APPENDIX J:
Noise and Vibration Study (Terra Mechanics, Inc.)

Terra-Mechanics, Inc.

May 28, 2019

Mr. Benjamin T. Guthrie, P.E.
Traffic Planning and Design, Inc.
1025 Andrew Drive
Suite 110
West Chester, PA 19380

Re: Vibration and Noise Consulting Services, Borough of Lewisburg – A public Safety-Public Health, Environmental, and Transportation "Corridor Study" for Market Street, Lewisburg, PA - TMI Project No. 2111-19 – Part 1 – Vibration Data Report & Part 2 Noise Level Report

Dear Mr. Guthrie:

Terra-Mechanics, Inc. (TMI) is pleased to submit this report on the representative traffic vibration and sound level monitoring conducted on April 8, 2019 through April 17, 2019 at the above referenced project. These services are being provided in accordance with our proposal of February 12, 2019.

Please do not hesitate to contact us if we can be further assistance.

Sincerely,

TERRA-MECHANICS, INC.

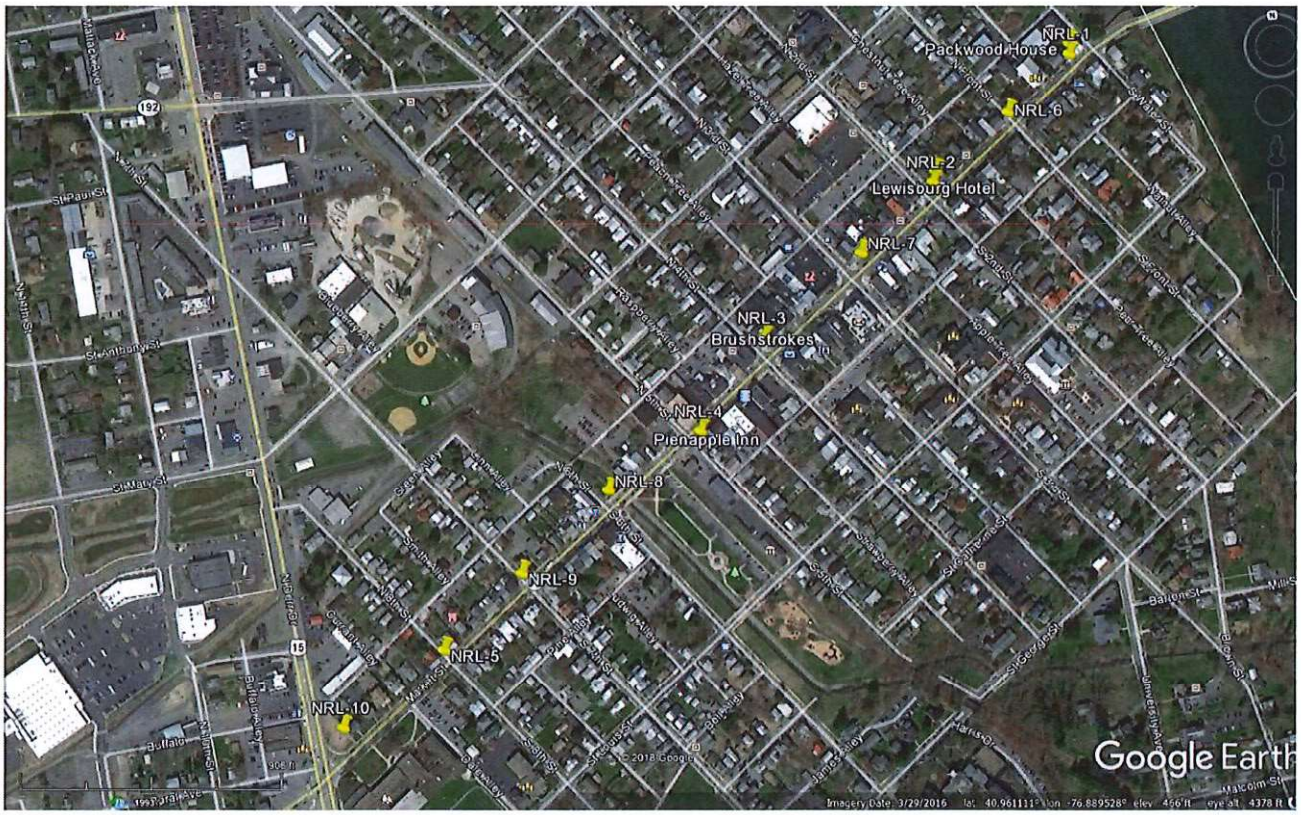
David Harrison
Vice President/Chief Operating officer
Seismic & Explosive Engineer
B.S. Mining Engineering

Terra-Mechanics, Inc.

Traffic Planning and Design, Inc.
Borough of Lewisburg – A Public Safety-Public Health, Environmental, and Transportation "Corridor Study" for Market Street, Lewisburg, PA

Traffic Vibration & Noise Study
Part 1 – Vibration Data Report &
Part 2 – Representative Noise Level Report

TMI Project No. 2111-19



1339 Middle Road Ext., Suite A, Gibsonia, PA 15044 Phone: 724.449.6250 Fax: 724.449.6254
www.terra-mechanics.com

Traffic Vibration & Noise Study
Part 1 – Vibration Data Report

VIBRATION STUDY

Mr. Benjamin T. Guthrie, P.E.
Traffic Planning and Design, Inc.
1025 Andrew Drive
Suite 110
Chester, PA 19380

Re: Part 1 – Vibration Data Report
Borough of Lewisburg – A Public Safety-
Public Health, Environmental, and West
Transportation "Corridor Study"
Market Street, Lewisburg, PA
TMI Project No. 2111-19

Purpose

The purpose of this study was to record, document, quantify and summarize the vibration levels experienced at various areas and historical locations along the Market Street corridor. Data was collected at eleven (11) locations along the Market Street corridor in downtown Lewisburg, Pennsylvania to evaluate the levels of traffic vibration experienced in and around the buildings along the route. This report presents the collected seismograph data collected from April 8, 2019 to April 17, 2019

Vibration Control Standards

Residential and Commercial Structures

Seismological research by the United States Bureau of Mines (1980) and others has led to the establishment of criteria relating the occurrence of damage to structures to vibration intensities and frequencies. The intensity is typically measured as particle velocity, or the rate-of-motion of an oscillating particle within a mass; usually the ground.

The USBM criteria recommends a limit for transient vibrations of 0.50 ips at frequencies below 10 Hz for plaster, 0.75 ips at frequencies below 12 Hertz for drywall, a sliding scale between 0.75 and 2.0 ips for vibrations at frequencies between 12 and 40 Hz, and a constant 2.0 ips at frequencies above 40 Hz to protect drywall and plaster from threshold damage. These criteria are from the variable frequency versus particle velocity criteria recommended by the USBM RI 8507, (1980) and are shown in Figure 1.

These criteria are for prevention of threshold damage, based upon PPV and vibration frequency. Threshold damage is defined as "loosening of paint; small plaster cracks at joints between construction elements; lengthening of old cracks." Damage to engineered structures, heavy commercial buildings, buried utilities, or higher levels of damage to residential structures would require significantly higher levels than the criteria stated above. The USBM has published that minor and major damage to drywall and plaster or cracking of masonry or concrete would require 3.0 to 10.0 ips.

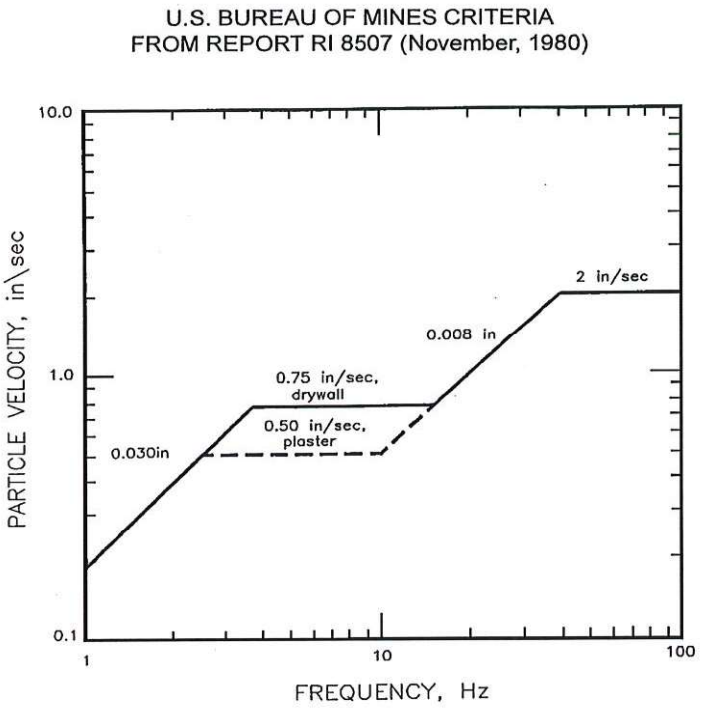


Figure 1
US Bureau of Mines Frequency vs. PPV criteria

Seismograph Equipment

Instantel® MiniMate Plus ™ and Micromate ™ seismographs were utilized during this study. The seismographs recorded on four channels. Three orthogonal channels measured ground motion, with a peak particle velocity (PPV) range of 0.005 to 10.0 inches per second (in/sec) at 2 to 250 Hz. These channels yielded a complete time history of the ground motion. One channel measured air overpressure, detected by the standard linear microphone up to 148 dB (L) (0.07 psi) in a frequency range of 2 to 250 Hz. All channels sampled at a rate of 1,024 samples per second. The seismographs were shake table calibrated within the last year by the manufacturer and certificates are on file.

Human Response

People can feel very small vibration that is far below the safe levels discussed. They become alarmed and fear that the vibration may cause damage. Three levels of Human Response have been described.

Response Level	Velocity in./second
Perceptible	.02 - .04
Troublesome	.20
Severe	.70

A typical response of a building occupant to noticeable vibration effects is to be concerned about the effect of the vibrations on the building they occupy. This concern usually causes the occupant to inspect the building more closely than usual and in doing so notice pre-existing defects for the first time. Steady state vibrations will usually be more perceptible and less tolerable to building occupants than impulsive vibrations simply due to the duration of exposure to the vibration.

Vibration Monitoring Locations and Data

Seismographs were placed at a total of (11) locations, five (5) of which were put in place for approximately one (1) week. The six (6) remaining locations were samplings of vibrations.

Seismograph locations and peak data for each station are summarized in Table 1. The analyzed seismograph records (histograms for each location) are attached and are organized by location, date and time.

Seismograph Locations

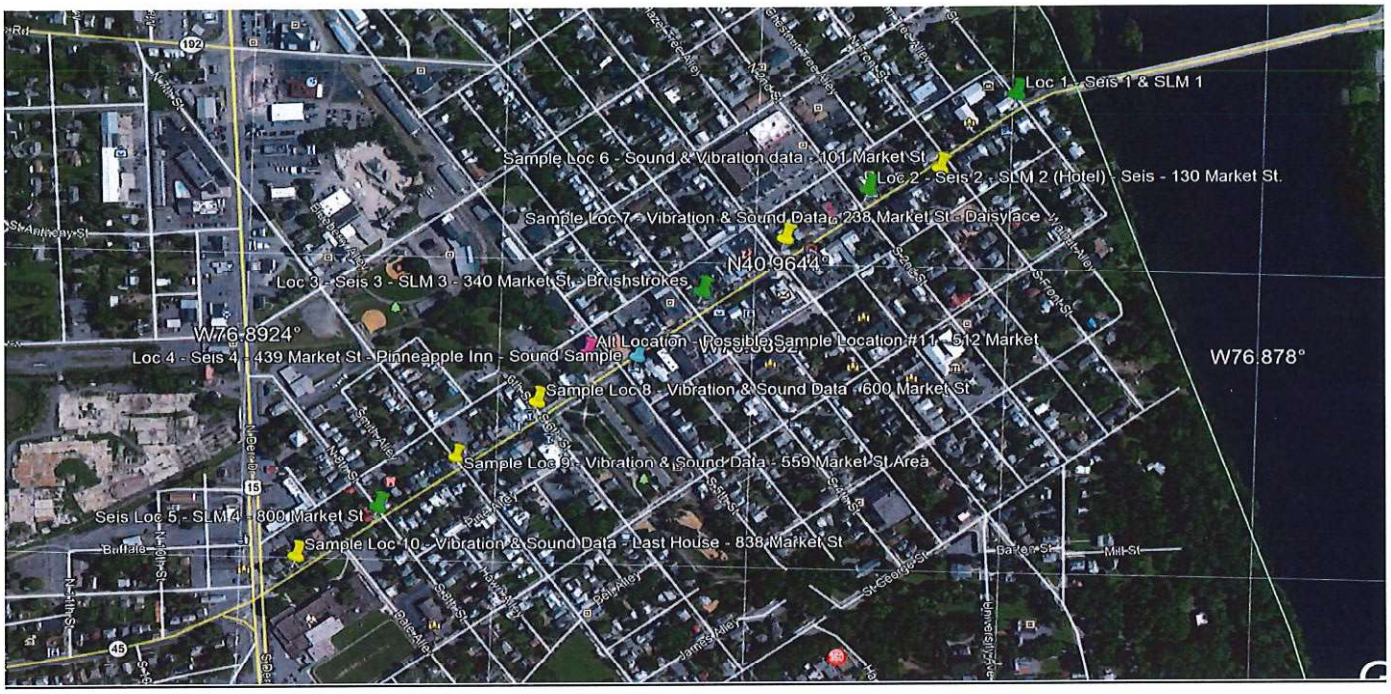


Table 1
Summary of Seismic Data

Seismograph Location No.	Seismograph Serial No.	Max PPV (ips)/Predominant Frequency (Hertz)
1 –Basement – Packwood House – Market Street	BE18191	0.01/>100
2 –Basement –130 Market Street – Basement Front Wall	BE13117	0.015/28
2A – 2nd Floor – 130 Market – Front Windowsill	UM11719	0.052/64
3 – Basement – 340 Market Street - Brushstrokes	BE9439	0.035/>100
3A – 2nd Floor – 340 Market Street - Brushstrokes	BE14036	0.045/32
4 - Basement - 439 Market Street - Pineapple Inn	BE6907	0.02/20[1]
5 – 2nd Floor - 800 Market Street	UM14133/BE12599	0.055/>100

Seismograph Location No.	Seismograph Serial No.	Max PPV (ips)/Predominant Frequency (Hertz)
5A - Basement - 800 Market Street	BE12599	0.015/43
5B - Basement – 738 Market Street	BE12599	0.01/>100
6 – 100 Market Street – Sidewalk (Roaming Unit)	BA10895	0.07/<1
7 – 238 Market Street-Daisylace Boutique – Sidewalk (Roaming Unit)	BA10895	0.01/>100
8 - 600 Market Street Towne Tavern – Sidewalk (Roaming Unit)	BE14036	0.015/51
9 - 7th Street & Market Street - 639 Market Street Area – Sidewalk (Roaming Unit)	UM11402	0.028/18
10 – 838 Market Street-– Sidewalk (Roaming Unit)	BE14036	0.035/14
11 – 512 Market Street – Amami Shop	UM11402	0.056/21

1False trigger caused by the owner checking the unit per our request, due to a power loss.

The maximum measured vibration recorded at Location 1 was recorded on April 8-10, 2019 and was 0.010 inches per second (ips) at a frequency of >100 Hertz. A vibration limit of 2.00 inches is recommended for >100 hertz. This recorded level was 0.5 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 2 was recorded on April 15, 2019 at 3:14 AM and was 0.015 inches per second (ips) at a frequency of 28 Hertz. A vibration limit of 1.40 inches is recommended for 28 hertz. This recorded level was 1.0 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 2A was recorded on April 14, 2019 at 12:33 PM and was 0.052 inches per second (ips) at a frequency of 64 Hertz. A vibration limit of 2.00 inches is recommended for 64 hertz. This recorded level was 3.0 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 3 was recorded on April 9, 2019 at 2:53 PM and was 0.035 inches per second (ips) at a frequency of >100 Hertz. A vibration limit of 2.00 inches is recommended for >100 hertz. This recorded level was 2.0 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 3A was recorded on April 10, 2019 at 10:59 AM and was 0.045 inches per second (ips) at a frequency of 32 Hertz. A vibration limit of 1.60 inches is recommended for 32 hertz. This recorded level was 3.0 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 4 was recorded on April 11, 2019 at5:04 AM and was 0.020 inches per second (ips) at a frequency of 20 Hertz. A vibration limit of 1.00 inches is recommended for 20 hertz. This recorded level was 2.0 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 5 was recorded on April 15, 2019 at 7:05 AM and was 0.055 inches per second (ips) at a frequency of >100 Hertz. A vibration limit of 2.00 inches is recommended for >100 hertz. This recorded level was 3.0 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 5A was recorded on April 10, 2019 at 9:59 AM and was 0.015 inches per second (ips) at a frequency of 43 Hertz. A vibration limit of 2.00 inches is recommended for 43 hertz. This recorded level was 1.0 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 5B was recorded on April 8-9, 2019 and was 0.010 inches per second (ips) at a frequency of >100 Hertz. A vibration limit of 2.00 inches is recommended for >100 hertz. This recorded level was 0.5 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 6 was recorded on April 9, 2019 at 10:22 AM and was 0.07 inches per second (ips) at a frequency of <1Hertz. A vibration limit of 0.5 inches is recommended for <1 hertz. This recorded level was at least 14 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 7 was recorded on April 9, 2019 at 11:37 AM and was 0.01 inches per second (ips) at a frequency of >100 Hertz. A vibration limit of 2.0 inches is recommended for >100 hertz. This recorded level was 0.5 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 8 was recorded on April 9, 2019 at 10:31 AM and was 0.025 inches per second (ips) at a frequency of 85 Hertz. A vibration limit of 2.00 inches is recommended for 85 hertz. This recorded level was 1.0 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 9 was recorded on April 9, 2019 at 11:23 AM and was 0.028 inches per second (ips) at a frequency of 18 Hertz. A vibration limit of 0.90 inches is recommended for 18 hertz. This recorded level was 3 percent of the typically recommended limit for transient vibrations.

The maximum measured vibration recorded at Location 10 was recorded on April 9, 2019 at 12:54 PM and was 0.035 inches per second (ips) at a frequency of 14 Hertz. A vibration limit of 0.70 inches is recommended for 14 hertz. This recorded level was 5.9 percent of the typically recommended limit for transient vibrations

The maximum measured vibration recorded at Location 11 was recorded on April 9, 2019 at 12:15 PM and was 0.056 inches per second (ips) at a frequency of 20 Hertz. A vibration limit of 1.00 inches is recommended for20 hertz. This recorded level was 6 percent of the typically recommended limit for transient vibrations

Conclusion

Based on the results of our seismic monitoring, we have developed the following conclusions:

- The vibrations in this case would have been in the perceptible level at almost all the recording locations.

- The results reflect an increase in vibration levels on the upper floors of the buildings and in the sidewalks closer to the traffic.

- It does appear that traffic noise induced vibrations may be occurring, as seen in locations 2A & 5, recorded on the second-floor interiors. This appears to be a factor of 2 times as compared to the basement level readings. Of interest was the reading of 0.052 inches per second at location 2A on April 14 at 12:33PM (See Appendix for Event Report).

- In summary, if these vibration levels were recorded from any number of construction projects frequently monitored in the western Pennsylvania area, typified by the data collected from April 8, 2019 to April 17, 2019, these levels would be within industry acceptable vibration levels.

- One other observation, which may connect to the traffic volume study maybe the long-term effect of high truck traffic on the road surface, this may result in additional and more frequent replacement of the roadway surface. Activities which would generate higher vibration levels in the historical buildings

This report has been prepared in accordance with generally accepted vibration monitoring practice. No warranty, either express or implied, is made. It is based upon information collected to date and on the original scope developed. We reserve the right to revise this report if additional information becomes available.

Sincerely,

TERRA-MECHANICS, INC.

David Harrison
Vice President/Chief Operating officer
Seismic & Explosive Engineer
B.S. Mining Engineering

Appendix: Seismograph Event Reports (127 Sheets)

Appendix

Seismic Data – Event Report (127 sheets)

Instantel

Event Report

Histogram Start Time	19:12:50 April 8, 2019
Histogram Finish Time	07:10:01 April 9, 2019
Number of Intervals	718.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HVTE.PE0H

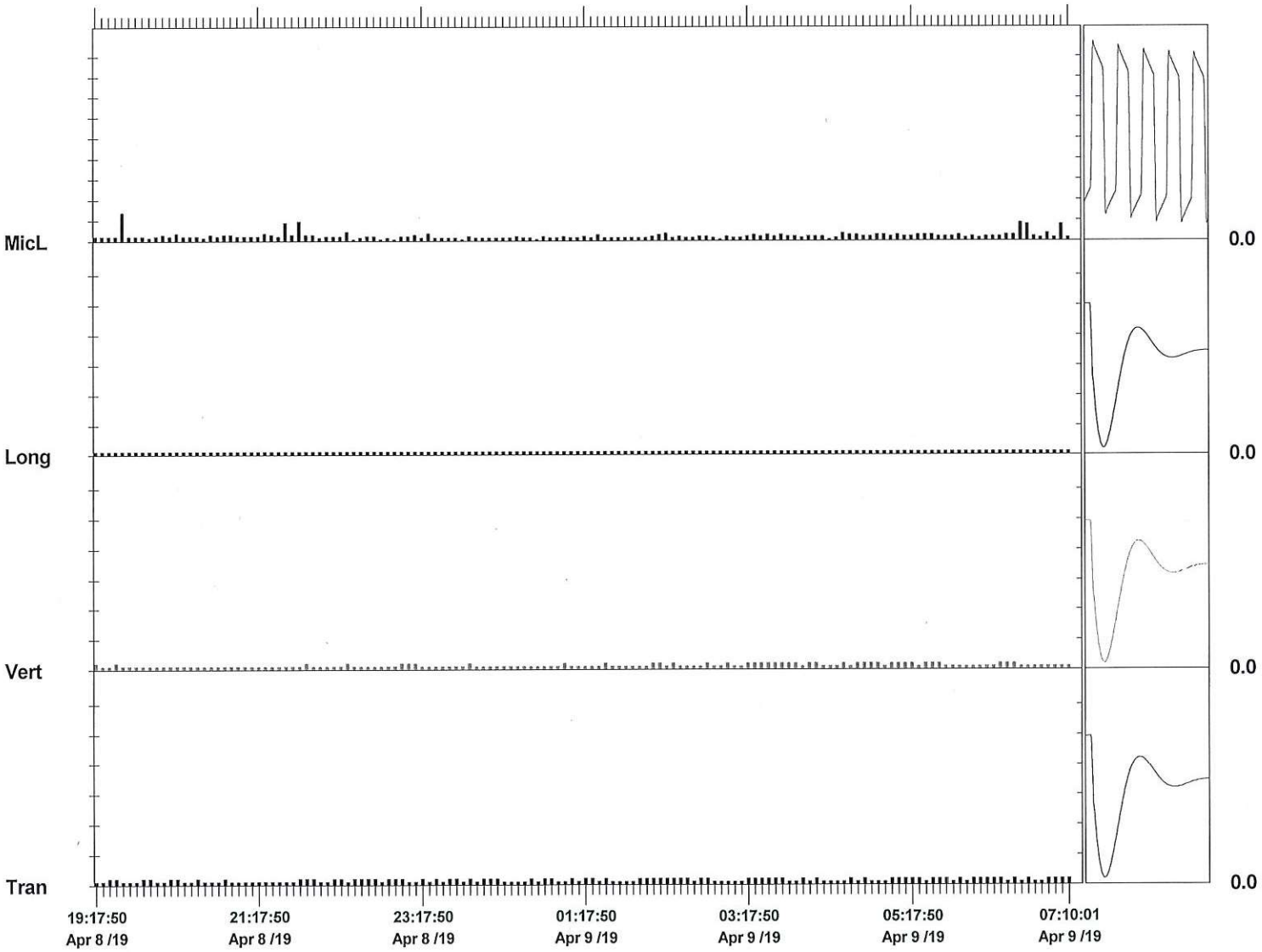
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	107.5 dB(L) on April 8, 2019 at 19:33:50
ZC Freq	28 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 536 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 8 /19	Apr 8 /19	Apr 8 /19	
Time	19:23:50	19:16:50	19:13:50	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.012 in/s on April 8, 2019 at 22:58:50



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Instantel

Event Report

Histogram Start Time	07:13:18 April 9, 2019
Histogram Finish Time	19:10:00 April 9, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HVUC.260H

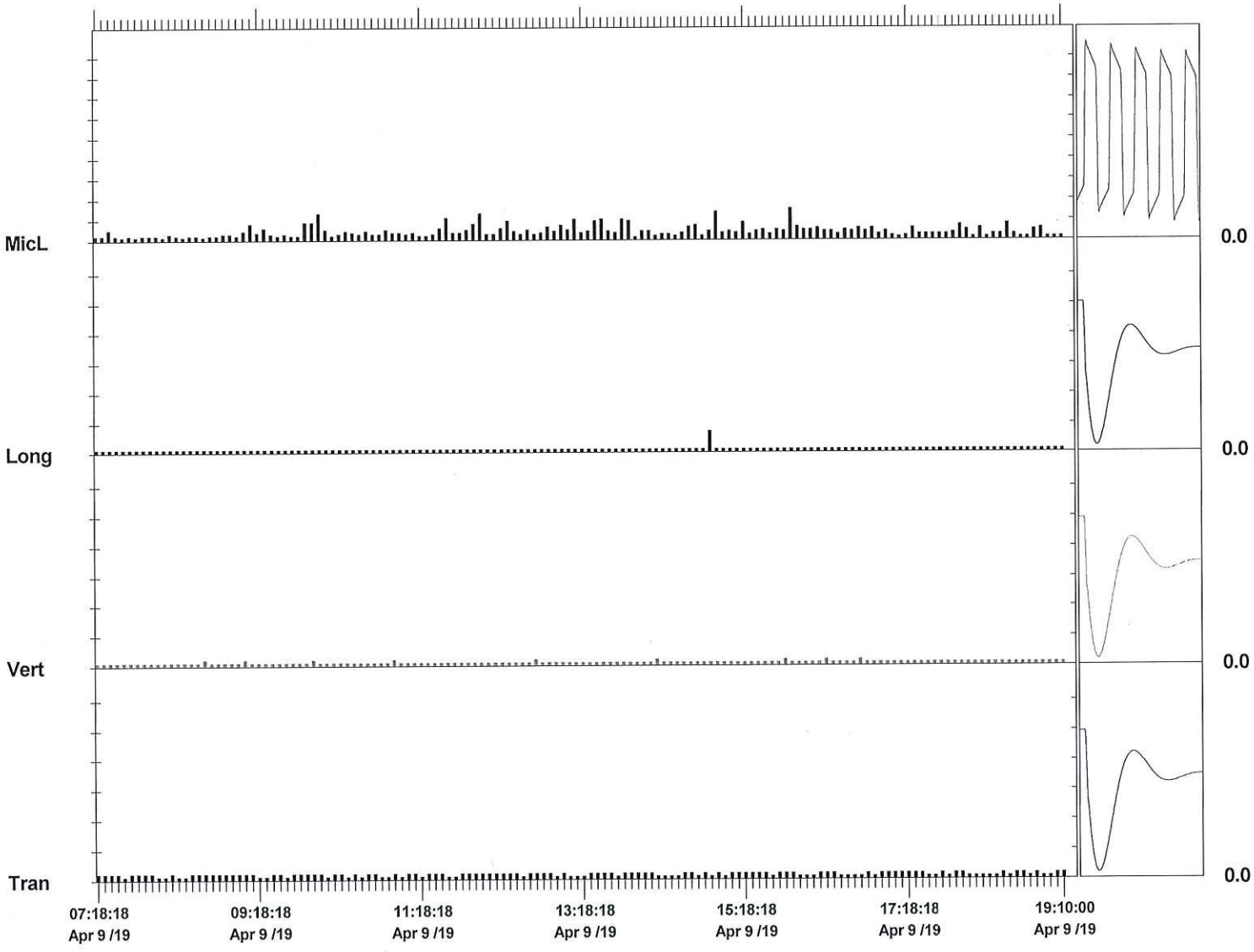
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	108.4 dB(L) on April 9, 2019 at 15:52:18
ZC Freq	2.8 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 589 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.035	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	07:14:18	08:35:18	14:53:18	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.036 in/s on April 9, 2019 at 14:53:18



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:13:18 April 9, 2019
Histogram Finish Time	07:10:01 April 10, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
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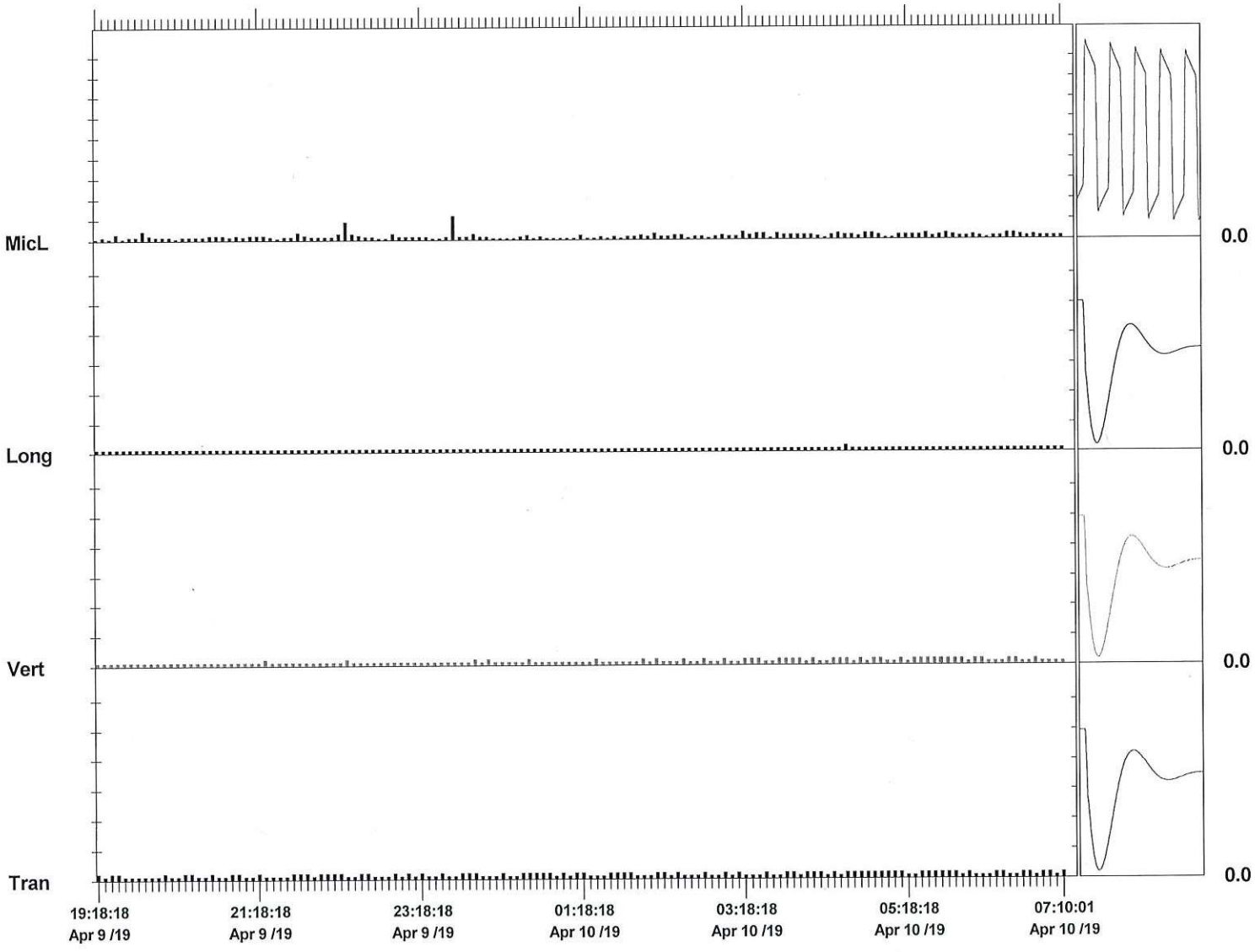
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	106.0 dB(L) on April 9, 2019 at 23:42:18
ZC Freq	85 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 531 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 10 /19	
Time	19:17:18	21:20:18	04:30:18	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.012 in/s on April 9, 2019 at 23:54:18



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:13:14 April 10, 2019
Histogram Finish Time	19:10:00 April 10, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HVW6.Q20H

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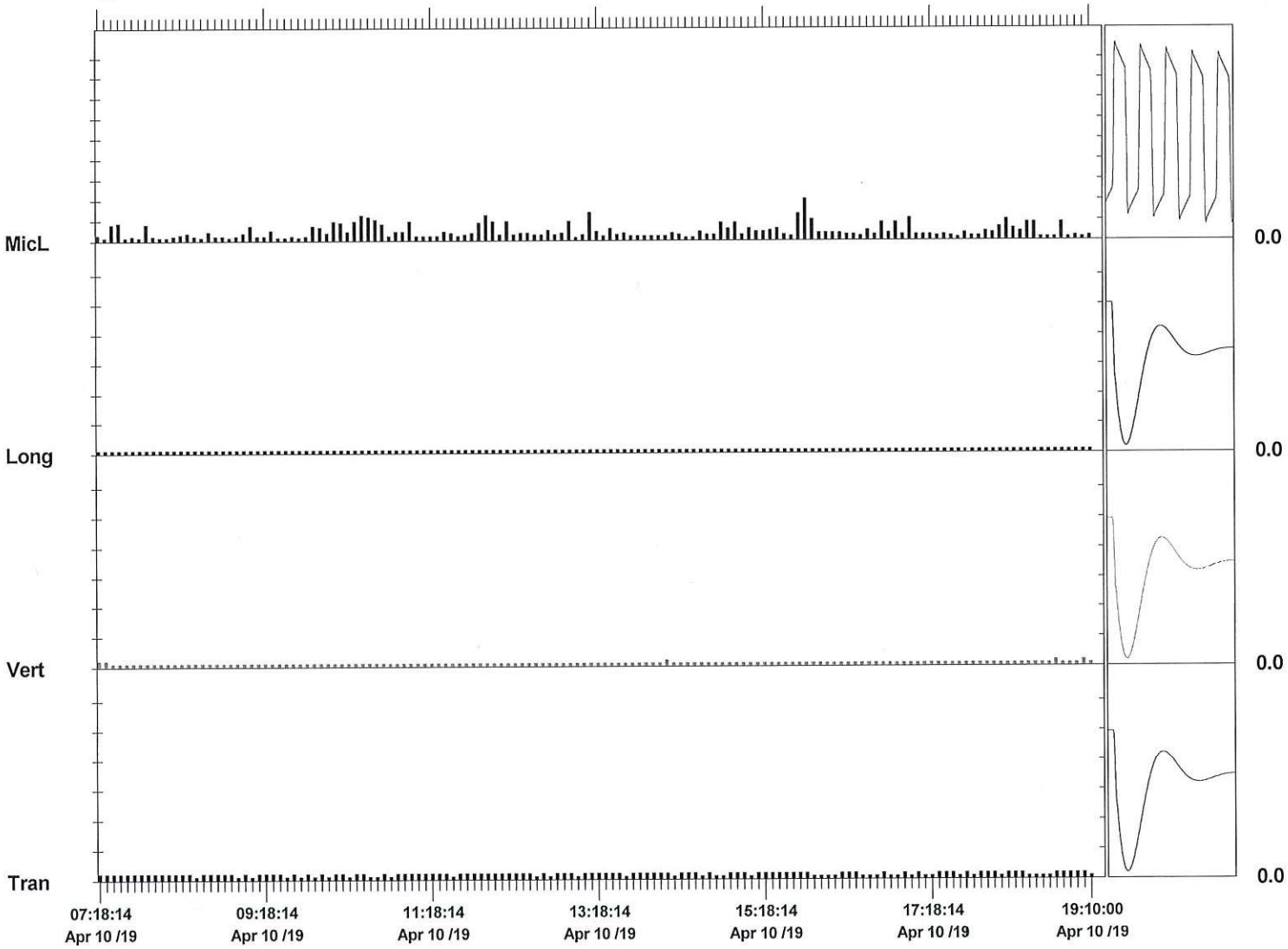
Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	110.9 dB(L) on April 10, 2019 at 15:48:14
ZC Freq	26 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 618 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.005	in/s
ZC Freq	>100	>100	N/A	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	07:15:14	07:18:14	07:14:14	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.012 in/s on April 10, 2019 at 12:48:14

N/A: Not Applicable



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:13:16 April 10, 2019
Histogram Finish Time	07:10:01 April 11, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
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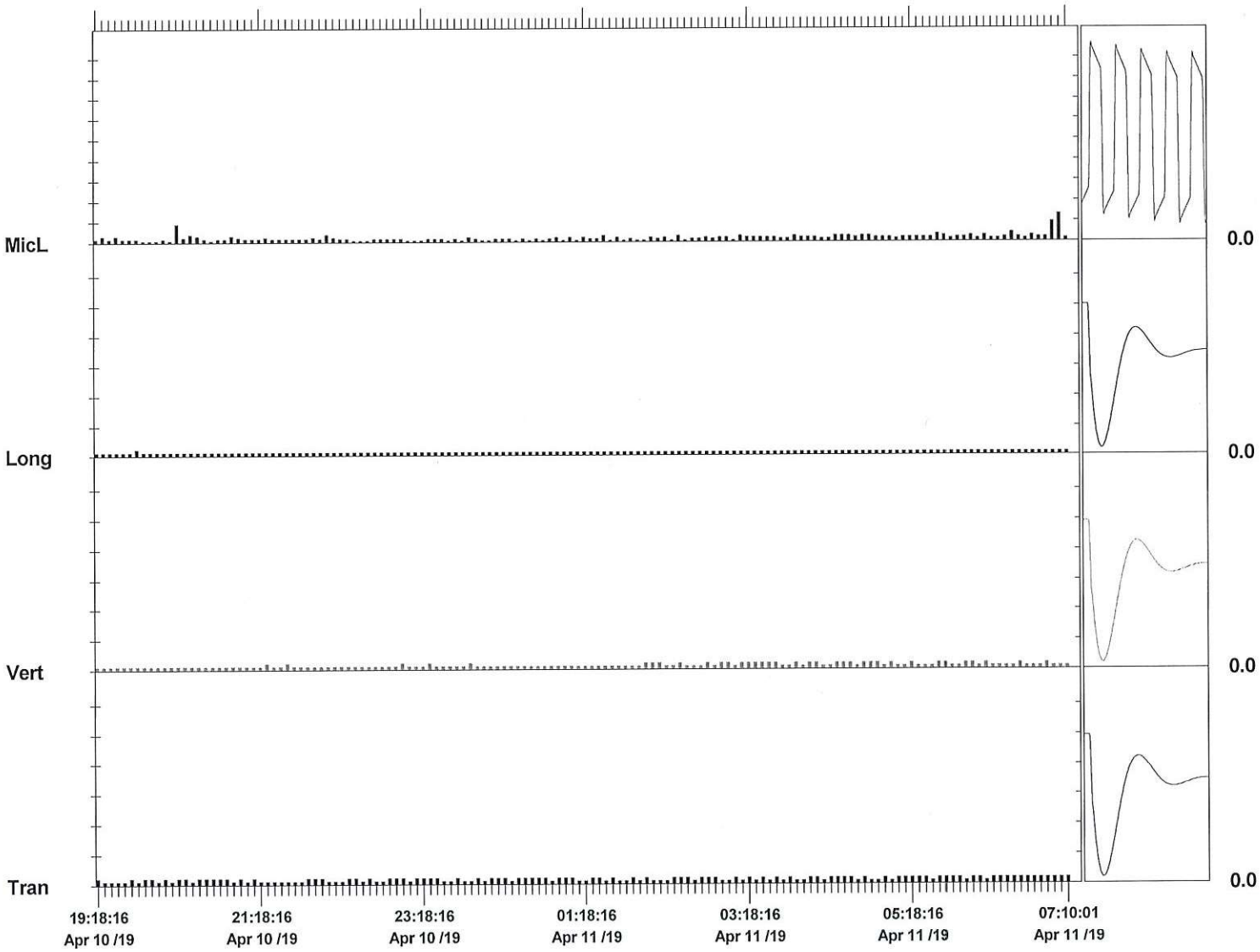
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Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	107.0 dB(L) on April 11, 2019 at 07:05:16
ZC Freq	5.9 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 586 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	19:18:16	21:21:16	19:44:16	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	3.9	3.8	4.0	

Peak Vector Sum 0.012 in/s on April 10, 2019 at 19:41:16



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.053 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:13:17 April 11, 2019
Histogram Finish Time	19:10:00 April 11, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
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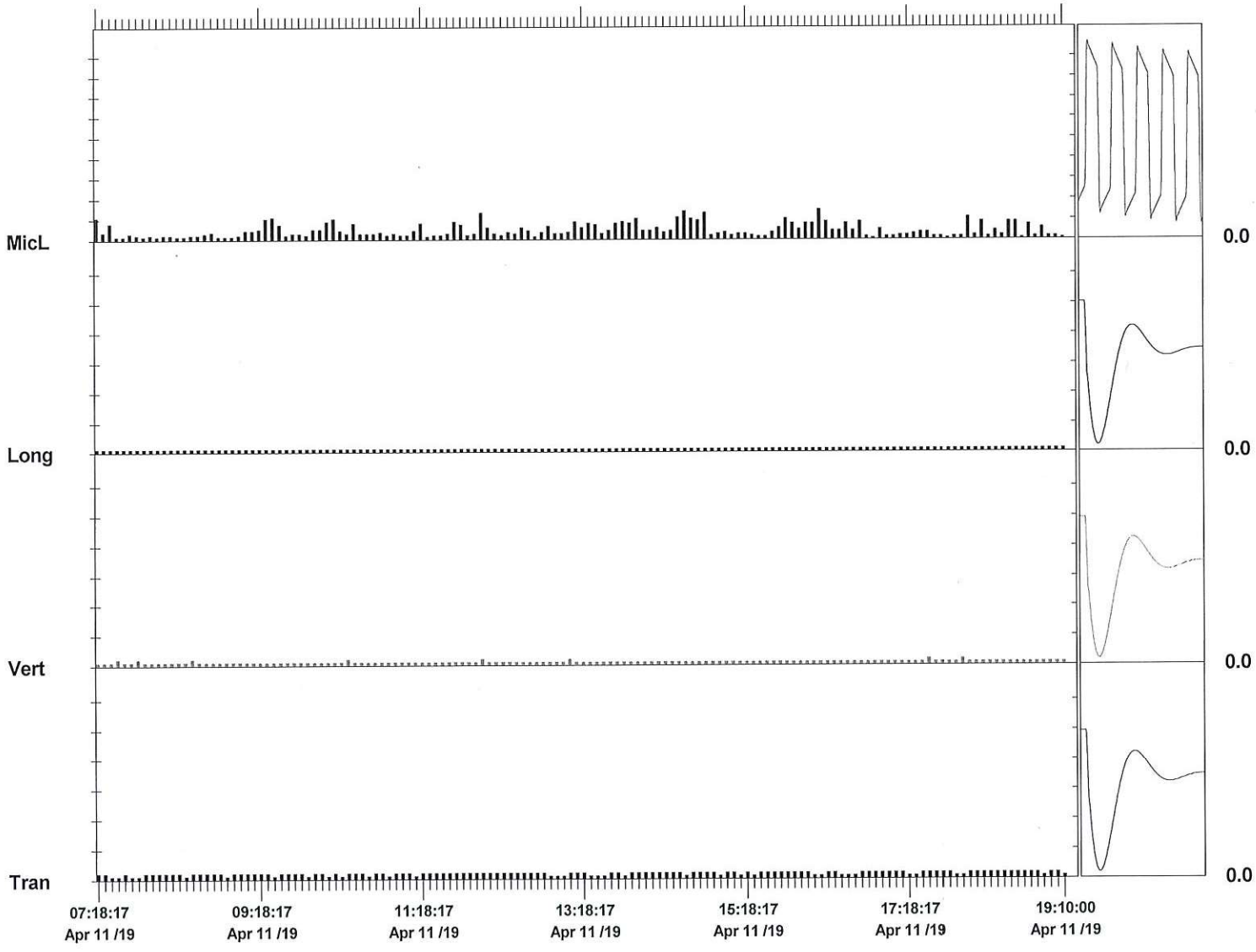
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	108.0 dB(L) on April 11, 2019 at 16:12:17
ZC Freq	12 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 619 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 11 /19	Apr 11 /19	Apr 11 /19	
Time	07:15:17	07:32:17	07:14:17	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.012 in/s on April 11, 2019 at 10:39:17



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

Printed: May 30, 2019 (V 10.74)

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Instantel

Event Report

Histogram Start Time	19:13:13 April 11, 2019
Histogram Finish Time	07:10:01 April 12, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
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Unit Calibration	March 26, 2019 by Instantel
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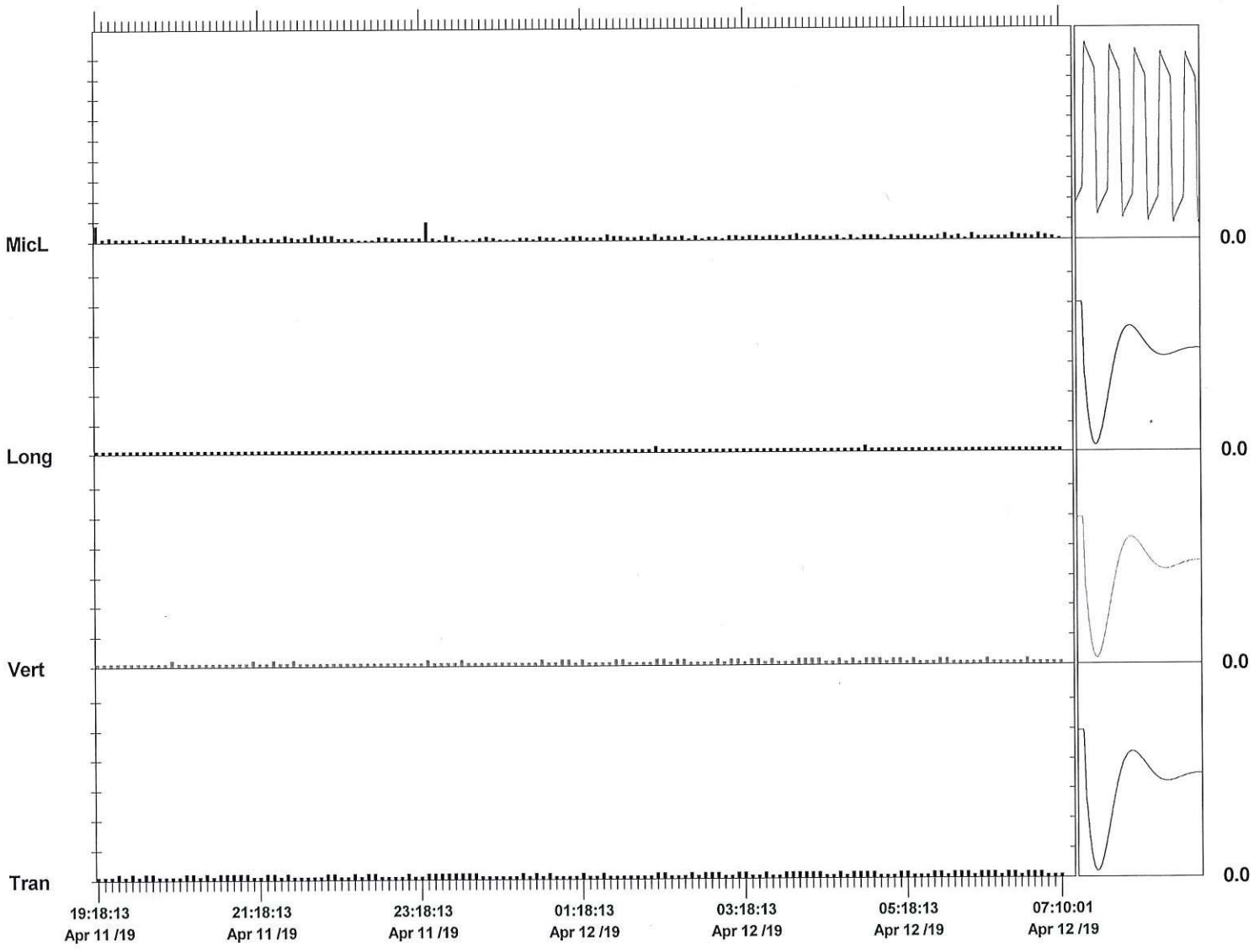
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	104.2 dB(L) on April 11, 2019 at 23:20:13
ZC Freq	85 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 567 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 11 /19	Apr 11 /19	Apr 12 /19	
Time	19:29:13	20:10:13	02:11:13	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.012 in/s on April 12, 2019 at 02:11:13



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.0529 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:13:17 April 12, 2019
Histogram Finish Time	19:10:00 April 12, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HVZW.250H

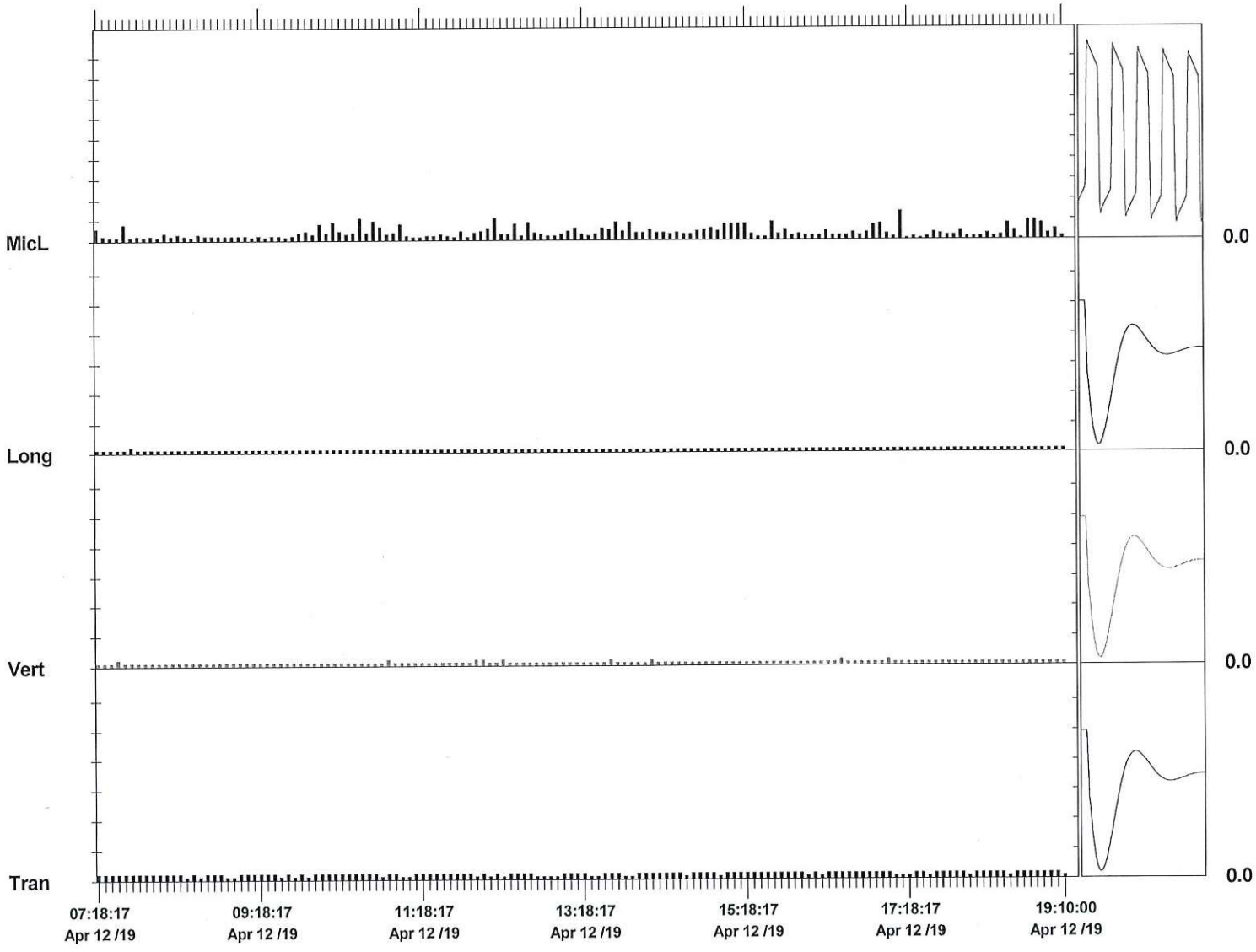
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	107.5 dB(L) on April 12, 2019 at 17:11:17
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 614 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 12 /19	Apr 12 /19	Apr 12 /19	
Time	07:16:17	07:32:17	07:40:17	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.011 in/s on April 12, 2019 at 07:21:17



