	49
596	"16:01:02"	61.4	65.8	64	51
597	"16:02:02"	59.6	64.3	62	50
598	"16:03:02"	62.8	65.3	64	58
599	"16:04:02"	60.0	64.3	63	52
600	"16:05:02"	57.8	61.9	60	52
601	"16:06:02"	57.9	63.6	61	50
602	"16:07:02"	61.5	66.0	64	53
603	"16:08:02"	53.7	61.3	57	47
604	"16:09:02"	57.2	60.9	60	49
605	"16:10:02"	61.0	64.7	63	54
606	"16:11:02"	53.0	60.8	56	47
607	"16:12:02"	60.1	64.5	63	52
608	"16:13:02"	60.6	65.1	63	55
609	"16:14:02"	58.6	63.5	62	48
610	"16:15:02"	59.0	64.8	62	49
611	"16:16:02"	59.9	63.6	62	54
612	"16:17:02"	61.2	64.3	63	55
613	"16:18:02"	59.2	64.8	63	51
614	"16:19:02"	56.0	61.6	59	49
615	"16:20:02"	60.8	64.0	63	55
616	"16:21:02"	59.4	65.8	62	54
617	"16:22:02"	59.9	66.2	65	50
618	"16:23:02"	60.7	64.9	63	53
619	"16:24:02"	59.2	64.4	63	50
620	"16:25:02"	60.8	64.4	63	55
621	"16:26:02"	60.3	64.2	61	54
622	"16:27:02"	60.2	65.7	63	49
623	"16:28:02"	60.9	63.7	62	57
624	"16:29:02"	59.8	66.7	62	52
625	"16:30:02"	60.9	65.9	63	52
626	"16:31:02"	60.6	64.4	62	54

627	"16:32:02"	61.0	63.8	63	53
628	"16:33:02"	58.7	63.0	61	53
629	"16:34:02"	55.3	62.9	59	48
630	"16:35:02"	61.7	64.3	63	58
631	"16:36:02"	60.1	64.1	62	56
632	"16:37:02"	58.9	62.9	62	48
633	"16:38:02"	59.3	64.7	63	53
634	"16:39:02"	59.5	64.4	62	50
635	"16:40:02"	61.6	64.2	63	57
636	"16:41:02"	64.1	70.8	69	54
637	"16:42:02"	66.9	70.5	69	58
638	"16:43:02"	60.6	64.3	63	54
639	"16:44:02"	61.8	67.3	64	58
640	"16:45:02"	62.0	66.1	64	56
641	"16:46:02"	58.8	63.1	61	53
642	"16:47:02"	59.1	63.4	62	53
643	"16:48:02"	58.6	63.1	62	50
644	"16:49:02"	56.9	61.9	60	48
645	"16:50:02"	61.9	64.5	63	58
646	"16:51:02"	61.4	64.8	63	55
647	"16:52:02"	62.3	65.2	64	58
648	"16:53:02"	60.4	63.8	62	51
649	"16:54:02"	58.8	63.4	61	52
650	"16:55:02"	58.4	64.5	62	53
651	"16:56:02"	61.4	65.1	63	54
652	"16:57:02"	61.8	64.6	63	60
653	"16:58:02"	57.9	62.1	61	50
654	"16:59:02"	57.4	63.3	60	52
655	"17:00:02"	61.9	65.3	64	58
656	"17:01:02"	60.1	64.2	63	53
657	"17:02:02"	60.3	64.4	63	52
658	"17:03:02"	60.2	64.3	62	54
659	"17:04:02"	60.2	63.3	62	57
660	"17:05:02"	60.9	64.4	63	57
661	"17:06:02"	60.8	64.0	63	55
662	"17:07:02"	60.0	64.7	63	54
663	"17:08:02"	58.9	63.8	61	50
664	"17:09:02"	59.2	64.8	62	50
665	"17:10:02"	58.9	64.3	61	54
666	"17:11:02"	62.2	65.2	64	54
667	"17:12:02"	56.2	61.6	59	51
668	"17:13:02"	60.9	63.6	62	58
669	"17:14:02"	60.6	65.6	64	51
670	"17:15:02"	61.0	63.6	63	58
671	"17:16:02"	59.9	64.5	63	52
672	"17:17:02"	59.5	63.7	62	53
673	"17:18:02"	60.0	63.5	62	55
674	"17:19:02"	60.0	63.7	62	52
675	"17:20:02"	58.3	62.7	61	52
676	"17:21:02"	59.0	63.1	62	52

# -- AMPLITUDE DISTRIBUTION REPORT --

"TOTAL SAMPLES = 324321

"dB"	"SAMPLES"	"% OF TOTAL"
46	198 .	0.06
47	3656 *	1.13
48	6970 **	2.15
49	11442 ****	3.53
50	15344 *****	4.73
51	15963 *****	4.92
52	16930 *****	5.22
53	17943 *****	5.53
54	19594 *****	6.04
55	20270 *****	6.25
56	19022 *****	5.87
57	21717 *****	6.70
58	26404 *****	8.14
59	24962 *****	7.70
60	27124 *****	8.36
61	28158 *****	8.68
62	22260 *****	6.86
63	14002 ****	4.32
64	7175 **	2.21
65	2885 *	0.89
66	897 +	0.28
67	352 +	0.11
68	287 .	0.09
69	282 .	0.09
70	208 .	0.06
71	121 .	0.04
72	63 .	0.02
73	34 .	0.01
74	21 .	0.01
75	20 .	0.01
76	11 .	0.00
77	3 .	0.00
78	3 .	0.00

"Ln( 0.0) = 78dB

"Ln(10.0) = 62dB

"Ln(50.0) = 57dB

"Ln(99.9) = 47dB

"	NO	80.0dB	90.0dB
"	CUTOFF	CUTOFF	CUTOFF
"Leq	58.8dB	43.8dB	43.8dB
"Ldod	58.3dB	43.8dB	43.8dB
"Losha	58.0dB	43.8dB	43.8dB
"Leq(6)	57.8dB	43.8dB	43.8dB



"File Name.....BIN9  
 "Test Location.....Rock Creek 96 - Site I  
 "Employee Name.....CP  
 "Employee Number...  
 "Department.....  
 "Comment Field 1...Zoo - West of Creek  
 "Comment Field 2...12/6/96  
 "Numeric Code #1... #2... #3... #4... #5...

"METROSONICS db-308 SN 1967 V2.3  
 "REPORT PRINTED 12/16/96 AT 16:29:58

"EXCHANGE RATE..... 3dB FILTER.....A WGH  
 "DOSE CRITERION.... 90dB RESPONSE...SLOW  
 "PRE-TEST CALIBRATION TIME...12/06/96 AT 6:20:48  
 "PRE-TEST CALIBRATION RANGE... 43.0dB TO 139.0dB  
 "Calibrator Type & Serial #...

"Calibrator Calibration Date..

"-- OVERALL STATISTICS REPORT --

"TEST BEGAN...12/06/96 AT 6:25:00  
 "TEST LENGTH... 0 DAYS 10:11:53

"Lav..... 67.0dB  
 "SEL.....112.4dB  
 "Lmax..... 90.9dB ON 12/06/96 AT 13:58:11  
 "Lpk.....UNDER  
 "TIME OVER 115dB.. 0 DAYS 0:00:00.00

"8 HR DOSE (80dB CUTOFF)..... 0.35%  
 "8 HR DOSE (90dB CUTOFF)..... 0.04%

"-- TABULAR TIME HISTORY REPORT --

"# OF PERIODS: 612 MODE: CONTINUOUS  
 "PERIOD LENGTH: 0:01:00  
 "TIME HISTORY CUTOFF: NONE  
 "Ln(1): 10.0% Ln(2): 90.0%

"DATE: 12/06/96

"INT"	"TIME"	"Lav"	"Lmx"	"L1"	"L2"
1	" 6:25:00"	57.5	61.6	59	54
2	" 6:26:00"	57.9	59.4	58	56
3	" 6:27:00"	57.5	60.9	59	55
4	" 6:28:00"	58.4	61.7	59	56
5	" 6:29:00"	59.0	60.7	60	57
6	" 6:30:00"	59.4	61.5	60	56
7	" 6:31:00"	57.8	60.6	59	55
8	" 6:32:00"	60.5	64.7	63	58
9	" 6:33:00"	57.5	59.1	58	56
10	" 6:34:00"	57.1	59.8	59	54
11	" 6:35:00"	56.2	58.2	57	54
12	" 6:36:00"	57.5	60.4	59	55
13	" 6:37:00"	57.5	58.9	58	56
14	" 6:38:00"	58.7	61.6	59	56
15	" 6:39:00"	57.4	59.2	58	56
16	" 6:40:00"	58.6	60.5	59	56
17	" 6:41:00"	58.2	60.4	59	57
18	" 6:42:00"	58.2	60.5	59	56
19	" 6:43:00"	59.6	61.5	61	58
20	" 6:44:00"	57.6	59.1	58	56
21	" 6:45:00"	57.4	59.2	58	56
22	" 6:46:00"	59.6	64.9	61	57
23	" 6:47:00"	59.0	61.3	60	57
24	" 6:48:00"	58.3	61.0	59	56
25	" 6:49:00"	57.1	59.1	58	54
26	" 6:50:00"	58.1	60.2	58	57
27	" 6:51:00"	56.7	59.2	58	55
28	" 6:52:00"	57.7	59.3	58	56
29	" 6:53:00"	60.0	63.6	62	56
30	" 6:54:00"	58.6	59.7	59	56
31	" 6:55:00"	56.7	58.0	57	55
32	" 6:56:00"	57.4	60.3	60	55
33	" 6:57:00"	58.3	60.7	59	56
34	" 6:58:00"	58.3	59.5	59	56
35	" 6:59:00"	56.9	59.8	59	54
36	" 7:00:00"	57.7	59.5	58	56
37	" 7:01:00"	58.2	60.2	59	56
38	" 7:02:00"	58.0	60.0	59	56
39	" 7:03:00"	59.2	63.1	60	56
40	" 7:04:00"	58.1	60.1	59	57
41	" 7:05:00"	59.0	60.9	60	57
42	" 7:06:00"	59.1	60.4	60	58
43	" 7:07:00"	59.5	62.1	61	56
44	" 7:08:00"	60.9	66.3	61	59
45	" 7:09:00"	61.0	63.5	62	59
46	" 7:10:00"	60.6	66.0	62	57