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.053 in/s/div Mic: 0.001 psi(L)/div Sensor Check

Printed: May 30, 2019 (V 10.74)

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Instantel

Event Report

Histogram Start Time	19:14:29 April 12, 2019
Histogram Finish Time	07:10:01 April 13, 2019
Number of Intervals	716.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HW0T.G50H

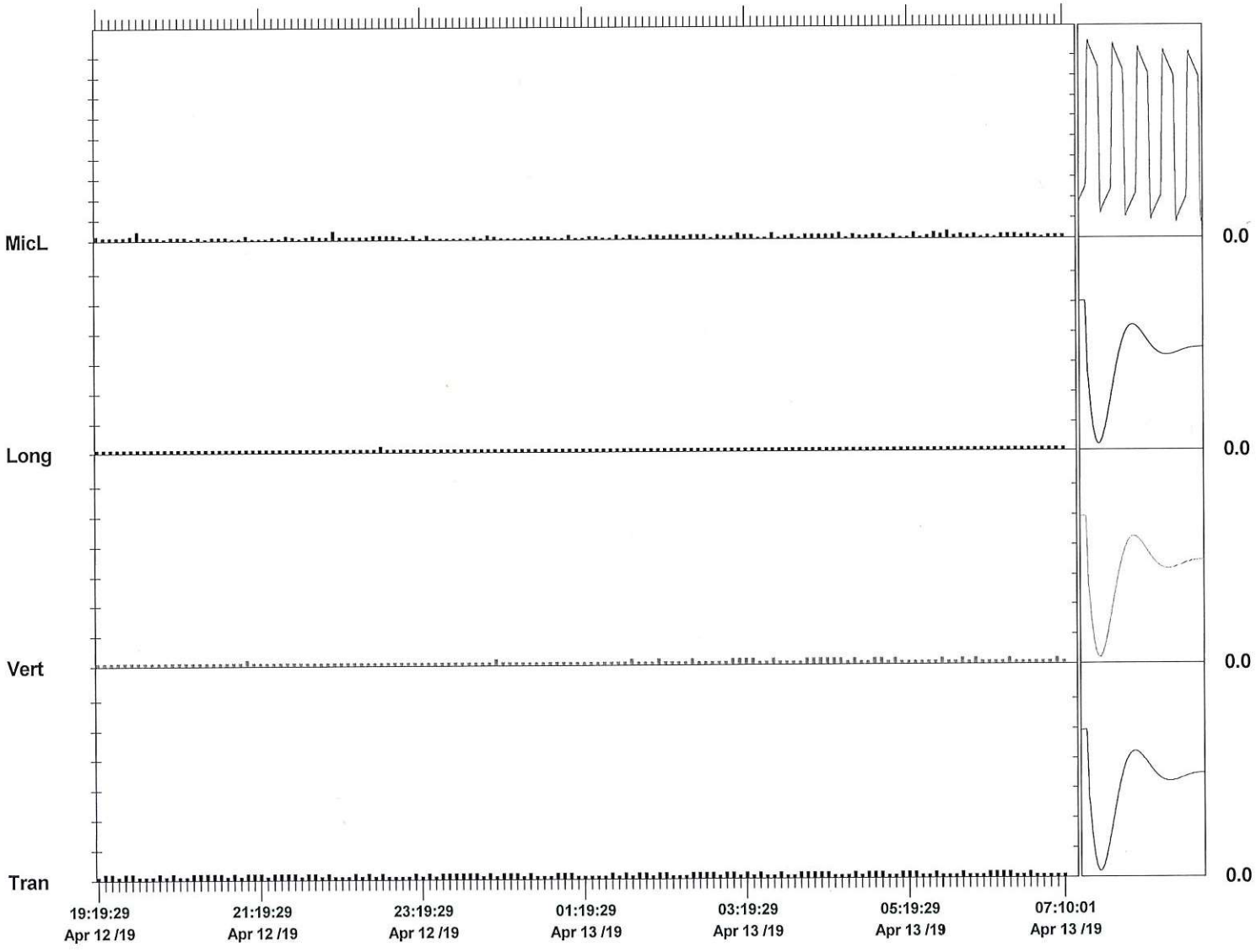
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	97.5 dB(L) on April 12, 2019 at 19:46:29
ZC Freq	30 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 617 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 12 /19	Apr 12 /19	Apr 12 /19	
Time	19:23:29	21:06:29	22:45:29	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.012 in/s on April 13, 2019 at 03:18:29



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.953 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:13:15 April 13, 2019
Histogram Finish Time	19:10:00 April 13, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HW1Q.Q30H

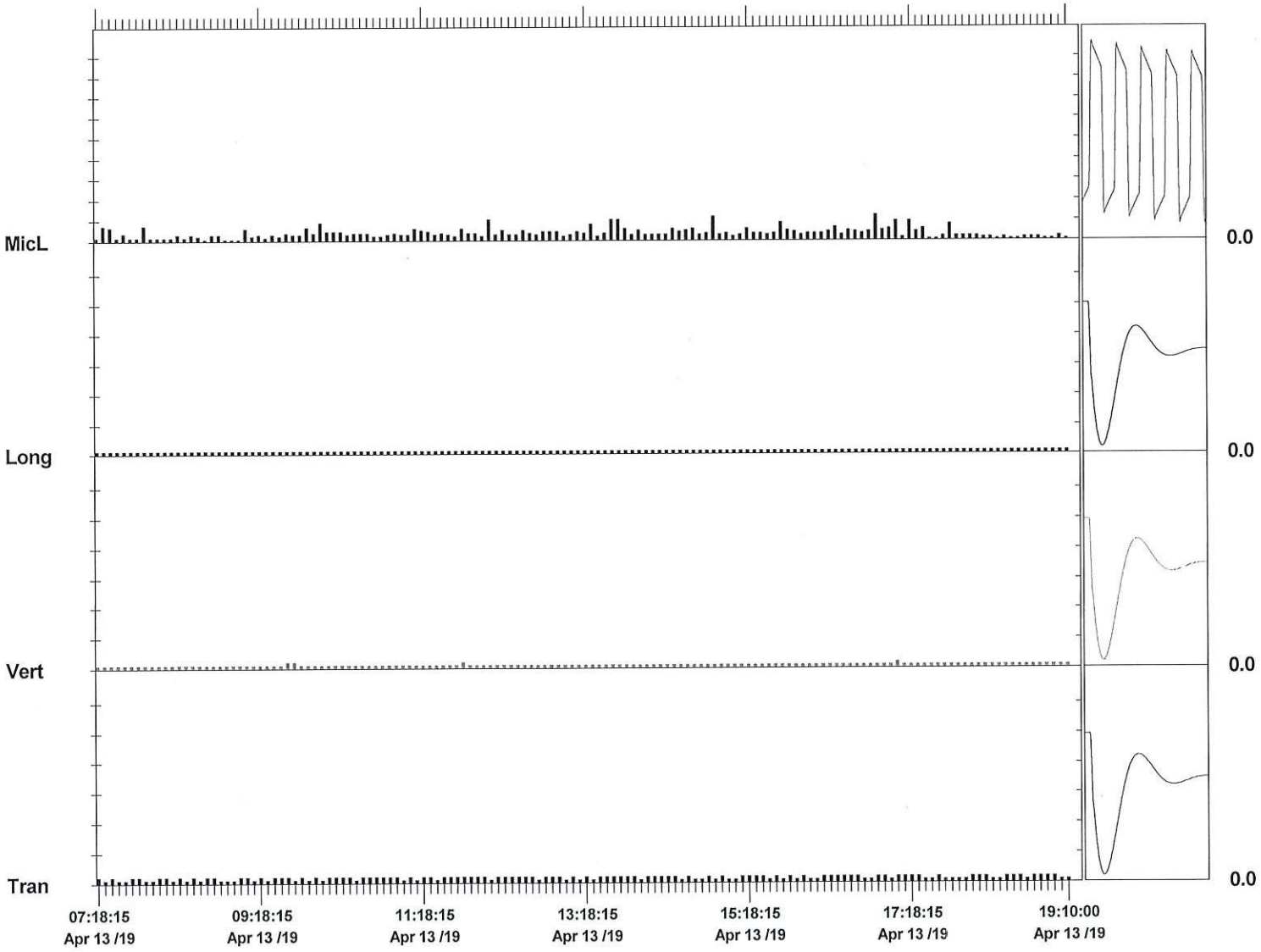
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	106.5 dB(L) on April 13, 2019 at 16:50:15
ZC Freq	85 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 624 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 13 /19	Apr 13 /19	Apr 13 /19	
Time	07:16:15	09:35:15	07:14:15	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.014 in/s on April 13, 2019 at 17:05:15



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.053 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:13:16 April 13, 2019
Histogram Finish Time	07:10:01 April 14, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HW2O.240H

Notes

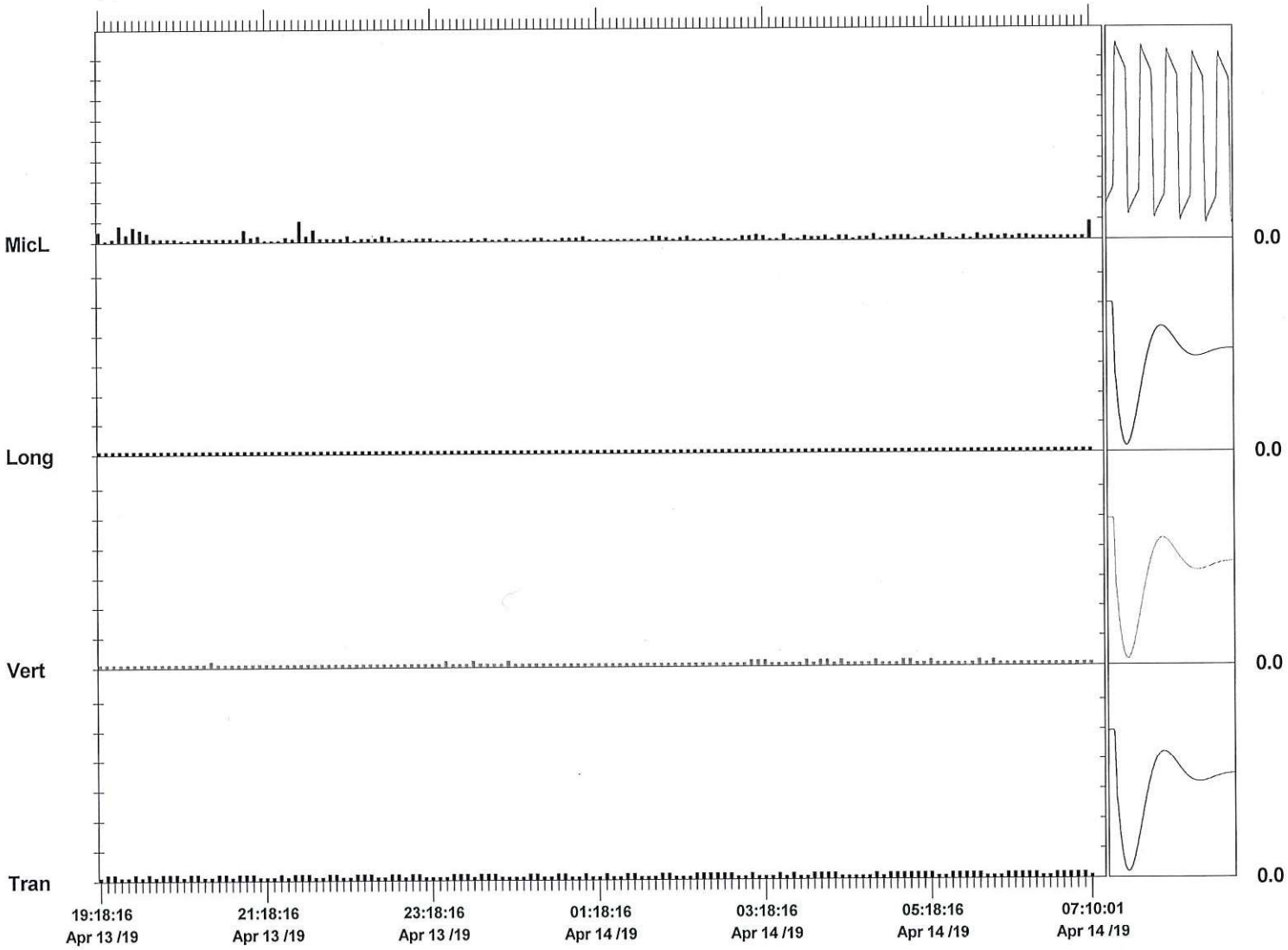
Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	104.9 dB(L) on April 13, 2019 at 21:43:16
ZC Freq	8.5 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 578 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.005	in/s
ZC Freq	>100	>100	N/A	Hz
Date	Apr 13 /19	Apr 13 /19	Apr 13 /19	
Time	19:21:16	20:34:16	19:14:16	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	3.9	3.8	4.0	

Peak Vector Sum 0.012 in/s on April 14, 2019 at 03:12:16

N/A: Not Applicable



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.953 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:13:17 April 14, 2019
Histogram Finish Time	19:10:00 April 14, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HW3L.E50H

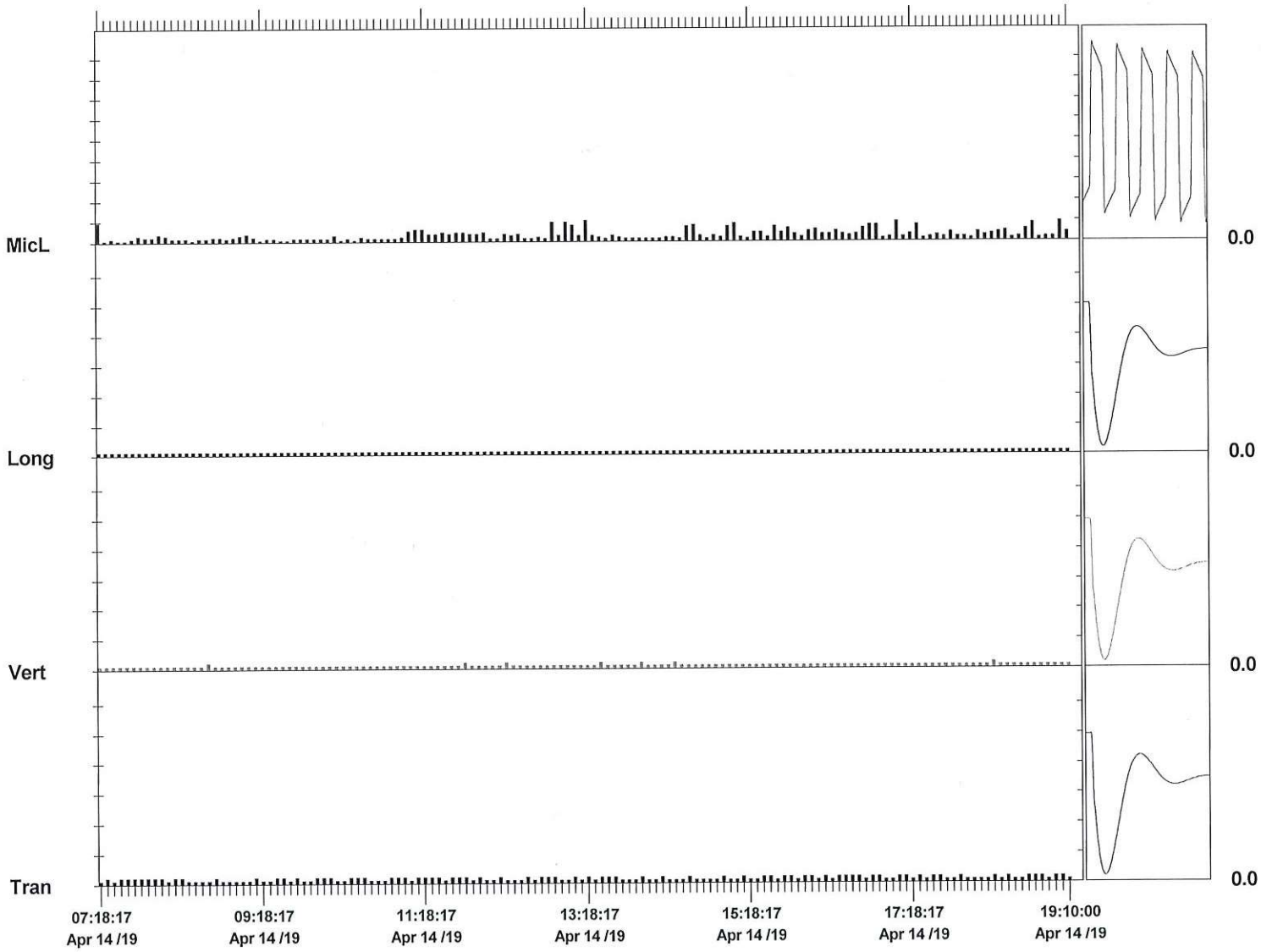
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	104.9 dB(L) on April 14, 2019 at 13:15:17
ZC Freq	6.9 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 578 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 14 /19	Apr 14 /19	Apr 14 /19	
Time	07:22:17	08:36:17	07:14:17	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.012 in/s on April 14, 2019 at 13:57:17



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:13:18 April 14, 2019
Histogram Finish Time	07:10:01 April 15, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.3 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HW4I.Q60H

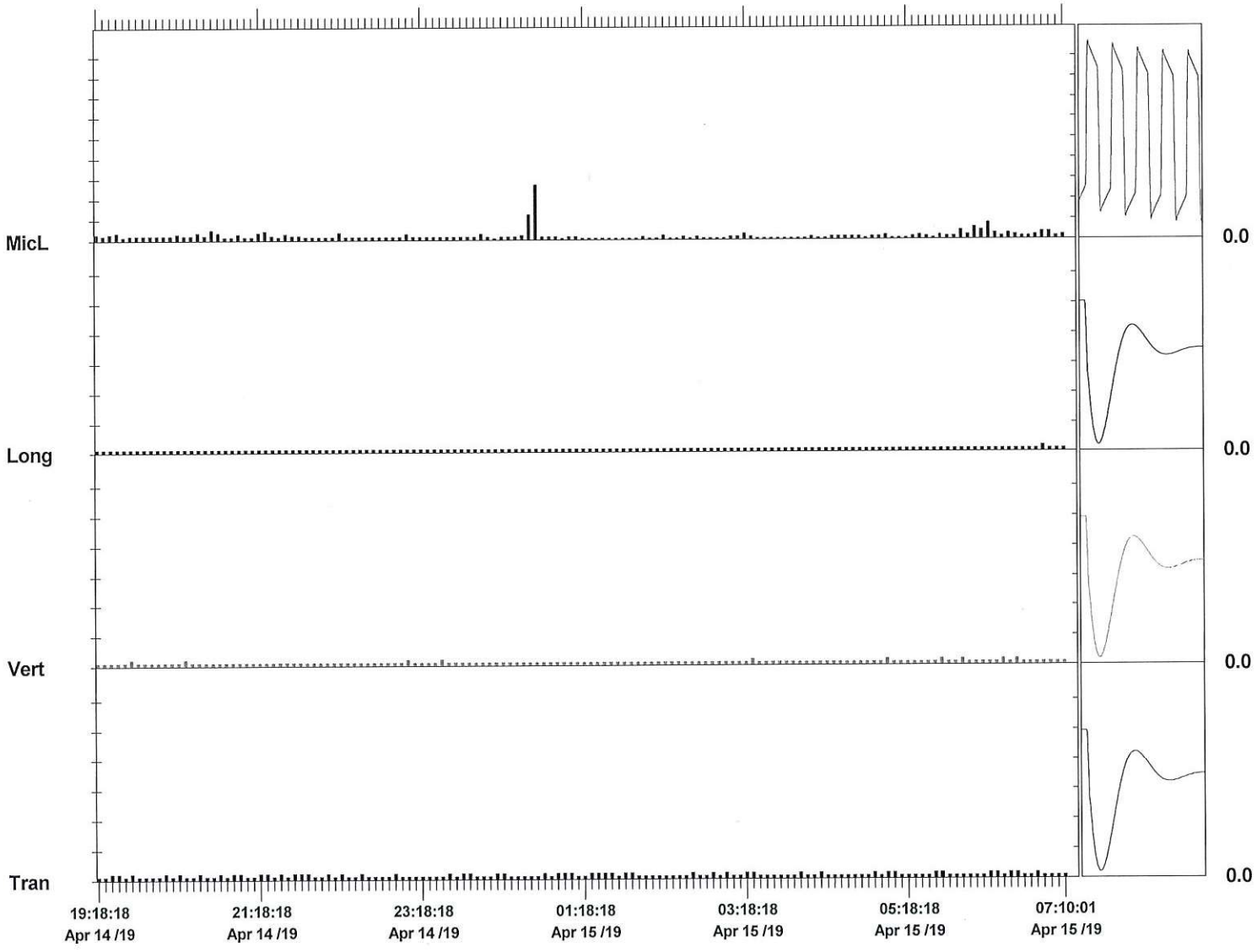
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	113.3 dB(L) on April 15, 2019 at 00:39:18
ZC Freq	1.8 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 581 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 14 /19	Apr 14 /19	Apr 15 /19	
Time	19:25:18	19:42:18	06:55:18	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.012 in/s on April 14, 2019 at 23:05:18



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.053 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:15:15 April 15, 2019
Histogram Finish Time	19:10:00 April 15, 2019
Number of Intervals	715.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HW5G.5F0H

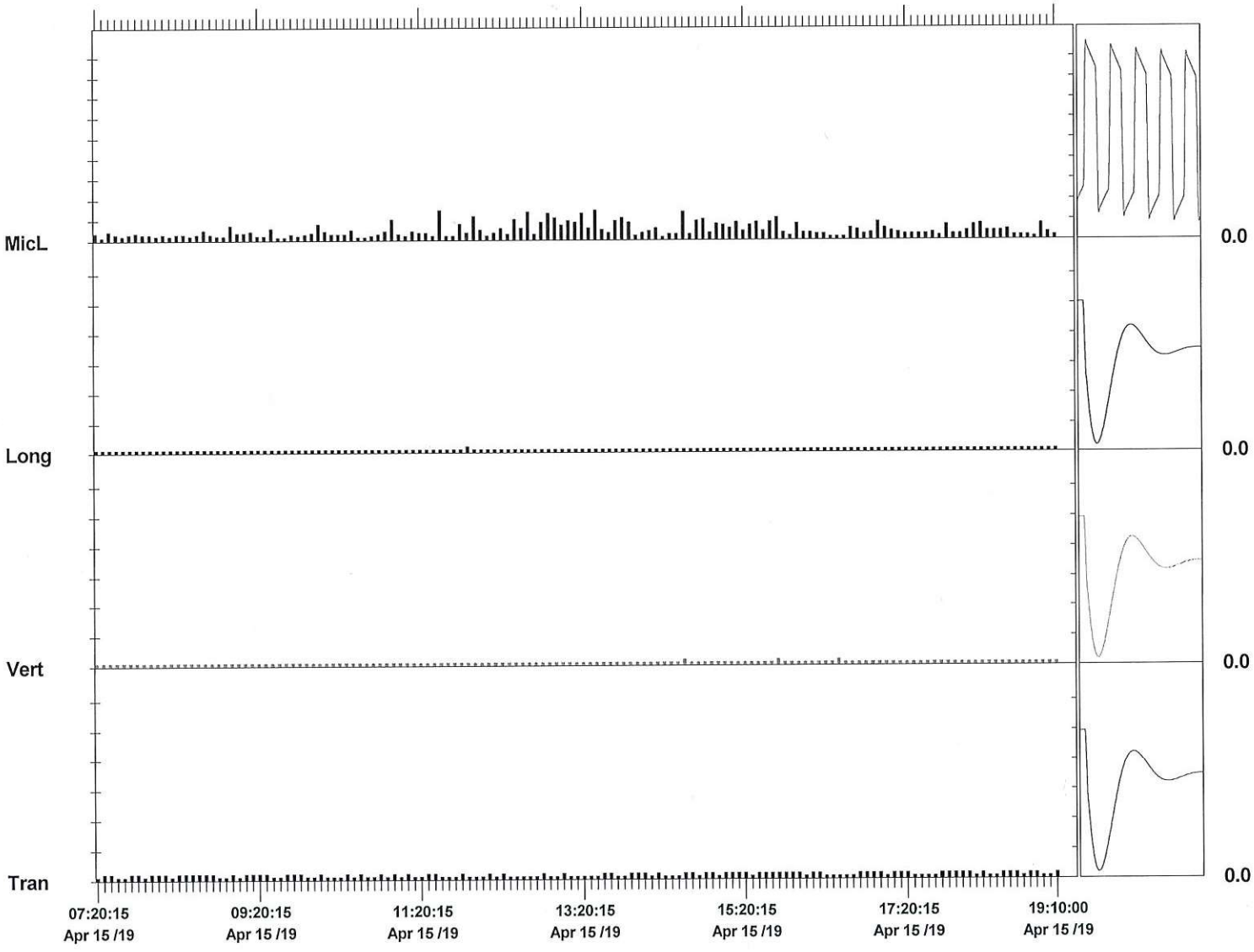
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	108.0 dB(L) on April 15, 2019 at 11:33:15
ZC Freq	3.5 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 550 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 15 /19	Apr 15 /19	Apr 15 /19	
Time	07:22:15	14:32:15	11:51:15	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.6	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.014 in/s on April 15, 2019 at 15:41:15



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.953 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:14:15 April 15, 2019
Histogram Finish Time	07:10:01 April 16, 2019
Number of Intervals	716.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HW6D.FR0H

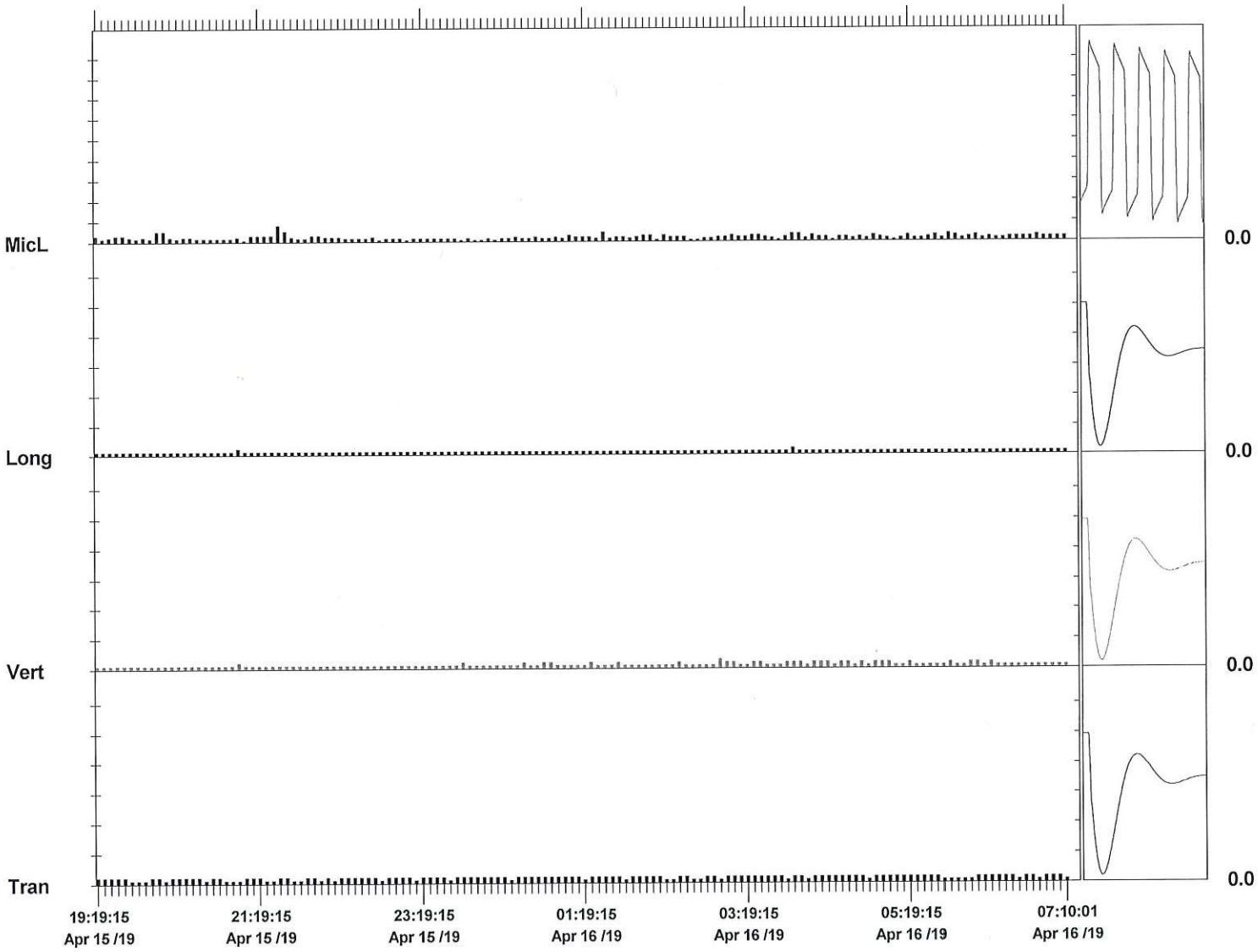
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	102.8 dB(L) on April 15, 2019 at 21:34:15
ZC Freq	3.0 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 570 mv)

	Tran	Vert	Long	
PPV	0.010	0.015	0.010	in/s
ZC Freq	>100	34	>100	Hz
Date	Apr 15 /19	Apr 16 /19	Apr 15 /19	
Time	19:16:15	02:58:15	21:01:15	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.016 in/s on April 16, 2019 at 02:58:15



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.953 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:13:18 April 16, 2019
Histogram Finish Time	19:10:00 April 16, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HW7A.Q60H

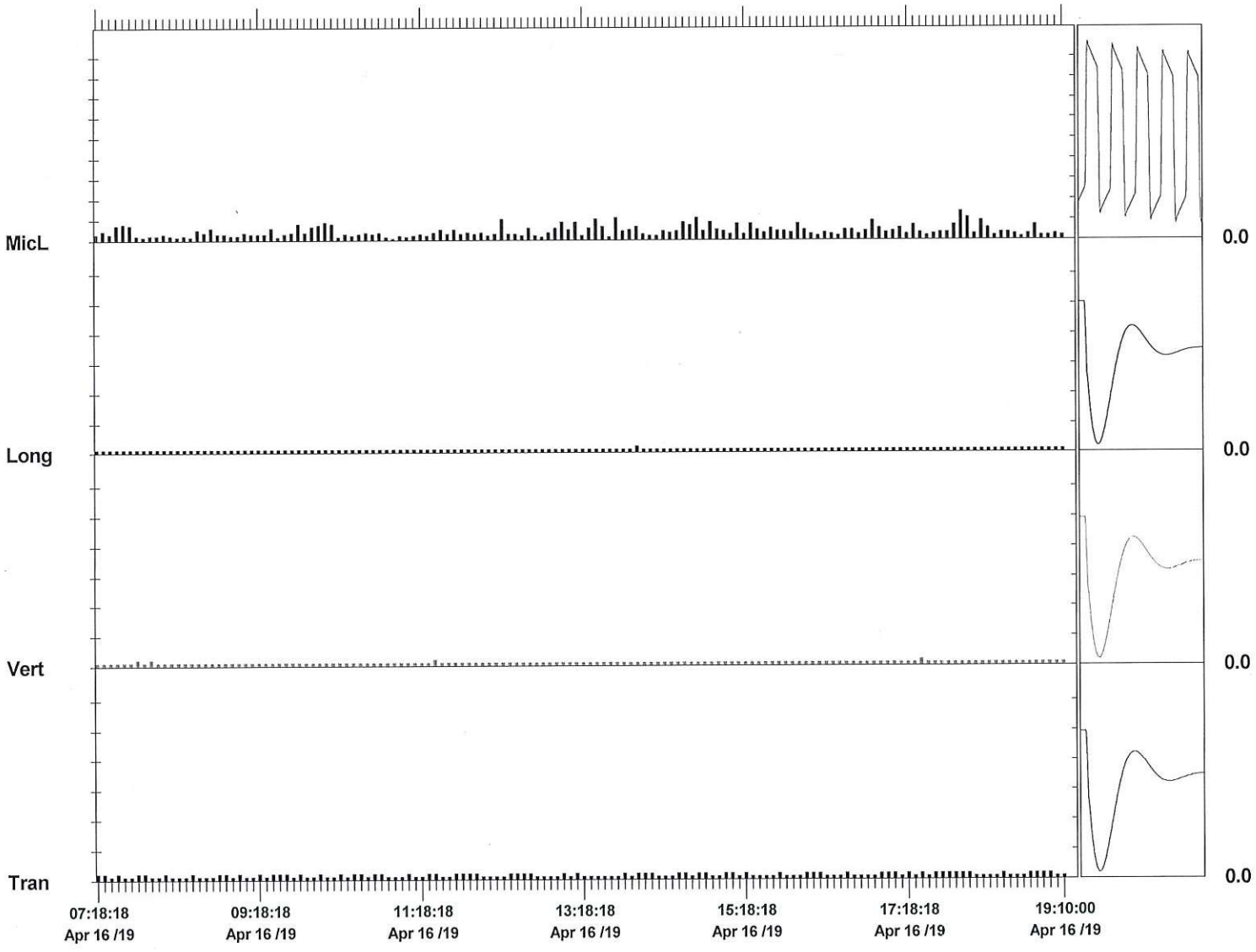
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	107.5 dB(L) on April 16, 2019 at 17:55:18
ZC Freq	3.8 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 626 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 16 /19	Apr 16 /19	Apr 16 /19	
Time	07:15:18	07:47:18	13:54:18	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.011 in/s on April 16, 2019 at 07:15:18



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.053 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:13:16 April 16, 2019
Histogram Finish Time	07:10:01 April 17, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HW88.240H

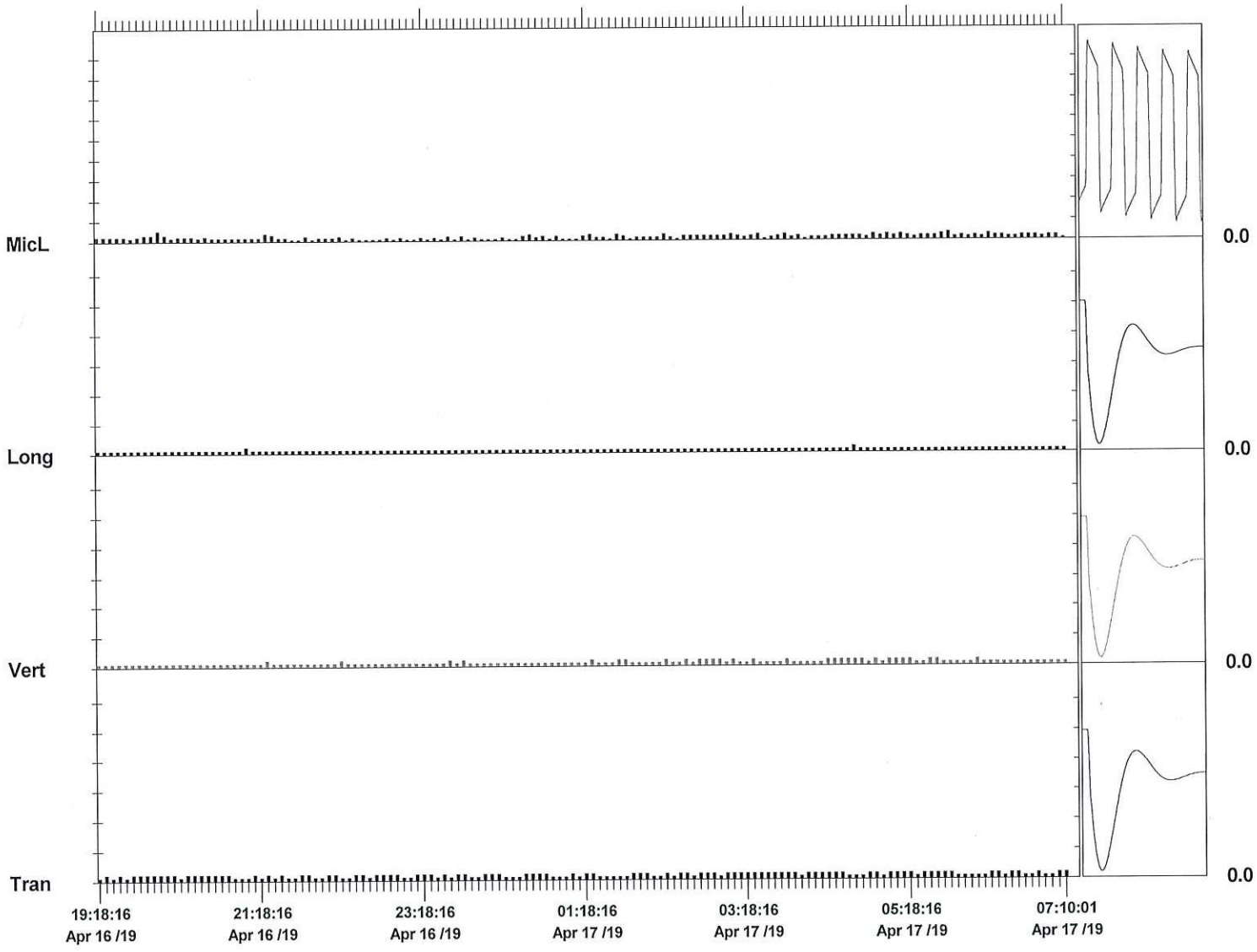
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	98.8 dB(L) on April 16, 2019 at 20:01:16
ZC Freq	8.4 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 620 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 16 /19	Apr 16 /19	Apr 16 /19	
Time	19:20:16	21:23:16	21:07:16	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.012 in/s on April 17, 2019 at 01:19:16



Time Scale: 5 minutes /div **Amplitude Scale:** Geo:0.039 in/s Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:13:17 April 17, 2019
Histogram Finish Time	10:01:56 April 17, 2019
Number of Intervals	168.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE9439 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	K439HW95.E50H

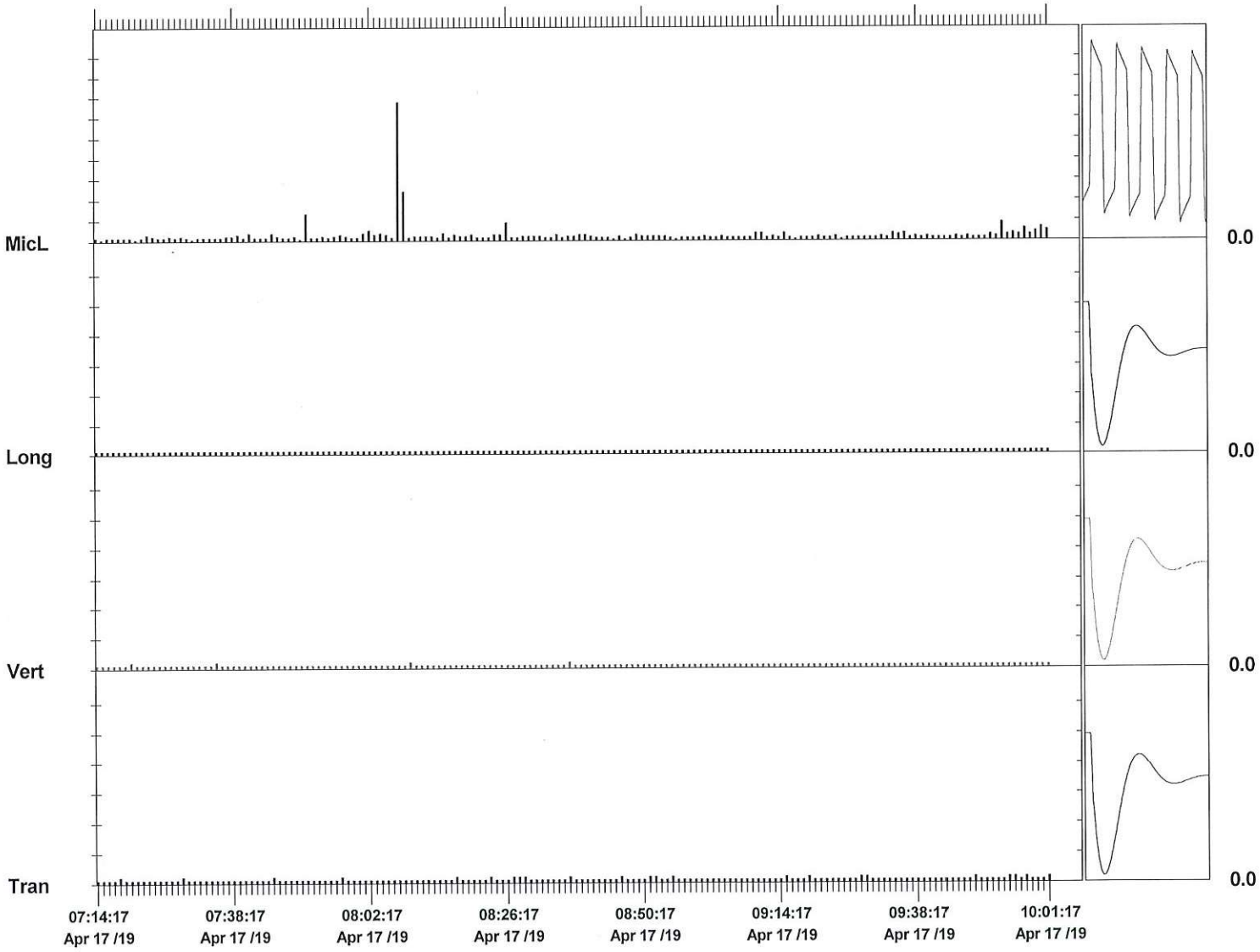
Notes

Project:	Lewisburg Corridor Study - 340 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 3 - 340 Market St - Brushstrokes

Microphone	Linear Weighting
PSPL	121.3 dB(L) on April 17, 2019 at 08:07:17
ZC Freq	85 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 566 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 17 /19	Apr 17 /19	Apr 17 /19	
Time	07:18:17	07:20:17	07:14:17	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	4.0	3.8	4.0	

Peak Vector Sum 0.012 in/s on April 17, 2019 at 07:20:17



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	10:57:13 April 10, 2019
Histogram Finish Time	11:51:22 April 10, 2019
Number of Intervals	54.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE14036 V 10.72-8.17 MiniMate Plus
Battery Level	6.3 Volts
Unit Calibration	March 20, 2019 by Instantel
File Name	P036HVWH.3D0

Post Event Notes
340 Market Street - Brushstrokes - 2nd Floor

Notes

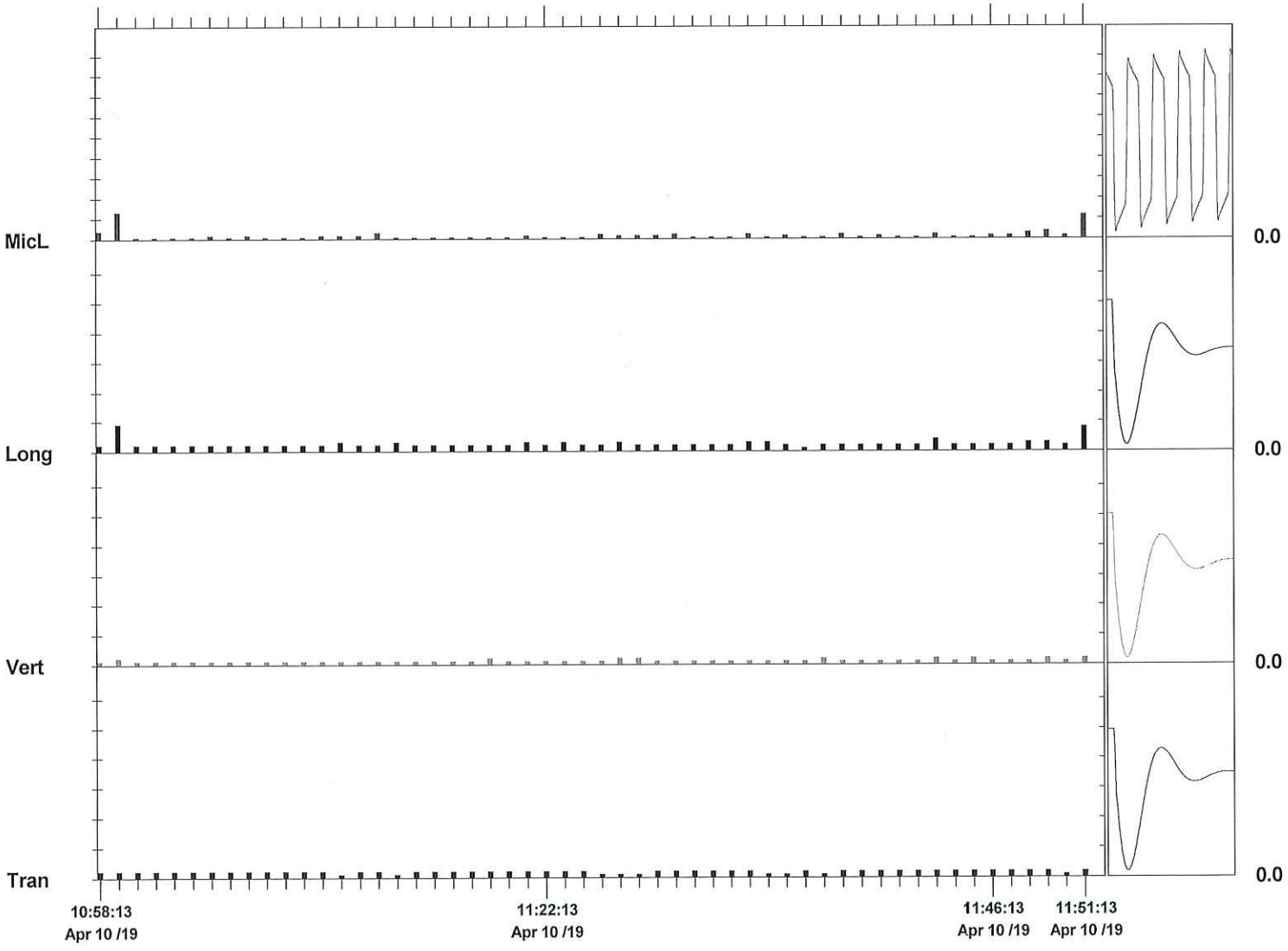
Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc
Seis. Loc:	Roaming Unit #1 -LOC 3A- 340 MARKET ST BRUSH STROKES - 2ND FLOOR

Extended Notes

Microphone	Linear Weighting
PSPL	107.0 dB(L) on April 10, 2019 at 10:59:13
ZC Freq	4.5 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 658 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.045	in/s
ZC Freq	>100	>100	32	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	10:58:13	10:59:13	10:59:13	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.6	7.4	Hz
Overswing Ratio	3.6	3.5	3.8	

Peak Vector Sum 0.046 in/s on April 10, 2019 at 10:59:13



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.541 in/s Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:37:48 April 8, 2019
Histogram Finish Time	07:15:01 April 9, 2019
Number of Intervals	698.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HVTF.V00H

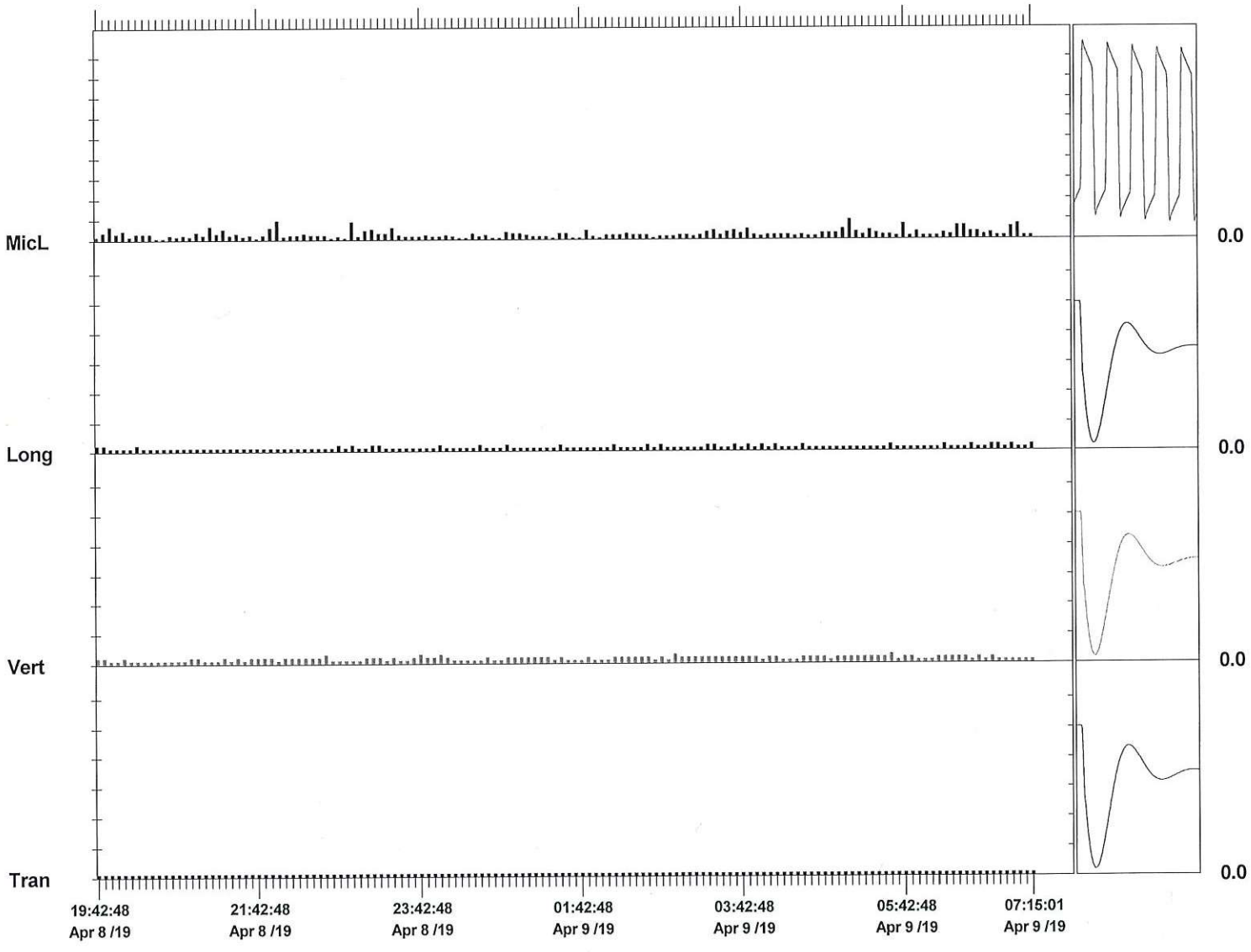
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	104.2 dB(L) on April 8, 2019 at 21:57:48
ZC Freq	6.6 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 557 mv)

	Tran	Vert	Long	
PPV	0.005	0.015	0.010	in/s
ZC Freq	>100	57	>100	Hz
Date	Apr 8 /19	Apr 8 /19	Apr 8 /19	
Time	19:38:48	22:31:48	19:39:48	
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.018 in/s on April 8, 2019 at 23:57:48



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.0312 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Instantel

Event Report

Histogram Start Time	07:18:16 April 9, 2019
Histogram Finish Time	19:35:00 April 9, 2019
Number of Intervals	737.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HVUC.AG0H