47	"	7:11:00"	62.7	67.8	66	59
48	"	7:12:00"	60.3	62.1	61	58
49	"	7:13:00"	59.5	62.1	60	57
50	"	7:14:00"	60.4	62.7	61	59
51	"	7:15:00"	60.0	63.2	61	58
52	"	7:16:00"	58.9	60.2	59	57
53	"	7:17:00"	60.1	61.9	61	59
54	"	7:18:00"	59.8	61.5	60	58
55	"	7:19:00"	60.0	63.8	61	58
56	"	7:20:00"	58.9	59.9	59	58
57	"	7:21:00"	57.7	59.3	58	55
58	"	7:22:00"	61.7	69.1	65	58
59	"	7:23:00"	58.7	61.2	59	57
60	"	7:24:00"	59.3	61.3	60	57
61	"	7:25:00"	59.2	60.0	59	58
62	"	7:26:00"	59.1	60.1	59	58
63	"	7:27:00"	60.5	62.5	61	59
64	"	7:28:00"	58.9	60.6	60	57
65	"	7:29:00"	58.6	59.9	59	56
66	"	7:30:00"	60.0	62.6	61	57
67	"	7:31:00"	59.3	62.8	60	58
68	"	7:32:00"	59.0	60.7	60	57
69	"	7:33:00"	59.3	62.1	60	58
70	"	7:34:00"	59.4	61.7	60	58
71	"	7:35:00"	60.1	63.2	62	58
72	"	7:36:00"	59.7	61.3	60	58
73	"	7:37:00"	59.8	60.8	60	58
74	"	7:38:00"	58.6	61.2	60	57
75	"	7:39:00"	61.5	64.9	63	59
76	"	7:40:00"	60.0	61.7	60	59
77	"	7:41:00"	59.7	60.6	60	59
78	"	7:42:00"	59.3	60.6	60	58
79	"	7:43:00"	58.8	60.9	60	57
80	"	7:44:00"	61.1	63.2	62	59
81	"	7:45:00"	60.7	62.9	61	59
82	"	7:46:00"	59.9	61.1	60	58
83	"	7:47:00"	60.0	62.0	61	58
84	"	7:48:00"	59.3	62.1	61	57
85	"	7:49:00"	56.8	58.2	57	55
86	"	7:50:00"	57.1	59.3	58	55
87	"	7:51:00"	56.9	58.9	57	55
88	"	7:52:00"	60.8	65.6	63	57
89	"	7:53:00"	59.1	64.6	60	57
90	"	7:54:00"	58.9	60.2	59	58
91	"	7:55:00"	57.6	58.2	58	56
92	"	7:56:00"	57.0	59.3	58	55
93	"	7:57:00"	58.3	62.3	60	55
94	"	7:58:00"	55.7	57.8	56	55
95	"	7:59:00"	57.6	60.2	58	56
96	"	8:00:00"	56.0	57.7	57	55
97	"	8:01:00"	55.5	57.9	57	53
98	"	8:02:00"	57.8	61.5	60	54
99	"	8:03:00"	58.8	63.6	61	57
100	"	8:04:00"	56.5	57.7	57	55
101	"	8:05:00"	58.2	62.3	60	55
102	"	8:06:00"	60.1	62.6	61	58
103	"	8:07:00"	58.0	62.0	58	56
104	"	8:08:00"	57.6	58.9	58	57

105	"	8:09:00"	58.2	59.8	59	57
106	"	8:10:00"	59.2	62.1	61	56
107	"	8:11:00"	60.4	63.2	62	58
108	"	8:12:00"	56.9	58.9	58	55
109	"	8:13:00"	57.2	60.0	58	55
110	"	8:14:00"	56.9	59.1	57	56
111	"	8:15:00"	58.4	60.8	59	57
112	"	8:16:00"	57.5	61.7	59	55
113	"	8:17:00"	57.4	59.0	58	56
114	"	8:18:00"	56.7	59.9	57	55
115	"	8:19:00"	57.5	59.3	58	56
116	"	8:20:00"	56.8	57.9	57	56
117	"	8:21:00"	57.0	65.2	57	55
118	"	8:22:00"	57.5	60.0	58	56
119	"	8:23:00"	56.1	58.1	56	55
120	"	8:24:00"	56.6	59.4	57	55
121	"	8:25:00"	57.1	60.4	59	54
122	"	8:26:00"	59.4	65.4	61	57
123	"	8:27:00"	59.1	60.4	59	58
124	"	8:28:00"	58.4	61.1	59	57
125	"	8:29:00"	58.1	60.2	59	56
126	"	8:30:00"	59.5	61.6	61	57
127	"	8:31:00"	58.9	61.7	59	57
128	"	8:32:00"	66.2	71.6	69	58
129	"	8:33:00"	59.2	62.4	60	57
130	"	8:34:00"	58.9	60.6	59	57
131	"	8:35:00"	57.2	58.5	58	56
132	"	8:36:00"	57.6	60.8	60	55
133	"	8:37:00"	57.4	67.0	58	55
134	"	8:38:00"	56.3	59.9	57	54
135	"	8:39:00"	58.4	60.4	59	56
136	"	8:40:00"	56.5	57.2	57	56
137	"	8:41:00"	57.7	59.6	58	56
138	"	8:42:00"	58.7	59.6	59	58
139	"	8:43:00"	58.4	61.1	59	57
140	"	8:44:00"	59.0	60.3	59	58
141	"	8:45:00"	58.2	62.2	59	56
142	"	8:46:00"	57.5	61.1	58	56
143	"	8:47:00"	60.8	66.8	63	58
144	"	8:48:00"	59.9	63.1	61	58
145	"	8:49:00"	59.6	61.1	60	59
146	"	8:50:00"	58.9	61.8	60	57
147	"	8:51:00"	59.7	64.2	60	58
148	"	8:52:00"	59.6	61.5	60	58
149	"	8:53:00"	57.4	61.4	59	55
150	"	8:54:00"	57.7	59.1	58	56
151	"	8:55:00"	59.3	61.8	60	57
152	"	8:56:00"	59.5	60.7	60	59
153	"	8:57:00"	60.3	64.5	63	58
154	"	8:58:00"	60.7	64.2	62	58
155	"	8:59:00"	60.7	65.4	63	58
156	"	9:00:00"	58.9	61.9	59	57
157	"	9:01:00"	59.1	61.0	60	58
158	"	9:02:00"	59.6	61.3	60	58
159	"	9:03:00"	57.9	59.6	58	57
160	"	9:04:00"	57.9	58.9	58	57
161	"	9:05:00"	58.1	60.2	58	56
162	"	9:06:00"	58.7	61.4	60	57

163	" 9:07:00"	59.7	65.0	60	58
164	" 9:08:00"	57.5	59.0	58	56
165	" 9:09:00"	58.4	59.4	59	57
166	" 9:10:00"	59.1	60.7	60	58
167	" 9:11:00"	58.5	59.8	59	57
168	" 9:12:00"	58.7	60.7	60	56
169	" 9:13:00"	58.6	60.2	59	57
170	" 9:14:00"	58.1	61.8	59	56
171	" 9:15:00"	57.5	59.2	58	56
172	" 9:16:00"	57.2	61.1	59	55
173	" 9:17:00"	56.2	58.7	57	54
174	" 9:18:00"	56.9	59.6	58	55
175	" 9:19:00"	58.0	59.5	59	56
176	" 9:20:00"	58.5	62.1	60	56
177	" 9:21:00"	57.0	59.4	58	54
178	" 9:22:00"	59.3	63.5	62	57
179	" 9:23:00"	59.3	61.1	60	56
180	" 9:24:00"	59.5	61.7	60	58
181	" 9:25:00"	61.0	66.8	64	57
182	" 9:26:00"	58.0	59.9	59	56
183	" 9:27:00"	58.1	59.4	59	56
184	" 9:28:00"	58.8	64.6	60	56
185	" 9:29:00"	57.8	59.7	59	56
186	" 9:30:00"	58.4	62.1	60	56
187	" 9:31:00"	60.0	62.0	61	58
188	" 9:32:00"	58.9	61.2	60	57
189	" 9:33:00"	58.2	60.9	59	57
190	" 9:34:00"	59.5	62.3	60	58
191	" 9:35:00"	58.8	61.0	59	57
192	" 9:36:00"	60.2	61.4	61	59
193	" 9:37:00"	59.2	61.4	60	58
194	" 9:38:00"	60.5	62.3	61	59
195	" 9:39:00"	59.8	61.7	60	58
196	" 9:40:00"	59.7	61.8	61	58
197	" 9:41:00"	58.6	61.0	60	57
198	" 9:42:00"	68.2	74.6	72	57
199	" 9:43:00"	60.6	66.5	61	59
200	" 9:44:00"	59.2	60.5	60	58
201	" 9:45:00"	58.9	60.2	60	56
202	" 9:46:00"	60.6	63.6	62	57
203	" 9:47:00"	59.8	60.7	60	58
204	" 9:48:00"	60.2	63.6	61	59
205	" 9:49:00"	59.9	61.4	60	58
206	" 9:50:00"	60.2	64.3	61	58
207	" 9:51:00"	61.3	64.6	63	58
208	" 9:52:00"	59.6	61.0	60	58
209	" 9:53:00"	61.3	63.6	62	60
210	" 9:54:00"	61.1	63.3	62	58
211	" 9:55:00"	58.6	61.1	60	56
212	" 9:56:00"	58.4	60.8	60	57
213	" 9:57:00"	59.6	60.8	60	56
214	" 9:58:00"	60.1	61.8	61	58
215	" 9:59:00"	62.1	66.3	63	60
216	"10:00:00"	61.0	64.0	62	59
217	"10:01:00"	60.8	62.6	62	59
218	"10:02:00"	60.1	61.9	61	59
219	"10:03:00"	58.5	59.7	59	56
220	"10:04:00"	58.2	60.0	59	57