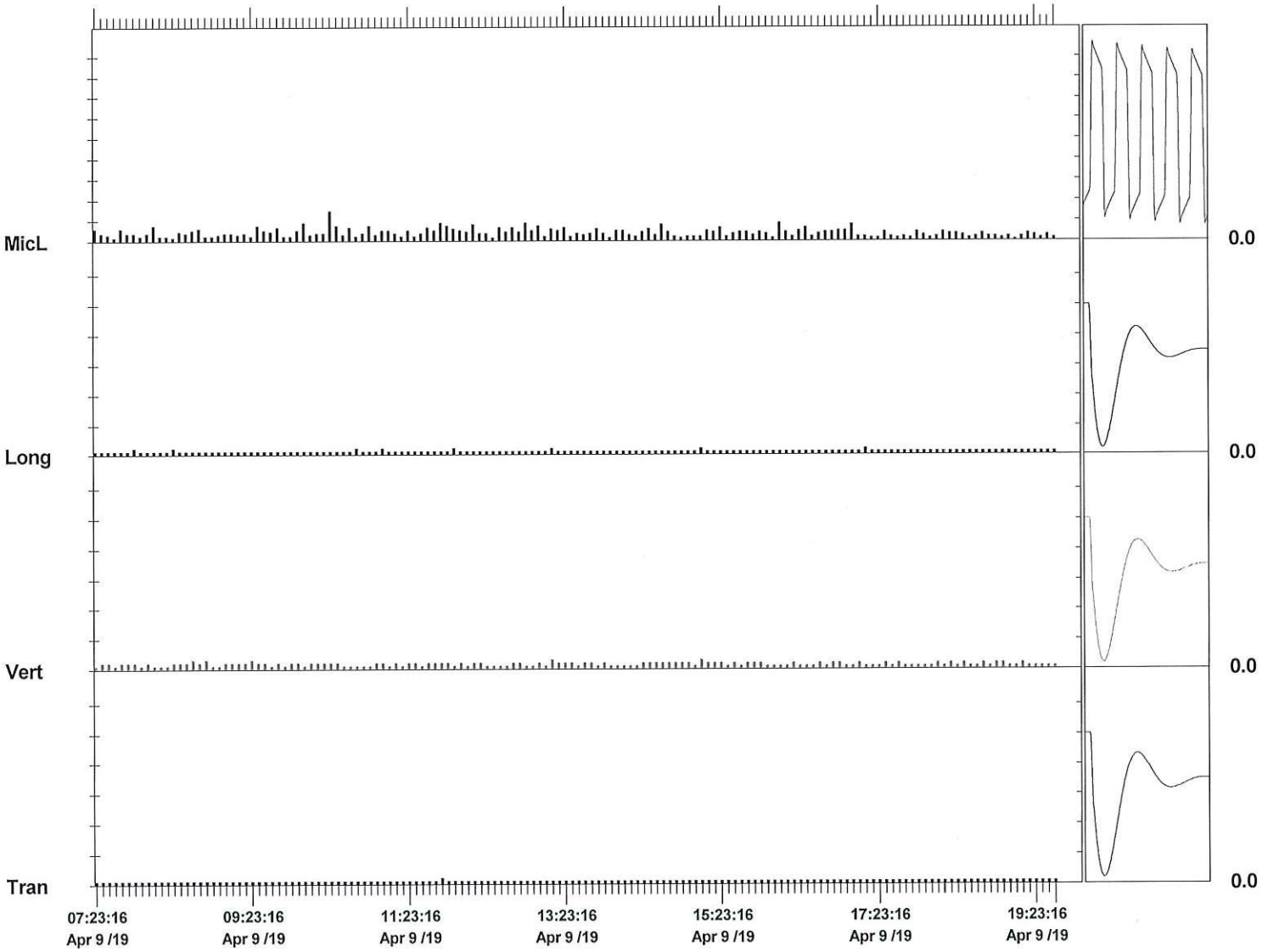
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	108.0 dB(L) on April 9, 2019 at 10:19:16
ZC Freq	64 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 578 mv)

	Tran	Vert	Long	
PPV	0.010	0.015	0.010	in/s
ZC Freq	>100	28	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	11:44:16	08:36:16	07:49:16	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.019 in/s on April 9, 2019 at 13:09:16



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

Printed: May 30, 2019 (V 10.74)

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Instantel

Event Report

Histogram Start Time	19:38:18 April 9, 2019
Histogram Finish Time	07:15:01 April 10, 2019
Number of Intervals	697.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HVVA.JU0H

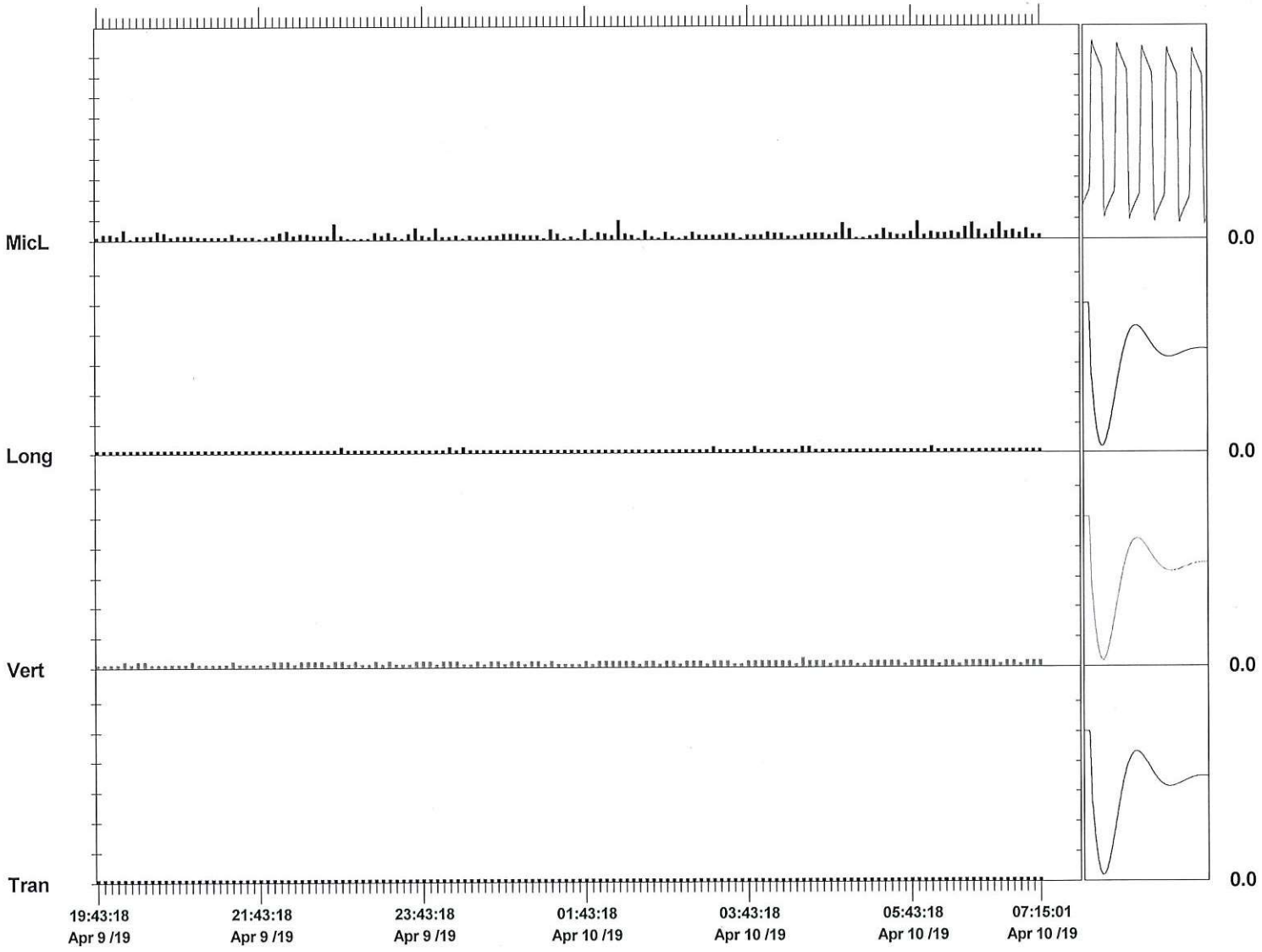
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	104.2 dB(L) on April 10, 2019 at 02:04:18
ZC Freq	57 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 589 mv)

	Tran	Vert	Long	
PPV	0.005	0.015	0.010	in/s
ZC Freq	>100	24	>100	Hz
Date	Apr 9 /19	Apr 10 /19	Apr 9 /19	
Time	19:39:18	04:19:18	22:41:18	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.019 in/s on April 10, 2019 at 04:19:18



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

Printed: May 30, 2019 (V 10.74)

Format © 1995-2015 Xmark Corporation

Instantel

Event Report

Histogram Start Time	07:18:15 April 10, 2019
Histogram Finish Time	19:35:00 April 10, 2019
Number of Intervals	737.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HVW6.YF0H

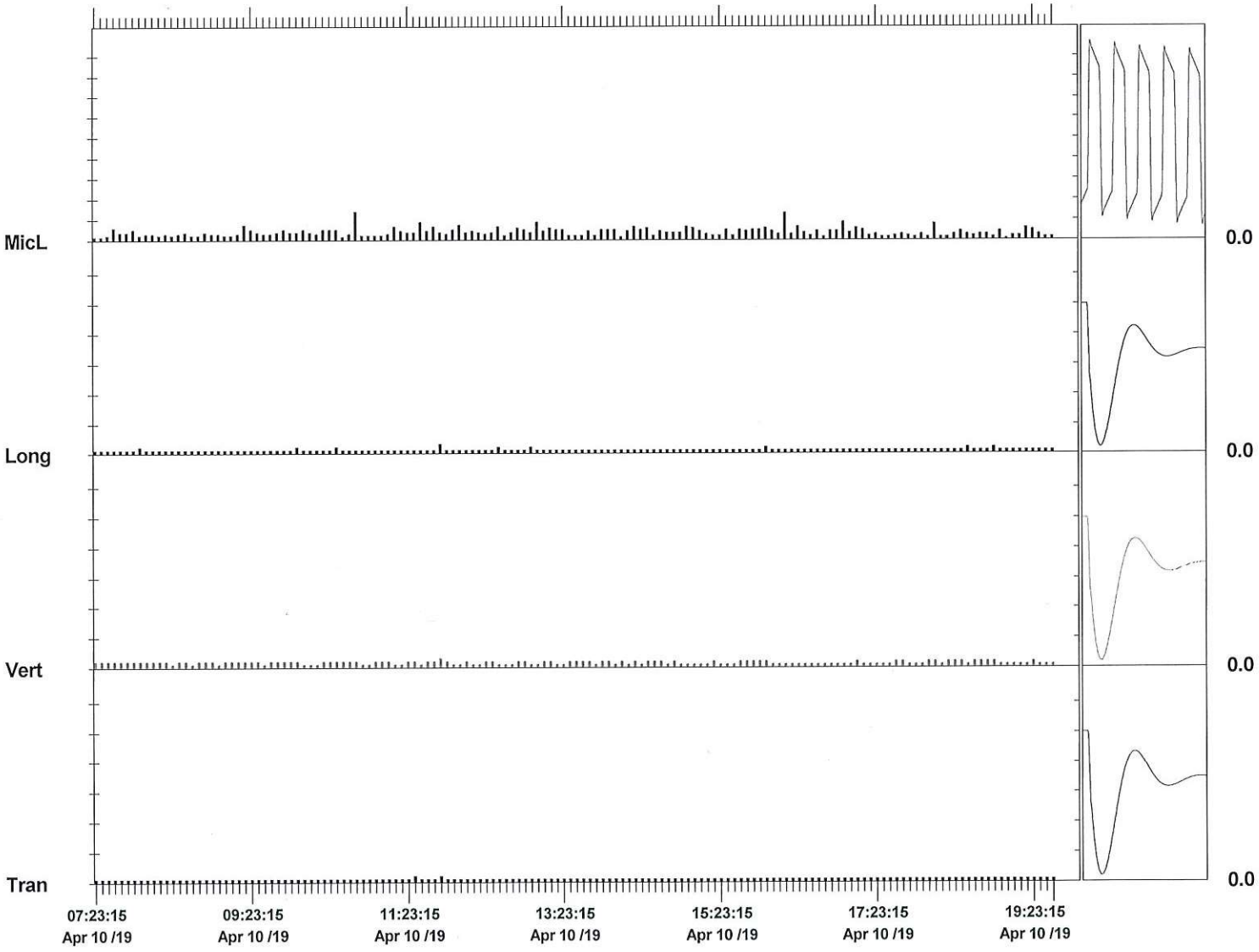
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	107.5 dB(L) on April 10, 2019 at 10:41:15
ZC Freq	57 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 570 mv)

	Tran	Vert	Long	
PPV	0.010	0.015	0.015	in/s
ZC Freq	>100	30	27	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	11:27:15	11:47:15	11:47:15	
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.016 in/s on April 10, 2019 at 11:47:15



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.250 in/s/div Mic: 0.001 psi(L)/div Sensor Check

Printed: May 30, 2019 (V 10.74)

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Instantel

Event Report

Histogram Start Time	19:38:19 April 10, 2019	**Serial Number**	BE6907 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	07:15:01 April 11, 2019	**Battery Level**	6.7 Volts
Number of Intervals	697.00 at 1 minute	**Unit Calibration**	April 25, 2018 by Instantel
Range	Geo:10.000 in/s	**File Name**	H907HVX5.7V0H
Sample Rate	1024sps		

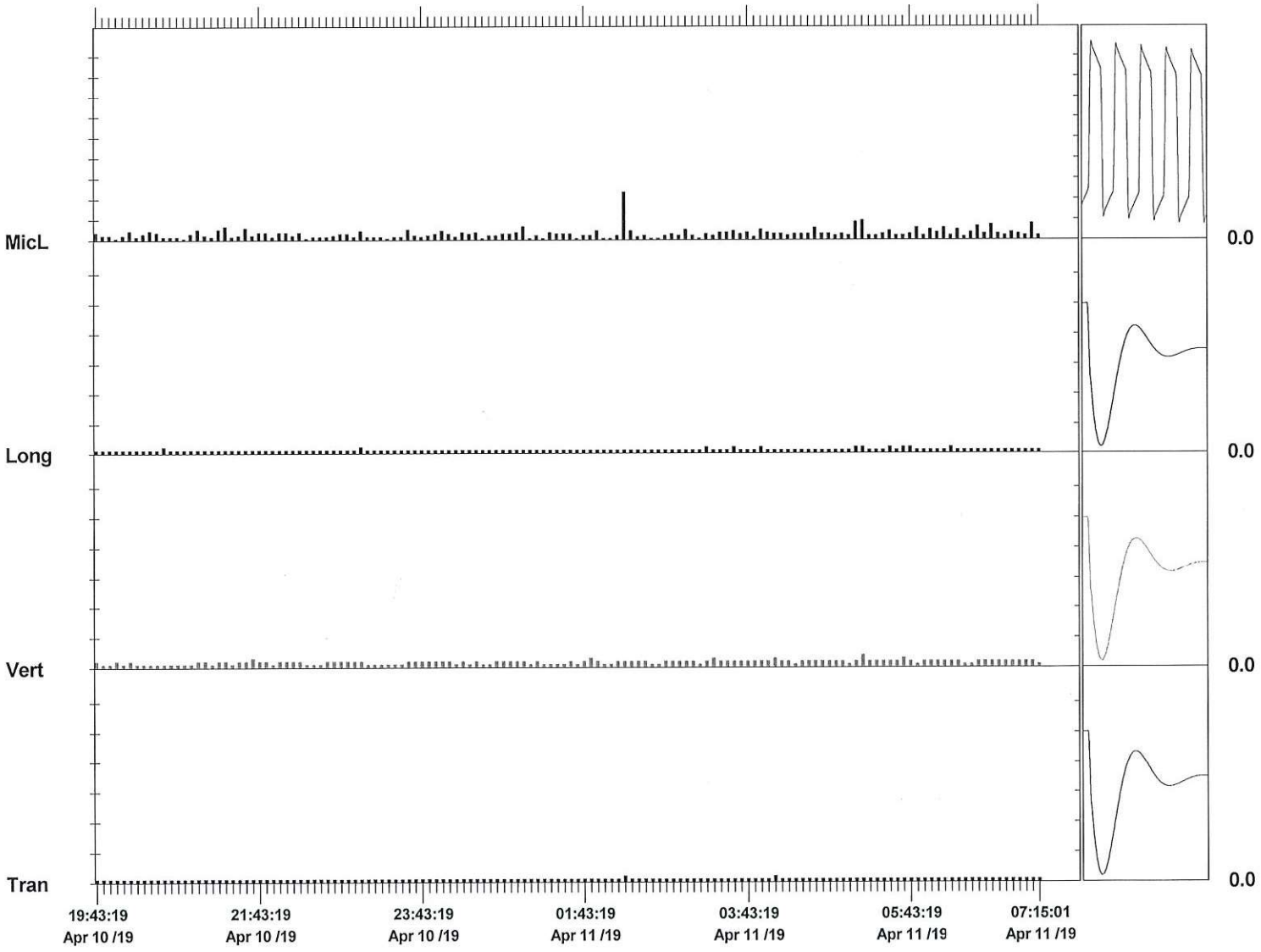
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	112.0 dB(L) on April 11, 2019 at 02:11:19
ZC Freq	64 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 590 mv)

	Tran	Vert	Long	
PPV	0.010	0.020	0.010	in/s
ZC Freq	>100	20	>100	Hz
Date	Apr 11 /19	Apr 11 /19	Apr 10 /19	
Time	02:11:19	05:04:19	20:33:19	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.023 in/s on April 11, 2019 at 05:04:19



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.250 in/s/div Mic: 0.001 psi(L)/div Sensor Check

Printed: May 30, 2019 (V 10.74)

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Instantel

Event Report

Histogram Start Time	07:18:16 April 11, 2019
Histogram Finish Time	19:35:00 April 11, 2019
Number of Intervals	737.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HVY1.MG0H

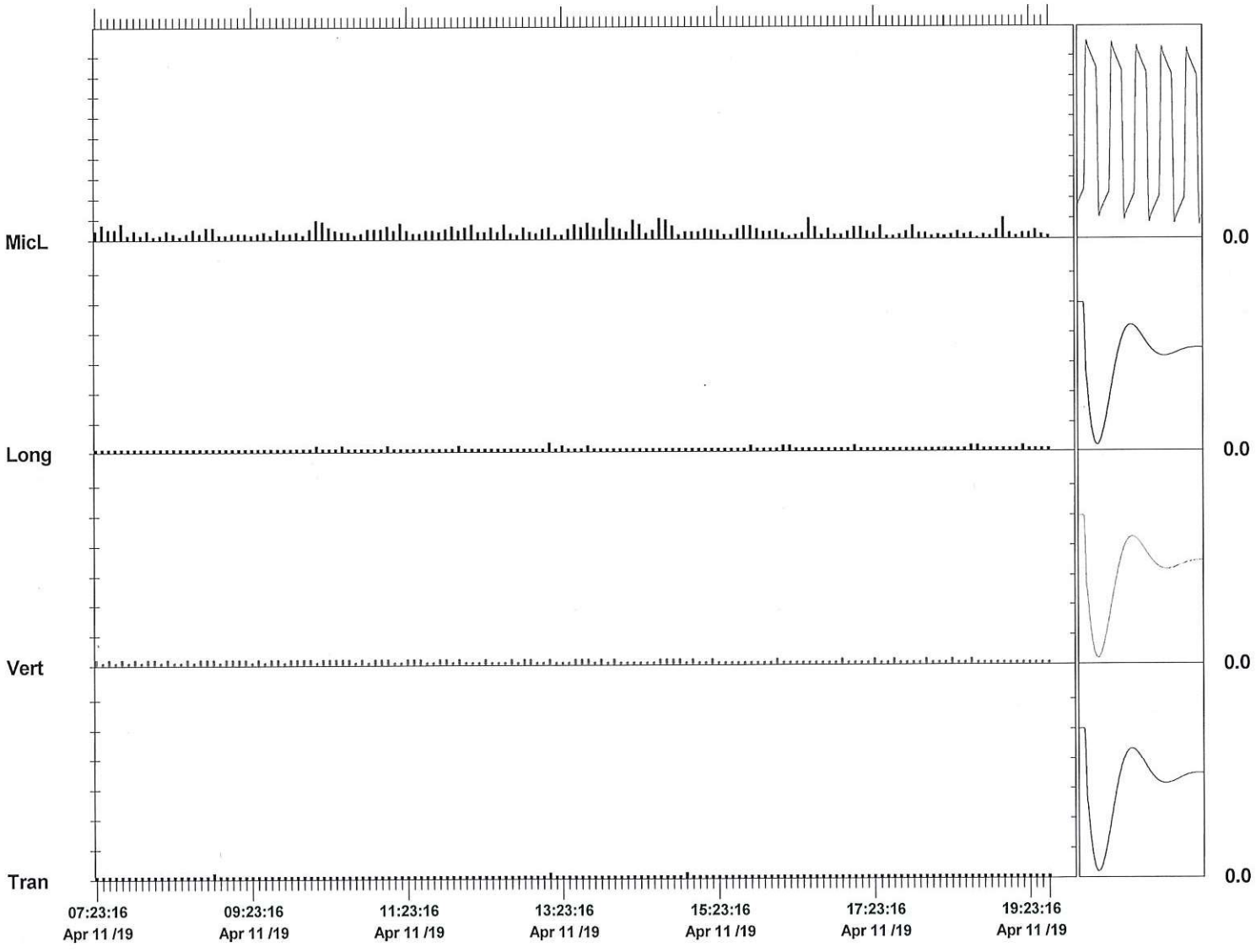
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	104.9 dB(L) on April 11, 2019 at 13:56:16
ZC Freq	11 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 588 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.015	in/s
ZC Freq	>100	>100	32	Hz
Date	Apr 11 /19	Apr 11 /19	Apr 11 /19	
Time	08:50:16	07:20:16	13:12:16	
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.016 in/s on April 11, 2019 at 13:12:16



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.0547 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Instantel

Event Report

Histogram Start Time	19:38:16 April 11, 2019
Histogram Finish Time	07:15:01 April 12, 2019
Number of Intervals	697.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HVYZ.VS0H

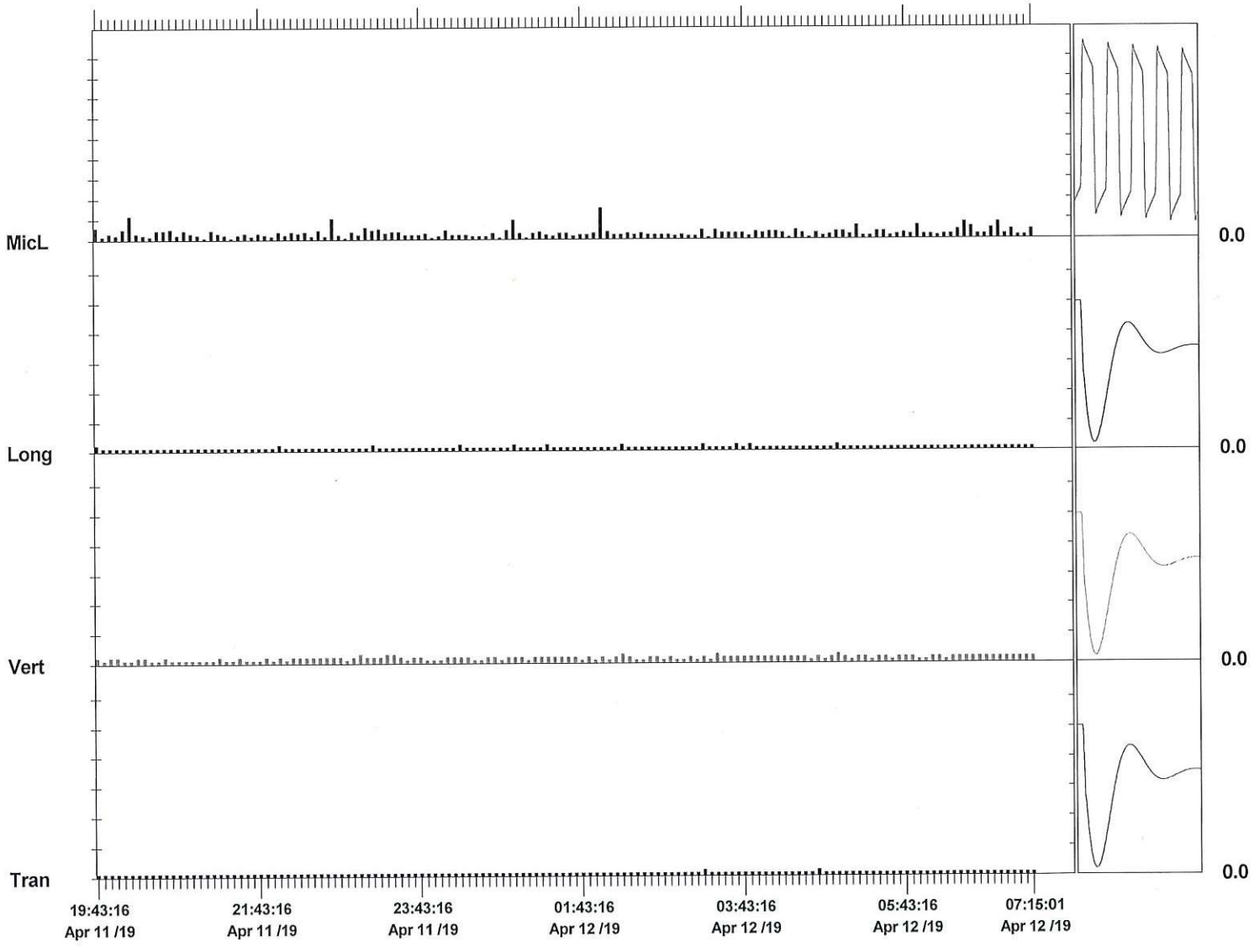
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	108.4 dB(L) on April 12, 2019 at 01:54:16
ZC Freq	57 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 542 mv)

	Tran	Vert	Long	
PPV	0.010	0.015	0.010	in/s
ZC Freq	>100	24	>100	Hz
Date	Apr 12 /19	Apr 11 /19	Apr 11 /19	
Time	03:11:16	22:56:16	19:42:16	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.019 in/s on April 12, 2019 at 02:12:16



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:18:19 April 12, 2019
Histogram Finish Time	19:35:00 April 12, 2019
Number of Intervals	737.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HVZW.AJ0H

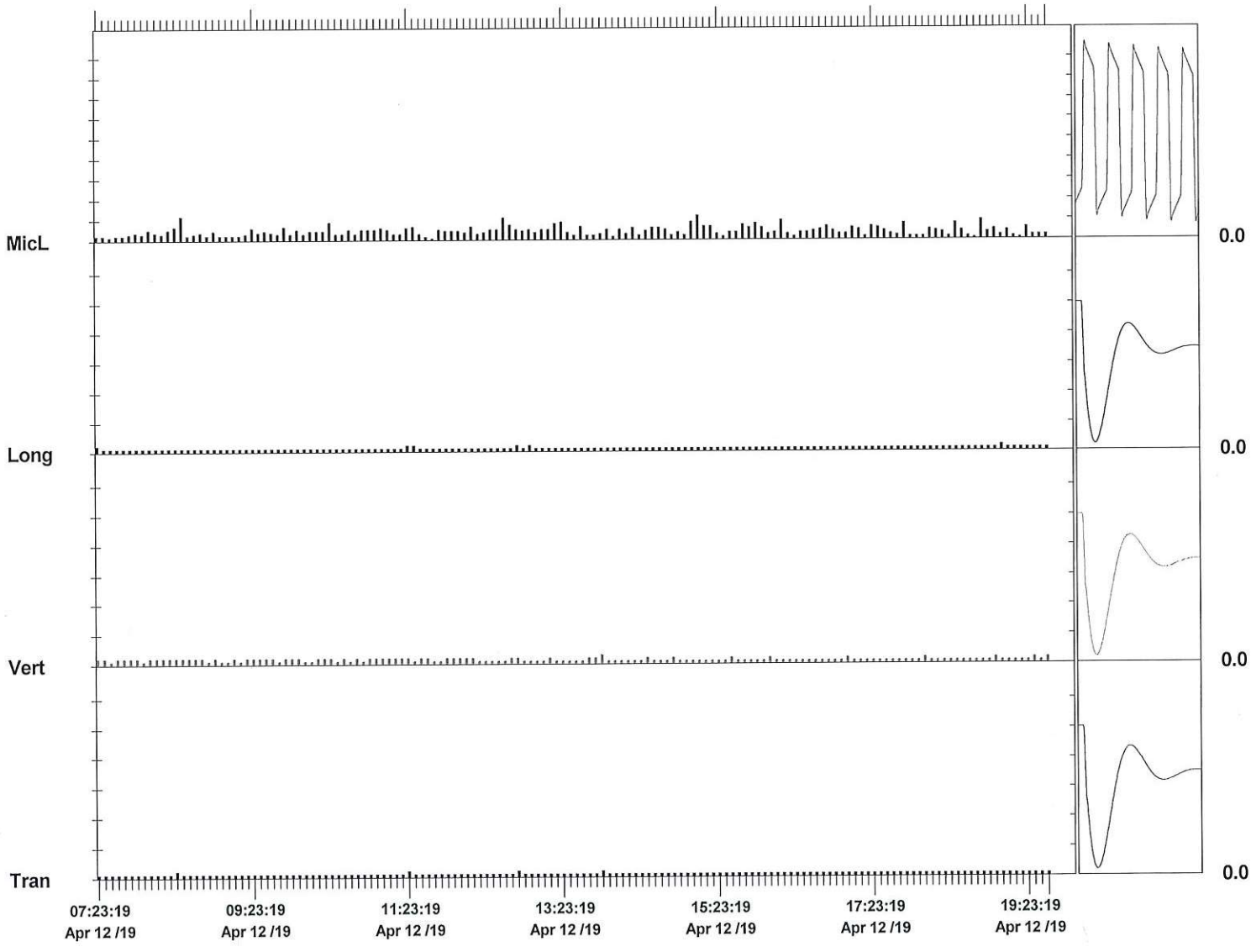
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	106.0 dB(L) on April 12, 2019 at 08:24:19
ZC Freq	64 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 571 mv)

	Tran	Vert	Long	
PPV	0.010	0.015	0.010	in/s
ZC Freq	>100	85	>100	Hz
Date	Apr 12 /19	Apr 12 /19	Apr 12 /19	
Time	08:20:19	13:52:19	07:20:19	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.016 in/s on April 12, 2019 at 13:52:19



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.519 in/s Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:38:16 April 12, 2019
Histogram Finish Time	07:15:01 April 13, 2019
Number of Intervals	697.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HW0U.JS0H

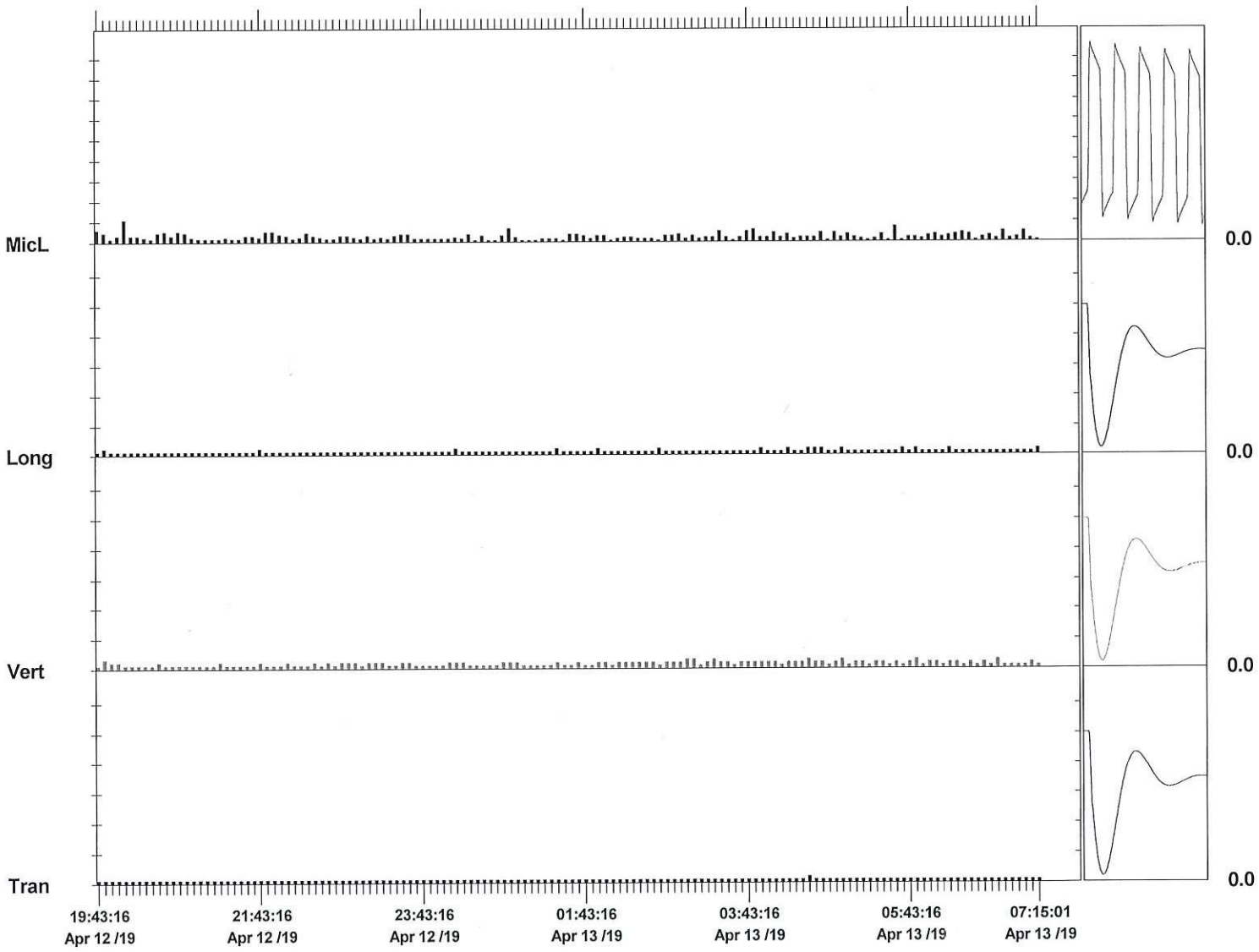
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphoné	Linear Weighting
PSPL	105.5 dB(L) on April 12, 2019 at 19:59:16
ZC Freq	11 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 548 mv)

	Tran	Vert	Long	
PPV	0.010	0.015	0.010	in/s
ZC Freq	>100	26	>100	Hz
Date	Apr 13 /19	Apr 12 /19	Apr 12 /19	
Time	04:27:16	19:47:16	19:46:16	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.019 in/s on April 13, 2019 at 04:27:16



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:18:15 April 13, 2019
Histogram Finish Time	19:35:00 April 13, 2019
Number of Intervals	737.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HW1Q.YF0H

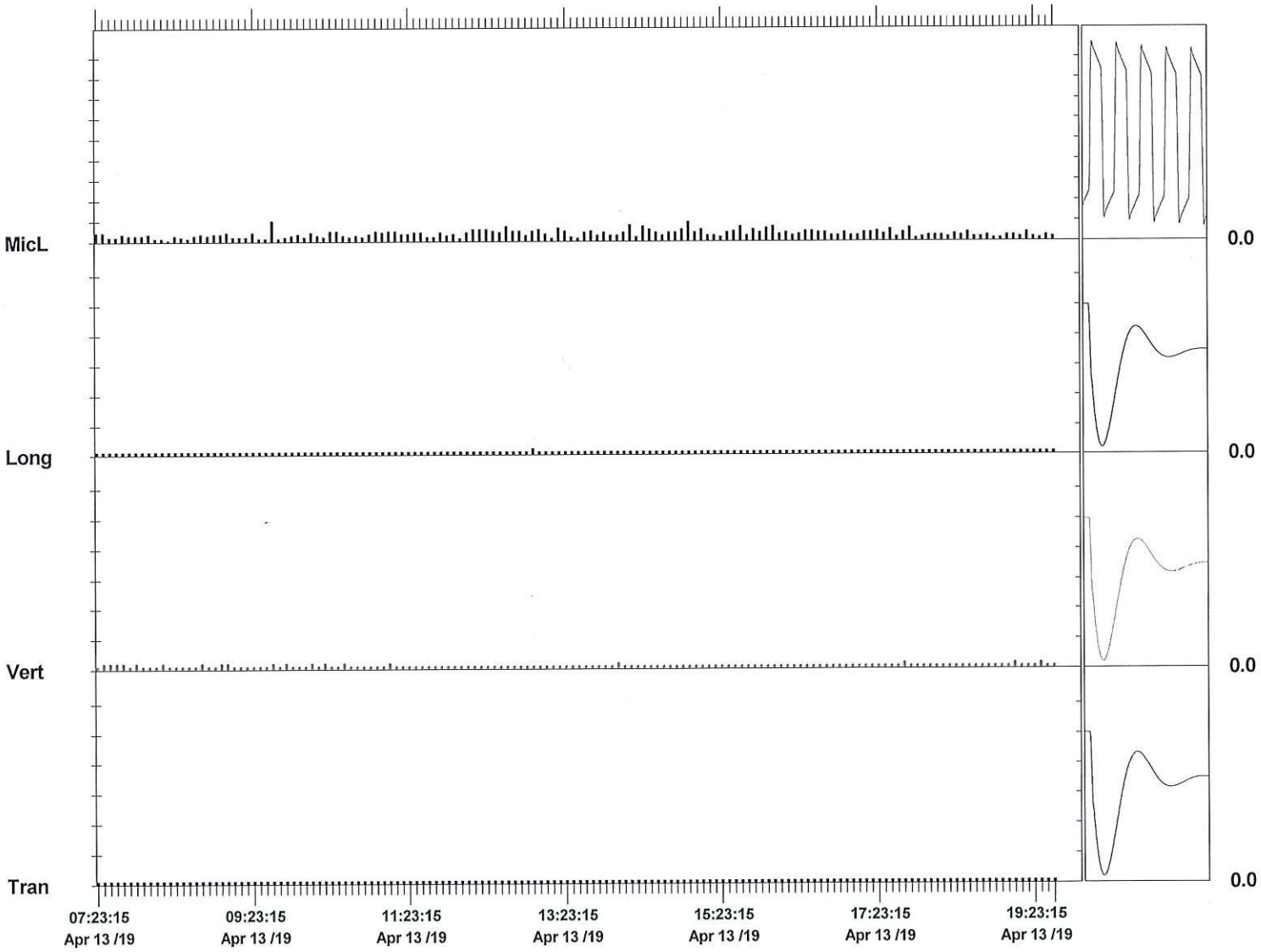
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	104.9 dB(L) on April 13, 2019 at 09:36:15
ZC Freq	73 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 537 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 13 /19	Apr 13 /19	Apr 13 /19	
Time	07:19:15	07:25:15	12:54:15	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.012 in/s on April 13, 2019 at 09:36:15



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.250 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:38:17 April 13, 2019
Histogram Finish Time	07:15:01 April 14, 2019
Number of Intervals	697.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HW2P.7T0H

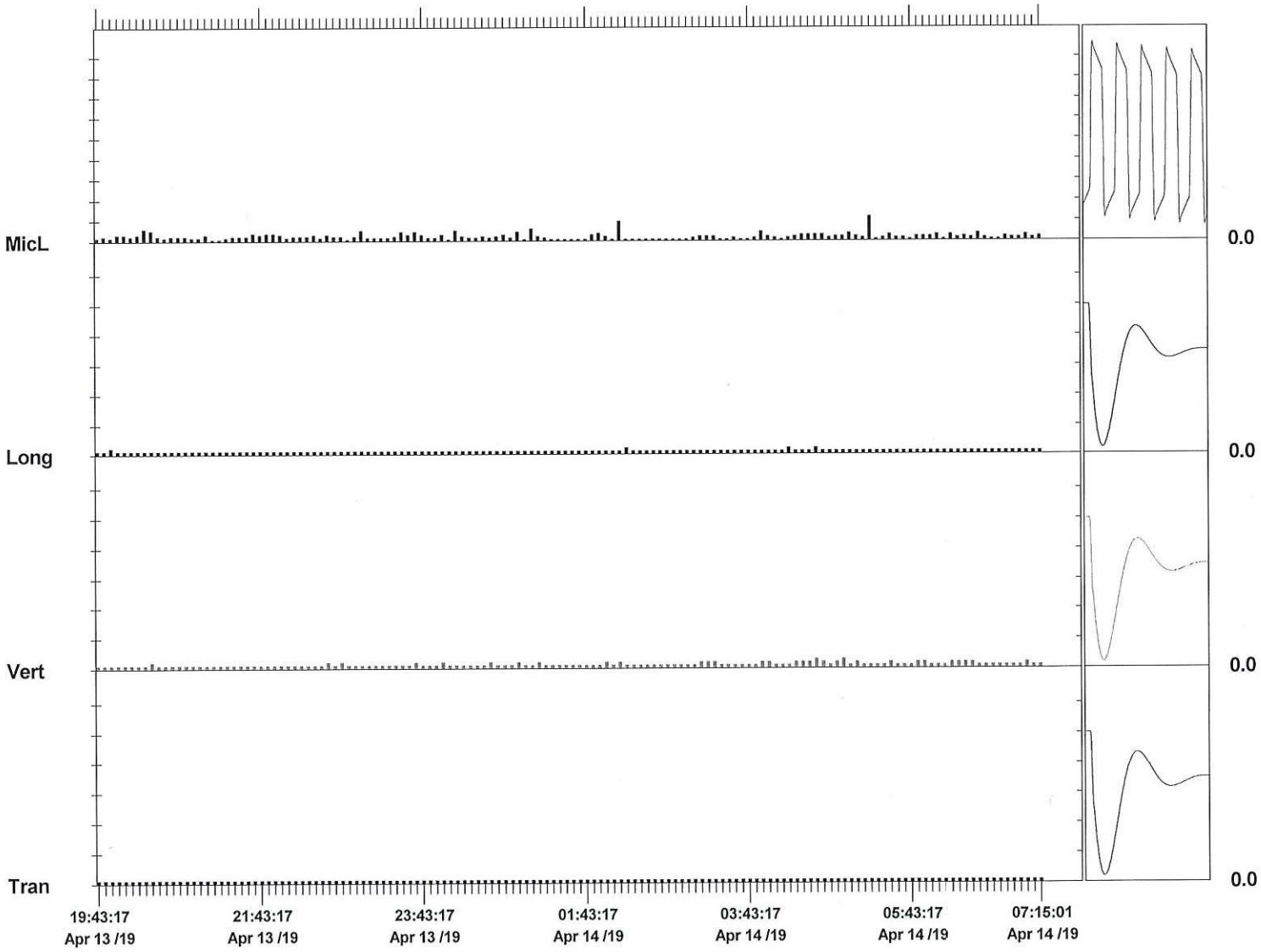
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	106.0 dB(L) on April 14, 2019 at 05:12:17
ZC Freq	64 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 537 mv)

	Tran	Vert	Long	
PPV	0.005	0.015	0.010	in/s
ZC Freq	>100	34	>100	Hz
Date	Apr 13 /19	Apr 14 /19	Apr 13 /19	
Time	19:39:17	04:32:17	19:49:17	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.018 in/s on April 14, 2019 at 04:32:17



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:18:15 April 14, 2019
Histogram Finish Time	19:35:00 April 14, 2019
Number of Intervals	737.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HW3L.MF0H

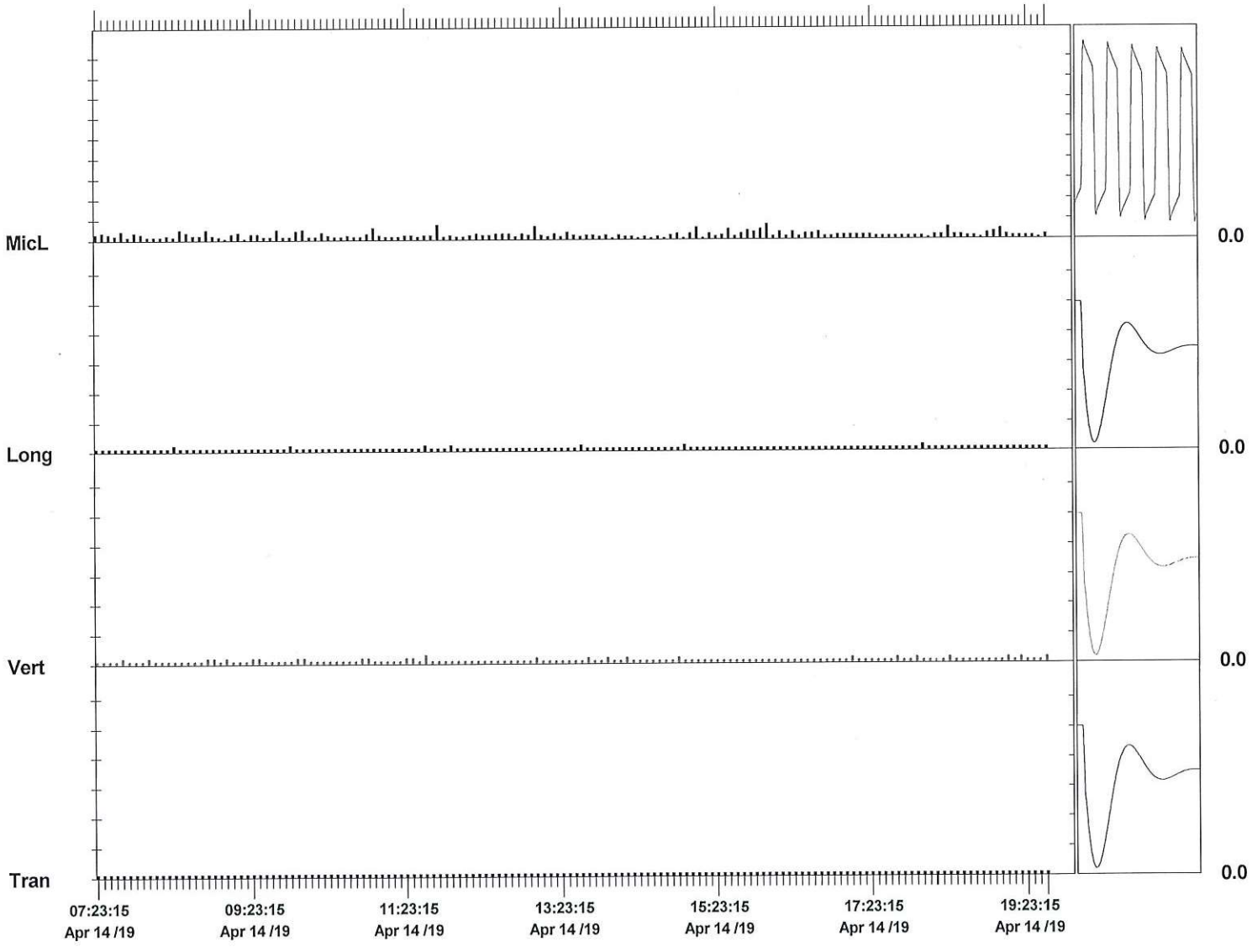
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	101.9 dB(L) on April 14, 2019 at 11:45:15
ZC Freq	11 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 556 mv)

	Tran	Vert	Long	
PPV	0.005	0.015	0.010	in/s
ZC Freq	>100	23	>100	Hz
Date	Apr 14 /19	Apr 14 /19	Apr 14 /19	
Time	07:19:15	11:36:15	08:19:15	
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.019 in/s on April 14, 2019 at 11:36:15



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.551 in/s Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:38:19 April 14, 2019
Histogram Finish Time	07:15:01 April 15, 2019
Number of Intervals	697.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.3 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HW4J.VV0H

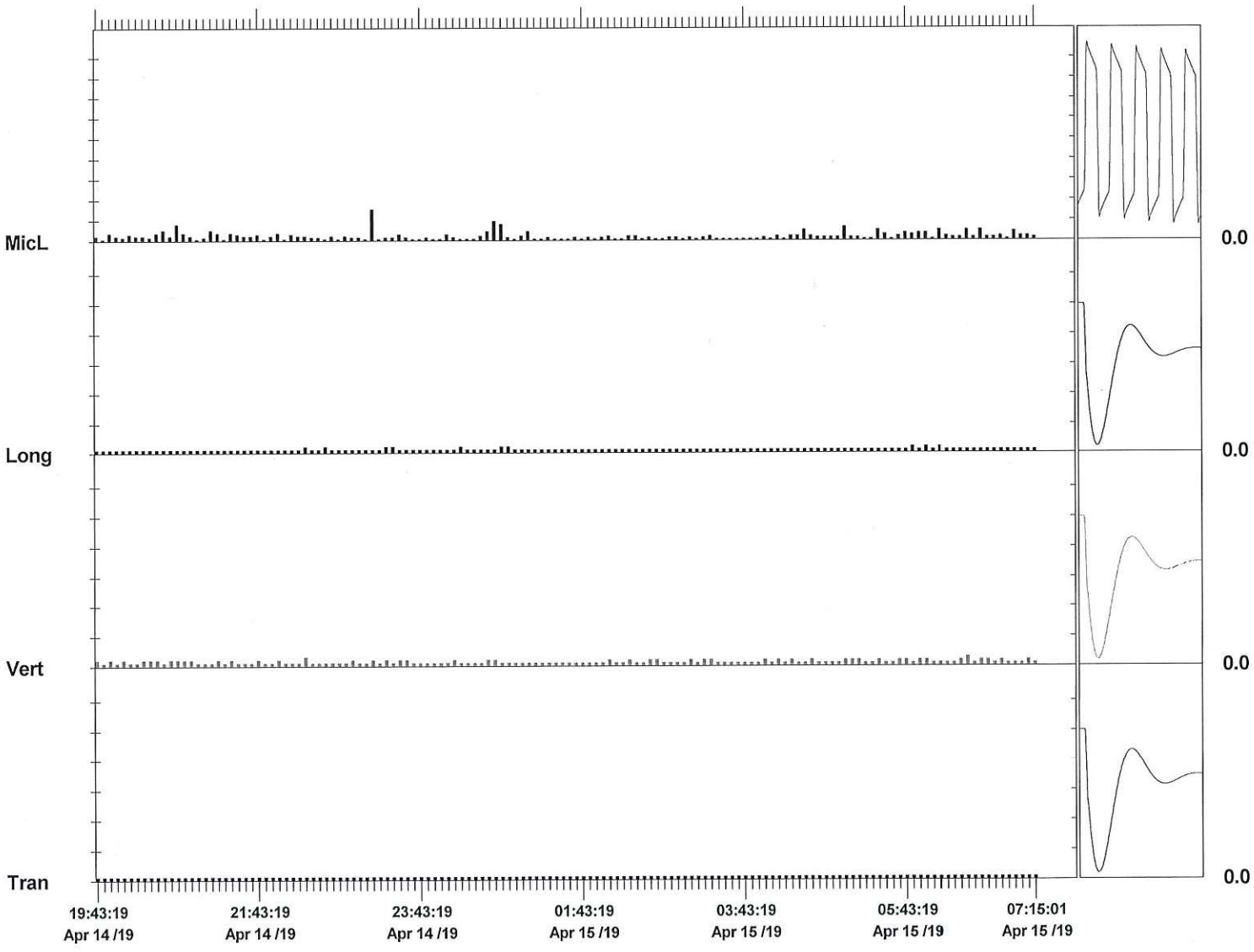
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	108.4 dB(L) on April 14, 2019 at 23:06:19
ZC Freq	57 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 570 mv)

	Tran	Vert	Long	
PPV	0.005	0.015	0.010	in/s
ZC Freq	>100	28	>100	Hz
Date	Apr 14 /19	Apr 14 /19	Apr 14 /19	
Time	19:39:19	22:14:19	22:14:19	
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.018 in/s on April 14, 2019 at 22:14:19



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.254 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:20:15 April 15, 2019
Histogram Finish Time	16:07:29 April 15, 2019
Number of Intervals	528.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HW5G.DR0H

Notes

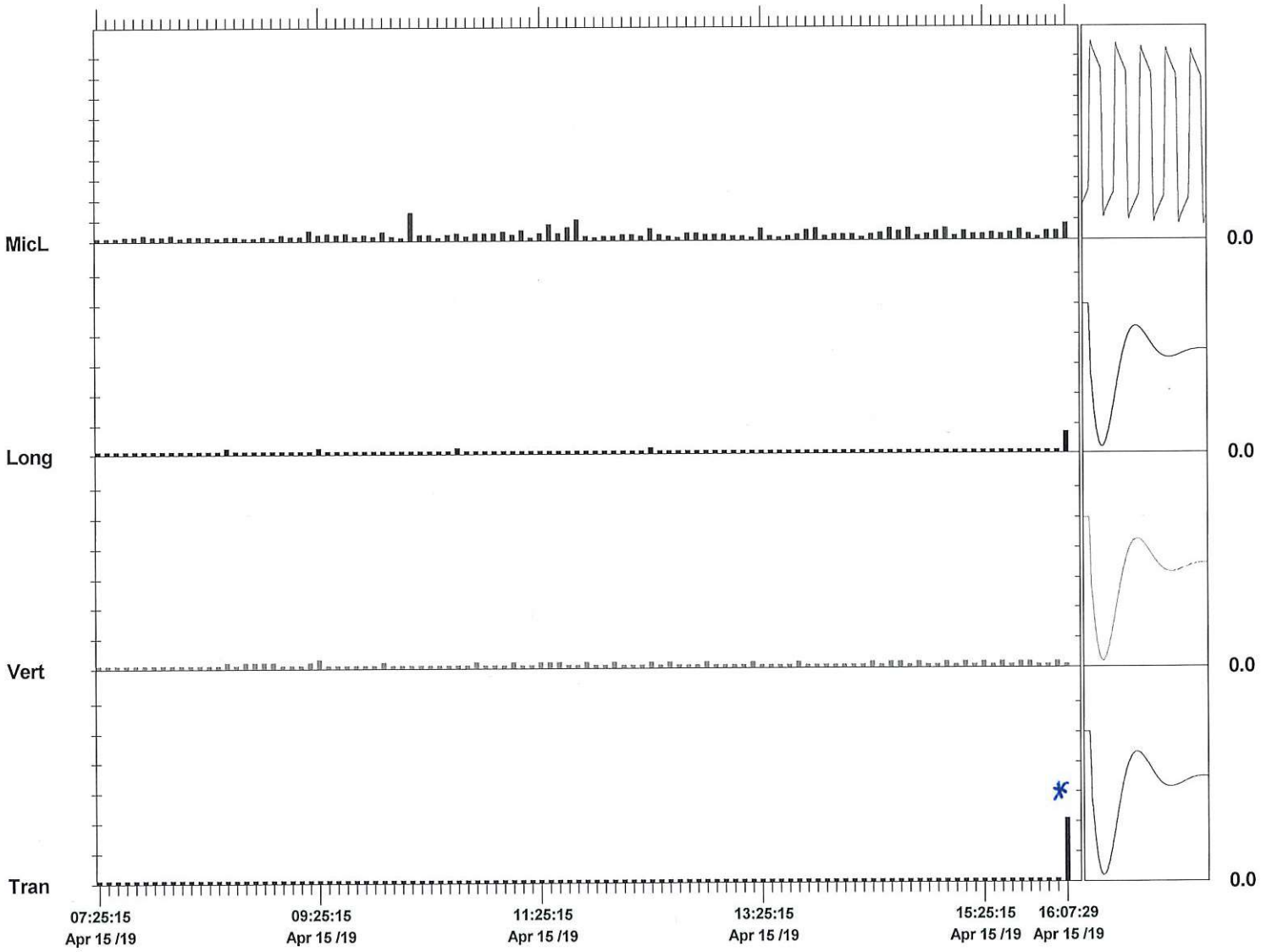
Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	107.5 dB(L) on April 15, 2019 at 10:14:15
ZC Freq	3.6 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 560 mv)

* FALSE TRIGGER - POWER LOST TO UNIT - HAD TO BE MOVED TO OTHER OUTLET - OWNER HELP WITH RE-STARTING UNIT

	Tran	Vert	Long	
PPV	0.105	0.015	0.035	in/s
ZC Freq	>100	27	>100	Hz
Date	Apr 15 /19	Apr 15 /19	Apr 15 /19	
Time	16:07:29	09:23:15	16:07:29	
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.111 in/s on April 15, 2019 at 16:07:29



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.250 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Date/Time	Tran at 16:07:27 April 15, 2019
Trigger Source	Geo: 0.050 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HW64.SF0W

Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

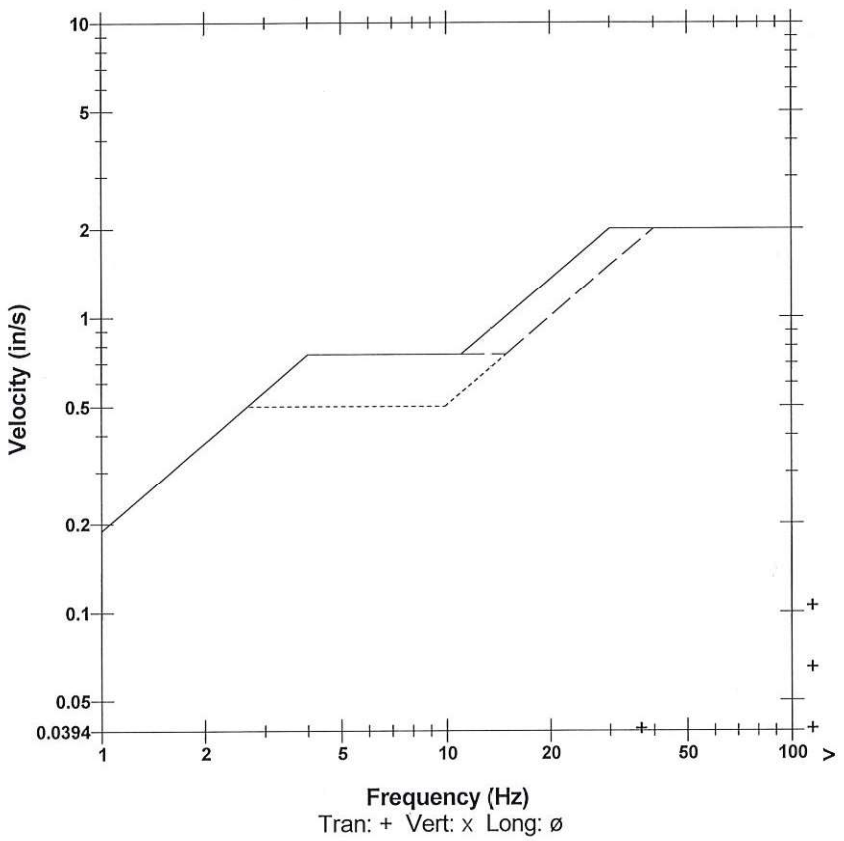
FALSE TRIGGER
UNIT BUMPED.