221	"10:05:00"	59.2	60.6	60	57
222	"10:06:00"	58.9	61.4	60	55
223	"10:07:00"	60.0	63.3	61	58
224	"10:08:00"	59.8	61.7	61	58
225	"10:09:00"	59.1	60.5	60	58
226	"10:10:00"	59.8	60.9	60	59
227	"10:11:00"	60.6	66.1	62	58
228	"10:12:00"	70.7	76.9	75	60
229	"10:13:00"	60.6	62.2	61	59
230	"10:14:00"	59.3	61.1	60	57
231	"10:15:00"	58.7	62.1	60	57
232	"10:16:00"	59.0	60.8	60	58
233	"10:17:00"	58.9	60.9	60	57
234	"10:18:00"	58.7	60.6	59	56
235	"10:19:00"	59.2	62.9	61	56
236	"10:20:00"	59.0	61.7	60	57
237	"10:21:00"	58.9	61.1	60	57
238	"10:22:00"	66.3	78.3	66	58
239	"10:23:00"	63.5	70.0	68	58
240	"10:24:00"	62.4	68.5	65	57
241	"10:25:00"	62.8	67.4	65	59
242	"10:26:00"	60.7	64.2	63	58
243	"10:27:00"	59.9	63.3	61	58
244	"10:28:00"	60.3	64.6	62	57
245	"10:29:00"	57.7	59.6	58	55
246	"10:30:00"	57.5	60.3	59	55
247	"10:31:00"	58.8	60.1	59	57
248	"10:32:00"	61.4	64.7	63	59
249	"10:33:00"	62.1	67.0	65	59
250	"10:34:00"	60.0	63.4	61	58
251	"10:35:00"	60.5	62.1	61	59
252	"10:36:00"	59.8	61.5	60	58
253	"10:37:00"	59.7	61.9	61	58
254	"10:38:00"	60.9	65.1	62	58
255	"10:39:00"	61.1	63.9	62	58
256	"10:40:00"	60.1	66.6	63	57
257	"10:41:00"	63.6	74.8	65	59
258	"10:42:00"	65.9	79.3	66	61
259	"10:43:00"	63.4	72.8	67	58
260	"10:44:00"	62.8	71.1	65	58
261	"10:45:00"	63.5	66.8	65	59
262	"10:46:00"	66.7	69.0	67	65
263	"10:47:00"	63.8	65.6	64	62
264	"10:48:00"	61.3	62.8	62	60
265	"10:49:00"	61.2	63.4	62	59
266	"10:50:00"	65.4	67.8	67	63
267	"10:51:00"	63.8	67.5	66	56
268	"10:52:00"	57.9	59.3	59	56
269	"10:53:00"	56.7	59.1	58	55
270	"10:54:00"	57.2	58.7	58	56
271	"10:55:00"	57.5	60.1	59	55
272	"10:56:00"	58.9	61.0	60	57
273	"10:57:00"	58.5	61.0	59	56
274	"10:58:00"	58.4	59.9	59	57
275	"10:59:00"	58.2	61.7	59	56
276	"11:00:00"	57.6	61.0	59	55
277	"11:01:00"	57.9	62.1	60	55
278	"11:02:00"	57.4	60.0	58	55

279	"11:03:00"	57.1	59.1	58	54
280	"11:04:00"	58.9	62.8	60	56
281	"11:05:00"	58.6	60.2	59	57
282	"11:06:00"	58.8	61.1	60	56
283	"11:07:00"	58.5	61.6	59	57
284	"11:08:00"	59.2	63.7	60	57
285	"11:09:00"	58.4	60.8	59	57
286	"11:10:00"	56.1	57.6	57	55
287	"11:11:00"	58.1	63.5	60	54
288	"11:12:00"	56.2	61.2	57	55
289	"11:13:00"	57.4	59.9	59	54
290	"11:14:00"	57.2	59.0	58	55
291	"11:15:00"	63.7	69.6	67	58
292	"11:16:00"	58.7	61.1	59	57
293	"11:17:00"	59.5	63.8	61	56
294	"11:18:00"	56.9	58.8	58	54
295	"11:19:00"	58.0	60.4	59	55
296	"11:20:00"	58.6	61.0	60	57
297	"11:21:00"	61.0	64.3	63	58
298	"11:22:00"	58.6	62.1	59	57
299	"11:23:00"	55.6	58.9	57	53
300	"11:24:00"	56.7	58.0	57	55
301	"11:25:00"	57.4	61.2	59	55
302	"11:26:00"	58.0	60.8	59	55
303	"11:27:00"	55.9	58.0	57	53
304	"11:28:00"	57.1	59.1	58	55
305	"11:29:00"	56.9	59.0	58	52
306	"11:30:00"	57.0	60.2	58	55
307	"11:31:00"	58.2	60.4	60	56
308	"11:32:00"	61.2	67.4	65	57
309	"11:33:00"	57.3	60.2	59	54
310	"11:34:00"	58.6	60.2	59	56
311	"11:35:00"	57.8	60.1	59	55
312	"11:36:00"	56.7	58.6	58	55
313	"11:37:00"	58.3	64.1	59	56
314	"11:38:00"	61.0	68.8	64	57
315	"11:39:00"	57.6	63.5	61	53
316	"11:40:00"	59.0	62.8	60	56
317	"11:41:00"	58.6	60.9	60	56
318	"11:42:00"	57.6	60.4	59	54
319	"11:43:00"	57.6	61.0	59	55
320	"11:44:00"	58.2	62.0	60	54
321	"11:45:00"	58.0	59.8	59	56
322	"11:46:00"	58.7	63.1	60	56
323	"11:47:00"	56.4	59.4	58	53
324	"11:48:00"	59.6	62.5	61	57
325	"11:49:00"	59.3	62.5	60	57
326	"11:50:00"	58.4	60.7	59	57
327	"11:51:00"	57.6	60.2	59	54
328	"11:52:00"	60.1	66.3	62	57
329	"11:53:00"	58.9	63.8	61	56
330	"11:54:00"	60.2	63.1	61	57
331	"11:55:00"	58.9	61.9	60	57
332	"11:56:00"	58.7	61.7	60	57
333	"11:57:00"	60.6	62.9	62	58
334	"11:58:00"	61.8	71.1	63	55
335	"11:59:00"	57.2	61.2	59	55
336	"12:00:00"	57.3	60.7	59	55

337	"12:01:00"	58.6	62.3	59	57
338	"12:02:00"	58.2	60.2	59	56
339	"12:03:00"	59.3	62.1	61	57
340	"12:04:00"	59.2	64.4	62	55
341	"12:05:00"	58.6	63.8	60	56
342	"12:06:00"	59.3	63.6	61	57
343	"12:07:00"	58.8	62.8	61	56
344	"12:08:00"	58.6	61.2	60	55
345	"12:09:00"	59.0	61.2	60	56
346	"12:10:00"	57.4	59.2	58	56
347	"12:11:00"	59.0	60.8	60	57
348	"12:12:00"	58.6	60.1	59	57
349	"12:13:00"	59.3	61.6	60	56
350	"12:14:00"	60.1	62.5	61	58
351	"12:15:00"	58.3	61.1	60	56
352	"12:16:00"	58.5	63.3	59	57
353	"12:17:00"	58.6	61.6	60	56
354	"12:18:00"	58.2	62.2	59	57
355	"12:19:00"	57.8	59.9	58	56
356	"12:20:00"	58.6	61.7	60	55
357	"12:21:00"	57.0	59.9	58	55
358	"12:22:00"	57.2	59.3	58	56
359	"12:23:00"	57.3	59.4	59	54
360	"12:24:00"	57.5	59.5	59	54
361	"12:25:00"	57.8	60.5	59	54
362	"12:26:00"	61.9	69.9	67	54
363	"12:27:00"	58.1	60.2	59	56
364	"12:28:00"	57.9	60.1	59	56
365	"12:29:00"	59.0	62.0	61	56
366	"12:30:00"	58.4	61.0	59	57
367	"12:31:00"	57.4	60.9	59	55
368	"12:32:00"	58.7	60.4	60	57
369	"12:33:00"	57.5	59.5	58	55
370	"12:34:00"	56.9	59.7	58	54
371	"12:35:00"	57.2	59.3	59	55
372	"12:36:00"	59.7	62.5	61	58
373	"12:37:00"	61.7	68.8	65	57
374	"12:38:00"	58.9	61.1	60	57
375	"12:39:00"	58.4	59.9	59	57
376	"12:40:00"	58.1	59.9	59	56
377	"12:41:00"	58.5	63.3	59	56
378	"12:42:00"	59.4	64.2	60	56
379	"12:43:00"	60.7	66.1	64	55
380	"12:44:00"	62.2	66.8	64	58
381	"12:45:00"	64.8	70.3	68	57
382	"12:46:00"	59.3	61.7	60	57
383	"12:47:00"	56.7	61.4	59	53
384	"12:48:00"	58.5	64.7	60	54
385	"12:49:00"	60.2	62.3	61	58
386	"12:50:00"	59.7	63.3	61	56
387	"12:51:00"	57.3	60.2	59	54
388	"12:52:00"	57.4	59.6	58	55
389	"12:53:00"	57.1	58.7	58	55
390	"12:54:00"	57.3	61.2	59	55
391	"12:55:00"	59.3	61.6	60	57
392	"12:56:00"	58.2	61.5	60	56
393	"12:57:00"	58.3	61.6	60	56
394	"12:58:00"	57.0	59.0	58	55

395	"12:59:00"	56.9	58.9	58	55
396	"13:00:00"	56.5	59.1	58	52
397	"13:01:00"	57.9	60.9	59	55
398	"13:02:00"	58.3	61.7	59	56
399	"13:03:00"	58.8	63.2	60	55
400	"13:04:00"	57.9	59.8	59	55
401	"13:05:00"	57.0	59.9	59	53
402	"13:06:00"	56.6	59.8	58	52
403	"13:07:00"	57.3	59.4	58	56
404	"13:08:00"	58.5	61.6	60	55
405	"13:09:00"	59.1	61.3	60	56
406	"13:10:00"	57.9	61.1	60	56
407	"13:11:00"	57.1	59.4	58	54
408	"13:12:00"	59.8	65.4	61	56
409	"13:13:00"	58.5	61.0	60	56
410	"13:14:00"	59.8	61.9	60	58
411	"13:15:00"	59.4	61.6	60	58
412	"13:16:00"	56.3	58.8	57	54
413	"13:17:00"	59.3	63.3	62	57
414	"13:18:00"	66.1	74.6	71	57
415	"13:19:00"	58.6	60.5	59	56
416	"13:20:00"	60.8	65.6	63	57
417	"13:21:00"	61.4	62.6	61	60
418	"13:22:00"	61.5	63.8	63	59
419	"13:23:00"	67.5	71.9	70	63
420	"13:24:00"	72.9	75.3	74	71
421	"13:25:00"	74.4	75.8	75	73
422	"13:26:00"	74.7	76.3	75	72
423	"13:27:00"	69.1	72.8	71	64
424	"13:28:00"	63.1	64.9	63	61
425	"13:29:00"	60.6	63.5	62	59
426	"13:30:00"	59.6	61.7	60	58
427	"13:31:00"	60.3	62.0	61	58
428	"13:32:00"	57.2	60.9	60	54
429	"13:33:00"	58.6	60.9	59	56
430	"13:34:00"	62.6	63.6	63	61
431	"13:35:00"	69.4	75.1	73	63
432	"13:36:00"	76.7	79.8	78	73
433	"13:37:00"	77.5	79.4	79	73
434	"13:38:00"	73.0	76.4	75	68
435	"13:39:00"	64.0	67.9	66	62
436	"13:40:00"	62.9	66.2	64	60
437	"13:41:00"	63.1	64.2	63	62
438	"13:42:00"	66.5	69.8	68	63
439	"13:43:00"	73.9	77.9	76	69
440	"13:44:00"	77.9	80.4	79	75
441	"13:45:00"	75.3	78.2	76	74
442	"13:46:00"	85.6	89.4	88	79
443	"13:47:00"	81.1	85.7	84	76
444	"13:48:00"	70.4	75.7	73	66
445	"13:49:00"	64.5	67.6	65	62
446	"13:50:00"	75.7	80.4	79	69
447	"13:51:00"	81.3	86.0	85	75
448	"13:52:00"	83.8	87.0	85	77
449	"13:53:00"	81.6	87.8	86	75
450	"13:54:00"	77.3	79.8	78	75
451	"13:55:00"	70.6	77.0	76	57
452	"13:56:00"	76.1	82.5	81	59