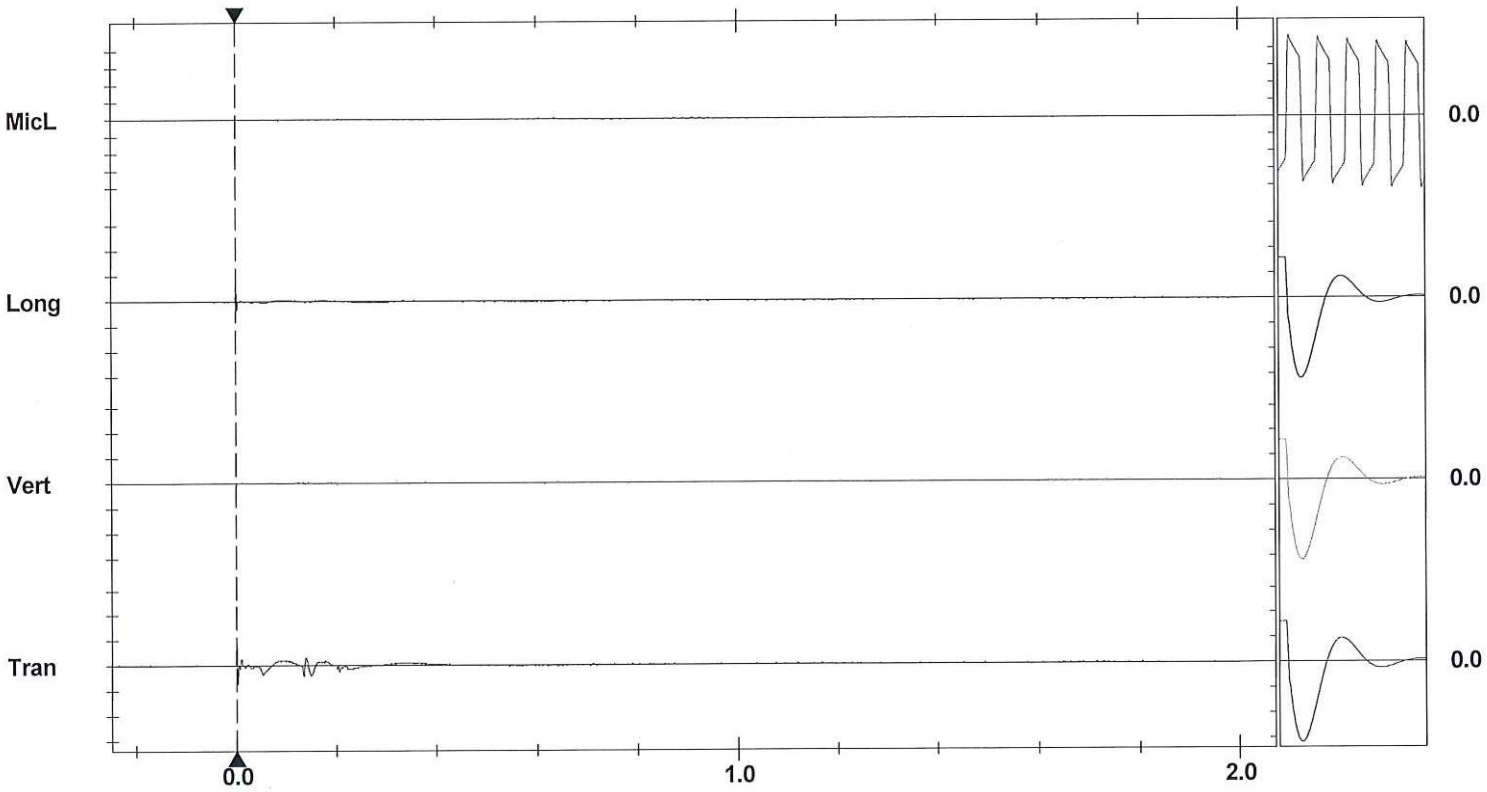
Microphone	Linear Weighting
PSPL	<88 dB(L)
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 560 mv)

	Tran	Vert	Long	
PPV	0.105	0.005	0.035	in/s
ZC Freq	>100	>100	>100	Hz
Time (Rel. to Trig)	0.000	-0.245	0.000	sec
Peak Acceleration	0.358	0.027	0.172	g
Peak Displacement	0.000	0.000	0.000	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.111 in/s at 0.000 sec
N/A: Not Applicable

USBM RI8507 And OSMRE





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.001 psi(L)/div
Trigger = ▶———◀

Sensor Check

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Event Report

Histogram Start Time	16:16:21 April 15, 2019	**Serial Number**	BE6907 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	19:35:00 April 15, 2019	**Battery Level**	6.7 Volts
Number of Intervals	199.00 at 1 minute	**Unit Calibration**	April 25, 2018 by Instantel
Range	Geo:10.000 in/s	**File Name**	H907HW65.790H
Sample Rate	1024sps		

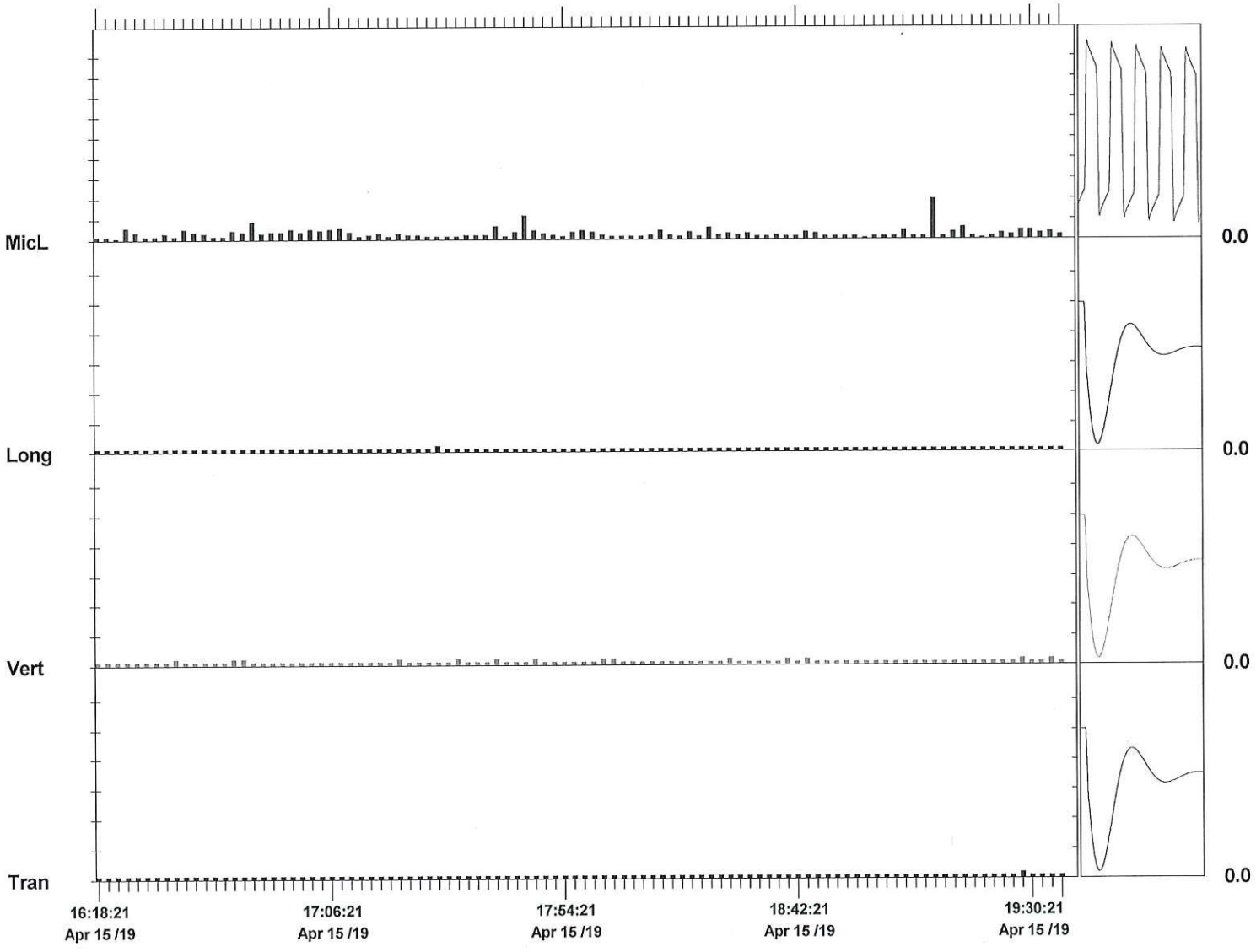
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	110.6 dB(L) on April 15, 2019 at 19:09:21
ZC Freq	64 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 558 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 15 /19	Apr 15 /19	Apr 15 /19	
Time	19:27:21	16:34:21	17:28:21	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.6	7.7	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.012 in/s on April 15, 2019 at 17:47:21



Time Scale: 2 minutes /div **Amplitude Scale:** Geo: 0.250 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:37:54 April 15, 2019
Histogram Finish Time	07:15:01 April 16, 2019
Number of Intervals	698.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HW6E.J60H

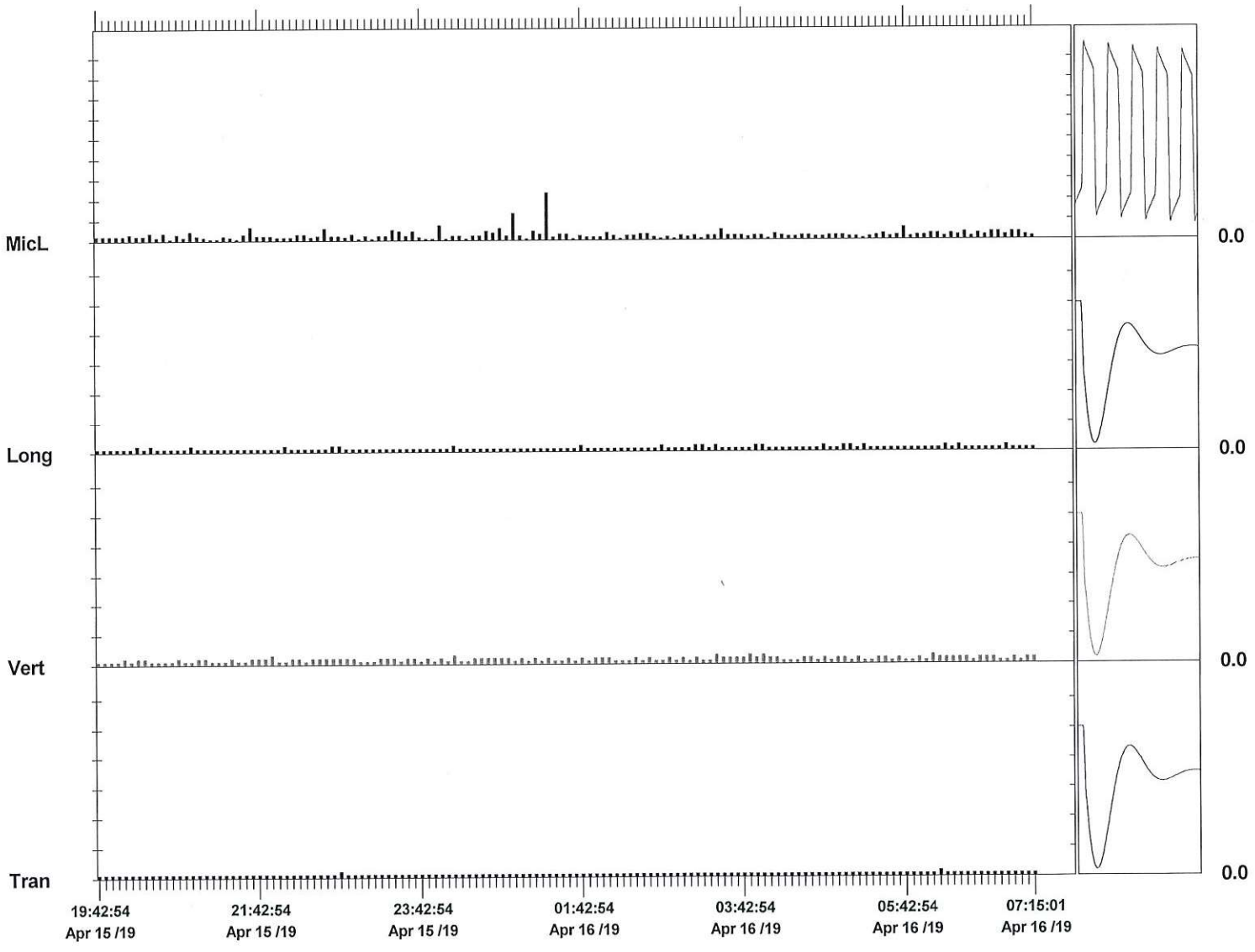
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	112.0 dB(L) on April 16, 2019 at 01:15:54
ZC Freq	64 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 592 mv)

	Tran	Vert	Long	
PPV	0.010	0.015	0.010	in/s
ZC Freq	>100	27	>100	Hz
Date	Apr 15 /19	Apr 15 /19	Apr 15 /19	
Time	22:41:54	21:50:54	20:11:54	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.6	7.6	Hz
Overswing Ratio	3.5	3.8	3.9	

Peak Vector Sum 0.018 in/s on April 16, 2019 at 03:53:54



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.561 in/s Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:18:19 April 16, 2019
Histogram Finish Time	19:35:00 April 16, 2019
Number of Intervals	737.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HW7A.YJ0H

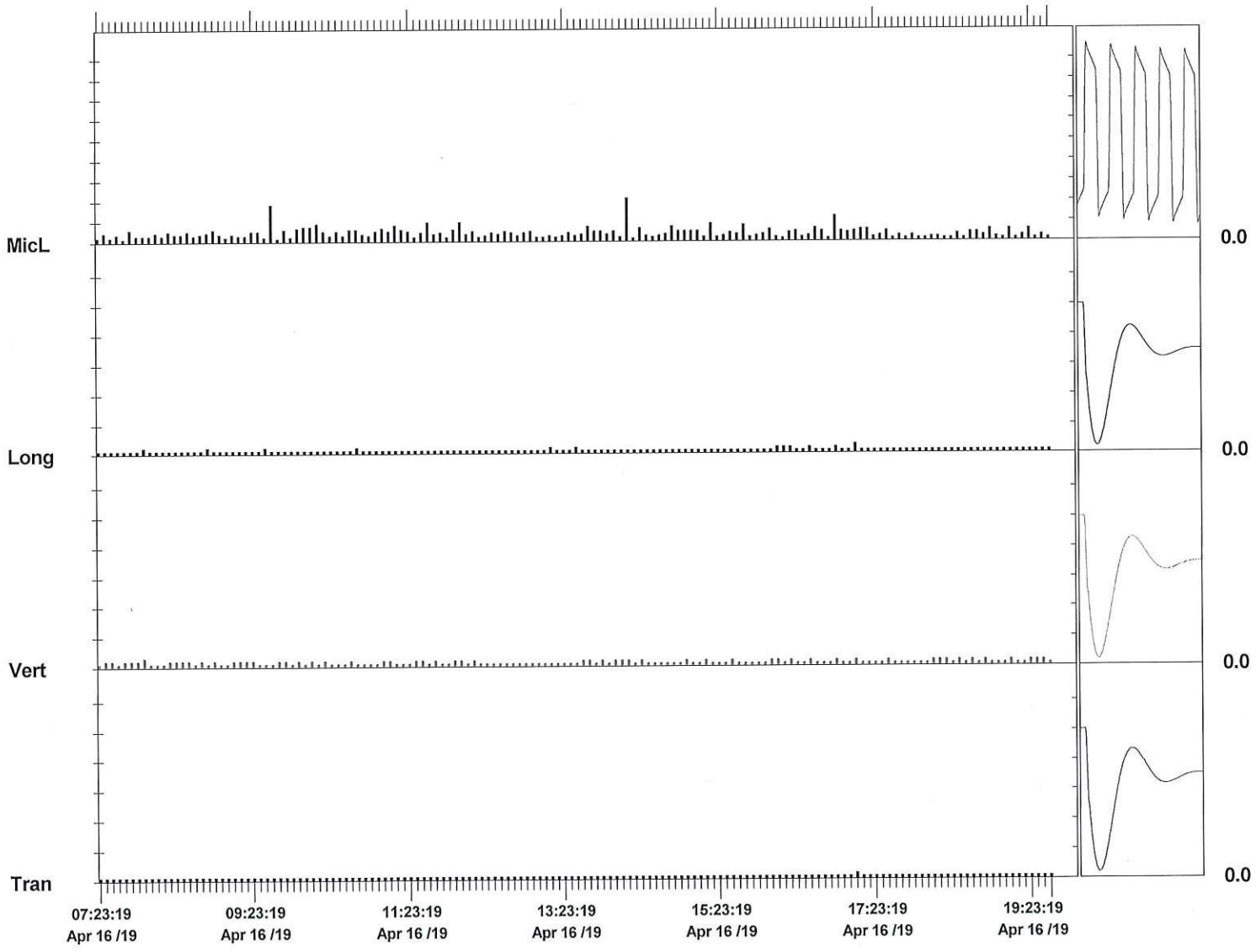
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	111.2 dB(L) on April 16, 2019 at 14:10:19
ZC Freq	57 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 596 mv)

	Tran	Vert	Long	
PPV	0.010	0.015	0.015	in/s
ZC Freq	>100	26	34	Hz
Date	Apr 16 /19	Apr 16 /19	Apr 16 /19	
Time	17:07:19	07:55:19	17:07:19	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.016 in/s on April 16, 2019 at 07:55:19



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:38:18 April 16, 2019
Histogram Finish Time	07:15:01 April 17, 2019
Number of Intervals	697.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE6907 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	April 25, 2018 by Instantel
File Name	H907HW89.7U0H

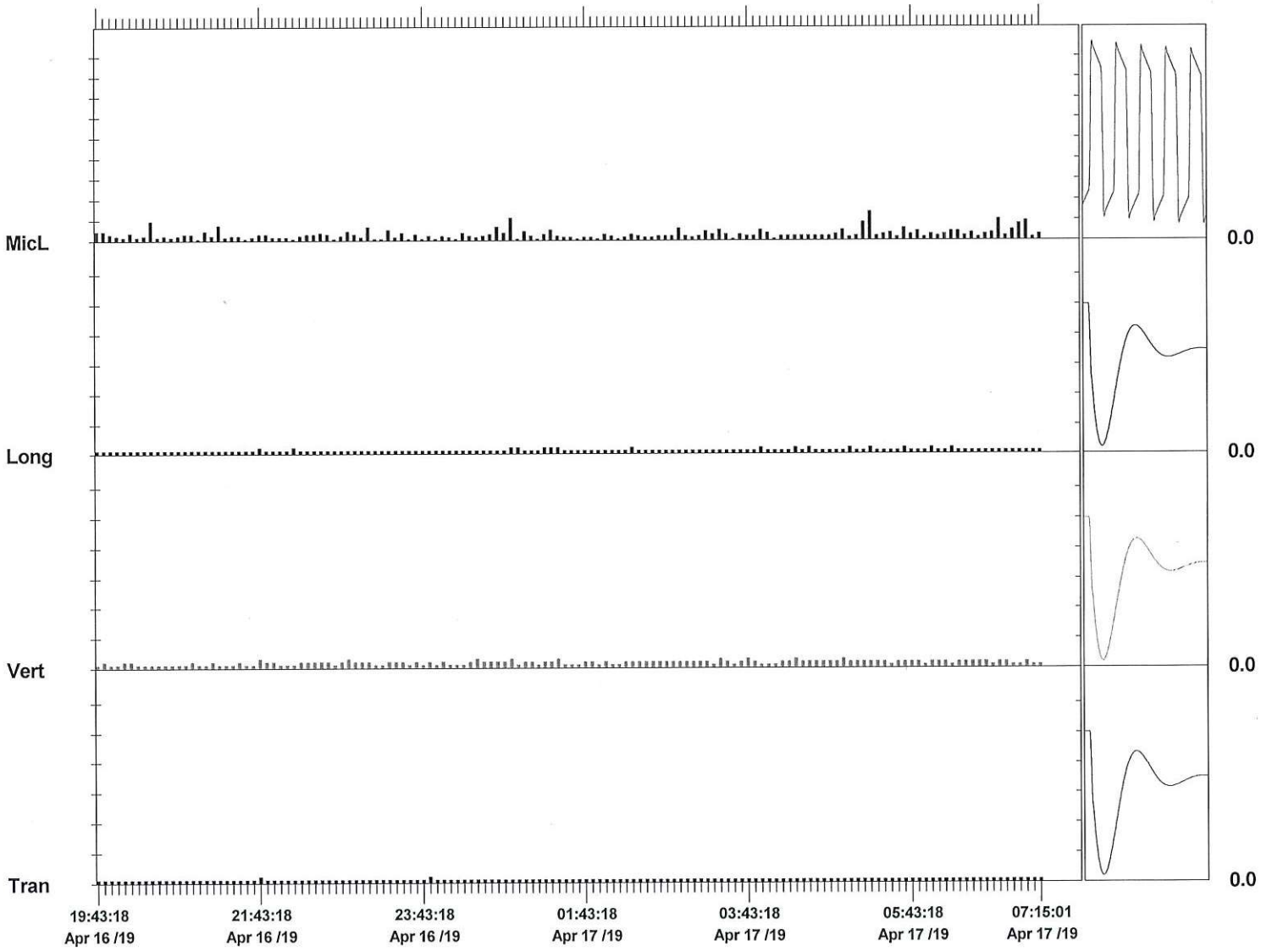
Notes

Project:	Lewisburg Corridor Study - 439 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 4 - 439 Market St - Pineapple Inn

Microphone	Linear Weighting
PSPL	107.5 dB(L) on April 17, 2019 at 05:13:18
ZC Freq	64 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 562 mv)

	Tran	Vert	Long	
PPV	0.010	0.015	0.010	in/s
ZC Freq	>100	28	>100	Hz
Date	Apr 16 /19	Apr 16 /19	Apr 16 /19	
Time	21:43:18	21:43:18	21:43:18	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.6	Hz
Overswing Ratio	3.5	3.7	3.9	

Peak Vector Sum 0.019 in/s on April 16, 2019 at 21:43:18



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

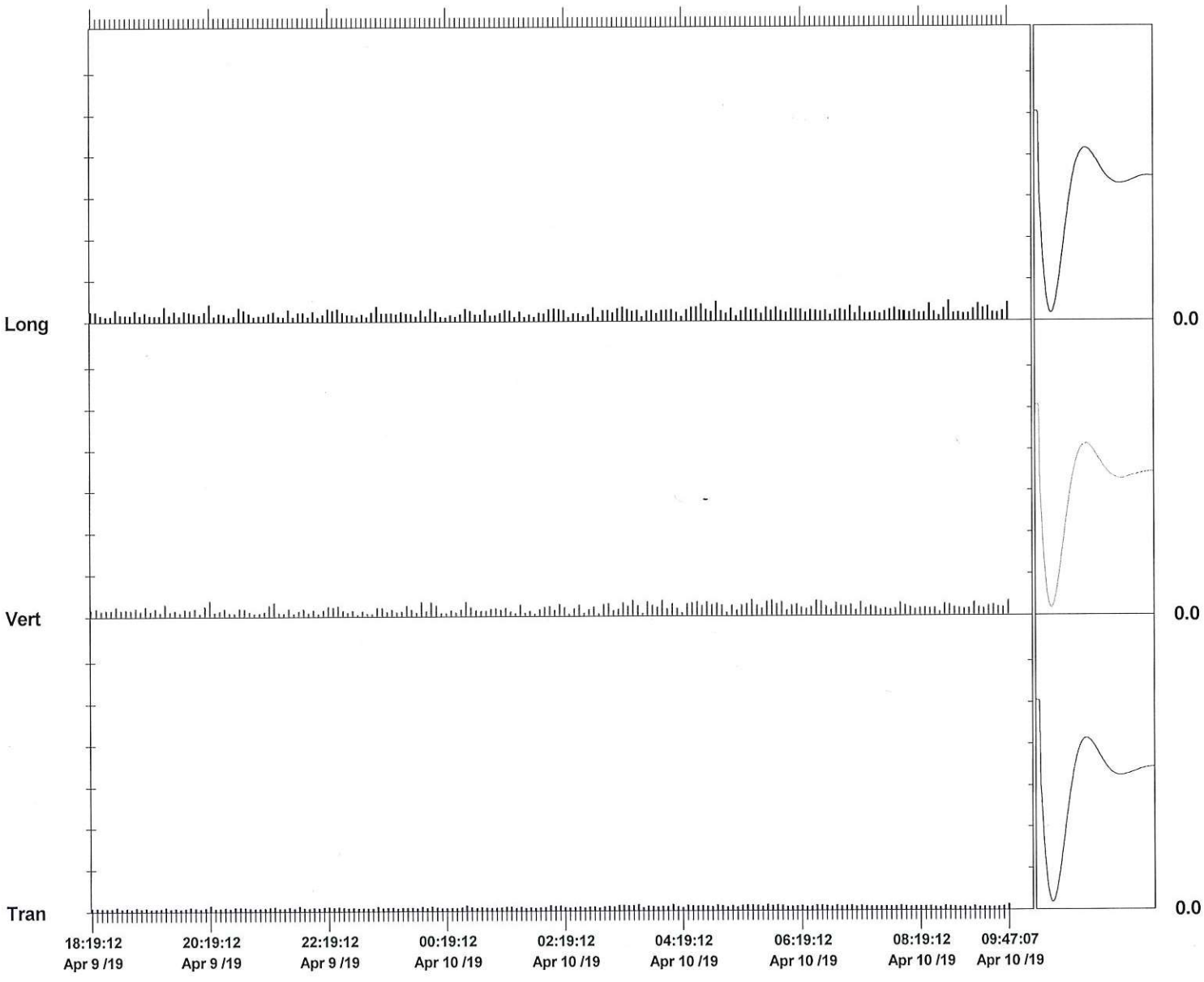
Histogram Start Time	18:14:12 April 9, 2019	**Serial Number**	UM14133 V 10-89 Micromate ISEE
Histogram Finish Time	09:47:07 April 10, 2019	**Battery Level**	3.8 Volts
Number of Intervals	932.91 at 1 minute	**Unit Calibration**	July 26, 2018 by Instantel
Range	Geo:10.000 in/s	**File Name**	UM14133_20190409181412.IDFH
Sample Rate	1024sps		
Operator/Setup:	Operator/800 MARKET.MMB		

Notes

Location	800 Market -2nd Floor INT
Client	TPD
Company	Terra-Mechanics, Inc. - Dave Harrison
General Notes	Loc 5A

	Tran	Vert	Long	
PPV	0.007	0.019	0.024	in/s
ZC Freq	14	17	9.1	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	03:33:12	05:29:12	08:46:12	
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.3	Hz
Overswing Ratio	4.7	4.7	4.4	

Peak Vector Sum · 0.024 in/s on April 10, 2019 at 08:46:12



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.561 in/s/div Sensor Check

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Event Report

Histogram Start Time	19:32:52 April 10, 2019
Histogram Finish Time	07:30:01 April 11, 2019
Number of Intervals	718.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HVX4.YS0H

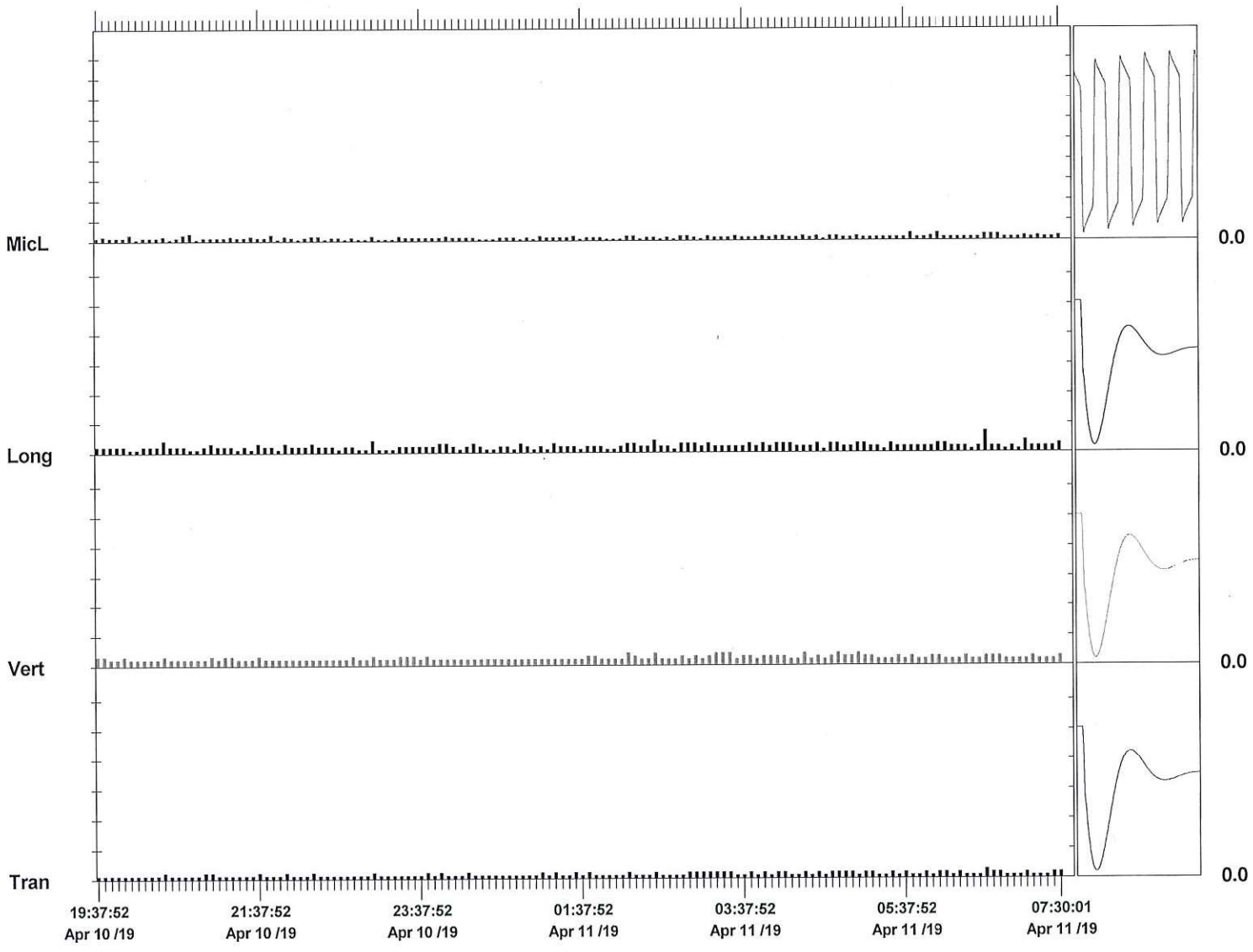
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	95.9 dB(L) on April 10, 2019 at 20:44:52
ZC Freq	3.1 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 537 mv)

	Tran	Vert	Long	
PPV	0.015	0.020	0.035	in/s
ZC Freq	47	23	15	Hz
Date	Apr 11 /19	Apr 11 /19	Apr 11 /19	
Time	06:33:52	02:08:52	06:33:52	
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.4	7.4	Hz
Overswing Ratio	3.9	3.6	4.1	

Peak Vector Sum 0.036 in/s on April 11, 2019 at 06:33:52



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:33:11 April 11, 2019	**Serial Number**	BE12599 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	19:30:00 April 11, 2019	**Battery Level**	6.7 Volts
Number of Intervals	717.00 at 1 minute	**Unit Calibration**	June 6, 2018 by Instantel
Range	Geo:10.000 in/s	**File Name**	N599HVY2.BB0H
Sample Rate	1024sps		

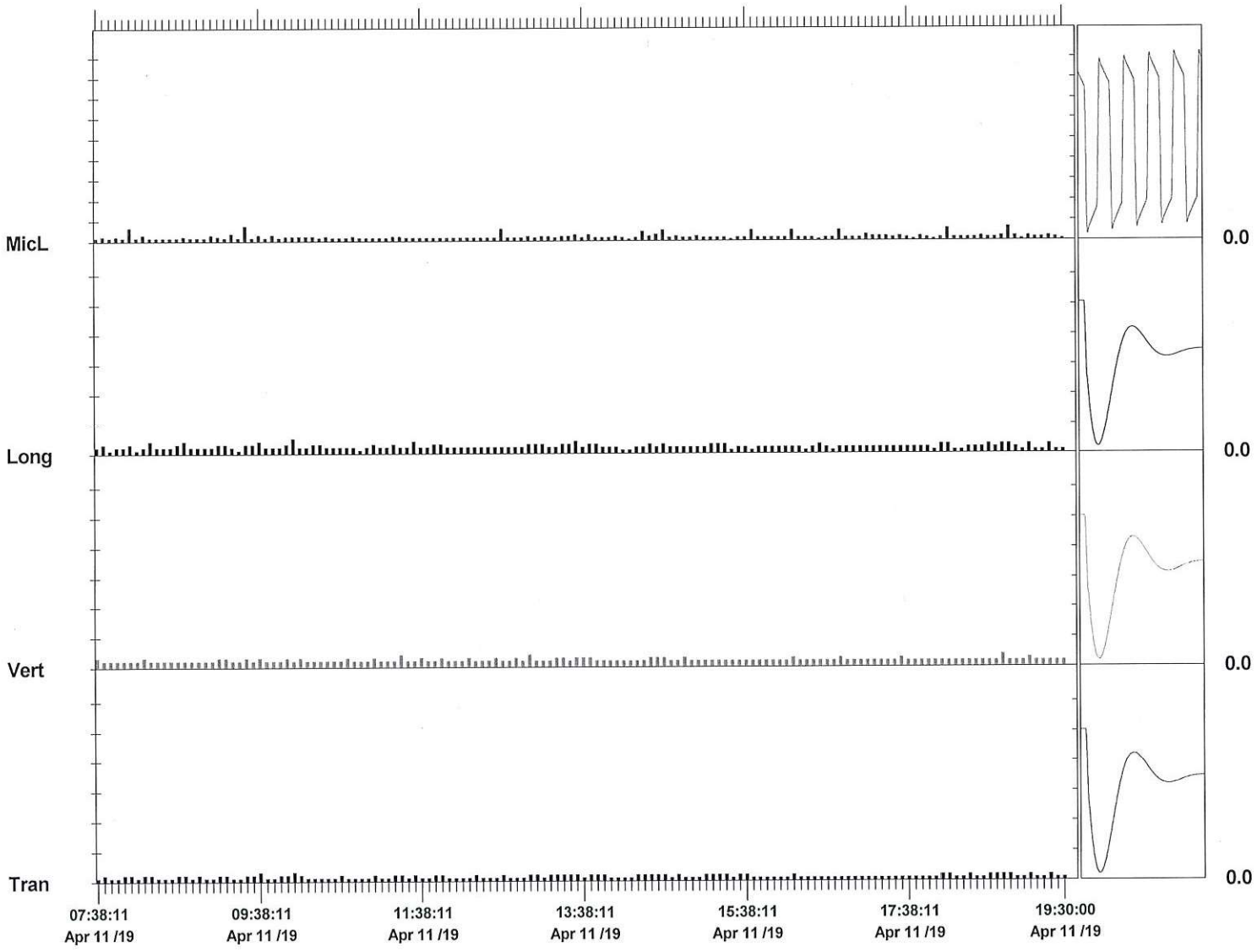
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	101.9 dB(L) on April 11, 2019 at 09:24:11
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 550 mv)

	Tran	Vert	Long	
PPV	0.015	0.020	0.025	in/s
ZC Freq	>100	22	11	Hz
Date	Apr 11 /19	Apr 11 /19	Apr 11 /19	
Time	09:37:11	11:21:11	10:00:11	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.4	Hz
Overswing Ratio	4.0	3.6	4.1	

Peak Vector Sum 0.030 in/s on April 11, 2019 at 10:00:11



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.563 in/s Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:33:09 April 11, 2019	**Serial Number**	BE12599 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	07:30:01 April 12, 2019	**Battery Level**	6.7 Volts
Number of Intervals	717.00 at 1 minute	**Unit Calibration**	June 6, 2018 by Instantel
Range	Geo:10.000 in/s	**File Name**	N599HVYZ.N90H
Sample Rate	1024sps		

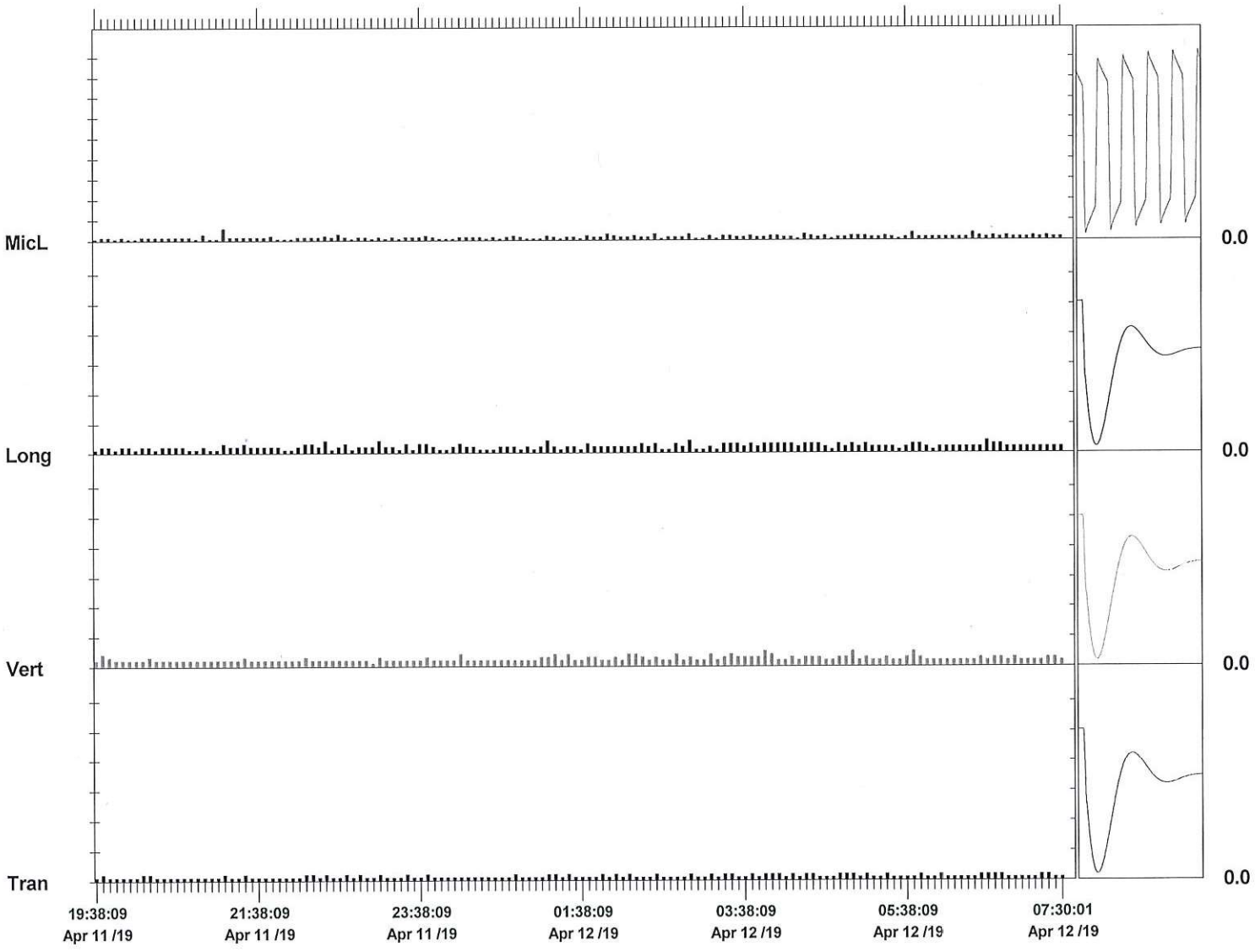
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	100.0 dB(L) on April 11, 2019 at 21:12:09
ZC Freq	3.4 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 526 mv)

	Tran	Vert	Long	
PPV	0.010	0.025	0.020	in/s
ZC Freq	>100	21	21	Hz
Date	Apr 11 /19	Apr 12 /19	Apr 11 /19	
Time	19:40:09	03:50:09	22:28:09	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.4	Hz
Overswing Ratio	3.9	3.6	4.1	

Peak Vector Sum 0.025 in/s on April 12, 2019 at 03:50:09



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.556 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:33:12 April 12, 2019
Histogram Finish Time	19:30:00 April 12, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HVZW.ZC0H

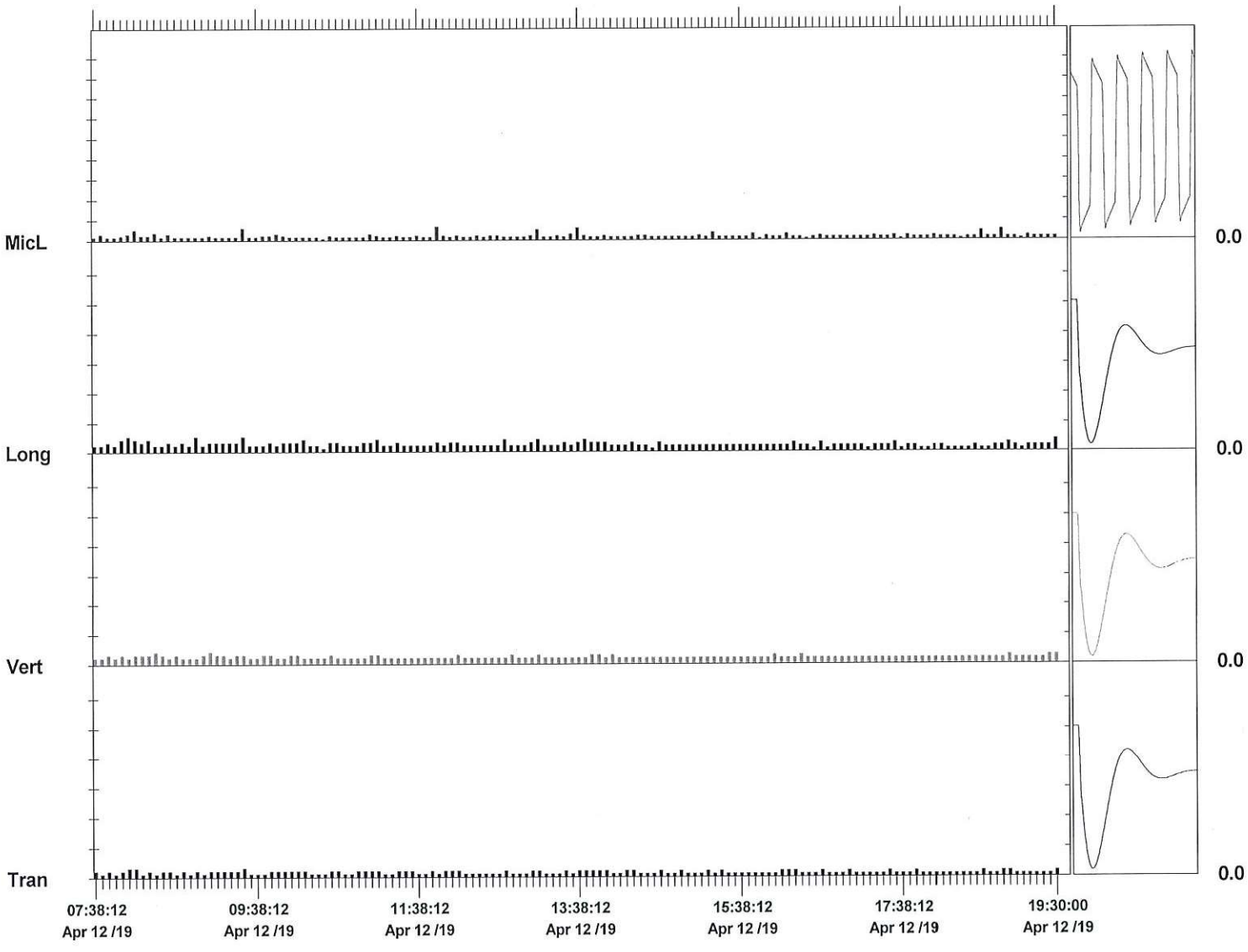
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	101.0 dB(L) on April 12, 2019 at 11:53:12
ZC Freq	3.5 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 557 mv)

	Tran	Vert	Long	
PPV	0.015	0.020	0.025	in/s
ZC Freq	23	21	7.2	Hz
Date	Apr 12 /19	Apr 12 /19	Apr 12 /19	
Time	08:02:12	08:20:12	08:02:12	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.4	Hz
Overswing Ratio	4.0	3.6	4.1	

Peak Vector Sum 0.030 in/s on April 12, 2019 at 09:28:12



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.536 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:33:08 April 12, 2019	**Serial Number**	BE12599 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	07:30:01 April 13, 2019	**Battery Level**	6.7 Volts
Number of Intervals	717.00 at 1 minute	**Unit Calibration**	June 6, 2018 by Instantel
Range	Geo:10.000 in/s	**File Name**	N599HW0U.B80H
Sample Rate	1024sps		

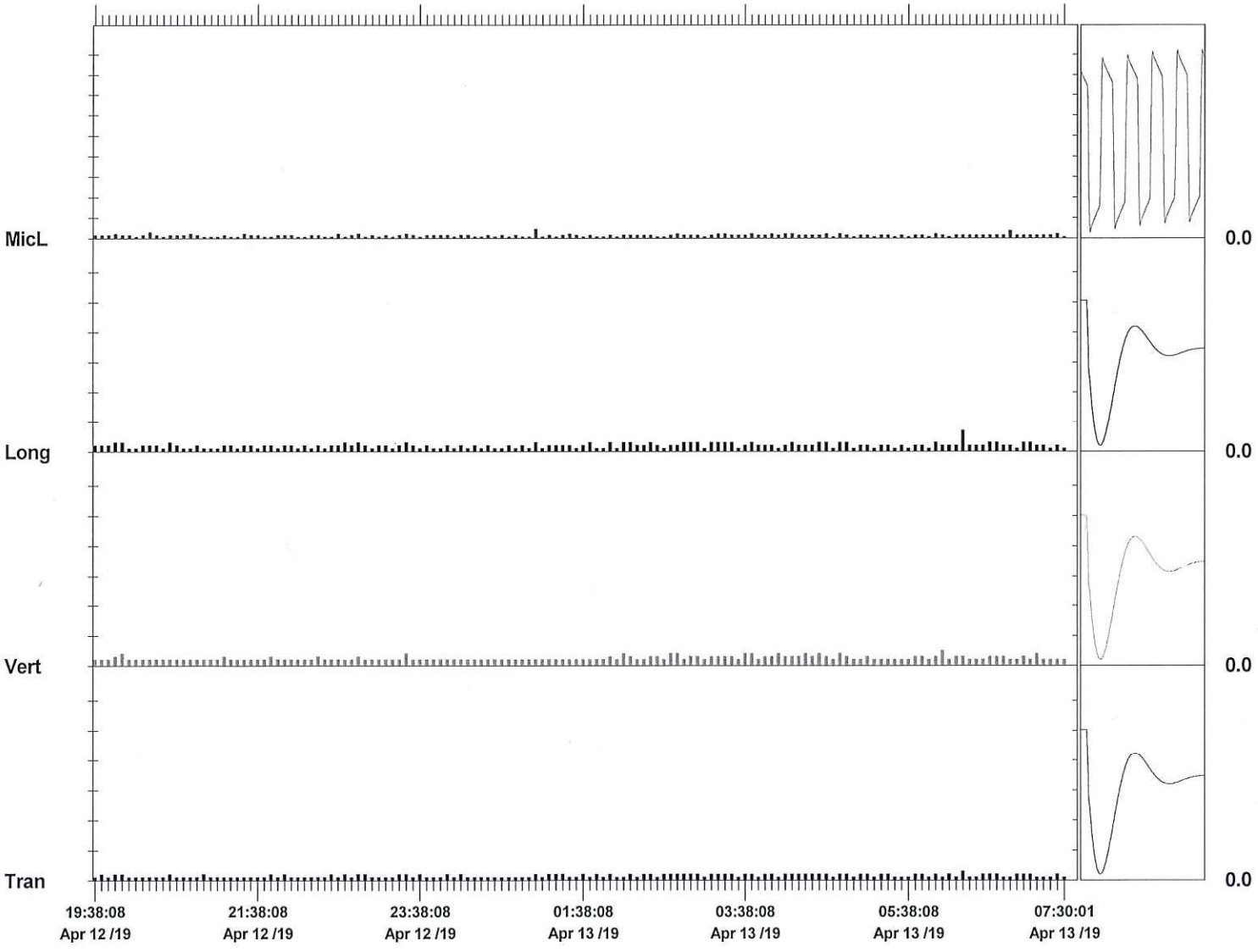
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	97.5 dB(L) on April 13, 2019 at 01:00:08
ZC Freq	4.4 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 552 mv)

	Tran	Vert	Long	
PPV	0.015	0.025	0.035	in/s
ZC Freq	16	23	10	Hz
Date	Apr 13 /19	Apr 13 /19	Apr 13 /19	
Time	06:18:08	06:02:08	06:18:08	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.4	Hz
Overswing Ratio	3.9	3.6	4.1	

Peak Vector Sum 0.038 in/s on April 13, 2019 at 06:18:08



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:33:09 April 13, 2019	**Serial Number**	BE12599 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	19:30:00 April 13, 2019	**Battery Level**	6.7 Volts
Number of Intervals	717.00 at 1 minute	**Unit Calibration**	June 6, 2018 by Instantel
Range	Geo:10.000 in/s	**File Name**	N599HW1R.N90H
Sample Rate	1024sps		

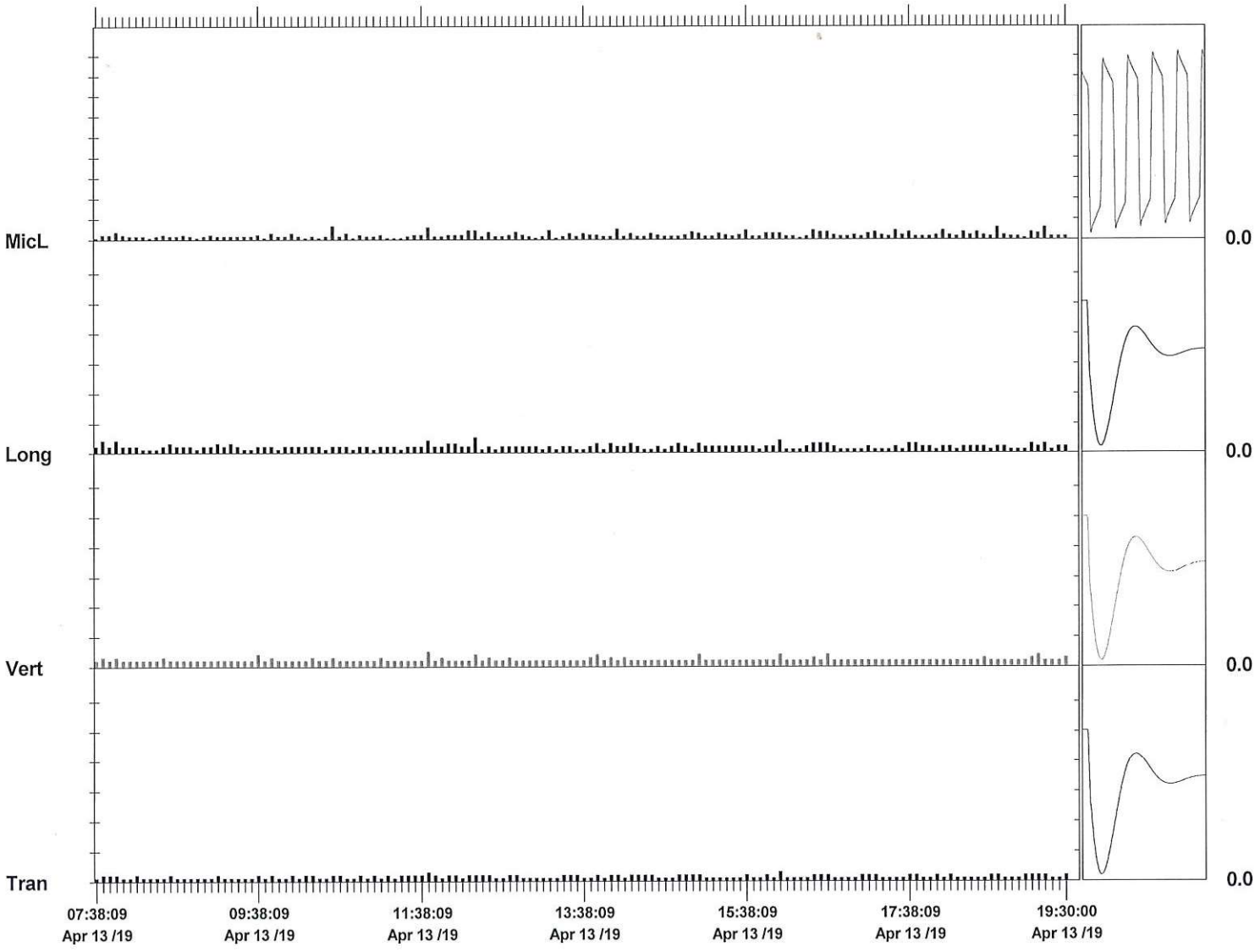
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	101.0 dB(L) on April 13, 2019 at 10:31:09
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 503 mv)

	Tran	Vert	Long	
PPV	0.015	0.025	0.025	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 13 /19	Apr 13 /19	Apr 13 /19	
Time	11:39:09	11:39:09	12:14:09	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.4	Hz
Overswing Ratio	3.9	3.6	4.1	

Peak Vector Sum 0.027 in/s on April 13, 2019 at 11:39:09



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.567 in/s Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:33:10 April 13, 2019	**Serial Number**	BE12599 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	07:30:01 April 14, 2019	**Battery Level**	6.7 Volts
Number of Intervals	717.00 at 1 minute	**Unit Calibration**	June 6, 2018 by Instantel
Range	Geo:10.000 in/s	**File Name**	N599HW2O.ZA0H
Sample Rate	1024sps		

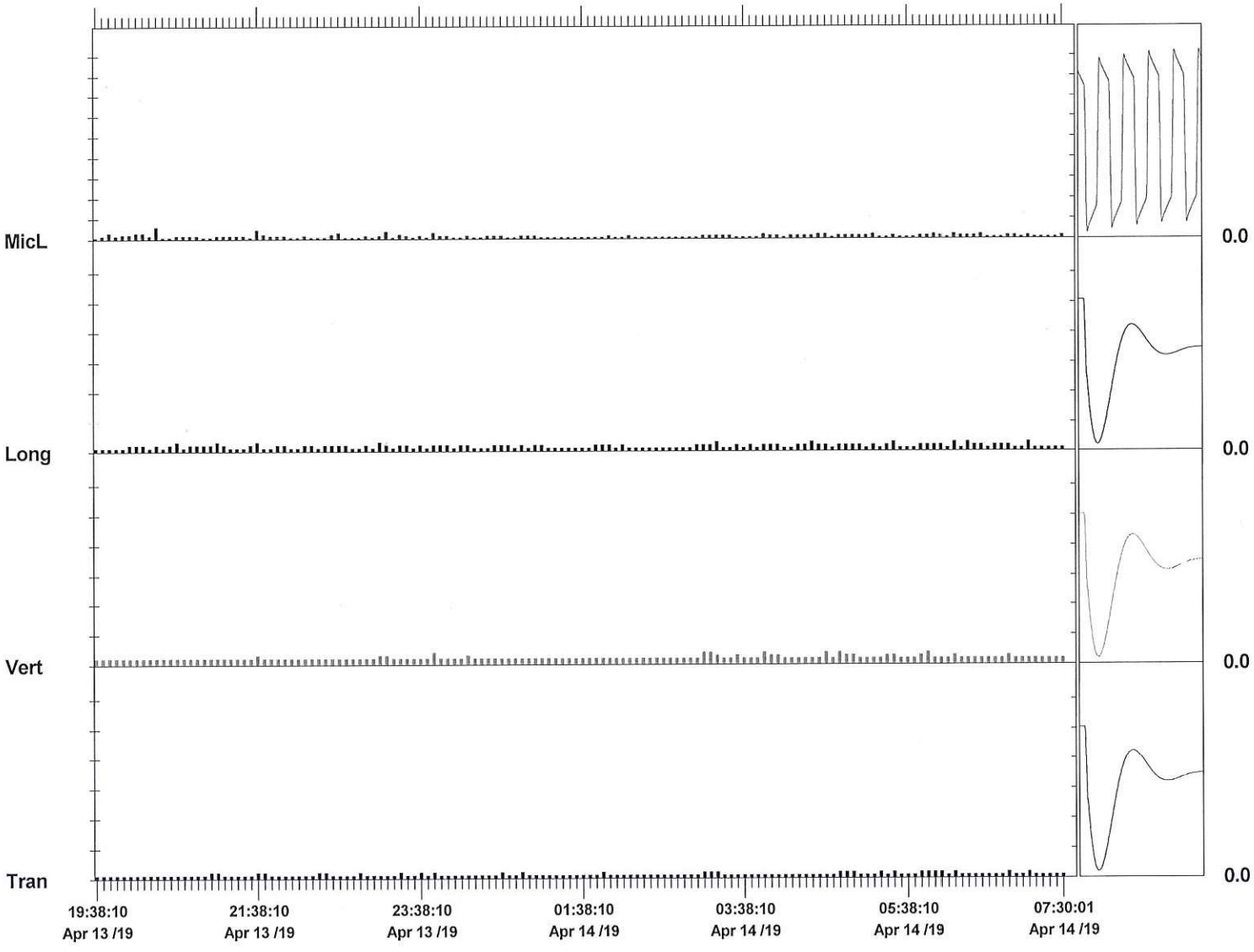
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	100.0 dB(L) on April 13, 2019 at 20:20:10
ZC Freq	3.5 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 531 mv)

	Tran	Vert	Long	
PPV	0.010	0.020	0.015	in/s
ZC Freq	>100	>100	85	Hz
Date	Apr 13 /19	Apr 13 /19	Apr 13 /19	
Time	21:03:10	23:45:10	20:37:10	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.4	Hz
Overswing Ratio	3.9	3.6	4.0	

Peak Vector Sum 0.021 in/s on April 14, 2019 at 03:13:10



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.508 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:33:12 April 14, 2019
Histogram Finish Time	19:30:00 April 14, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HW3M.BC0H

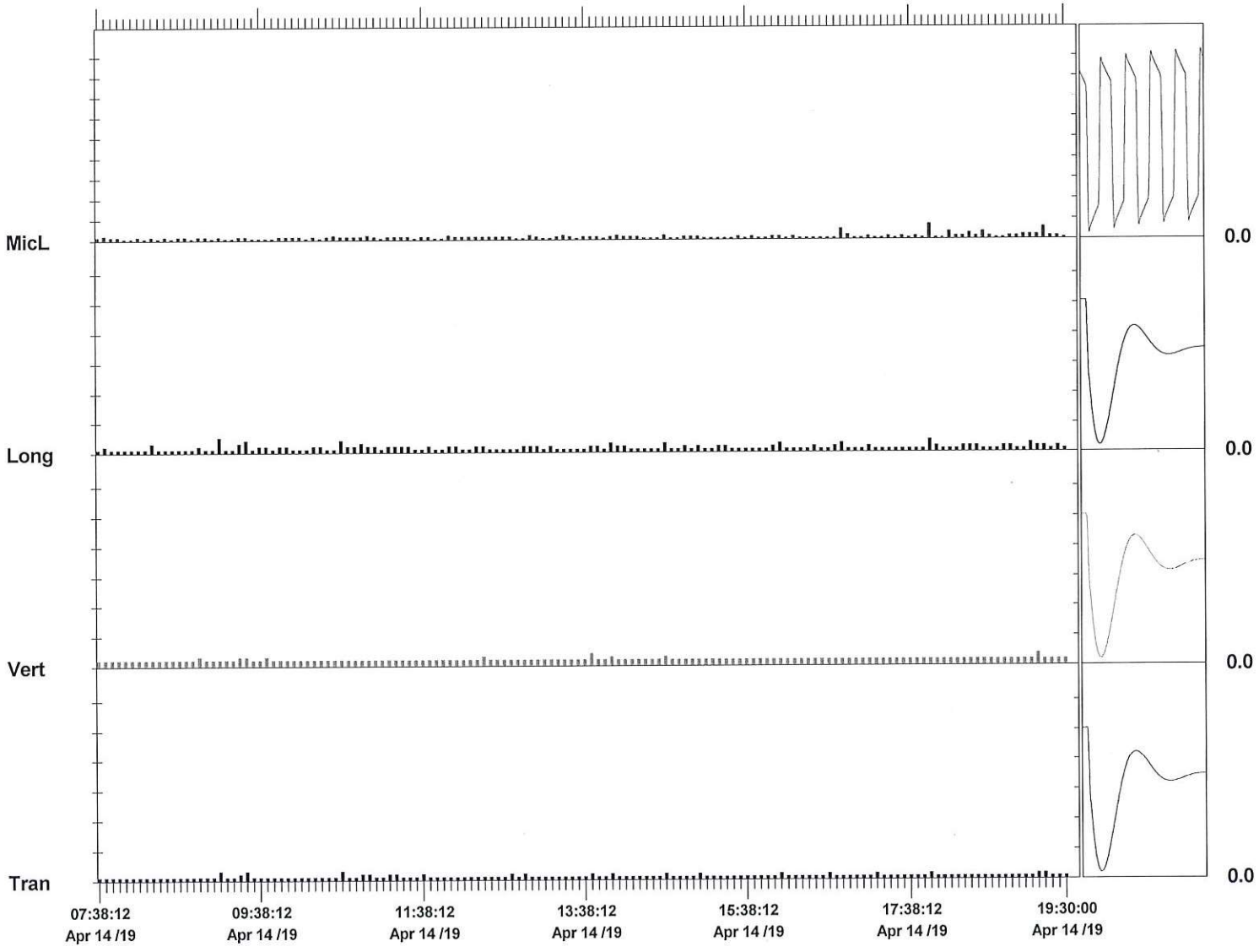
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	101.9 dB(L) on April 14, 2019 at 17:52:12
ZC Freq	3.7 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 513 mv)

	Tran	Vert	Long	
PPV	0.015	0.020	0.025	in/s
ZC Freq	21	28	11	Hz
Date	Apr 14 /19	Apr 14 /19	Apr 14 /19	
Time	09:08:12	13:41:12	09:08:12	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.4	Hz
Overswing Ratio	3.9	3.6	4.1	

Peak Vector Sum 0.027 in/s on April 14, 2019 at 09:08:12



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.0030 in/s/div Mic: 0.001 psi(L)/div Sensor Check

Printed: June 2, 2019 (V 10.74)

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Event Report

Histogram Start Time	19:33:10 April 14, 2019
Histogram Finish Time	00:38:42 April 15, 2019
Number of Intervals	306.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HW4J.NA0H

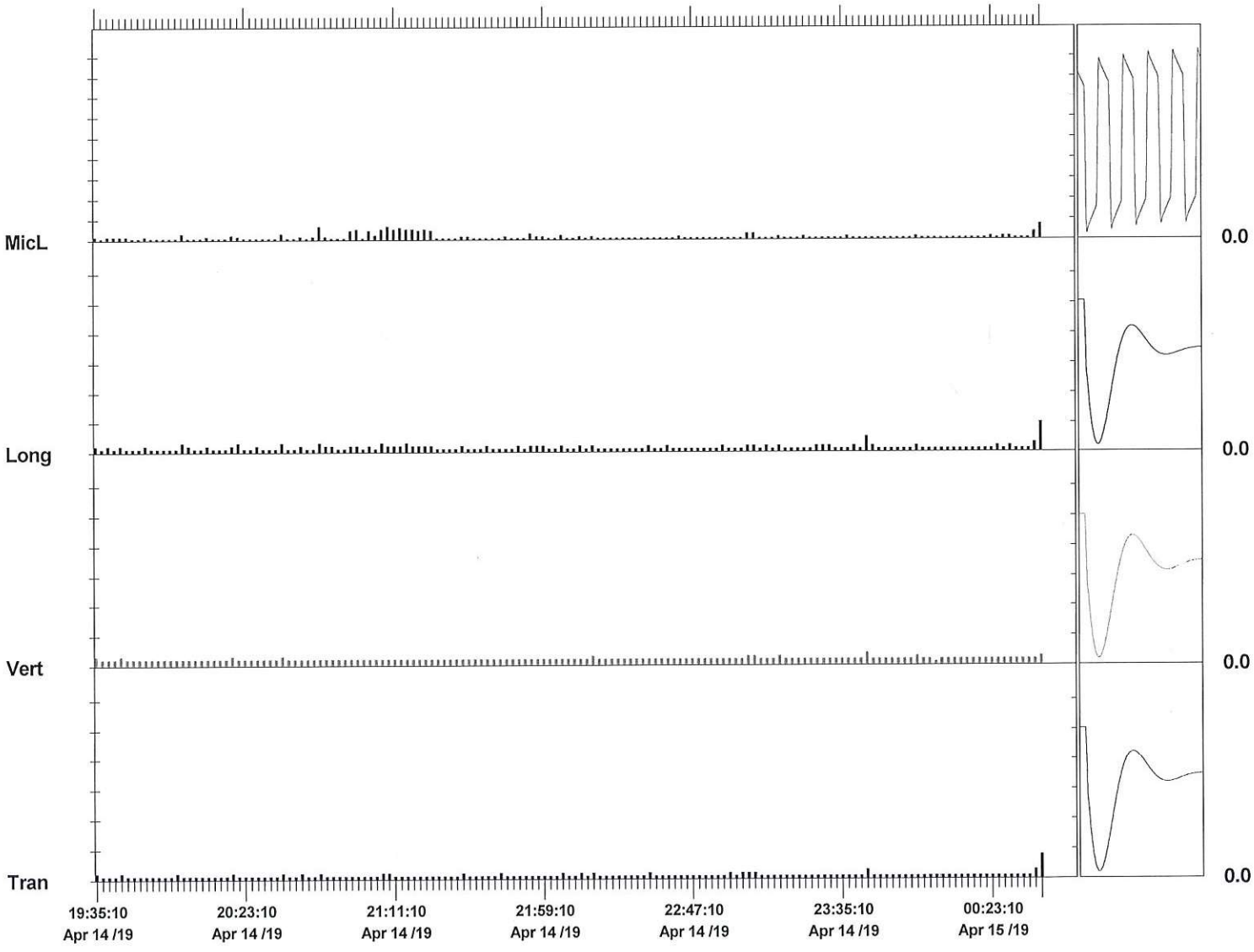
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	101.9 dB(L) on April 15, 2019 at 00:38:42
ZC Freq	3.8 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 522 mv)

	Tran	Vert	Long	
PPV	0.040	0.020	0.050	in/s
ZC Freq	4.0	>100	8.0	Hz
Date	Apr 15 /19	Apr 14 /19	Apr 15 /19	
Time	00:38:42	23:43:10	00:38:42	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.4	Hz
Overswing Ratio	3.9	3.6	4.1	

Peak Vector Sum 0.054 in/s on April 15, 2019 at 00:38:42



Time Scale: 2 minutes /div **Amplitude Scale:** Geo: 0.030 in/s/div Mic: 0.001 psi(L)/div Sensor Check

Printed: June 2, 2019 (V 10.74)

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Event Report

Date/Time	Long at 00:38:40 April 15, 2019
Trigger Source	Geo: 0.050 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HW4X.SG0W

Notes

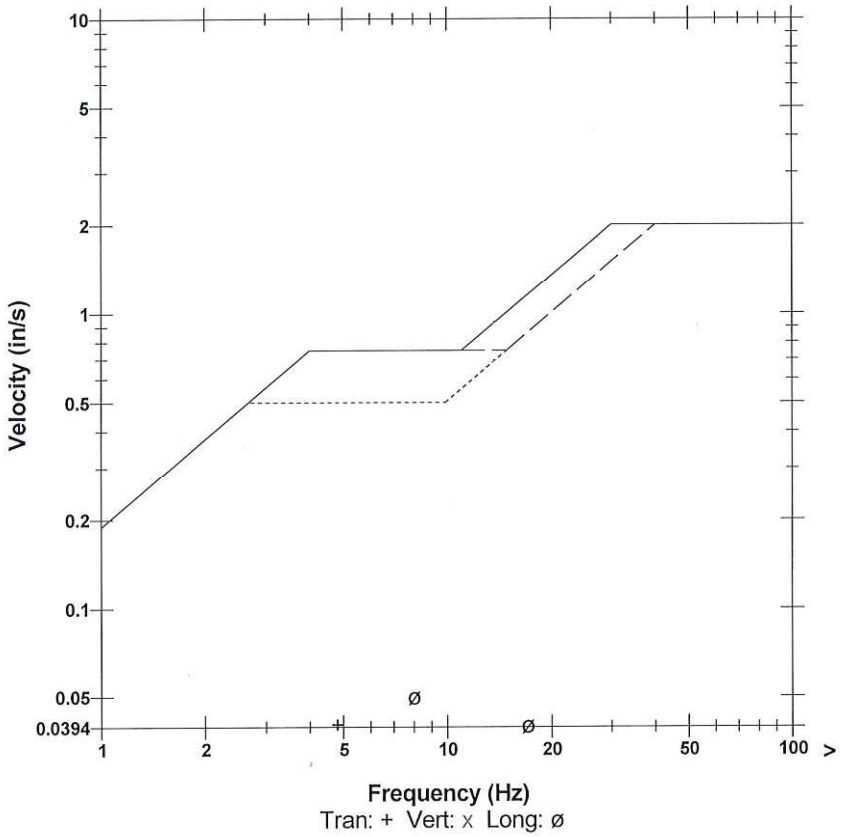
Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

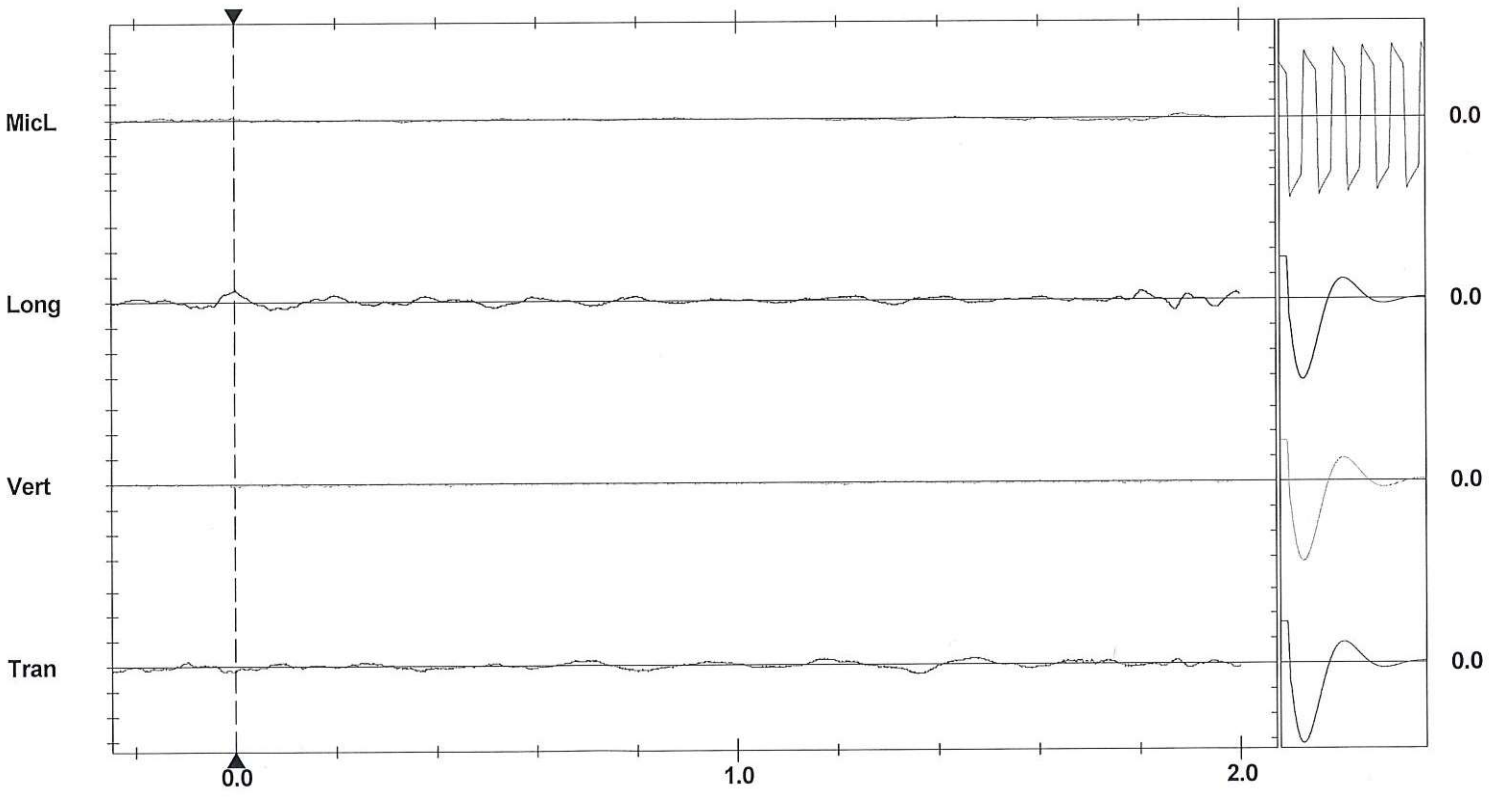
Microphone	Linear Weighting
PSPL	98.8 dB(L) at 1.784 sec
ZC Freq	2.3 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 522 mv)

	Tran	Vert	Long	
PPV	0.040	0.015	0.050	in/s
ZC Freq	4.8	>100	8.0	Hz
Time (Rel. to Trig)	1.354	-0.174	0.000	sec
Peak Acceleration	0.027	0.027	0.027	g
Peak Displacement	0.001	0.000	0.001	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.4	Hz
Overswing Ratio	3.9	3.6	4.1	

Peak Vector Sum 0.054 in/s at 0.000 sec

USBM RI8507 And OSMRE





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.001 psi(L)/div

Trigger = ▶— — —◀

Sensor Check

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Instantel

Event Report

Histogram Start Time	00:41:56 April 15, 2019
Histogram Finish Time	07:05:06 April 15, 2019
Number of Intervals	384.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HW4X.XW0H

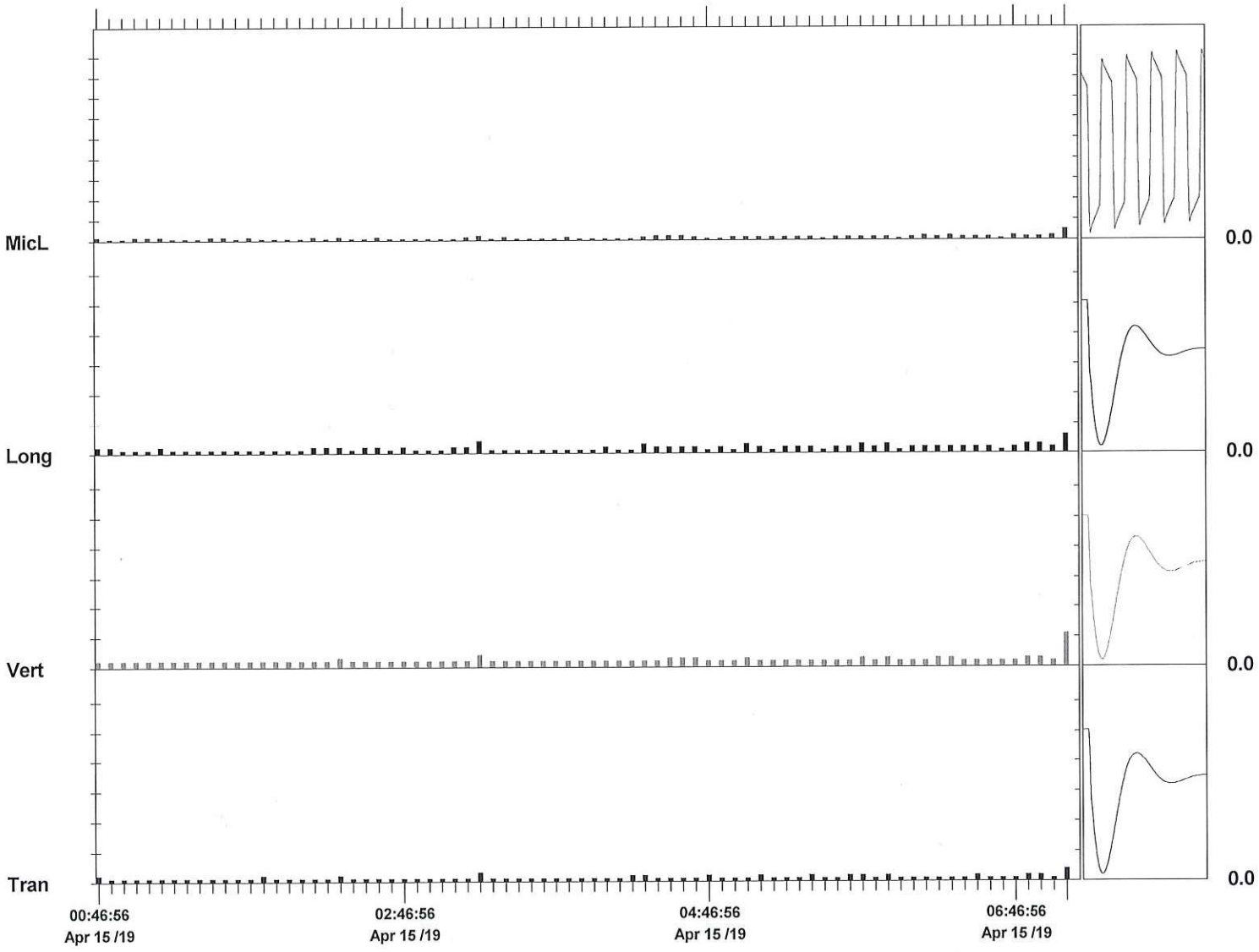
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	98.8 dB(L) on April 15, 2019 at 07:05:06
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 494 mv)

	Tran	Vert	Long	
PPV	0.020	0.055	0.030	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 15 /19	Apr 15 /19	Apr 15 /19	
Time	07:05:06	07:05:06	07:05:06	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	3.9	3.6	4.0	

Peak Vector Sum 0.058 in/s on April 15, 2019 at 07:05:06



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 4.5 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Date/Time	Vert at 07:05:04 April 15, 2019
Trigger Source	Geo: 0.050 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HW5F.OG0W

Notes

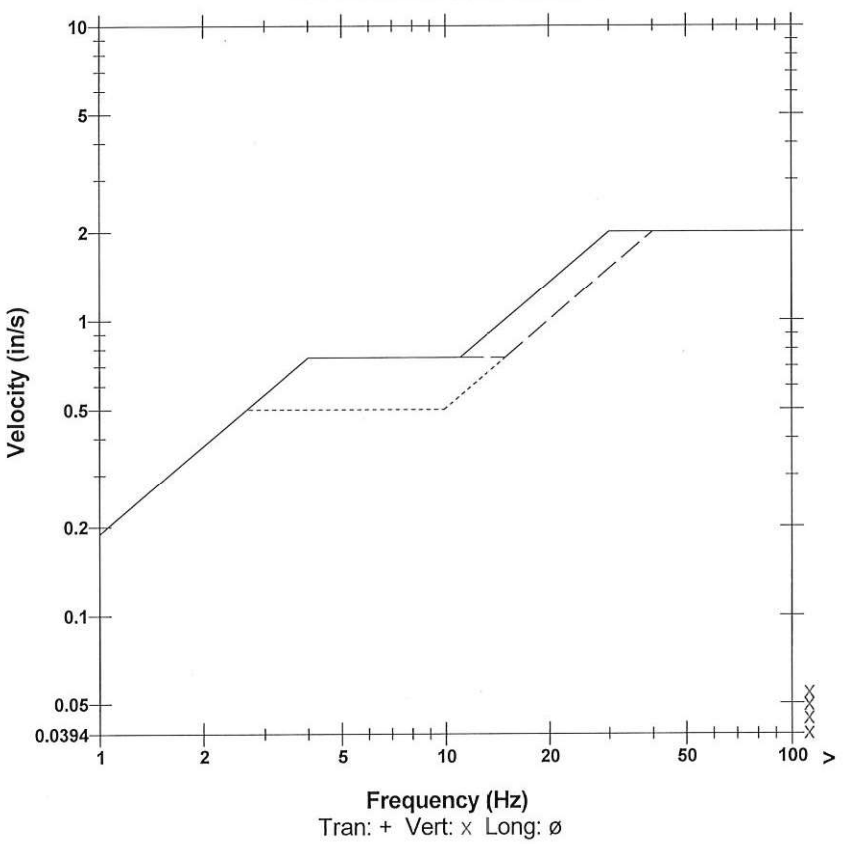
Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

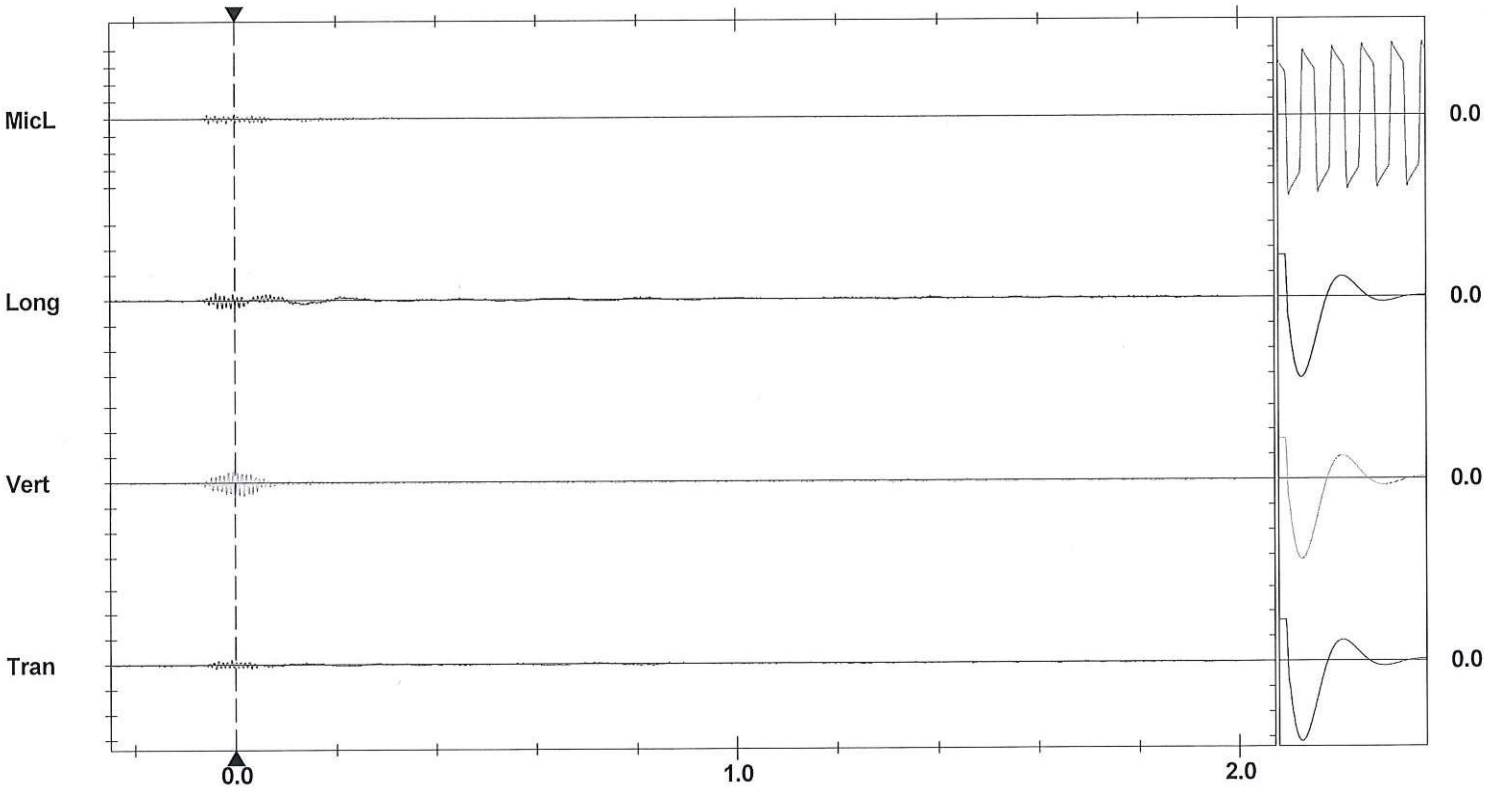
Microphone	Linear Weighting
PSPL	98.8 dB(L) at -0.055 sec
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 494 mv)

	Tran	Vert	Long	
PPV	0.020	0.055	0.030	in/s
ZC Freq	>100	>100	>100	Hz
Time (Rel. to Trig)	-0.008	0.000	-0.038	sec
Peak Acceleration	0.040	0.093	0.066	g
Peak Displacement	0.000	0.000	0.000	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	3.9	3.6	4.0	

Peak Vector Sum 0.058 in/s at 0.000 sec

USBM RI8507 And OSMRE





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.001 psi(L)/div

Trigger = ▶——————◀

Sensor Check

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Event Report

Histogram Start Time	07:10:21 April 15, 2019
Histogram Finish Time	07:30:00 April 15, 2019
Number of Intervals	20.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.3 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HW5F.X90H

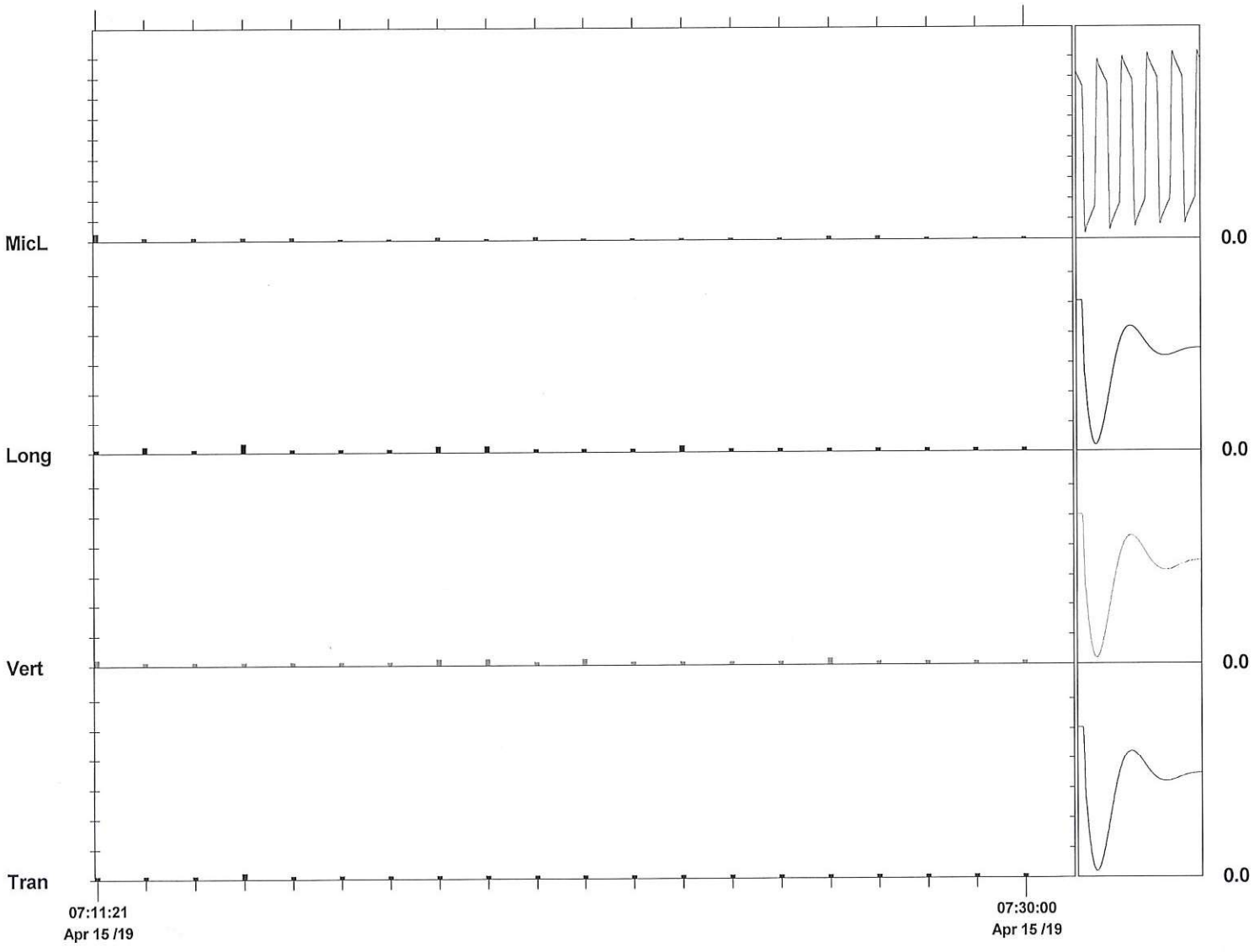
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	95.9 dB(L) on April 15, 2019 at 07:11:21
ZC Freq	4.2 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 547 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.015	in/s
ZC Freq	>100	>100	13	Hz
Date	Apr 15 /19	Apr 15 /19	Apr 15 /19	
Time	07:14:21	07:11:21	07:14:21	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.4	Hz
Overswing Ratio	3.9	3.6	4.1	

Peak Vector Sum 0.017 in/s on April 15, 2019 at 07:14:21



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.093 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:35:14 April 15, 2019	**Serial Number**	BE12599 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	19:30:00 April 15, 2019	**Battery Level**	6.7 Volts
Number of Intervals	715.00 at 1 minute	**Unit Calibration**	June 6, 2018 by Instantel
Range	Geo:10.000 in/s	**File Name**	N599HW5H.2Q0H
Sample Rate	1024sps		

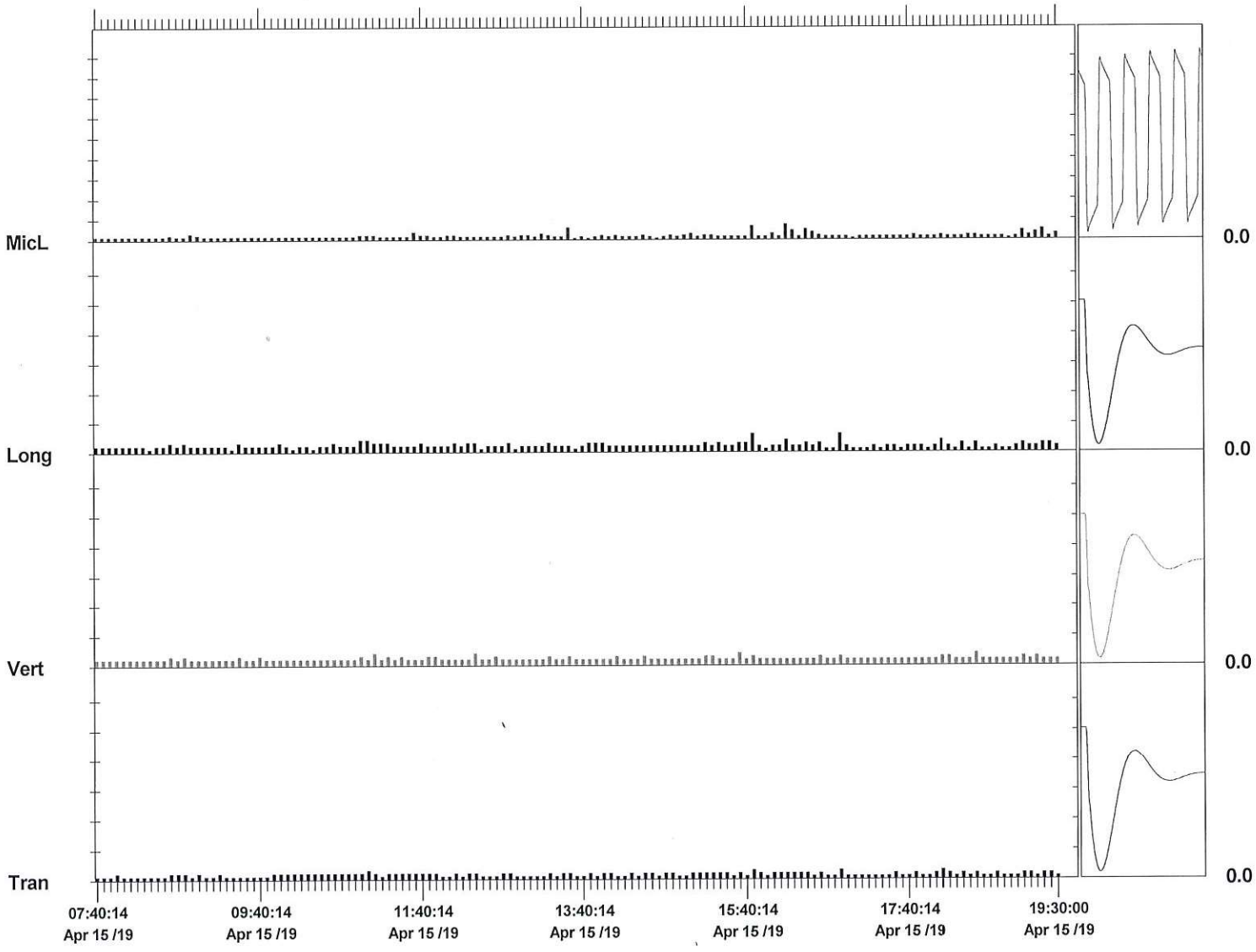
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	101.9 dB(L) on April 15, 2019 at 16:07:14
ZC Freq	3.6 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 533 mv)

	Tran	Vert	Long	
PPV	0.015	0.020	0.030	in/s
ZC Freq	27	23	7.8	Hz
Date	Apr 15 /19	Apr 15 /19	Apr 15 /19	
Time	11:00:14	11:05:14	15:43:14	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.4	Hz
Overswing Ratio	3.9	3.6	4.1	

Peak Vector Sum 0.034 in/s on April 15, 2019 at 15:43:14



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:34:28 April 15, 2019
Histogram Finish Time	07:30:01 April 16, 2019
Number of Intervals	716.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HW6E.DG0H

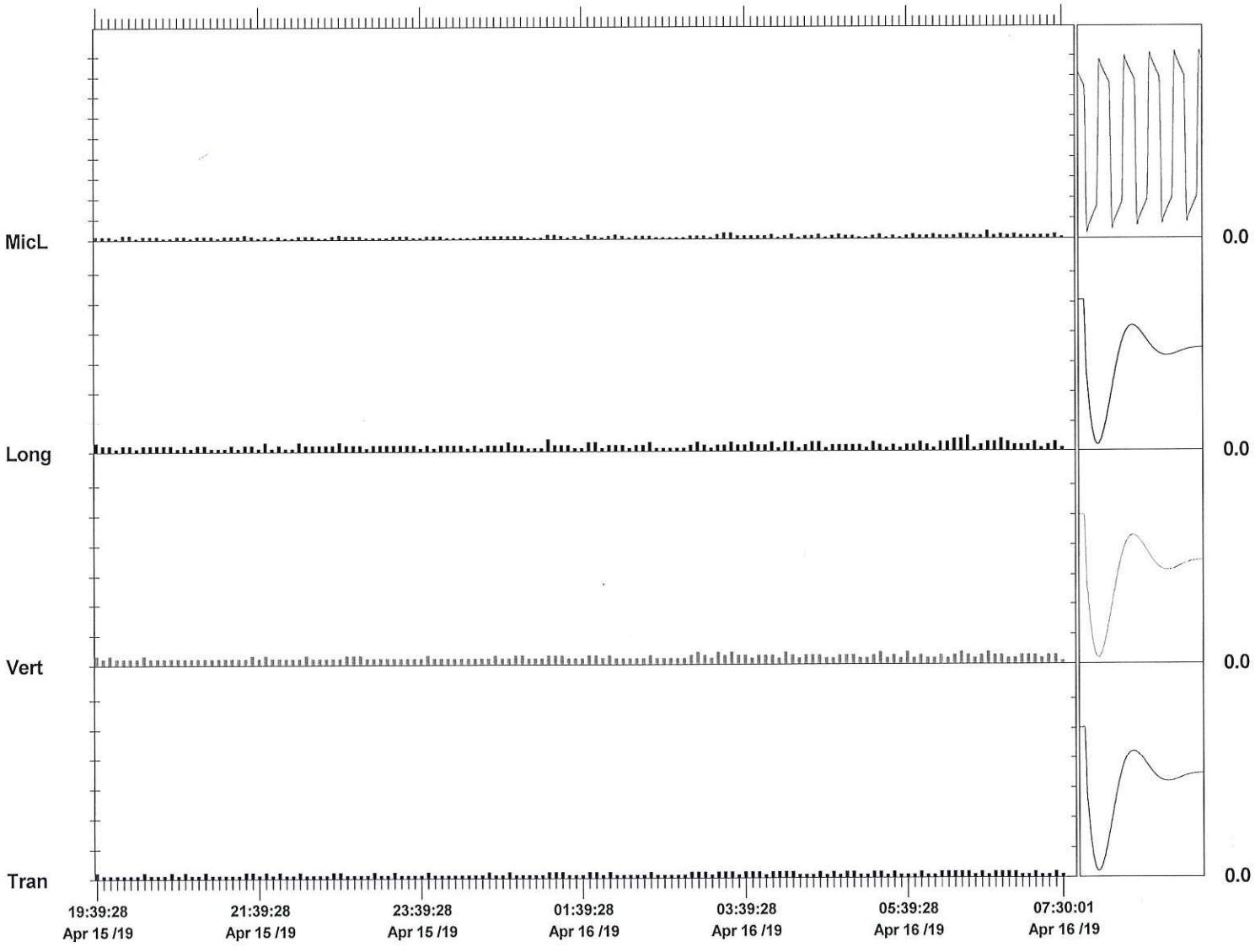
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	95.9 dB(L) on April 16, 2019 at 06:38:28
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 547 mv)

	Tran	Vert	Long	
PPV	0.010	0.020	0.025	in/s
ZC Freq	>100	24	11	Hz
Date	Apr 15 /19	Apr 16 /19	Apr 16 /19	
Time	19:35:28	03:02:28	06:24:28	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	3.9	3.6	4.0	

Peak Vector Sum 0.027 in/s on April 16, 2019 at 06:24:28



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.5 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Instantel

Event Report

Histogram Start Time	07:33:11 April 16, 2019	**Serial Number**	BE12599 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	19:30:00 April 16, 2019	**Battery Level**	6.7 Volts
Number of Intervals	717.00 at 1 minute	**Unit Calibration**	June 6, 2018 by Instantel
Range	Geo:10.000 in/s	**File Name**	N599HW7B.NB0H
Sample Rate	1024sps		