453	"13:57:00"	83.4	89.5	88	77
454	"13:58:00"	85.7	90.9	90	78
455	"13:59:00"	84.5	88.5	87	77
456	"14:00:00"	62.6	76.1	61	57
457	"14:01:00"	77.4	78.8	78	74
458	"14:02:00"	73.1	80.6	75	70
459	"14:03:00"	63.8	70.8	70	56
460	"14:04:00"	59.6	62.8	61	58
461	"14:05:00"	58.6	63.0	60	56
462	"14:06:00"	59.5	61.7	60	58
463	"14:07:00"	62.1	68.9	66	58
464	"14:08:00"	63.6	69.5	66	59
465	"14:09:00"	60.8	67.9	63	56
466	"14:10:00"	59.6	65.5	61	57
467	"14:11:00"	60.4	63.1	62	58
468	"14:12:00"	59.0	64.6	63	54
469	"14:13:00"	60.8	67.3	64	54
470	"14:14:00"	60.9	64.6	63	57
471	"14:15:00"	57.9	60.5	59	56
472	"14:16:00"	58.2	60.6	60	54
473	"14:17:00"	60.4	65.1	62	56
474	"14:18:00"	59.9	63.6	61	57
475	"14:19:00"	58.2	61.9	60	54
476	"14:20:00"	61.4	66.9	62	59
477	"14:21:00"	58.4	62.1	60	55
478	"14:22:00"	58.3	60.5	60	56
479	"14:23:00"	59.6	61.1	60	58
480	"14:24:00"	63.2	71.9	66	59
481	"14:25:00"	60.9	65.9	64	57
482	"14:26:00"	60.5	66.0	62	57
483	"14:27:00"	58.9	60.9	60	56
484	"14:28:00"	59.6	62.7	61	57
485	"14:29:00"	58.7	61.5	59	56
486	"14:30:00"	59.3	63.0	61	56
487	"14:31:00"	61.3	73.7	63	56
488	"14:32:00"	60.0	62.8	61	58
489	"14:33:00"	57.7	59.7	59	56
490	"14:34:00"	57.6	61.0	59	54
491	"14:35:00"	58.9	60.8	60	57
492	"14:36:00"	59.6	61.9	61	57
493	"14:37:00"	59.2	63.6	60	57
494	"14:38:00"	57.8	64.5	59	55
495	"14:39:00"	58.0	60.1	59	55
496	"14:40:00"	59.0	60.6	60	57
497	"14:41:00"	58.8	60.7	59	57
498	"14:42:00"	58.4	64.4	61	54
499	"14:43:00"	59.5	62.7	61	58
500	"14:44:00"	59.6	62.5	61	56
501	"14:45:00"	60.0	64.2	61	57
502	"14:46:00"	58.6	61.6	60	57
503	"14:47:00"	58.7	69.8	60	54
504	"14:48:00"	59.2	62.7	61	56
505	"14:49:00"	58.8	61.0	60	57
506	"14:50:00"	58.3	62.1	60	54
507	"14:51:00"	60.4	63.1	62	58
508	"14:52:00"	60.2	62.4	61	58
509	"14:53:00"	58.7	61.1	60	56
510	"14:54:00"	58.5	61.0	59	56

511	"14:55:00"	59.5	62.2	61	56
512	"14:56:00"	61.9	64.6	63	60
513	"14:57:00"	59.5	62.8	61	58
514	"14:58:00"	59.1	61.1	60	54
515	"14:59:00"	58.9	61.6	60	54
516	"15:00:00"	58.8	61.4	59	57
517	"15:01:00"	59.5	61.6	61	56
518	"15:02:00"	58.5	60.7	60	55
519	"15:03:00"	58.8	64.8	60	56
520	"15:04:00"	60.0	62.4	60	58
521	"15:05:00"	59.9	62.0	61	58
522	"15:06:00"	58.8	62.8	61	54
523	"15:07:00"	61.3	66.4	63	59
524	"15:08:00"	58.8	62.1	60	55
525	"15:09:00"	58.3	60.4	59	56
526	"15:10:00"	59.4	60.7	60	58
527	"15:11:00"	59.2	62.1	60	56
528	"15:12:00"	58.7	61.2	60	56
529	"15:13:00"	62.4	65.6	64	59
530	"15:14:00"	62.1	66.1	63	60
531	"15:15:00"	60.6	62.7	62	59
532	"15:16:00"	61.0	63.8	62	59
533	"15:17:00"	62.0	67.2	65	59
534	"15:18:00"	62.8	67.6	65	60
535	"15:19:00"	58.9	60.8	60	56
536	"15:20:00"	58.9	60.8	60	57
537	"15:21:00"	59.0	60.5	60	58
538	"15:22:00"	59.5	61.7	60	58
539	"15:23:00"	60.8	62.5	61	58
540	"15:24:00"	61.0	63.4	62	59
541	"15:25:00"	59.6	61.0	60	56
542	"15:26:00"	59.3	62.4	60	56
543	"15:27:00"	58.1	61.7	59	55
544	"15:28:00"	60.3	64.7	62	58
545	"15:29:00"	59.9	61.9	61	58
546	"15:30:00"	60.0	63.4	61	58
547	"15:31:00"	59.5	63.2	61	57
548	"15:32:00"	59.4	62.1	60	58
549	"15:33:00"	59.4	60.8	60	57
550	"15:34:00"	59.1	61.3	60	57
551	"15:35:00"	59.3	62.2	61	57
552	"15:36:00"	60.3	61.9	61	59
553	"15:37:00"	59.1	62.0	60	57
554	"15:38:00"	60.0	60.9	60	58
555	"15:39:00"	60.2	62.5	61	58
556	"15:40:00"	60.7	62.7	61	59
557	"15:41:00"	58.1	62.0	60	53
558	"15:42:00"	59.7	61.7	60	58
559	"15:43:00"	60.5	62.2	61	59
560	"15:44:00"	59.6	61.9	60	58
561	"15:45:00"	59.5	62.3	60	58
562	"15:46:00"	60.1	61.7	61	58
563	"15:47:00"	60.7	62.7	61	59
564	"15:48:00"	59.2	63.5	61	56
565	"15:49:00"	59.0	60.7	60	56
566	"15:50:00"	62.2	66.6	64	59
567	"15:51:00"	58.6	61.2	60	56
568	"15:52:00"	59.5	61.2	60	58