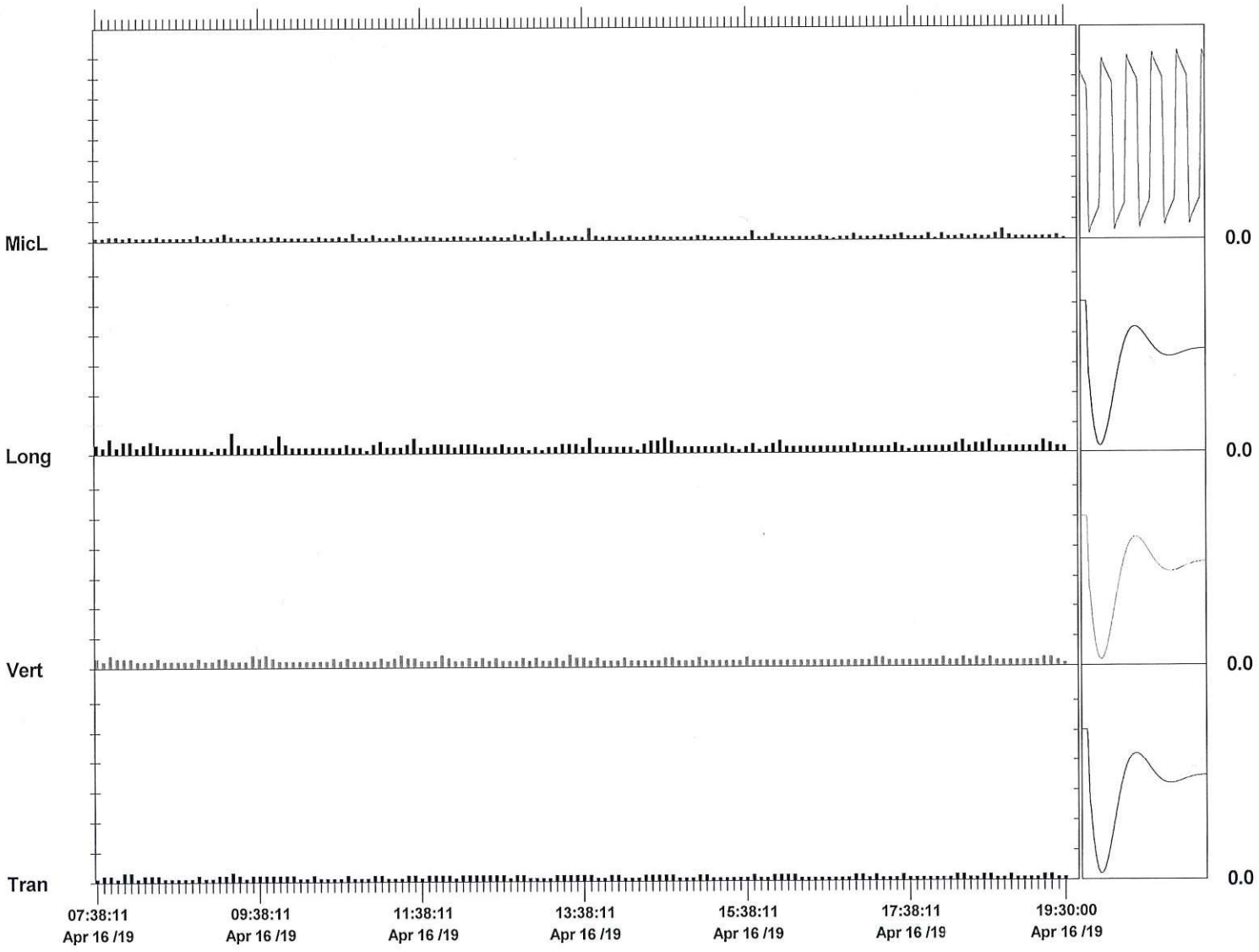
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	100.0 dB(L) on April 16, 2019 at 13:43:11
ZC Freq	3.5 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 559 mv)

	Tran	Vert	Long	
PPV	0.015	0.020	0.035	in/s
ZC Freq	28	23	10	Hz
Date	Apr 16 /19	Apr 16 /19	Apr 16 /19	
Time	07:58:11	07:45:11	09:14:11	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.4	Hz
Overswing Ratio	4.0	3.6	4.1	

Peak Vector Sum 0.038 in/s on April 16, 2019 at 09:14:11



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.577 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:33:13 April 16, 2019
Histogram Finish Time	07:30:01 April 17, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HW88.ZD0H

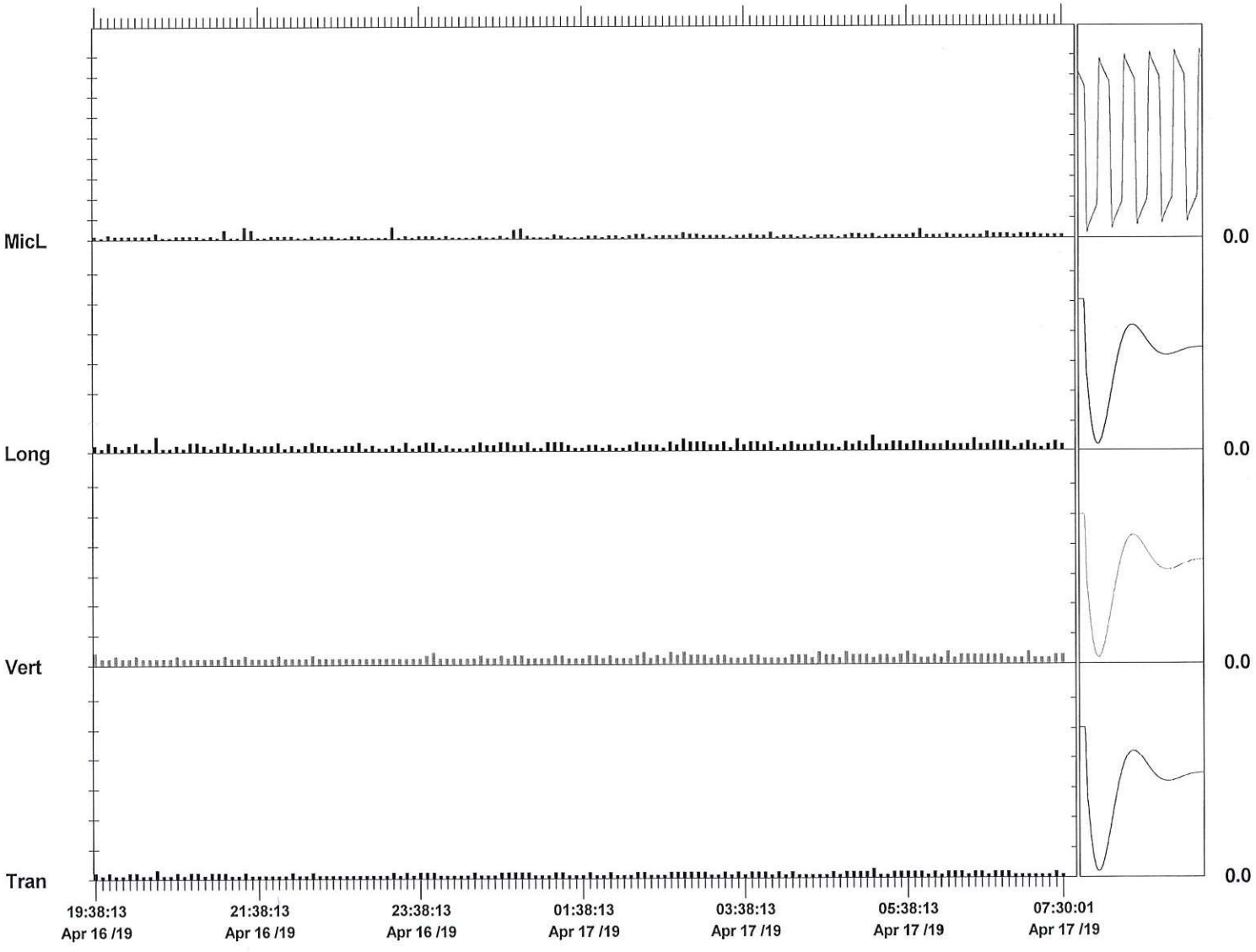
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	100.0 dB(L) on April 16, 2019 at 21:28:13
ZC Freq	3.6 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 498 mv)

	Tran	Vert	Long	
PPV	0.015	0.020	0.025	in/s
ZC Freq	34	21	13	Hz
Date	Apr 16 /19	Apr 16 /19	Apr 16 /19	
Time	20:20:13	19:34:13	20:20:13	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.5	7.5	Hz
Overswing Ratio	3.9	3.6	4.0	

Peak Vector Sum 0.029 in/s on April 17, 2019 at 05:09:13



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.030 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:33:12 April 17, 2019
Histogram Finish Time	10:28:56 April 17, 2019
Number of Intervals	175.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HW96.BC0H

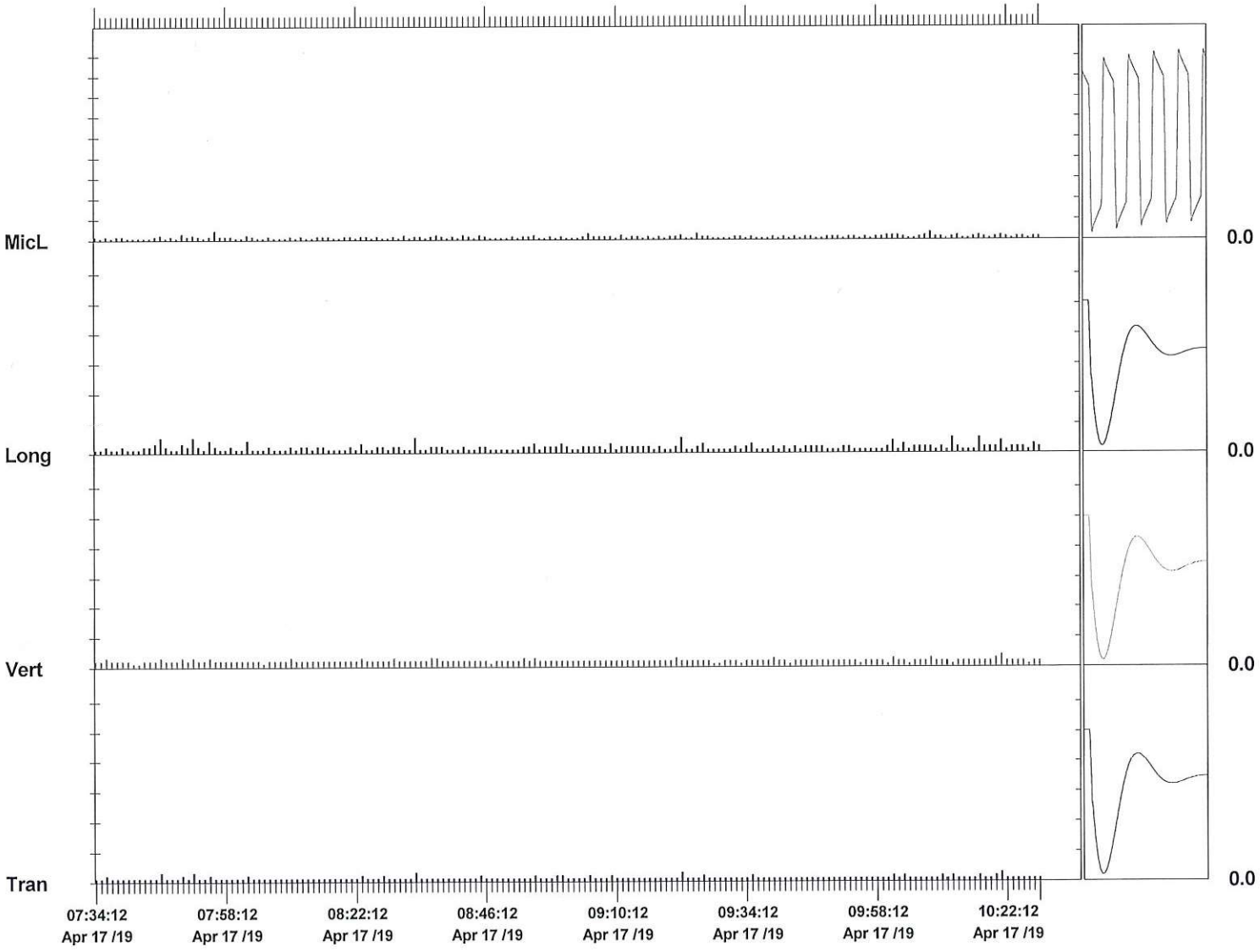
Notes

Project:	Lewisburg Corridor Study-800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 800 Market Street - 2nd floor

Microphone	Linear Weighting
PSPL	97.5 dB(L) on April 17, 2019 at 07:56:12
ZC Freq	57 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 565 mv)

	Tran	Vert	Long	
PPV	0.015	0.020	0.025	in/s
ZC Freq	30	21	10	Hz
Date	Apr 17 /19	Apr 17 /19	Apr 17 /19	
Time	07:46:12	10:21:12	07:46:12	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.4	Hz
Overswing Ratio	4.0	3.6	4.0	

Peak Vector Sum 0.030 in/s on April 17, 2019 at 07:46:12



Time Scale: 1 minute /div **Amplitude Scale:** Geo: [illegible] Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	18:07:49 April 9, 2019
Histogram Finish Time	19:30:00 April 9, 2019
Number of Intervals	83.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HVV6.D10H

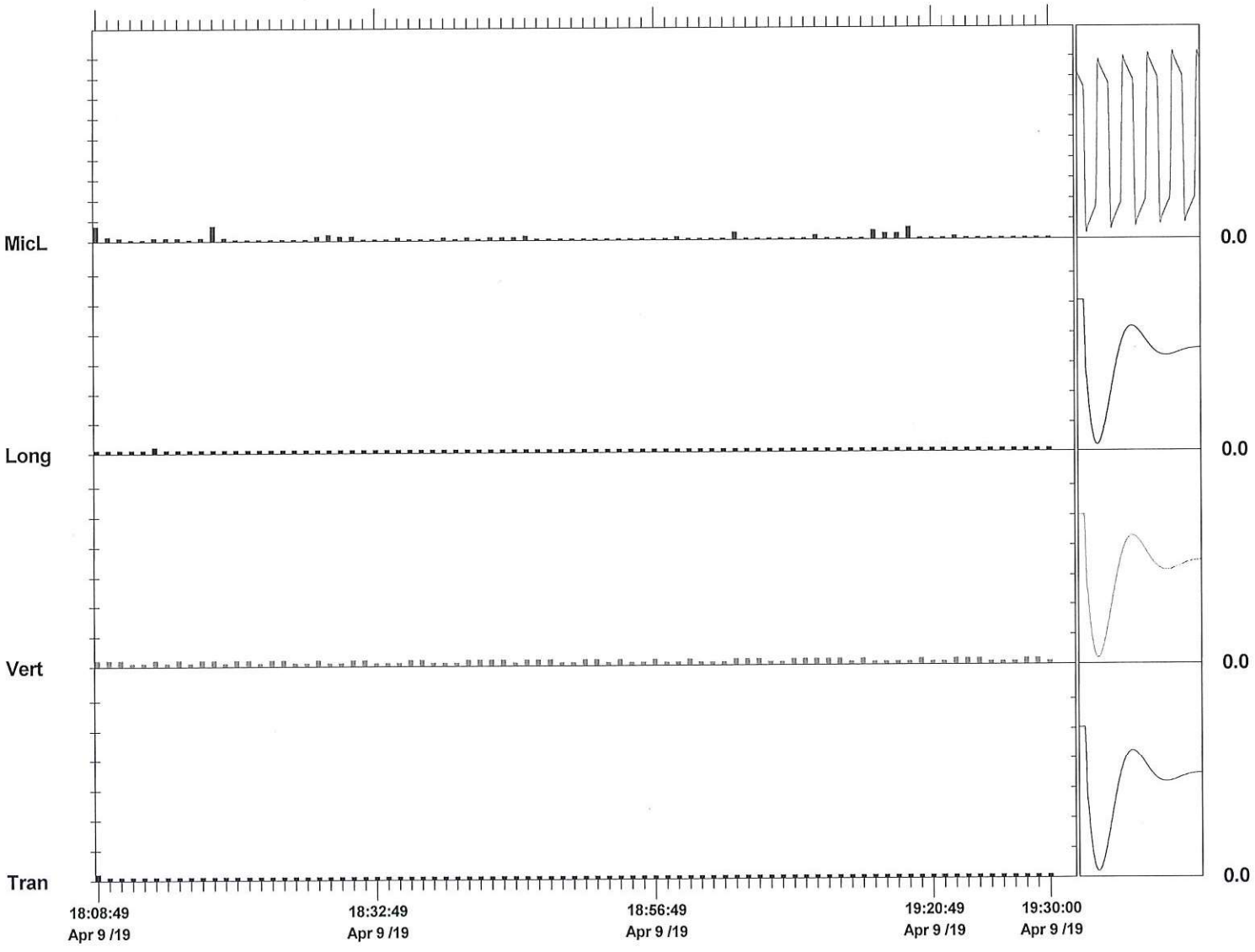
Notes

Project:	Lewisburg Corridor Study - 801 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5A - 801 Market Street

Microphone	Linear Weighting
PSPL	101.9 dB(L) on April 9, 2019 at 18:08:49
ZC Freq	5.4 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 570 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	18:08:49	18:08:49	18:13:49	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.5	7.4	Hz
Overswing Ratio	3.9	3.6	4.1	

Peak Vector Sum 0.012 in/s on April 9, 2019 at 18:13:49



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.000 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:32:35 April 9, 2019
Histogram Finish Time	00:00:53 April 10, 2019
Number of Intervals	268.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HVVA.AB0H

Notes

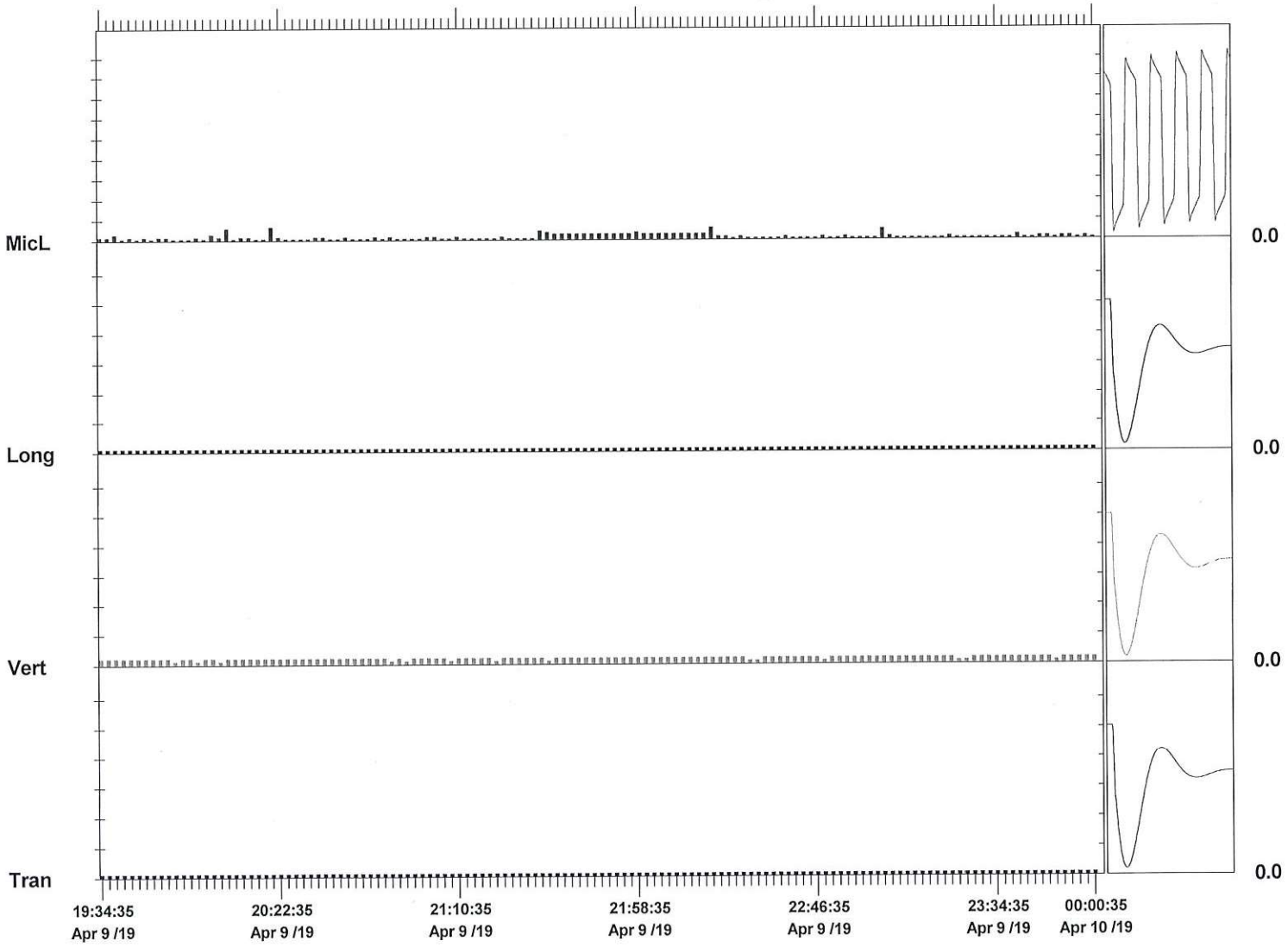
Project:	Lewisburg Corridor Study - 800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 A - 800 Market Street ~ BASE

Microphone	Linear Weighting
PSPL	101.0 dB(L) on April 9, 2019 at 20:19:35
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 526 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.005	in/s
ZC Freq	N/A	>100	N/A	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	19:33:35	19:33:35	19:33:35	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.4	Hz
Overswing Ratio	3.9	3.7	4.2	

Peak Vector Sum 0.012 in/s on April 9, 2019 at 19:39:35

N/A: Not Applicable



Time Scale: 2 minutes /div **Amplitude Scale:** Geo: 0.0530 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	00:10:27 April 10, 2019
Histogram Finish Time	00:37:21 April 10, 2019
Number of Intervals	26.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HVVN.5F0H

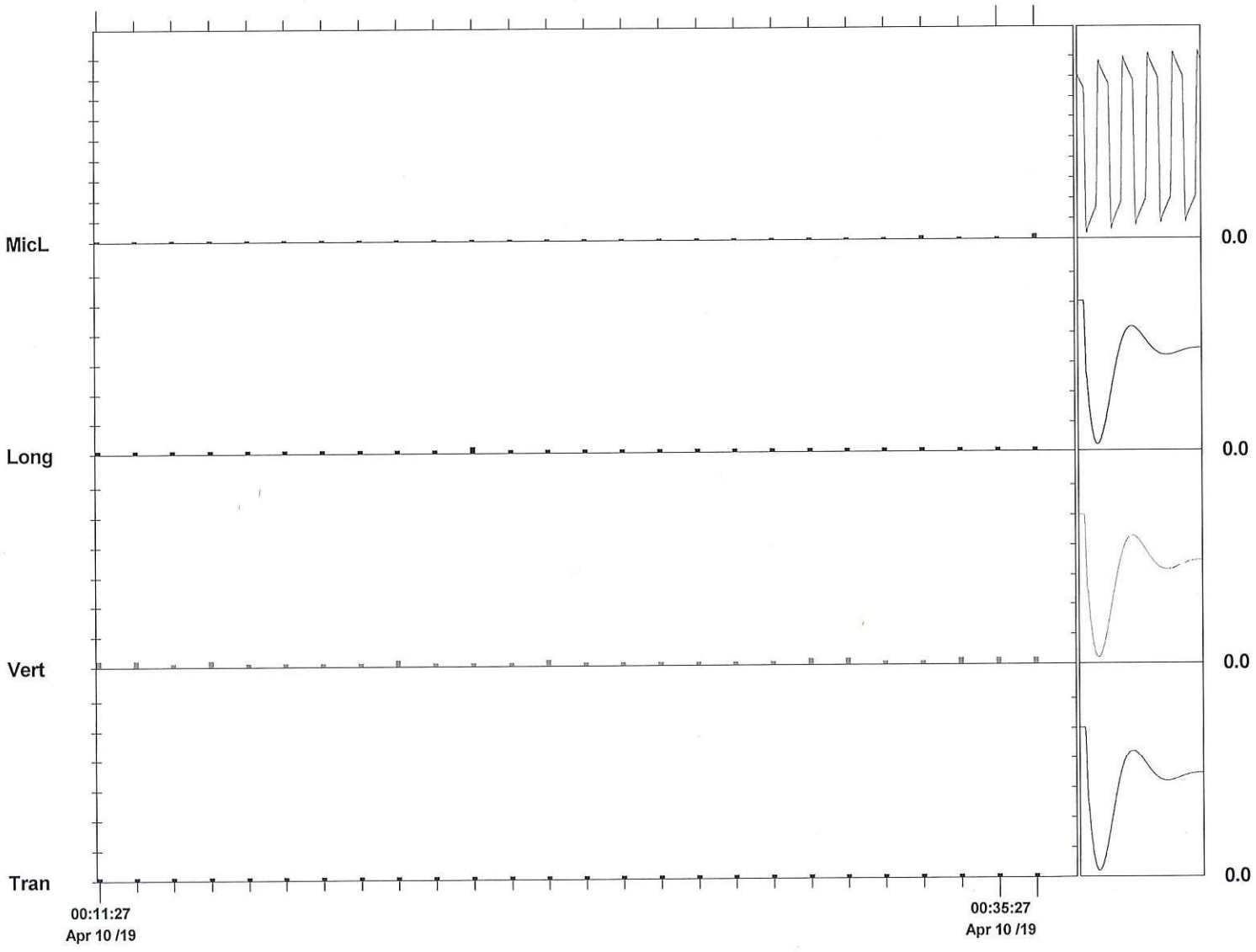
Notes

Project:	Lewisburg Corridor Study - 800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5C - 800 Market Street

Microphone	Linear Weighting
PSPL	91.5 dB(L) on April 10, 2019 at 00:36:27
ZC Freq	30 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 540 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	00:11:27	00:11:27	00:21:27	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.3	Hz
Overswing Ratio	4.0	3.6	4.2	

Peak Vector Sum 0.011 in/s on April 10, 2019 at 00:11:27



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.000 in/s/div Mic: 0.001 psi(L)/div

Sensor Check

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Event Report

Histogram Start Time	00:47:33 April 10, 2019
Histogram Finish Time	06:47:02 April 10, 2019
Number of Intervals	359.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HVVO.V90H

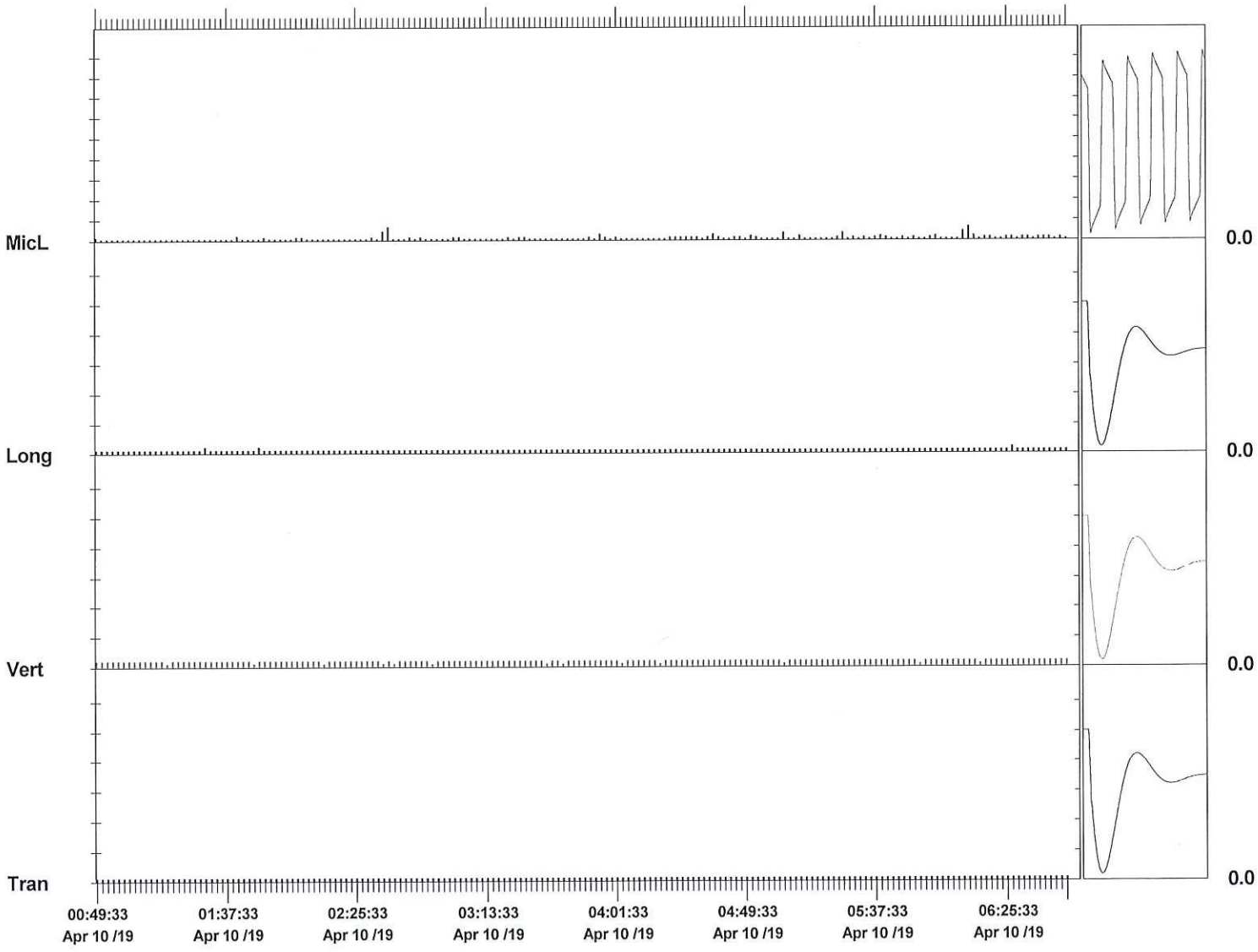
Notes

Project:	Lewisburg Corridor Study - 808 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5(A)- 600 Market Street -BASE

Microphone	Linear Weighting
PSPL	101.0 dB(L) on April 10, 2019 at 02:36:33
ZC Freq	17 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 529 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	00:48:33	00:48:33	01:29:33	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.3	Hz
Overswing Ratio	4.0	3.7	4.2	

Peak Vector Sum 0.012 in/s on April 10, 2019 at 00:48:33



Time Scale: 2 minutes /div **Amplitude Scale:** Geo: 0.533 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:20:07 April 10, 2019
Histogram Finish Time	07:30:00 April 10, 2019
Number of Intervals	10.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HVW7.1J0H

Notes

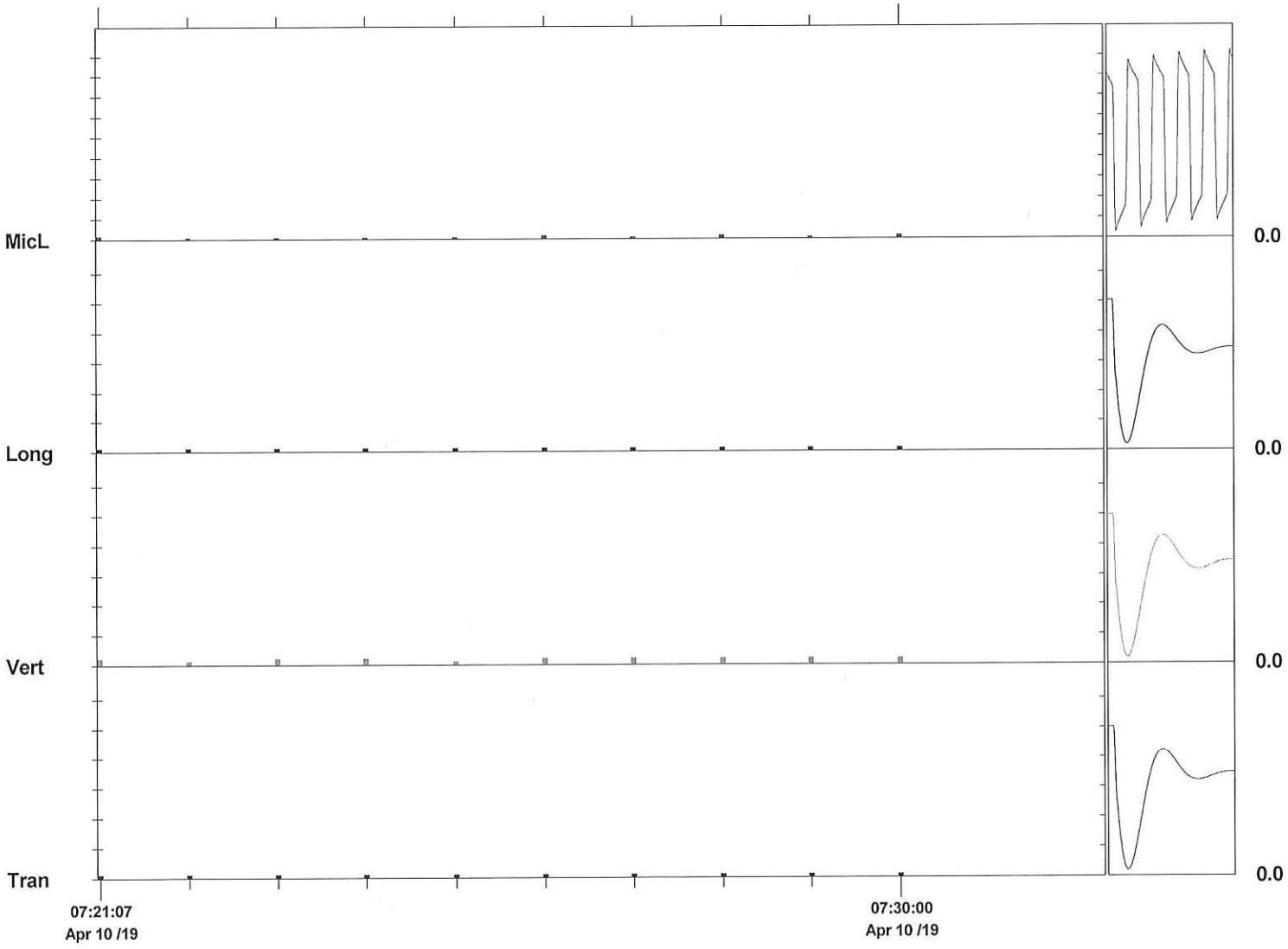
Project:	Lewisburg Corridor Study - 800 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 @ 800 Market Street - BASF

Microphone	Linear Weighting
PSPL	<88 dB(L) on April 10, 2019 at 07:21:07
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 533 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	07:21:07	07:21:07	07:21:07	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.4	Hz
Overswing Ratio	4.0	3.7	4.2	

Peak Vector Sum 0.011 in/s on April 10, 2019 at 07:21:07

N/A: Not Applicable



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.093 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:33:56 April 10, 2019
Histogram Finish Time	12:32:59 April 10, 2019
Number of Intervals	299.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HVW7.OK0H

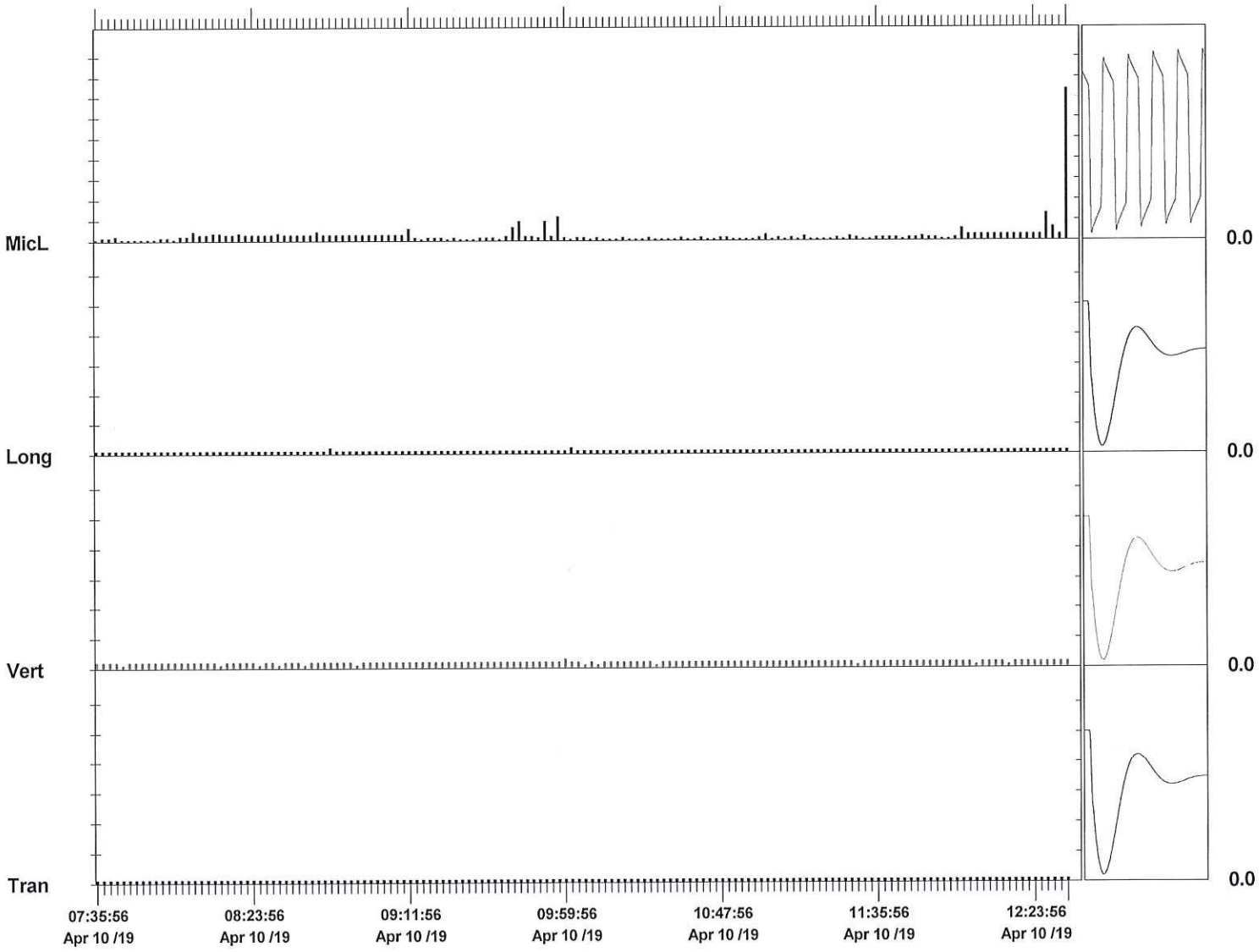
Notes

Project:	Lewisburg Corridor Study - 600 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5A - 600 Market Street - BASE

Microphone	Linear Weighting
PSPL	122.1 dB(L) on April 10, 2019 at 12:32:56
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 554 mv)

	Tran	Vert	Long	
PPV	0.005	0.015	0.010	in/s
ZC Freq	>100	43	>100	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	07:34:56	09:59:56	08:47:56	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.3	Hz
Overswing Ratio	4.0	3.7	4.2	

Peak Vector Sum 0.015 in/s on April 10, 2019 at 09:59:56



Time Scale: 2 minutes /div **Amplitude Scale:** Geo: 0.0500 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:32:37 April 8, 2019
Histogram Finish Time	22:52:06 April 8, 2019
Number of Intervals	199.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HVTF.MD0H

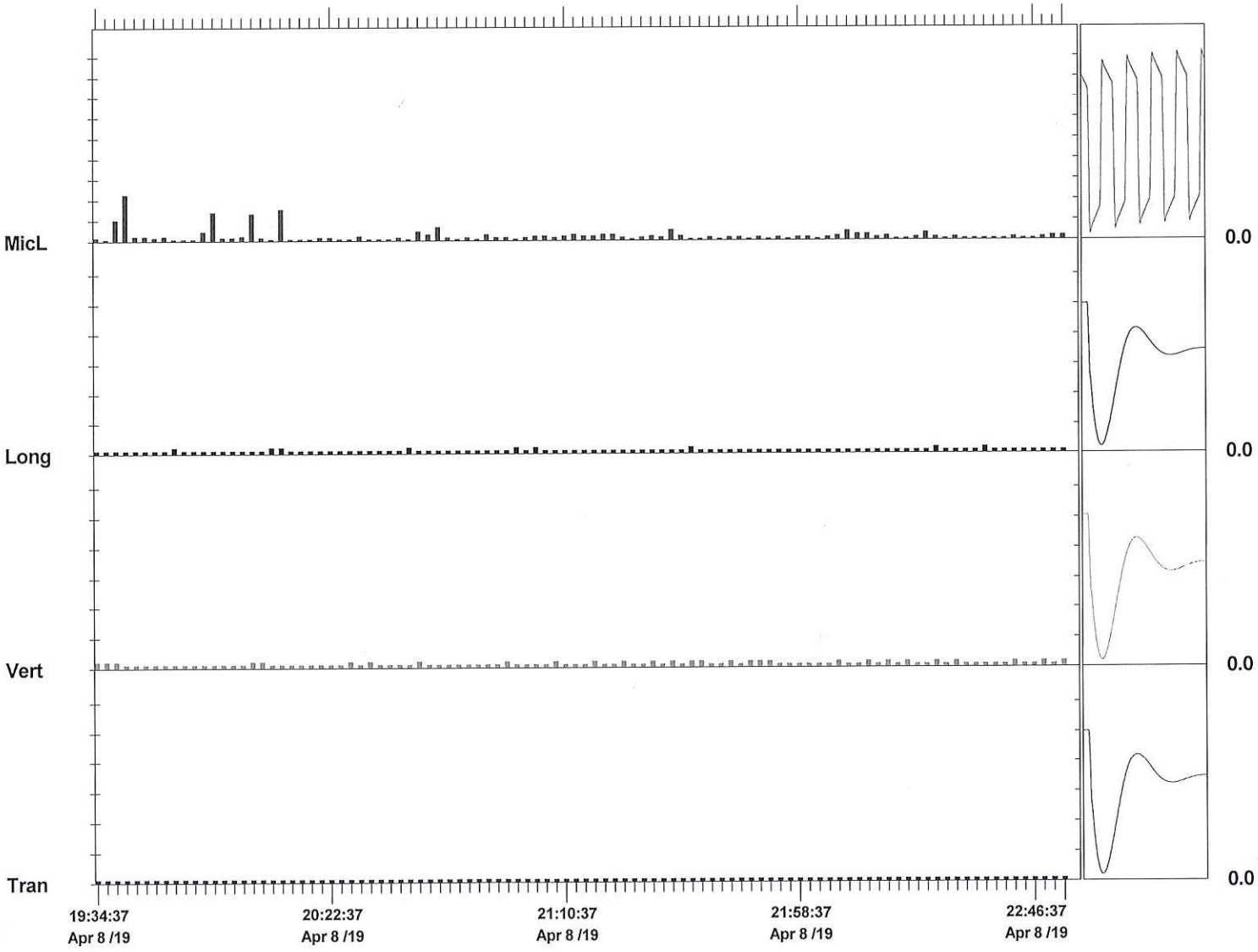
Notes

Project:	Lewisburg Corridor Study - 730 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 (3 780 Market Street

Microphone	Linear Weighting
PSPL	111.8 dB(L) on April 8, 2019 at 19:39:37
ZC Freq	3.8 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 538 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 8 /19	Apr 8 /19	Apr 8 /19	
Time	19:33:37	19:34:37	19:50:37	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.3	Hz
Overswing Ratio	4.1	3.7	4.3	

Peak Vector Sum 0.011 in/s on April 8, 2019 at 19:35:37



Time Scale: 2 minutes /div **Amplitude Scale:** Geo: 0.030 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	22:56:55 April 8, 2019
Histogram Finish Time	07:30:01 April 9, 2019
Number of Intervals	514.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HVTP.2V0H

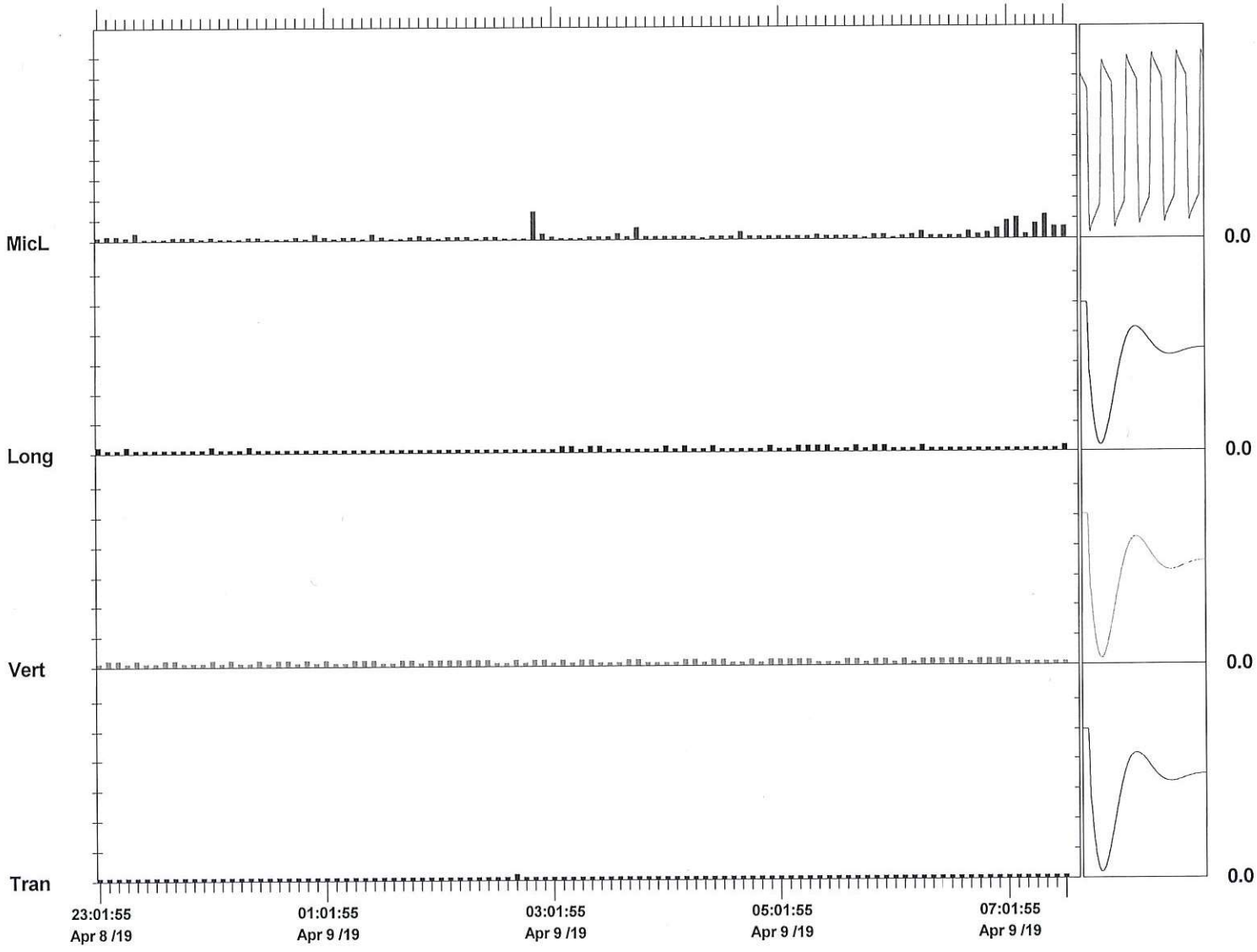
Notes

Project:	Lewisburg Corridor Study - 738 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5 - 738 Market Street

Microphone	Linear Weighting
PSPL	107.5 dB(L) on April 9, 2019 at 02:50:55
ZC Freq	21 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 596 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 9 /19	Apr 8 /19	Apr 8 /19	
Time	02:40:55	23:03:55	22:57:55	
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.4	7.3	Hz
Overswing Ratio	4.1	3.8	4.3	

Peak Vector Sum 0.012 in/s on April 9, 2019 at 05:10:55



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.0030 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:33:24 April 9, 2019
Histogram Finish Time	14:22:03 April 9, 2019
Number of Intervals	408.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE12599 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	June 6, 2018 by Instantel
File Name	N599HVUC.ZO0H

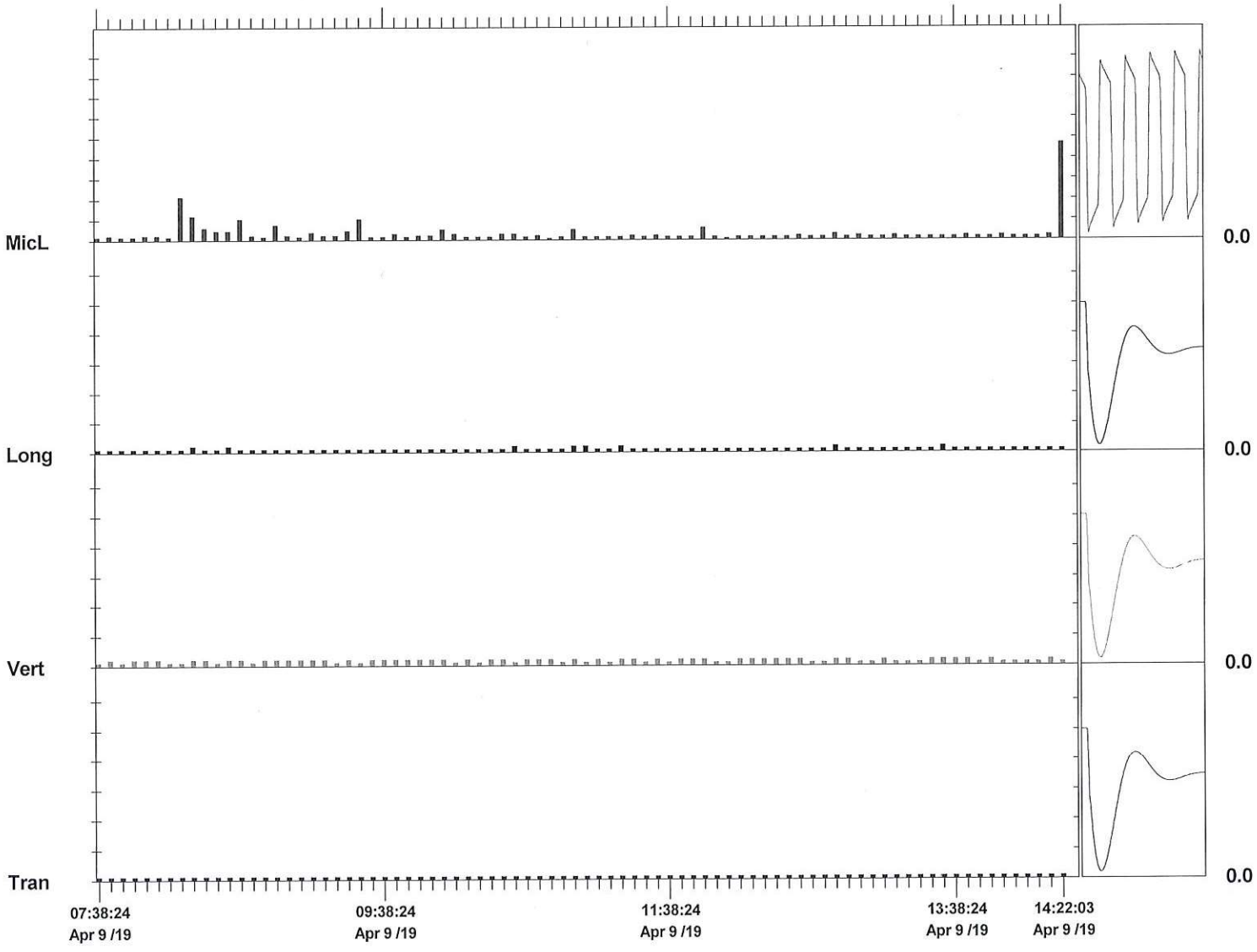
Notes

Project:	Lewisburg Corridor Study - 738 Market St
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D. Harrison
Seis. Location:	Loc #5B - 738 Market Street

Microphone	Linear Weighting
PSPL	118.2 dB(L) on April 9, 2019 at 14:21:24
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 608 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	07:34:24	07:39:24	08:16:24	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.4	7.3	Hz
Overswing Ratio	4.1	3.7	4.3	

Peak Vector Sum 0.012 in/s on April 9, 2019 at 07:57:24



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.0030 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	09:50:49 April 9, 2019	**Serial Number**	BA10895 V 10.72-8.17 BlastMate III
Histogram Finish Time	11:04:16 April 9, 2019	**Battery Level**	6.4 Volts
Number of Intervals	73.00 at 1 minute	**Unit Calibration**	July 20, 2018 by Instantel
Range	Geo:10.000 in/s	**File Name**	L895HVUJ.CP0
Sample Rate	1024sps		

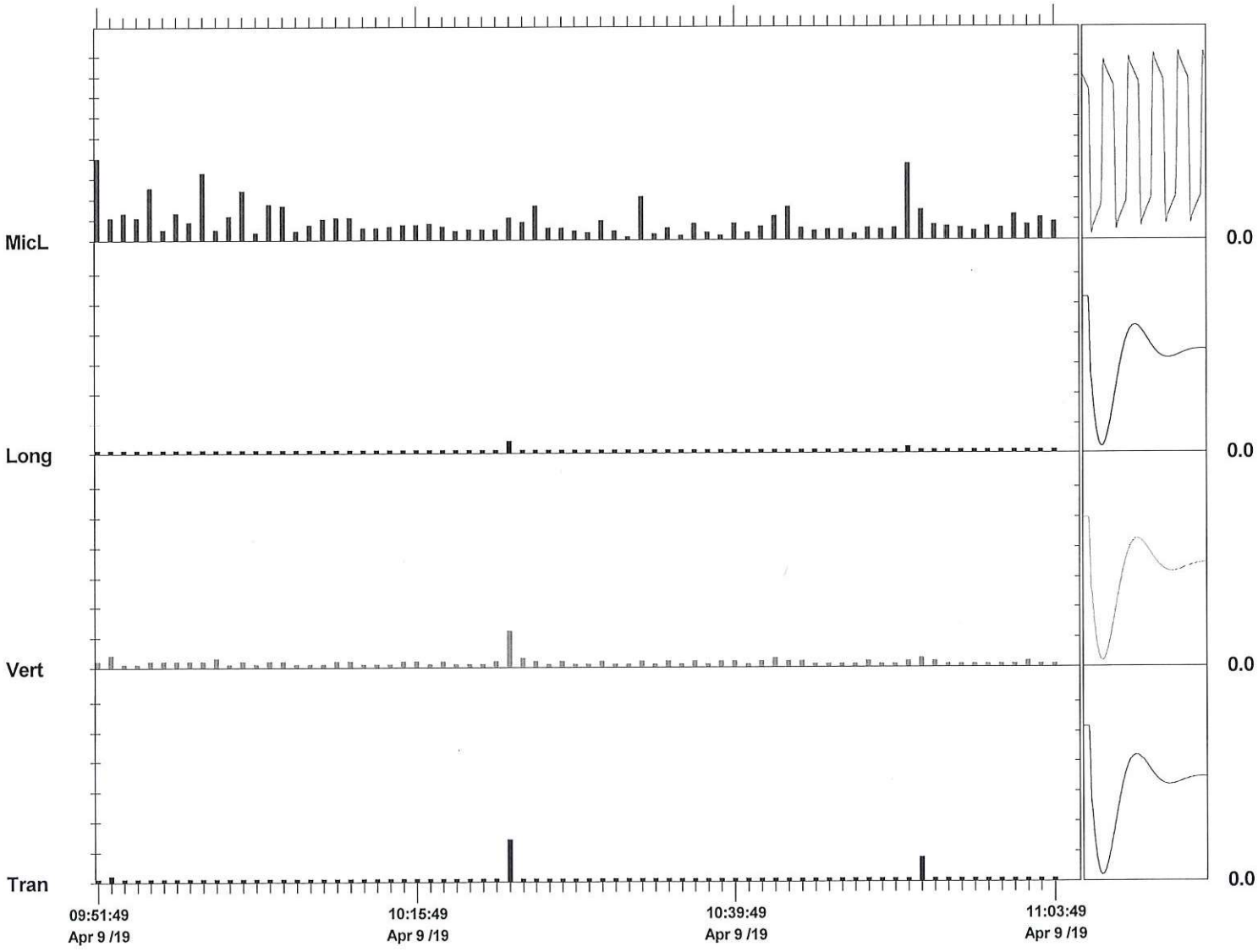
Notes

Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design
User Name:	Terra-Mechanics, Inc.
Seis. Loc:	Loc. 6 - 100 Market St.

Microphone Linear Weighting
PSPL 116.7 dB(L) on April 9, 2019 at 09:51:49
ZC Freq 4.3 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 545 mv)

	Tran	Vert	Long	
PPV	0.070	0.060	0.020	in/s
ZC Freq	<1.0	>100	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	10:22:49	10:22:49	10:22:49	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.4	7.6	Hz
Overswing Ratio	4.1	3.8	3.8	

Peak Vector Sum 0.080 in/s on April 9, 2019 at 10:22:49



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.635 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Date/Time Tran at 10:22:22 April 9, 2019
Trigger Source Geo: 0.030 in/s
Range Geo: 10.000 in/s
Record Time 2.0 sec at 1024 sps

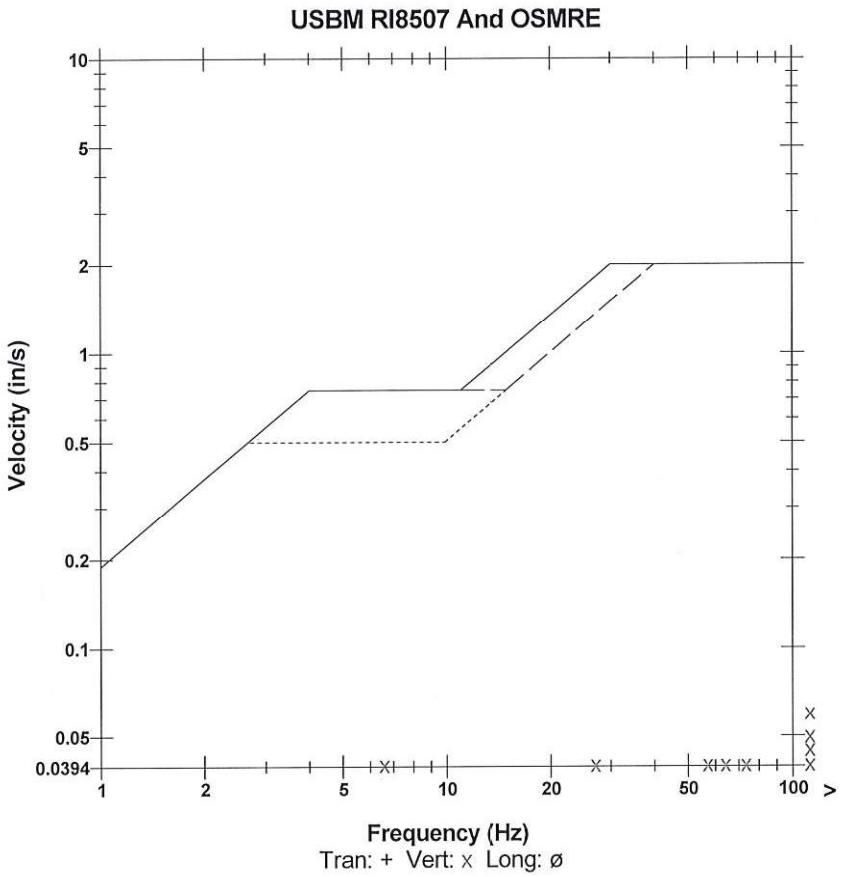
Serial Number BA10895 V 10.72-8.17 BlastMate III
Battery Level 6.4 Volts
Unit Calibration July 20, 2018 by Instantel
File Name L895HVUK.TA0

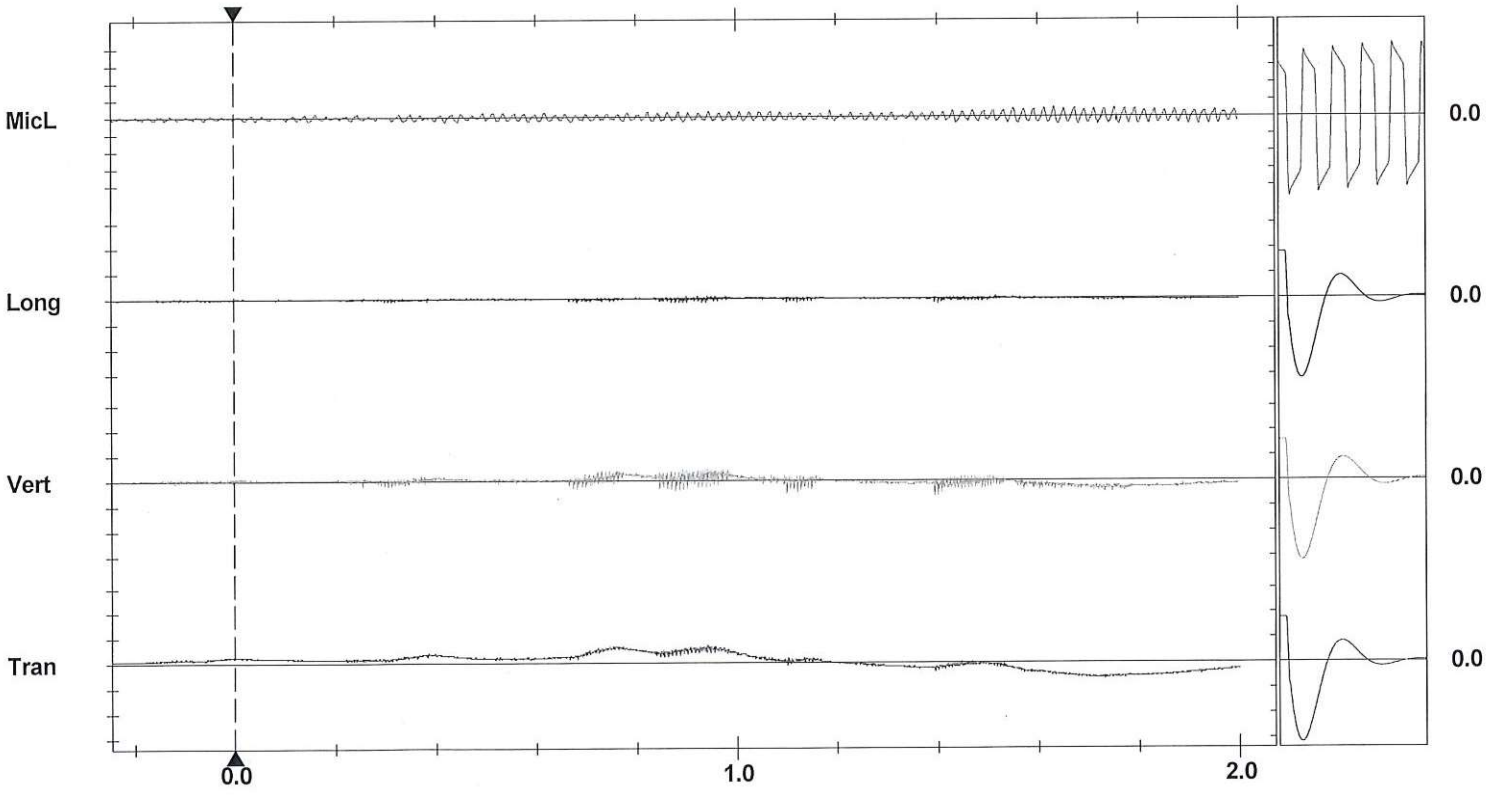
Notes
Project: Lewisburg Corridor Study
Client: Traffic Planning & Design
User Name: Terra-Mechanics, Inc.
Seis. Loc: Loc. 6 - 100 Market St.

Microphone Linear Weighting
PSPL 105.5 dB(L) at 1.633 sec
ZC Freq 64 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 545 mv)

	Tran	Vert	Long	
PPV	0.070	0.060	0.020	in/s
ZC Freq	<1.0	>100	>100	Hz
Time (Rel. to Trig)	0.941	1.394	1.400	sec
Peak Acceleration	0.066	0.212	0.066	g
Peak Displacement	0.018	0.001	0.000	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.4	7.6	Hz
Overswing Ratio	4.1	3.8	3.8	

Peak Vector Sum 0.080 in/s at 0.942 sec





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.001 psi(L)/div
Trigger = ▶——————◀

Sensor Check

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Event Report

Date/Time	Tran at 10:53:26 April 9, 2019
Trigger Source	Geo: 0.030 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps

Serial Number	BA10895 V 10.72-8.17 BlastMate III
Battery Level	6.4 Volts
Unit Calibration	July 20, 2018 by Instantel
File Name	L895HVUM.920

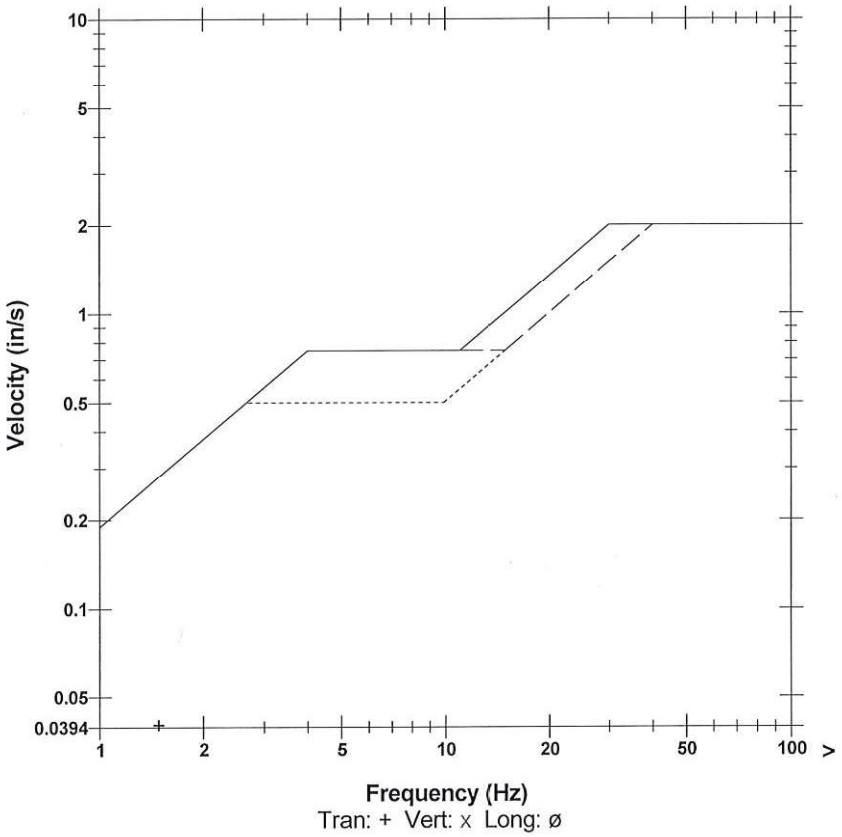
Notes
Project: Lewisburg Corridor Study
Client: Traffic Planning & Design
User Name: Terra-Mechanics, Inc.
Seis. Loc: Loc. 6 - 100 Market St.

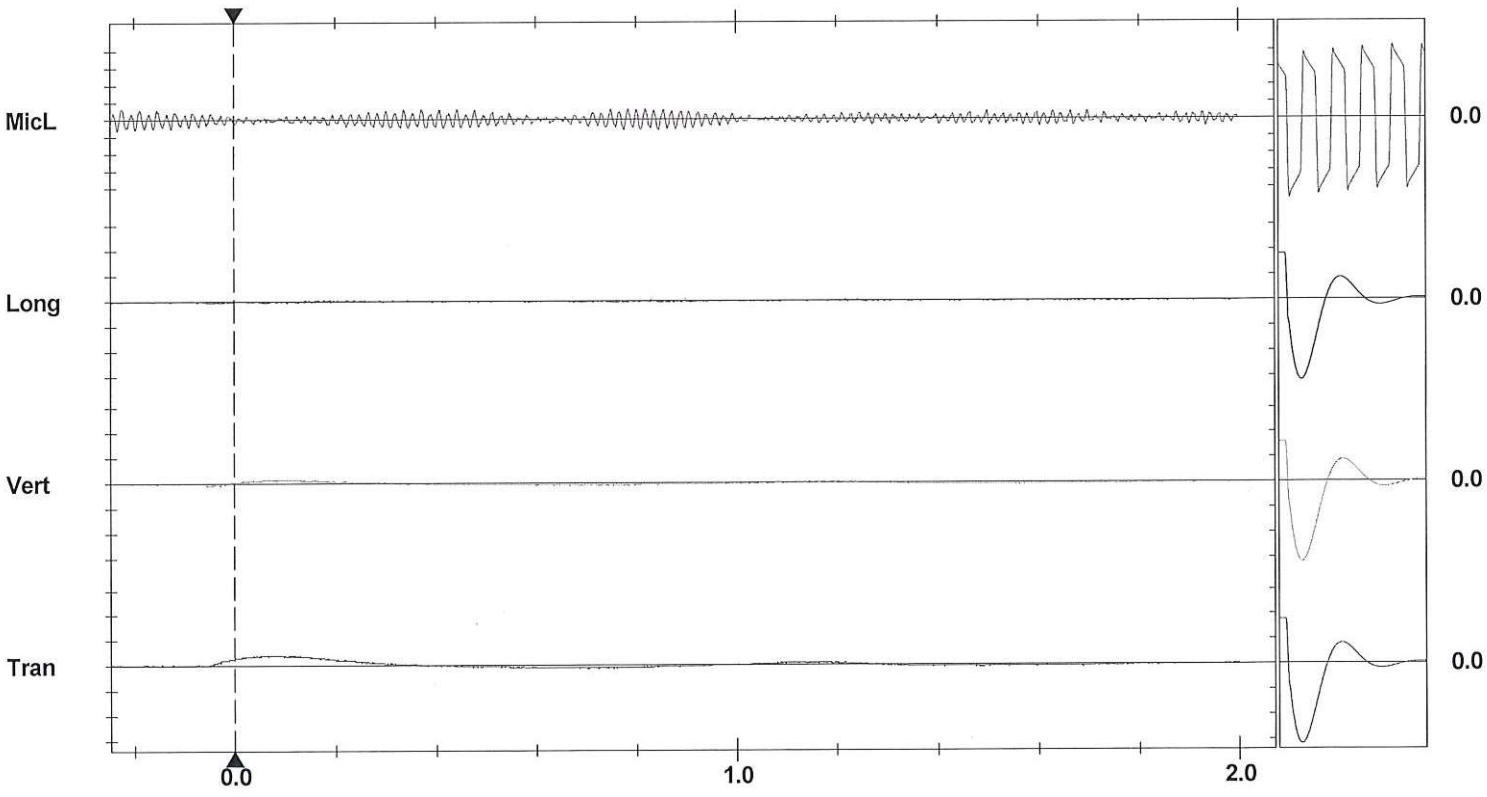
Microphone Linear Weighting
PSPL 106.5 dB(L) at -0.233 sec
ZC Freq 64 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 545 mv)

	Tran	Vert	Long	
PPV	0.040	0.015	0.005	in/s
ZC Freq	1.5	3.2	>100	Hz
Time (Rel. to Trig)	0.037	0.037	-0.246	sec
Peak Acceleration	0.013	0.027	0.027	g
Peak Displacement	0.005	0.001	0.000	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.4	7.6	Hz
Overswing Ratio	4.1	3.8	3.8	

Peak Vector Sum 0.043 in/s at 0.037 sec

USBM RI8507 And OSMRE





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.001 psi(L)/div
Trigger =

Sensor Check

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Event Report

Histogram Start Time	11:35:43 April 9, 2019	**Serial Number**	BA10895 V 10.72-8.17 BlastMate III
Histogram Finish Time	12:34:25 April 9, 2019	**Battery Level**	6.4 Volts
Number of Intervals	58.00 at 1 minute	**Unit Calibration**	July 20, 2018 by Instantel
Range	Geo:10.000 in/s	**File Name**	L895HVUO.7J0
Sample Rate	1024sps		

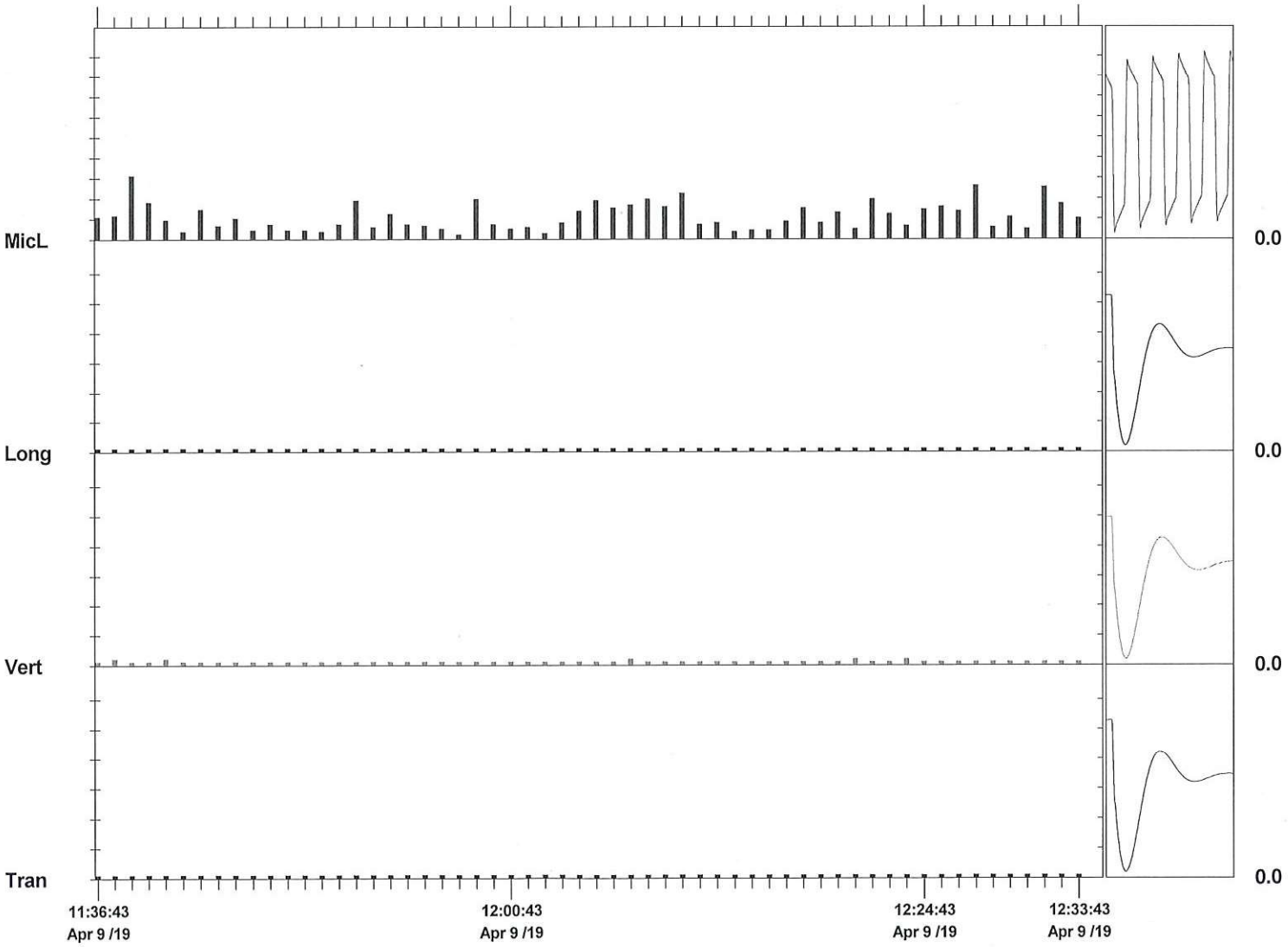
Notes

Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design
User Name:	Terra-Mechanics, Inc.
Seis. Loc:	Loc. 7 - 238 Market St.

Microphone Linear Weighting
PSPL 114.6 dB(L) on April 9, 2019 at 11:38:43
ZC Freq 3.9 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 546 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.005	in/s
ZC Freq	N/A	>100	N/A	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	11:36:43	11:37:43	11:36:43	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.3	7.6	Hz
Overswing Ratio	3.9	3.7	3.7	

Peak Vector Sum 0.010 in/s on April 9, 2019 at 11:37:43
N/A: Not Applicable



Time Scale: 1 minute /div **Amplitude Scale:** Geo: Page 3 of 3 Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	13:24:57 April 8, 2019
Histogram Finish Time	19:00:00 April 8, 2019
Number of Intervals	1341.00 at 15 seconds
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE18191 V 10.72-8.17 MiniMate Plus
Battery Level	6.6 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	T191HVSY.LL0H

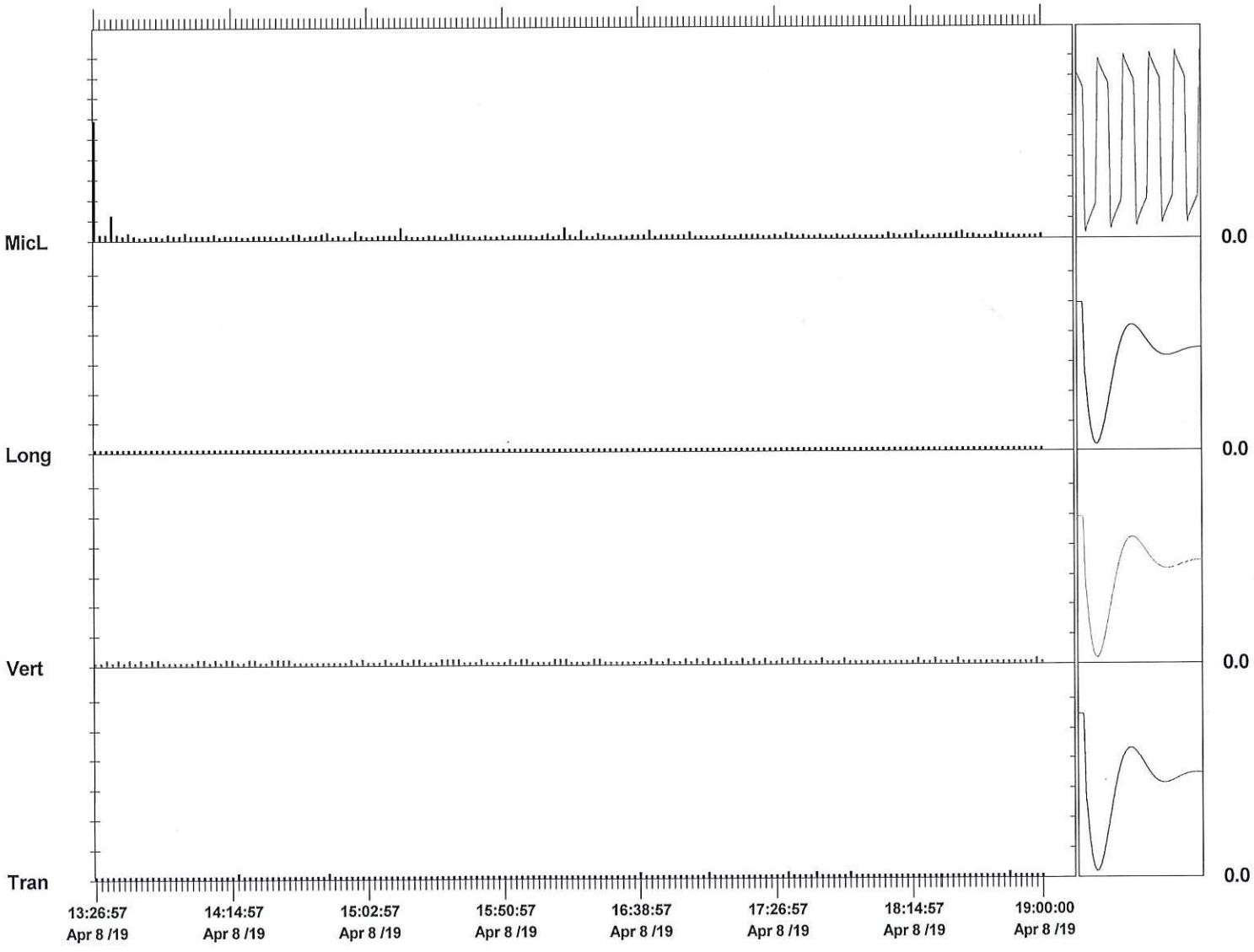
Notes

Project:	Lewisburg Corridor Study-Packwood House
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 1 - Packwood House - Market St

Microphone	Linear Weighting
PSPL	120.1 dB(L) on April 8, 2019 at 13:25:12
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 510 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 8 /19	Apr 8 /19	Apr 8 /19	
Time	14:15:27	13:30:12	13:25:12	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.4	7.3	Hz
Overswing Ratio	3.5	3.9	4.0	

Peak Vector Sum 0.012 in/s on April 8, 2019 at 14:02:27



Time Scale: 2 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:03:36 April 8, 2019
Histogram Finish Time	07:00:01 April 9, 2019
Number of Intervals	2866.00 at 15 seconds
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE18191 V 10.72-8.17 MiniMate Plus
Battery Level	6.6 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	T191HVTE.A00H

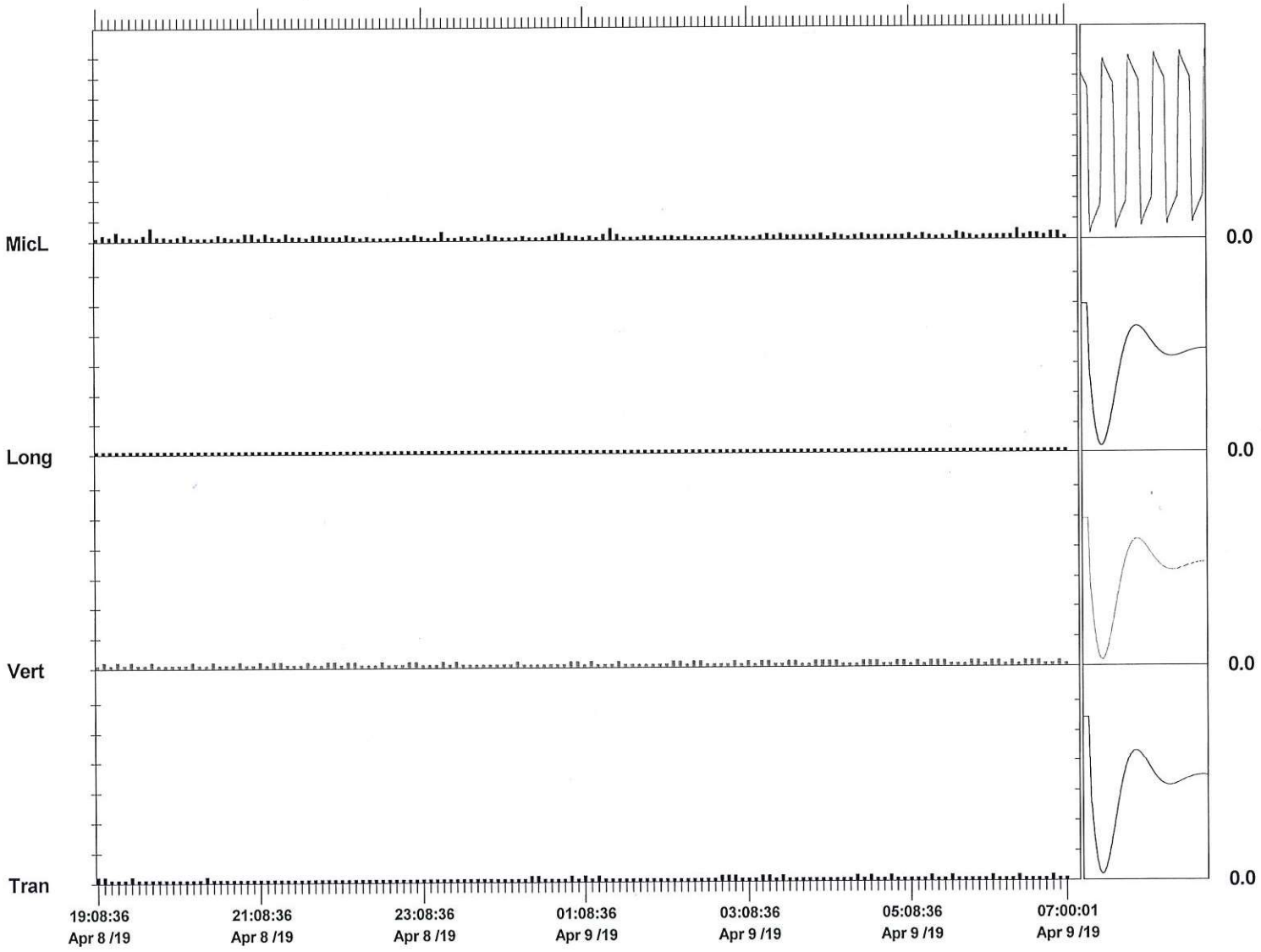
Notes

Project:	Lewisburg Corridor Study-Packwood House
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 1 - Packwood House - Market St

Microphone	Linear Weighting
PSPL	101.0 dB(L) on April 8, 2019 at 19:46:36
ZC Freq	24 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 563 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 8 /19	Apr 8 /19	Apr 8 /19	
Time	19:06:06	19:09:36	19:03:51	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.4	7.3	Hz
Overswing Ratio	3.5	3.9	4.0	

Peak Vector Sum 0.012 in/s on April 9, 2019 at 04:59:06



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.030 in/s/div Mic: 0.001 psi(L)/div Sensor Check

Printed: May 30, 2019 (V 10.74)

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Instantel

Event Report

Histogram Start Time	07:04:22 April 9, 2019
Histogram Finish Time	19:00:00 April 9, 2019
Number of Intervals	2863.00 at 15 seconds
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE18191 V 10.72-8.17 MiniMate Plus
Battery Level	6.6 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	T191HVUB.NA0H

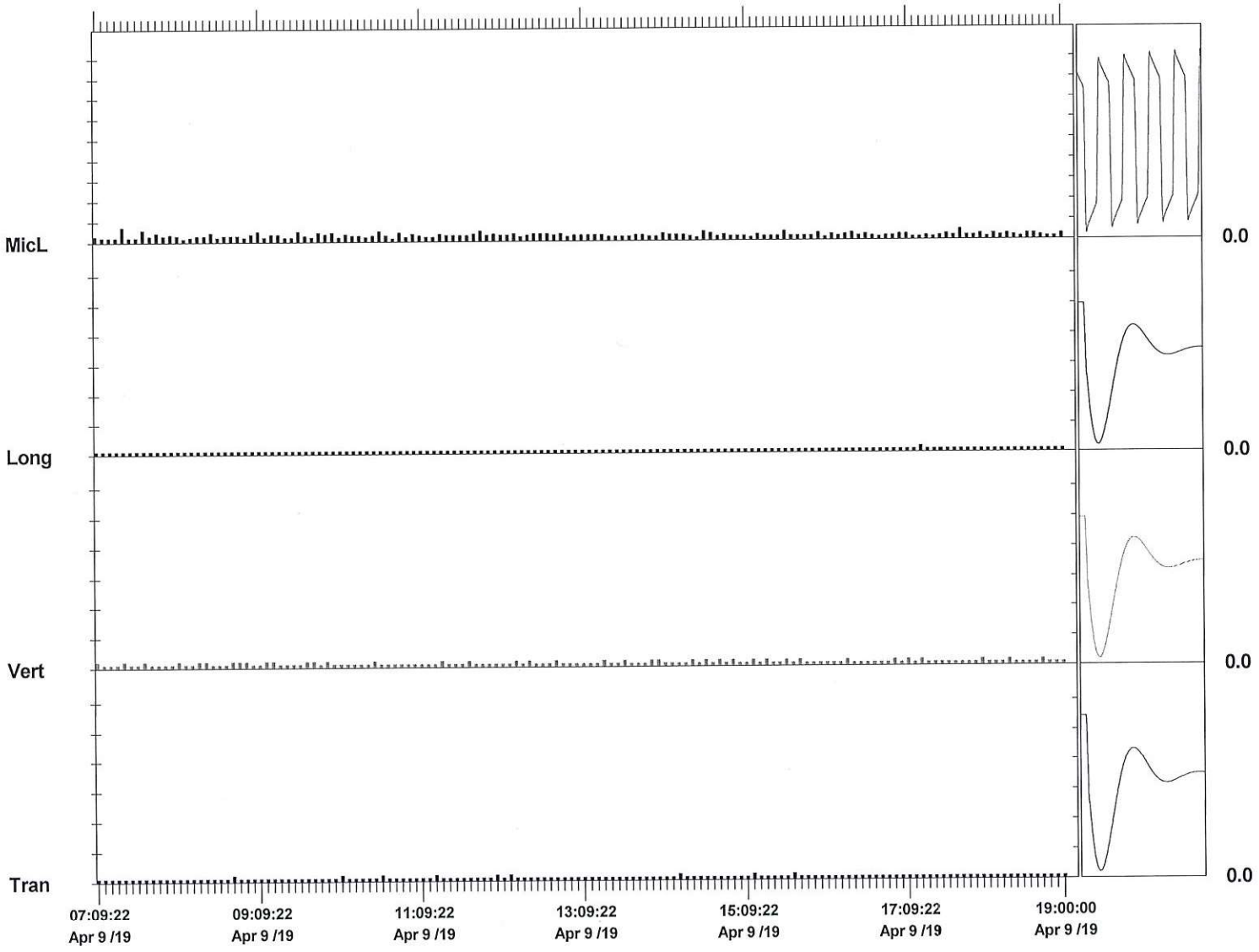
Notes

Project:	Lewisburg Corridor Study-Packwood House
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 1 - Packwood House - Market St

Microphone	Linear Weighting
PSPL	101.9 dB(L) on April 9, 2019 at 07:24:52
ZC Freq	13 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 563 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	08:46:52	07:05:22	17:15:37	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.4	7.3	Hz
Overswing Ratio	3.5	3.9	4.0	

Peak Vector Sum 0.012 in/s on April 9, 2019 at 17:15:37



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.099 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:04:22 April 9, 2019
Histogram Finish Time	07:00:01 April 10, 2019
Number of Intervals	2863.00 at 15 seconds
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE18191 V 10.72-8.17 MiniMate Plus
Battery Level	6.7 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	T191HVV8.ZA0H

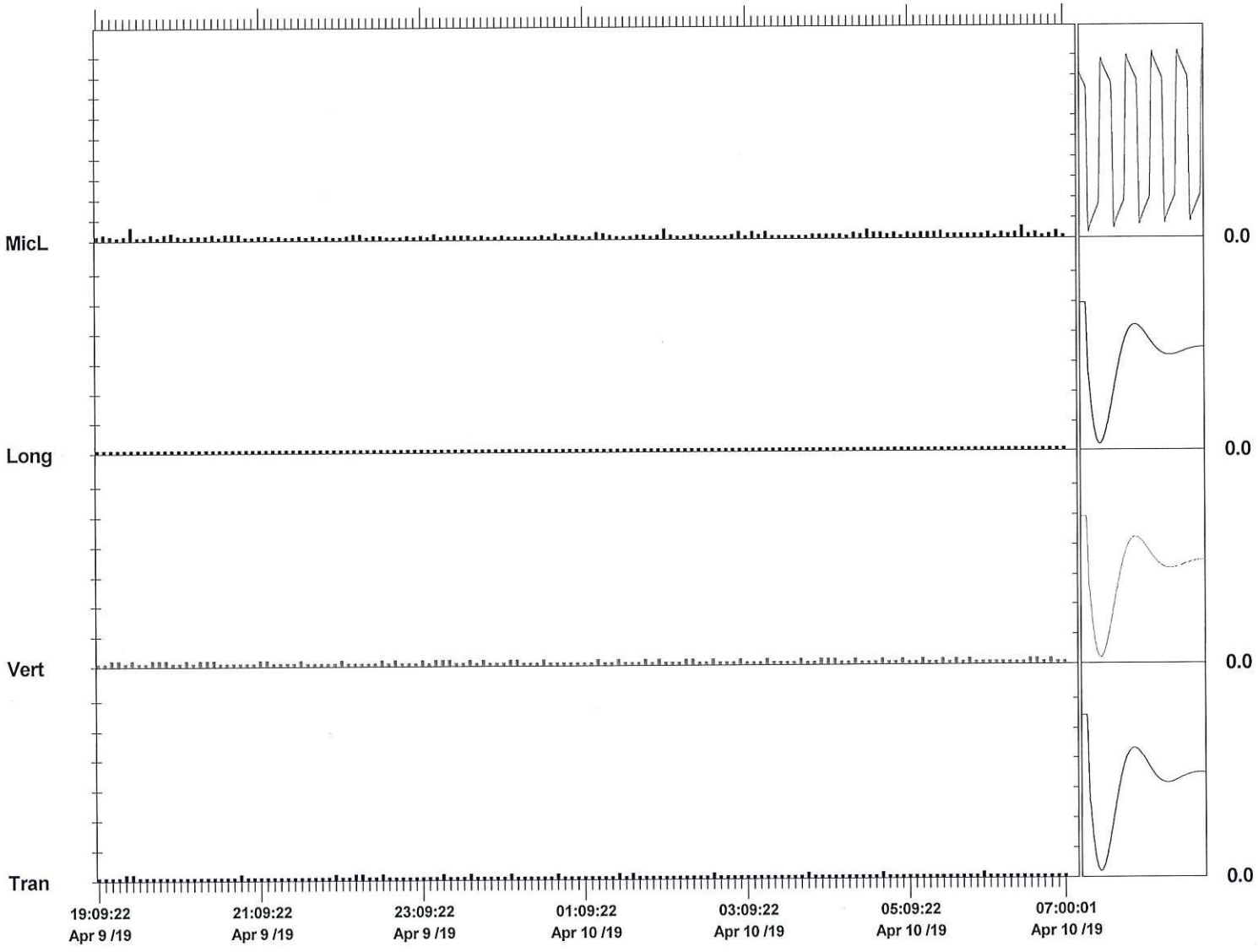
Notes

Project:	Lewisburg Corridor Study-Packwood House
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 1 - Packwood House - Market St

Microphone	Linear Weighting
PSPL	101.0 dB(L) on April 9, 2019 at 19:30:52
ZC Freq	20 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 571 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	19:25:52	19:18:22	19:04:37	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.4	7.3	Hz
Overswing Ratio	3.5	3.9	4.0	

Peak Vector Sum 0.012 in/s on April 9, 2019 at 22:38:37



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.0039 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Instantel Event Report

Histogram Start Time	07:04:18 April 10, 2019	**Serial Number**	BE18191 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	11:26:06 April 10, 2019	**Battery Level**	6.7 Volts
Number of Intervals	1047.00 at 15 seconds	**Unit Calibration**	March 26, 2019 by Instantel
Range	Geo:10.000 in/s	**File Name**	T191HVW6.B60H
Sample Rate	1024sps		

Notes

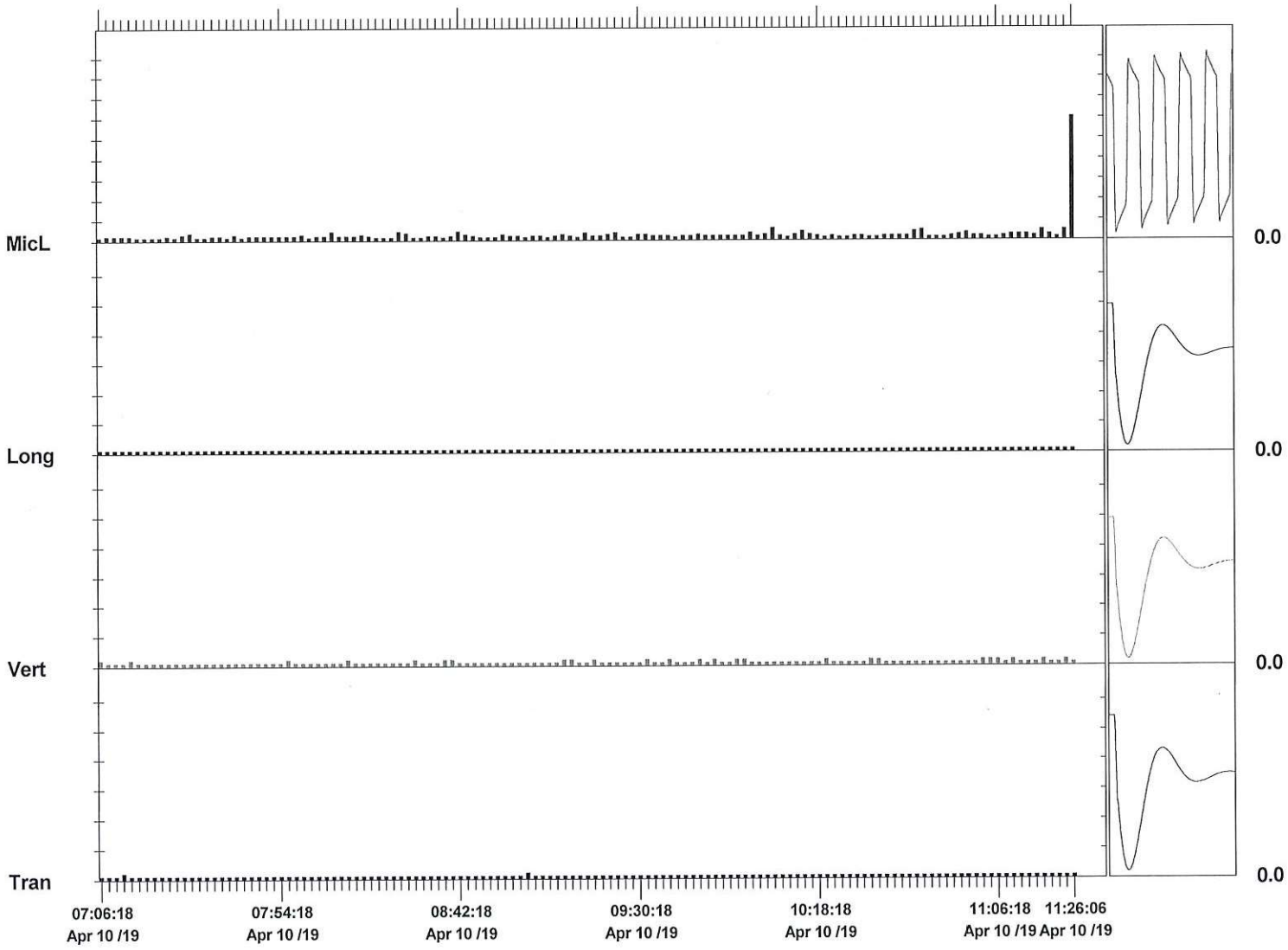
Project:	Lewisburg Corridor Study-Packwood House
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 1 - Packwood House - Market St

Microphone	Linear Weighting
PSPL	120.3 dB(L) on April 10, 2019 at 11:26:03
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 581 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.005	in/s
ZC Freq	>100	>100	N/A	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	07:11:33	07:05:33	07:04:33	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.3	7.3	Hz
Overswing Ratio	3.5	3.9	4.0	

Peak Vector Sum 0.012 in/s on April 10, 2019 at 07:14:18

N/A: Not Applicable



Time Scale: 2 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	16:28:08 April 8, 2019
Histogram Finish Time	19:05:00 April 8, 2019
Number of Intervals	157.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HVT7.2W0H

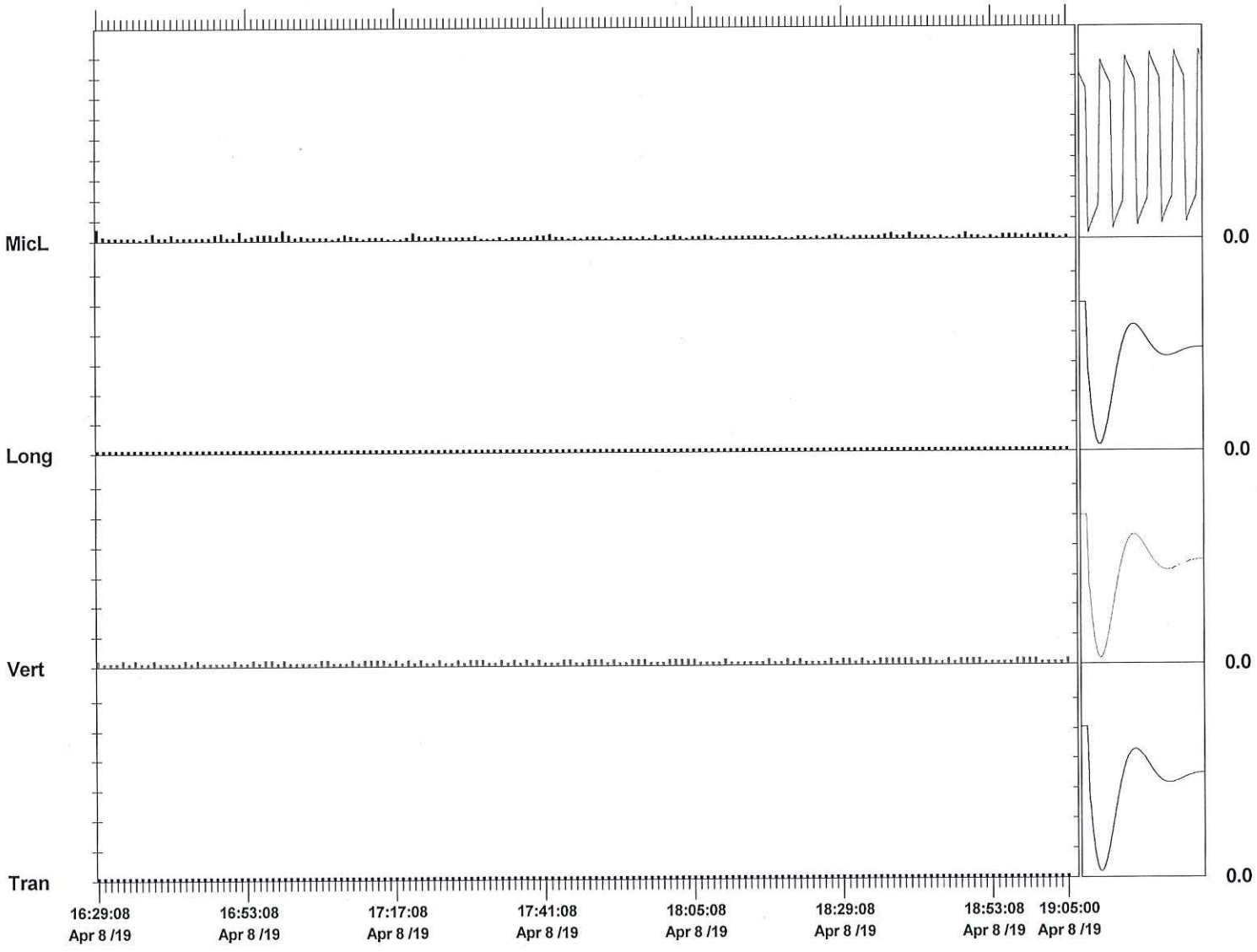
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	100.0 dB(L) on April 8, 2019 at 16:29:08
ZC Freq	4.0 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 561 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 8 /19	Apr 8 /19	Apr 8 /19	
Time	16:29:08	16:29:08	16:29:08	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.4	Hz
Overswing Ratio	3.6	3.5	3.8	

Peak Vector Sum 0.012 in/s on April 8, 2019 at 18:30:08



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.093 in/s/div Mic: 0.001 psi(L)/div

Sensor Check

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Event Report

Histogram Start Time	19:07:42 April 8, 2019
Histogram Finish Time	07:05:01 April 9, 2019
Number of Intervals	718.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HVTE.GU0H

Post Event Notes

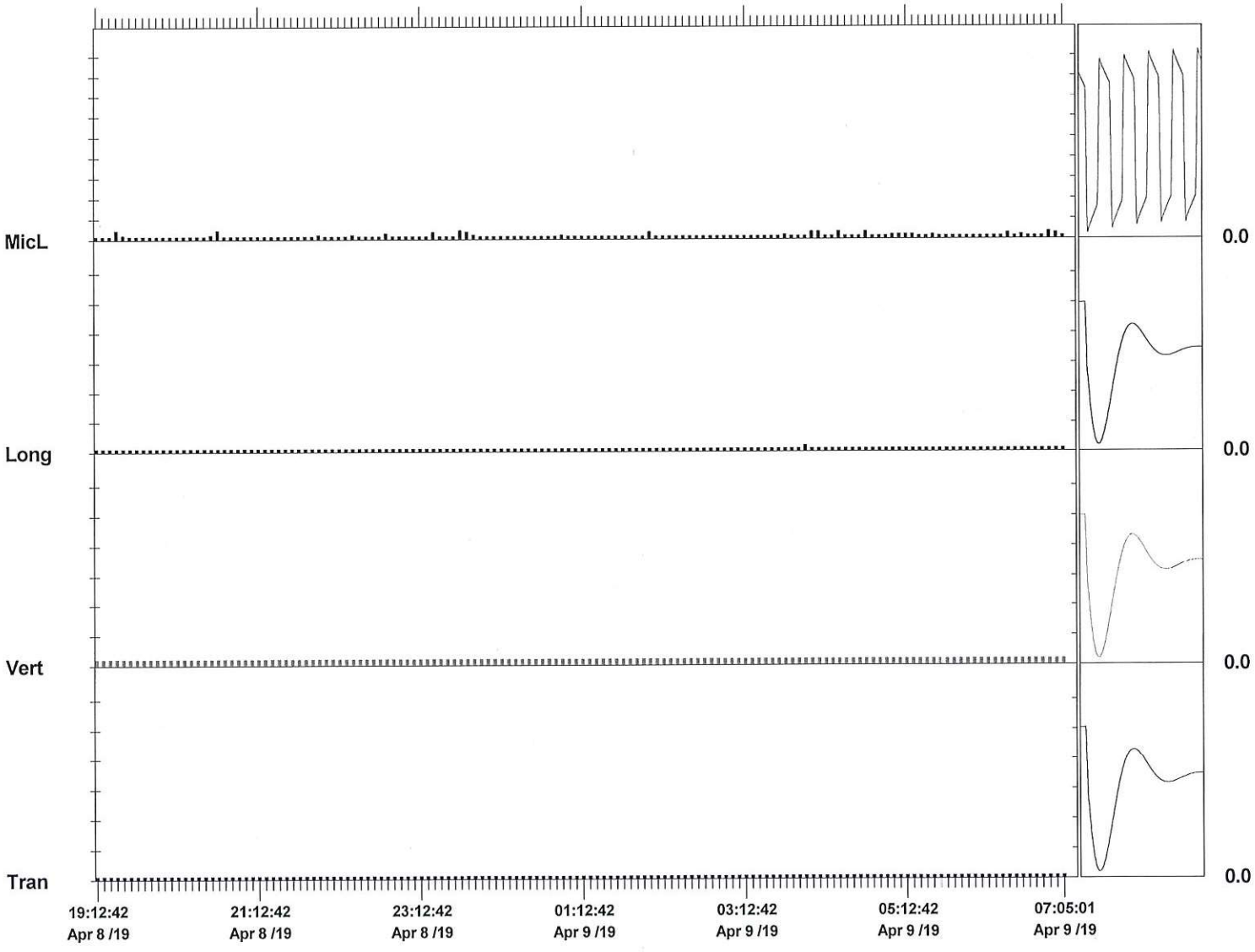
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	97.5 dB(L) on April 8, 2019 at 19:25:42
ZC Freq	5.4 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 579 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 8 /19	Apr 8 /19	Apr 9 /19	
Time	19:08:42	19:08:42	03:53:42	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.4	Hz
Overswing Ratio	3.6	3.5	3.9	