569	"15:53:00"	60.3	63.2	62	58
570	"15:54:00"	59.3	61.7	60	57
571	"15:55:00"	57.3	59.8	58	55
572	"15:56:00"	59.4	62.1	61	56
573	"15:57:00"	59.7	61.7	60	58
574	"15:58:00"	59.4	60.8	60	57
575	"15:59:00"	57.0	58.9	58	55
576	"16:00:00"	58.6	61.9	60	56
577	"16:01:00"	59.2	64.0	60	57
578	"16:02:00"	58.9	60.6	60	57
579	"16:03:00"	59.5	63.1	61	57
580	"16:04:00"	58.6	59.6	59	57
581	"16:05:00"	58.0	60.3	59	54
582	"16:06:00"	59.1	60.5	60	57
583	"16:07:00"	66.1	72.6	71	57
584	"16:08:00"	60.8	69.0	63	57
585	"16:09:00"	58.1	61.4	59	56
586	"16:10:00"	57.9	59.1	58	57
587	"16:11:00"	58.2	60.2	59	57
588	"16:12:00"	59.1	60.8	60	58
589	"16:13:00"	59.4	61.0	60	58
590	"16:14:00"	58.8	60.1	59	57
591	"16:15:00"	58.5	60.7	59	57
592	"16:16:00"	60.4	63.4	61	59
593	"16:17:00"	59.8	61.2	60	58
594	"16:18:00"	59.0	60.7	60	57
595	"16:19:00"	59.3	61.1	60	57
596	"16:20:00"	59.7	61.1	60	59
597	"16:21:00"	60.2	63.9	62	59
598	"16:22:00"	59.7	63.8	61	58
599	"16:23:00"	58.4	59.9	59	53
600	"16:24:00"	57.5	59.2	58	55
601	"16:25:00"	58.2	60.6	59	56
602	"16:26:00"	59.2	60.8	60	57
603	"16:27:00"	58.1	60.2	59	55
604	"16:28:00"	57.3	59.9	58	55
605	"16:29:00"	59.1	61.1	59	58
606	"16:30:00"	59.9	61.7	61	59
607	"16:31:00"	58.8	60.5	59	57
608	"16:32:00"	60.0	62.5	61	59
609	"16:33:00"	59.0	60.9	60	57
610	"16:34:00"	58.6	60.2	59	57
611	"16:35:00"	59.3	62.9	60	57
612	"16:36:00"	70.6	84.3	76	57

--- AMPLITUDE DISTRIBUTION REPORT ---

"TOTAL SAMPLES = 293708

"dB"	"SAMPLES"	"% OF TOTAL"
51	45 .	0.02
52	178 .	0.06
53	1285 +	0.44
54	4703 **	1.60
55	12994 ****	4.42
56	25185 *****	8.57
57	45752 *****	15.58
58	58489 *****	19.91
59	61120 *****	20.81
60	36449 *****	12.41
61	16306 *****	5.55
62	6820 **	2.32
63	4384 *	1.49
64	2749 *	0.94
65	1891 *	0.64
66	1666 *	0.57
67	879 +	0.30
68	685 +	0.23
69	737 +	0.25
70	736 +	0.25
71	738 +	0.25
72	570 +	0.19
73	711 +	0.24
74	1106 +	0.38
75	1274 +	0.43
76	943 +	0.32
77	936 +	0.32
78	1066 +	0.36
79	869 +	0.30
80	468 +	0.16
81	255 .	0.09
82	211 .	0.07
83	233 .	0.08
84	209 .	0.07
85	425 +	0.14
86	151 .	0.05
87	153 .	0.05
88	178 .	0.06
89	65 .	0.02
90	94 .	0.03

"Ln( 0.0) = 90dB

"Ln(10.0) = 62dB

"Ln(50.0) = 58dB

"Ln(99.9) = 53dB

"	NO	80.0dB	90.0dB
"	CUTOFF	CUTOFF	CUTOFF
"Leq	66.5dB	64.0dB	55.1dB
"Ldod	63.5dB	56.9dB	43.6dB
"Losha	62.0dB	49.9dB	43.0dB
"Leq(6)	61.2dB	43.0dB	43.0dB