Peak Vector Sum 0.012 in/s on April 8, 2019 at 19:43:42



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Instantel Event Report

Histogram Start Time	07:08:19 April 9, 2019
Histogram Finish Time	19:05:00 April 9, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HVUB.TV0H

Notes

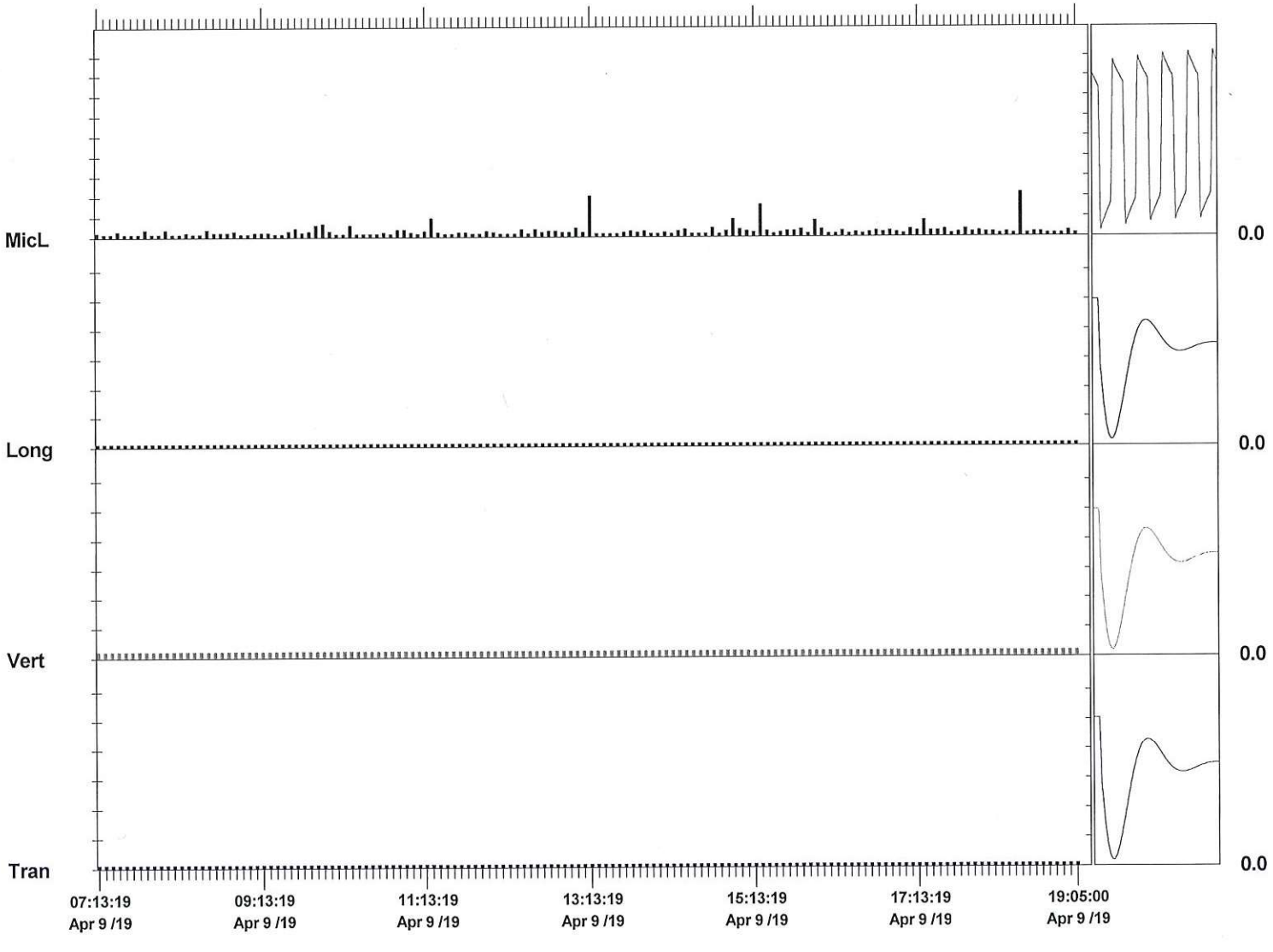
Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	111.5 dB(L) on April 9, 2019 at 18:28:19
ZC Freq	4.7 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 549 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.005	in/s
ZC Freq	N/A	>100	N/A	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	07:09:19	07:09:19	07:09:19	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.6	3.9	

Peak Vector Sum 0.012 in/s on April 9, 2019 at 07:30:19

N/A: Not Applicable



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Instantel Event Report

Histogram Start Time	19:08:24 April 9, 2019	**Serial Number**	BE13117 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	07:05:01 April 10, 2019	**Battery Level**	6.8 Volts
Number of Intervals	717.00 at 1 minute	**Unit Calibration**	March 9, 2019 by Instantel
Range	Geo:10.000 in/s	**File Name**	O117HVV9.600H
Sample Rate	1024sps		

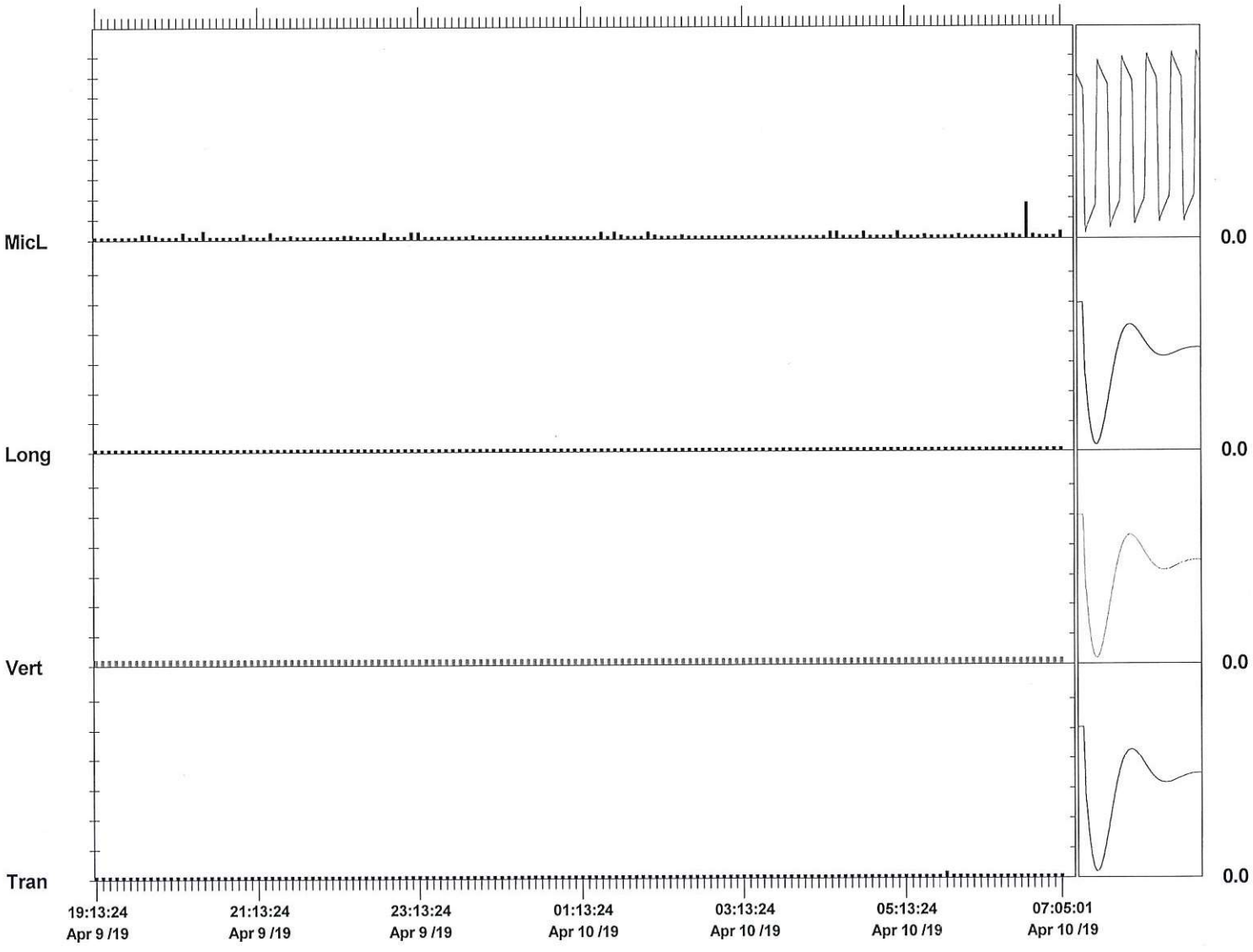
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone Linear Weighting
PSPL 109.5 dB(L) on April 10, 2019 at 06:39:24
ZC Freq >100 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 539 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 10 /19	Apr 9 /19	Apr 9 /19	
Time	05:40:24	19:11:24	19:09:24	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.5	3.9	

Peak Vector Sum 0.012 in/s on April 9, 2019 at 19:16:24



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:08:21 April 10, 2019
Histogram Finish Time	19:05:00 April 10, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HVW6.HX0H

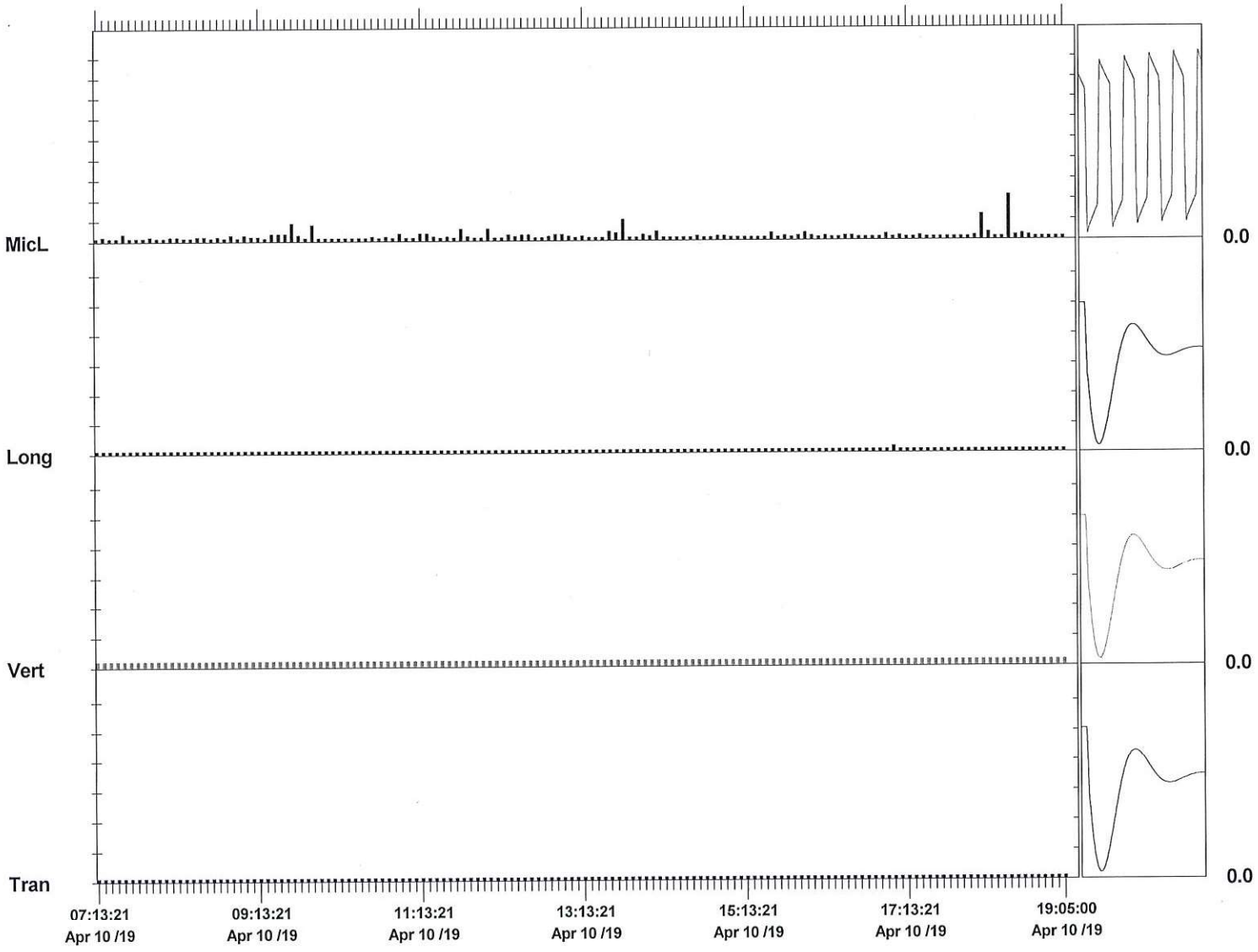
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	111.5 dB(L) on April 10, 2019 at 18:27:21
ZC Freq	4.6 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 545 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	07:09:21	07:09:21	17:03:21	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.5	3.9	

Peak Vector Sum 0.012 in/s on April 10, 2019 at 07:28:21



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:08:13 April 10, 2019
Histogram Finish Time	07:05:01 April 11, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HVX3.TP0H

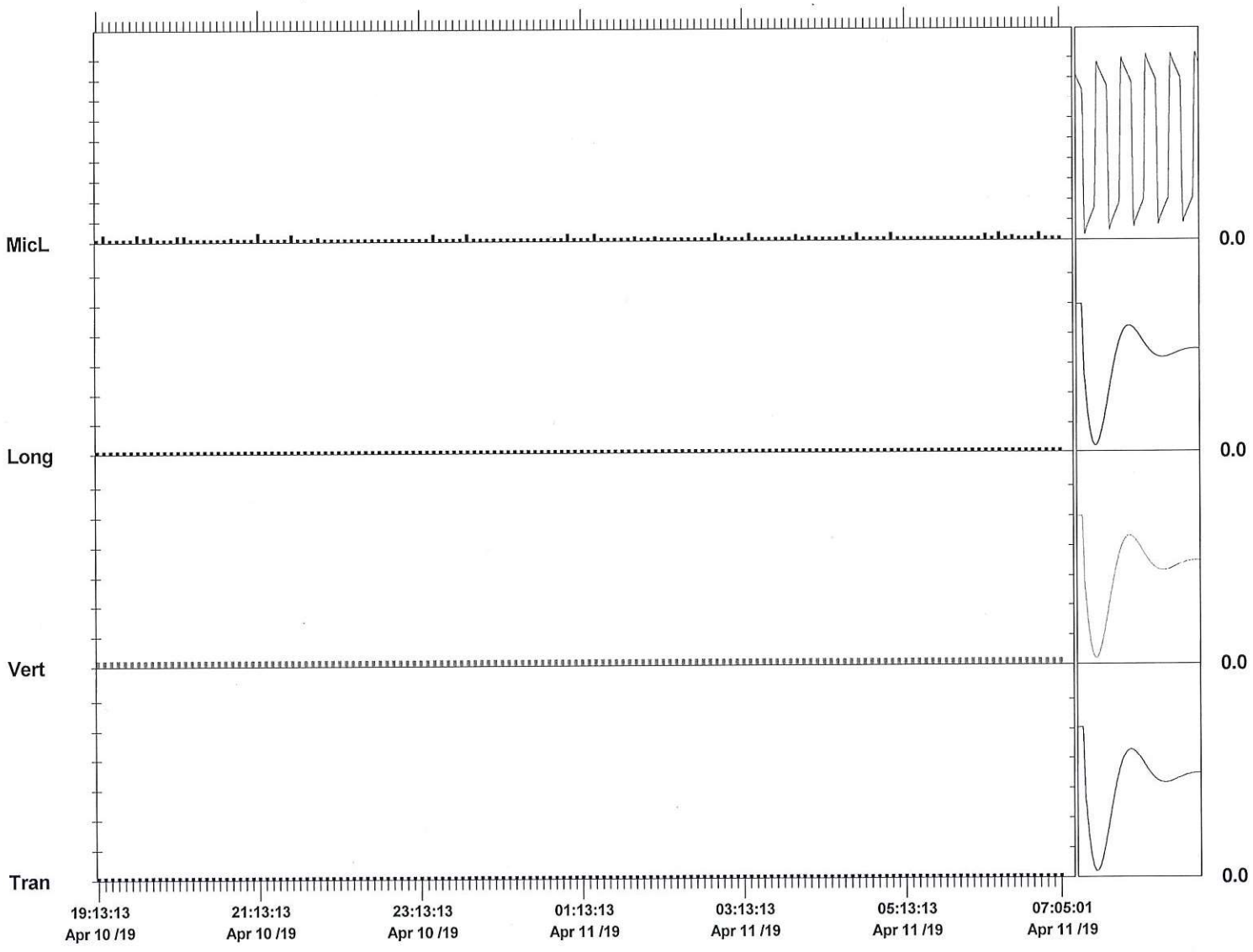
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	97.5 dB(L) on April 10, 2019 at 21:10:13
ZC Freq	13 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 593 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	19:09:13	19:09:13	19:09:13	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.5	3.9	

Peak Vector Sum 0.012 in/s on April 10, 2019 at 19:50:13



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.0030 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:08:19 April 11, 2019
Histogram Finish Time	19:05:00 April 11, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HVY1.5V0H

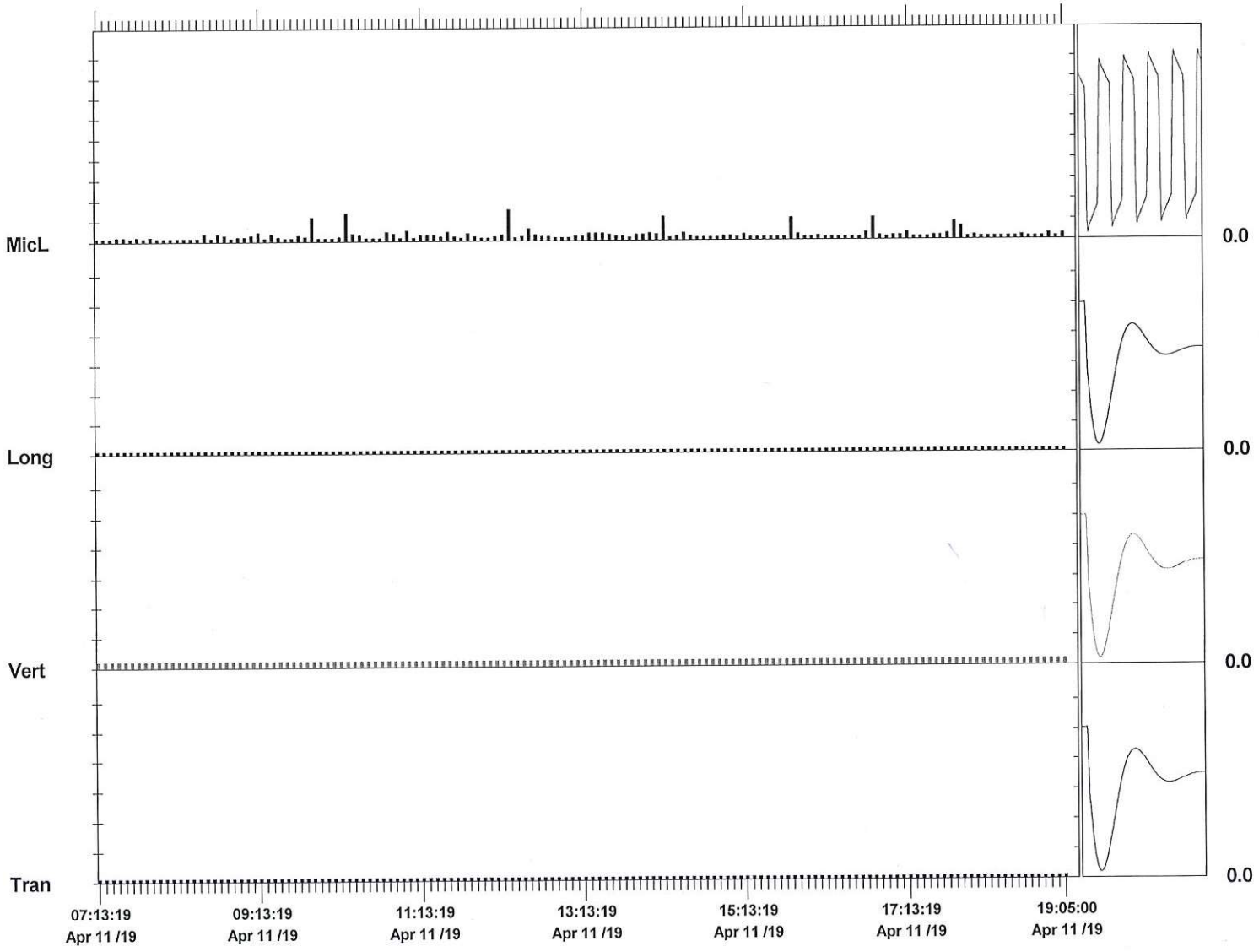
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	108.4 dB(L) on April 11, 2019 at 12:18:19
ZC Freq	4.3 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 556 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 11 /19	Apr 11 /19	Apr 11 /19	
Time	07:09:19	07:09:19	07:09:19	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.5	3.9	

Peak Vector Sum 0.012 in/s on April 11, 2019 at 07:53:19



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:08:16 April 11, 2019
Histogram Finish Time	07:05:01 April 12, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HVYY.HS0H

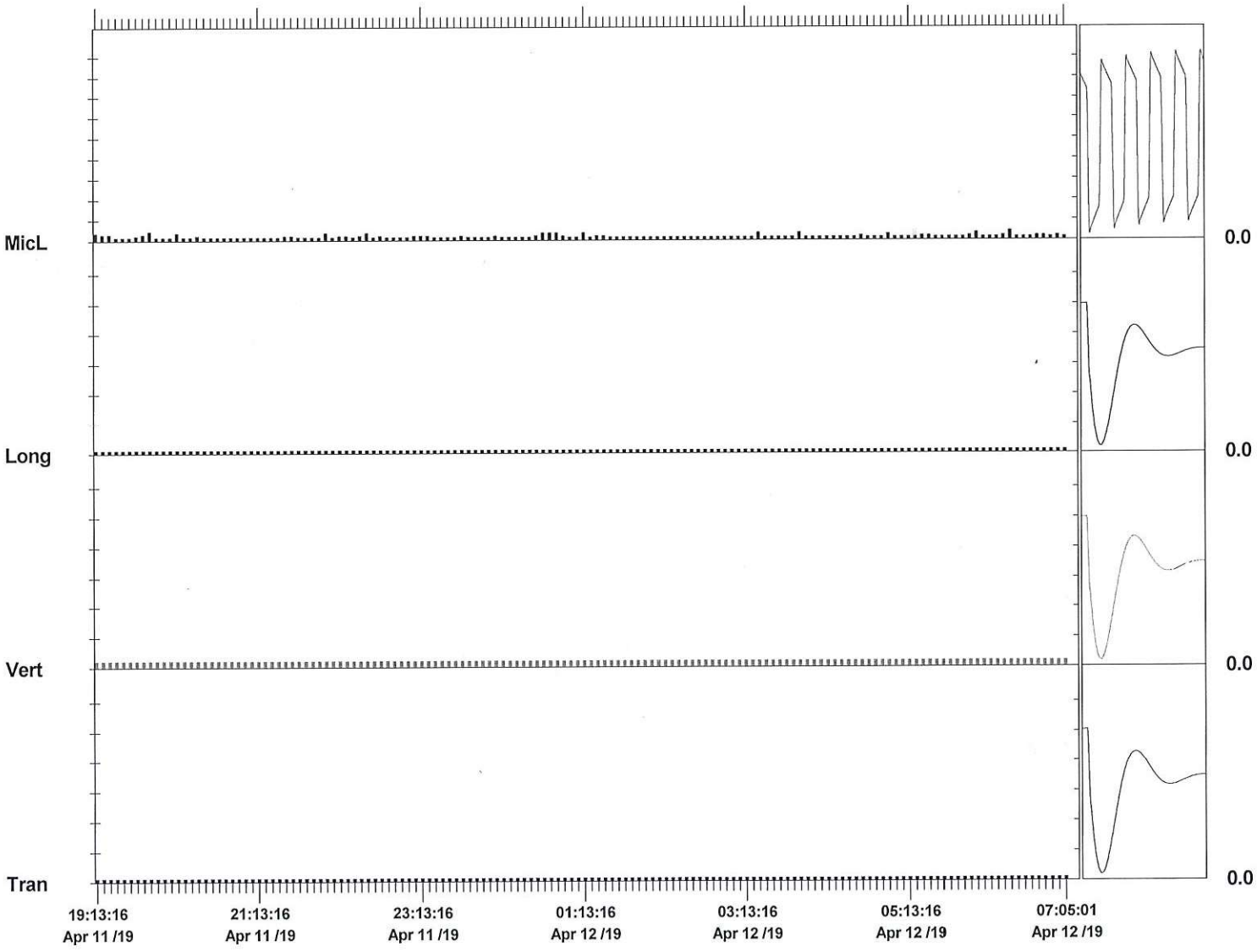
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	97.5 dB(L) on April 11, 2019 at 19:49:16
ZC Freq	11 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 592 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 11 /19	Apr 11 /19	Apr 11 /19	
Time	19:09:16	19:09:16	19:09:16	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.5	3.9	

Peak Vector Sum 0.012 in/s on April 11, 2019 at 19:24:16



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.305 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Instantel Event Report

Histogram Start Time	19:08:16 April 12, 2019
Histogram Finish Time	07:05:01 April 13, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HW0T.5S0H

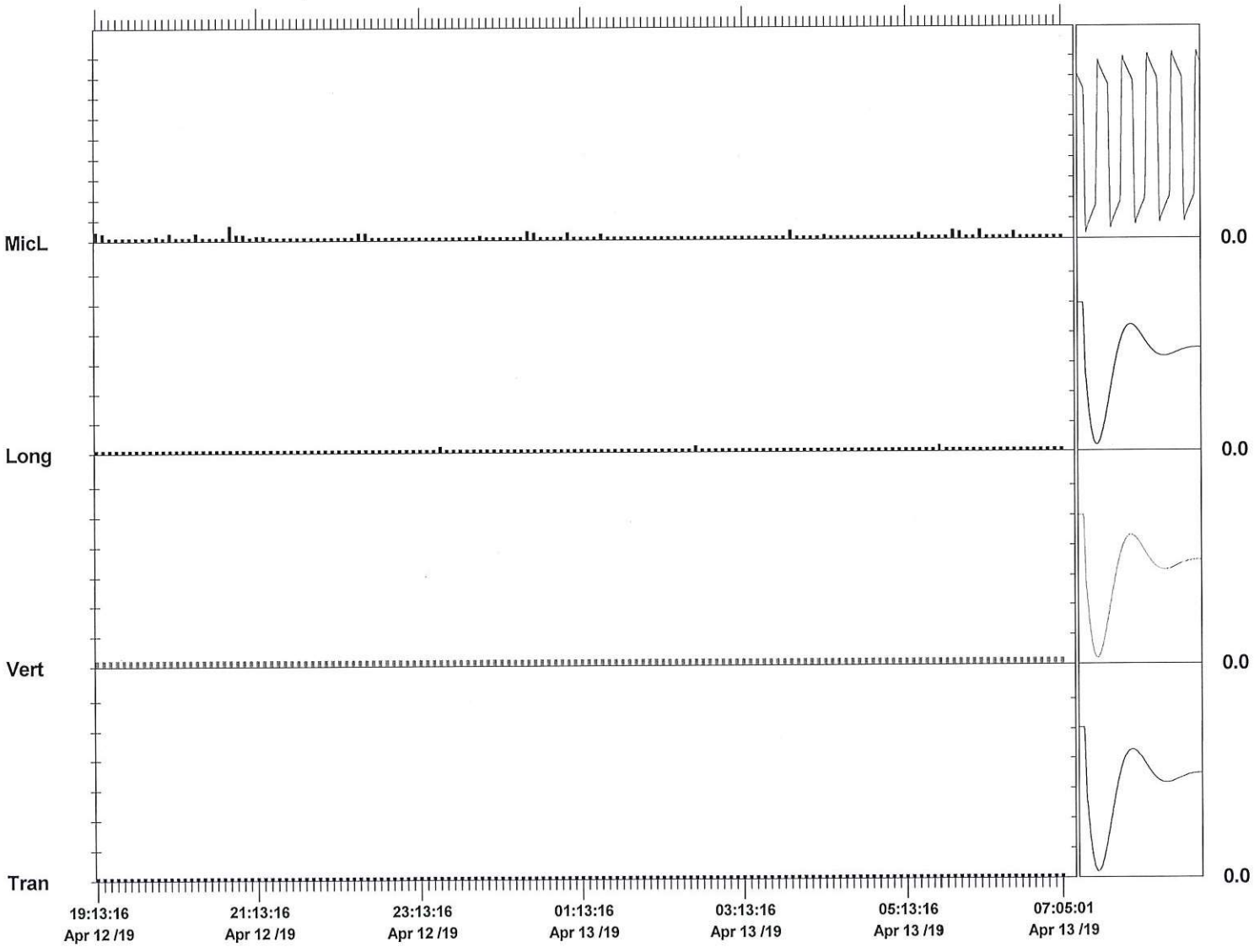
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	101.9 dB(L) on April 12, 2019 at 20:53:16
ZC Freq	3.4 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 538 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 12 /19	Apr 12 /19	Apr 12 /19	
Time	19:09:16	19:09:16	23:24:16	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.6	3.9	

Peak Vector Sum 0.012 in/s on April 12, 2019 at 19:33:16



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.030 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:09:31 April 13, 2019
Histogram Finish Time	19:05:00 April 13, 2019
Number of Intervals	716.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HW1Q.JV0H

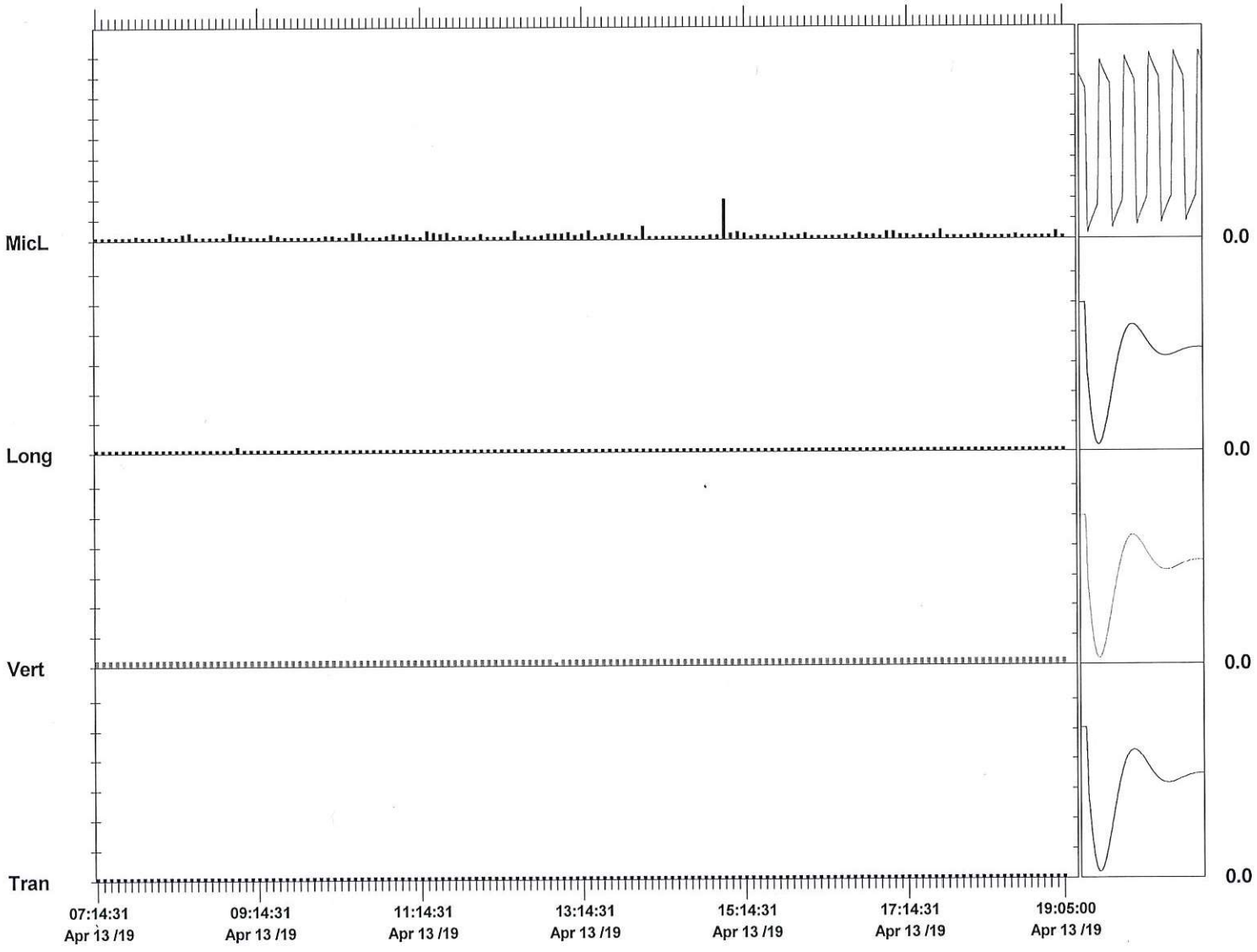
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	110.6 dB(L) on April 13, 2019 at 14:57:31
ZC Freq	4.7 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 571 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 13 /19	Apr 13 /19	Apr 13 /19	
Time	07:10:31	07:11:31	08:57:31	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.5	3.9	

Peak Vector Sum 0.012 in/s on April 13, 2019 at 07:42:31



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.0030 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:08:17 April 13, 2019
Histogram Finish Time	07:05:01 April 14, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HW2N.TT0H

Notes

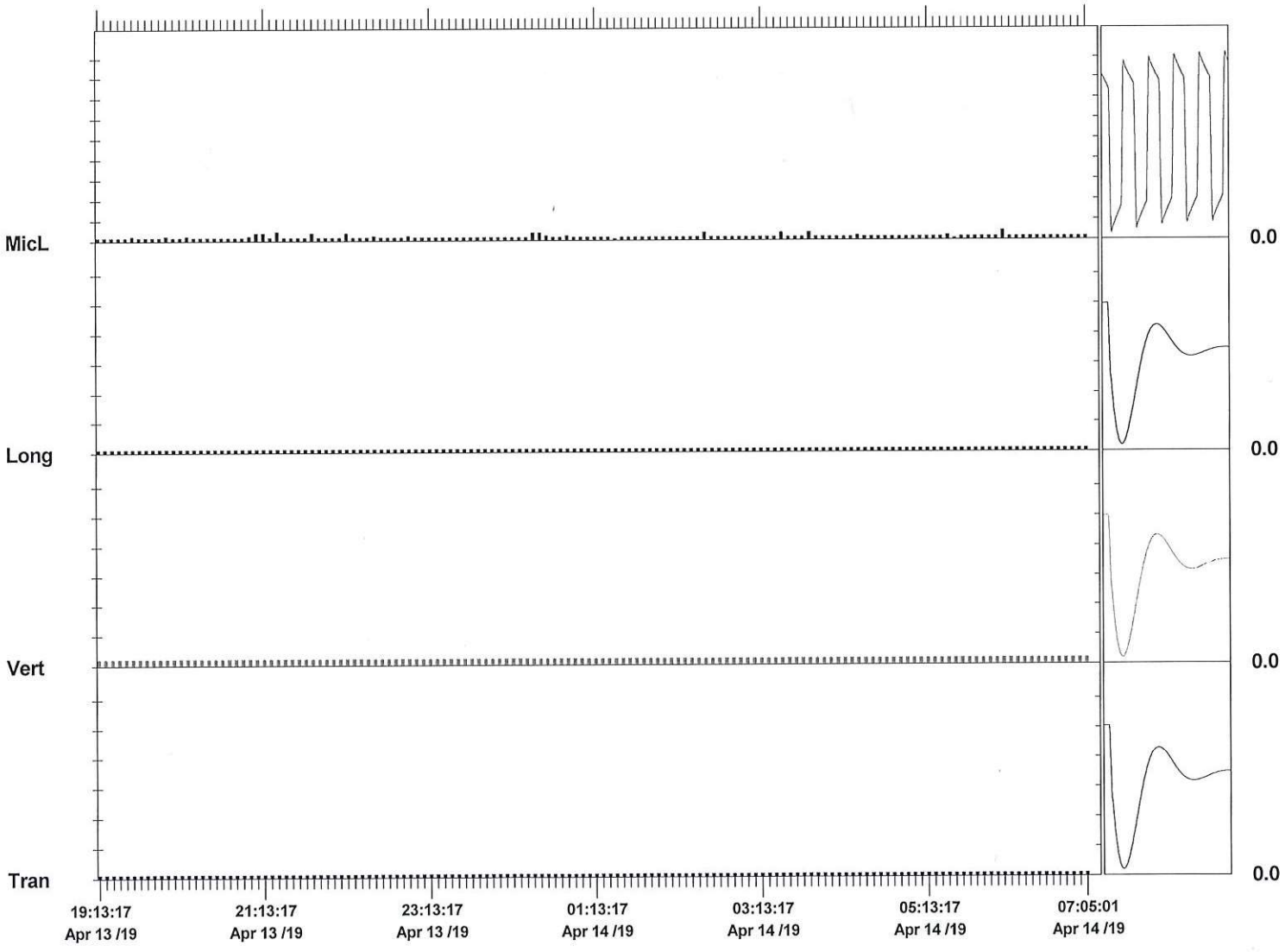
Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	97.5 dB(L) on April 13, 2019 at 21:20:17
ZC Freq	2.6 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 588 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.005	in/s
ZC Freq	>100	>100	N/A	Hz
Date	Apr 13 /19	Apr 13 /19	Apr 13 /19	
Time	19:09:17	19:10:17	19:09:17	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.5	3.9	

Peak Vector Sum 0.012 in/s on April 13, 2019 at 19:13:17

N/A: Not Applicable



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 4.9650 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:08:19 April 14, 2019	**Serial Number**	BE13117 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	19:05:00 April 14, 2019	**Battery Level**	6.8 Volts
Number of Intervals	717.00 at 1 minute	**Unit Calibration**	March 9, 2019 by Instantel
Range	Geo:10.000 in/s	**File Name**	O117HW3L.5V0H
Sample Rate	1024sps		

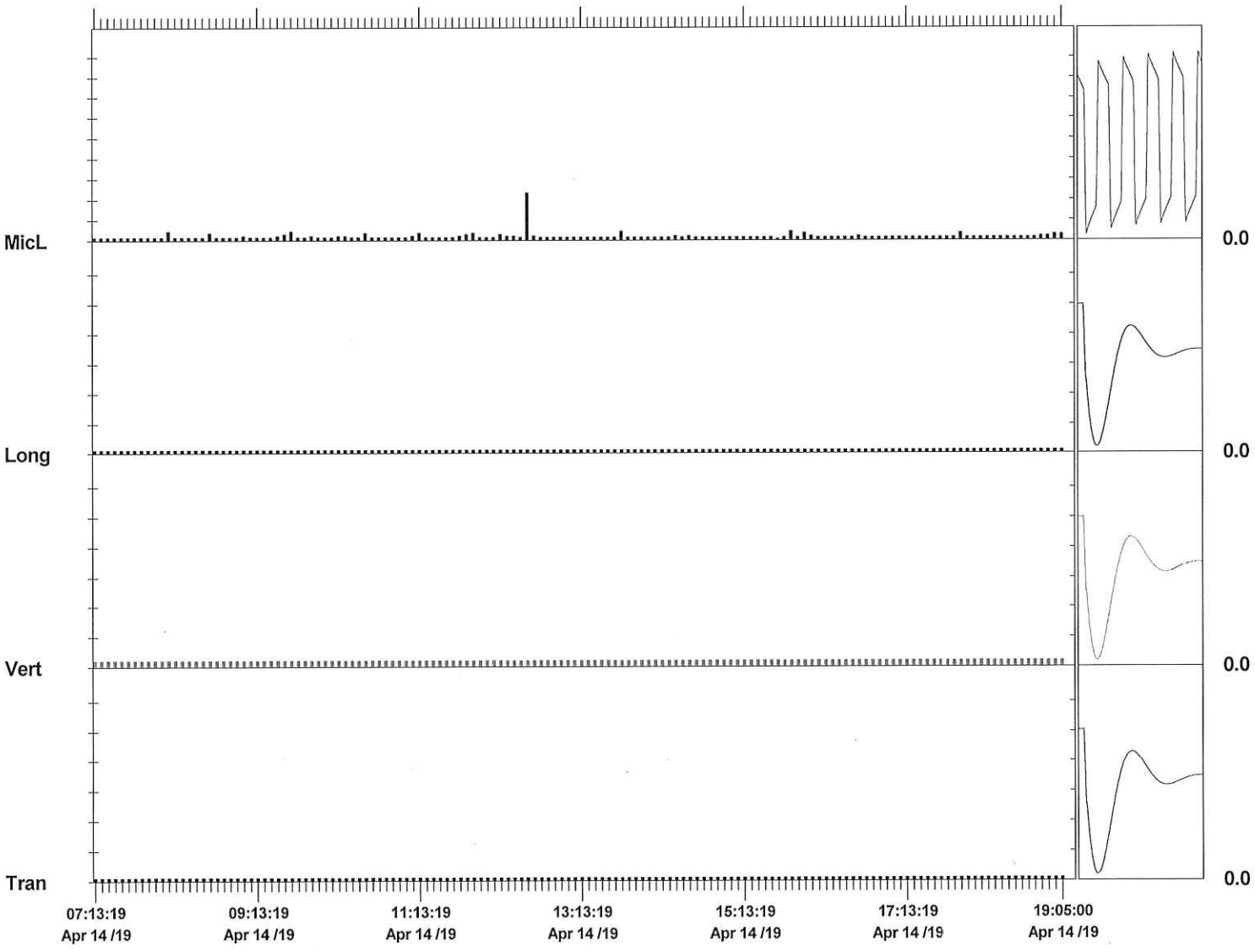
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	112.0 dB(L) on April 14, 2019 at 12:33:19
ZC Freq	5.1 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 562 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 14 /19	Apr 14 /19	Apr 14 /19	
Time	07:09:19	07:10:19	07:09:19	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.5	3.9	

Peak Vector Sum 0.012 in/s on April 14, 2019 at 09:26:19



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.0500 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:08:16 April 14, 2019	**Serial Number**	BE13117 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	07:05:01 April 15, 2019	**Battery Level**	6.8 Volts
Number of Intervals	717.00 at 1 minute	**Unit Calibration**	March 9, 2019 by Instantel
Range	Geo:10.000 in/s	**File Name**	O117HW4I.HS0H
Sample Rate	1024sps		

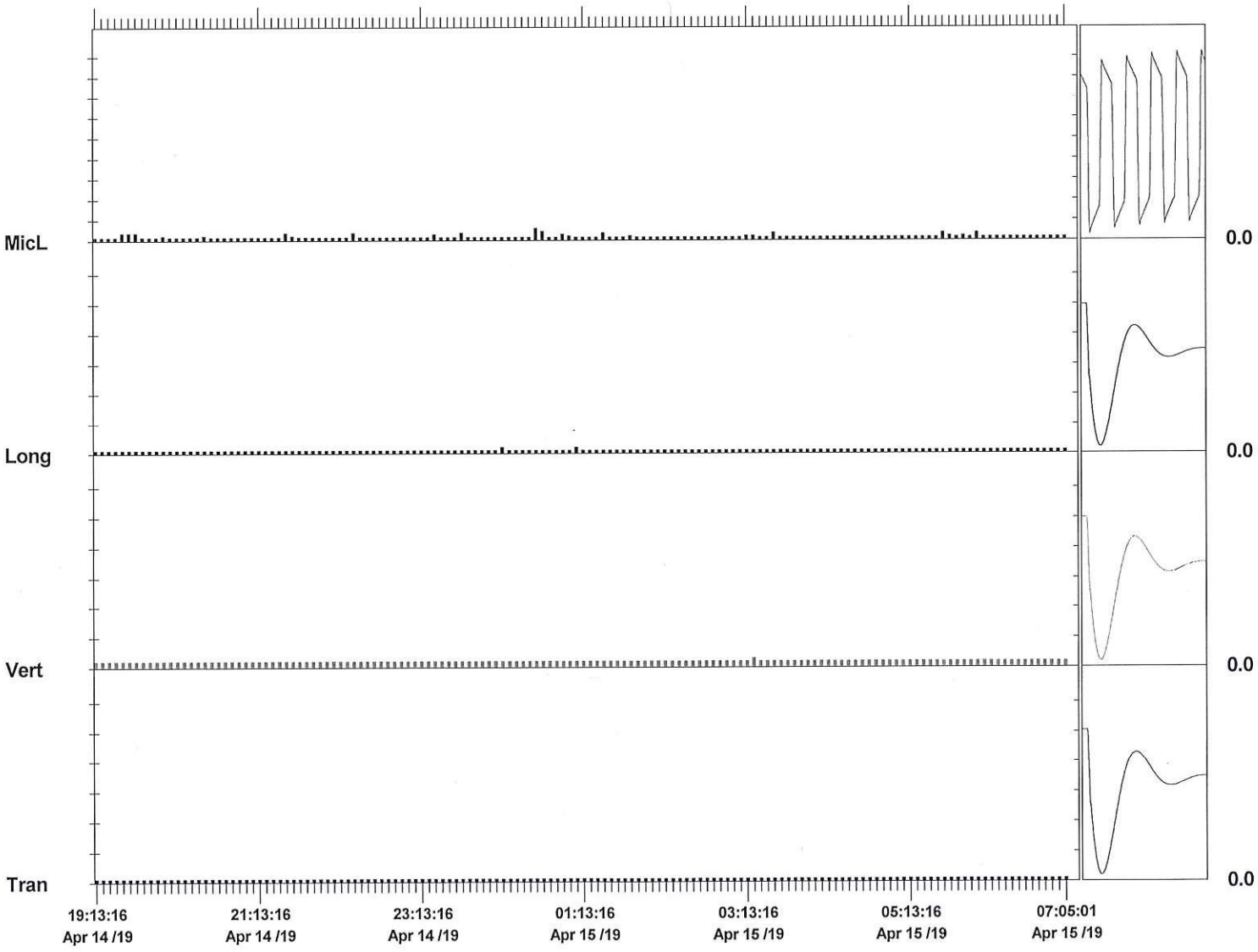
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	100.0 dB(L) on April 15, 2019 at 00:38:16
ZC Freq	2.6 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 567 mv)

	Tran	Vert	Long	
PPV	0.005	0.015	0.010	in/s
ZC Freq	>100	28	>100	Hz
Date	Apr 14 /19	Apr 15 /19	Apr 15 /19	
Time	19:09:16	03:14:16	00:12:16	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.5	3.8	

Peak Vector Sum 0.017 in/s on April 15, 2019 at 03:14:16



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.501 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:10:15 April 15, 2019	**Serial Number**	BE13117 V 10.72-8.17 MiniMate Plus
Histogram Finish Time	19:05:00 April 15, 2019	**Battery Level**	6.8 Volts
Number of Intervals	715.00 at 1 minute	**Unit Calibration**	March 9, 2019 by Instantel
Range	Geo:10.000 in/s	**File Name**	O117HW5F.X30H
Sample Rate	1024sps		

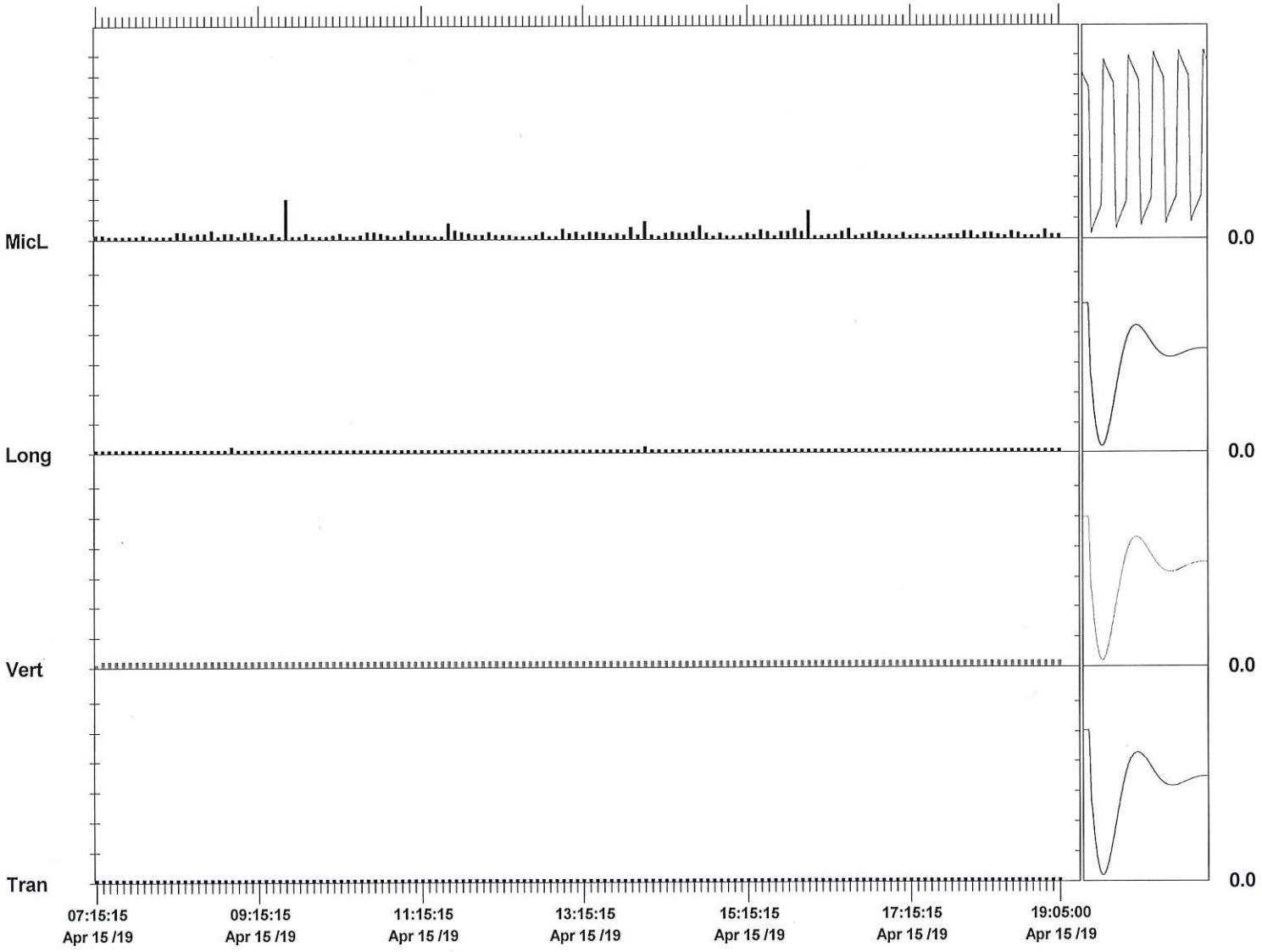
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	110.6 dB(L) on April 15, 2019 at 09:33:15
ZC Freq	4.8 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 583 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 15 /19	Apr 15 /19	Apr 15 /19	
Time	07:11:15	07:18:15	08:53:15	
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.6	7.5	Hz
Overswing Ratio	3.6	3.6	3.8	

Peak Vector Sum 0.012 in/s on April 15, 2019 at 08:04:15



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.501 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:09:20 April 15, 2019
Histogram Finish Time	07:05:01 April 16, 2019
Number of Intervals	716.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HW6D.7K0H

Notes

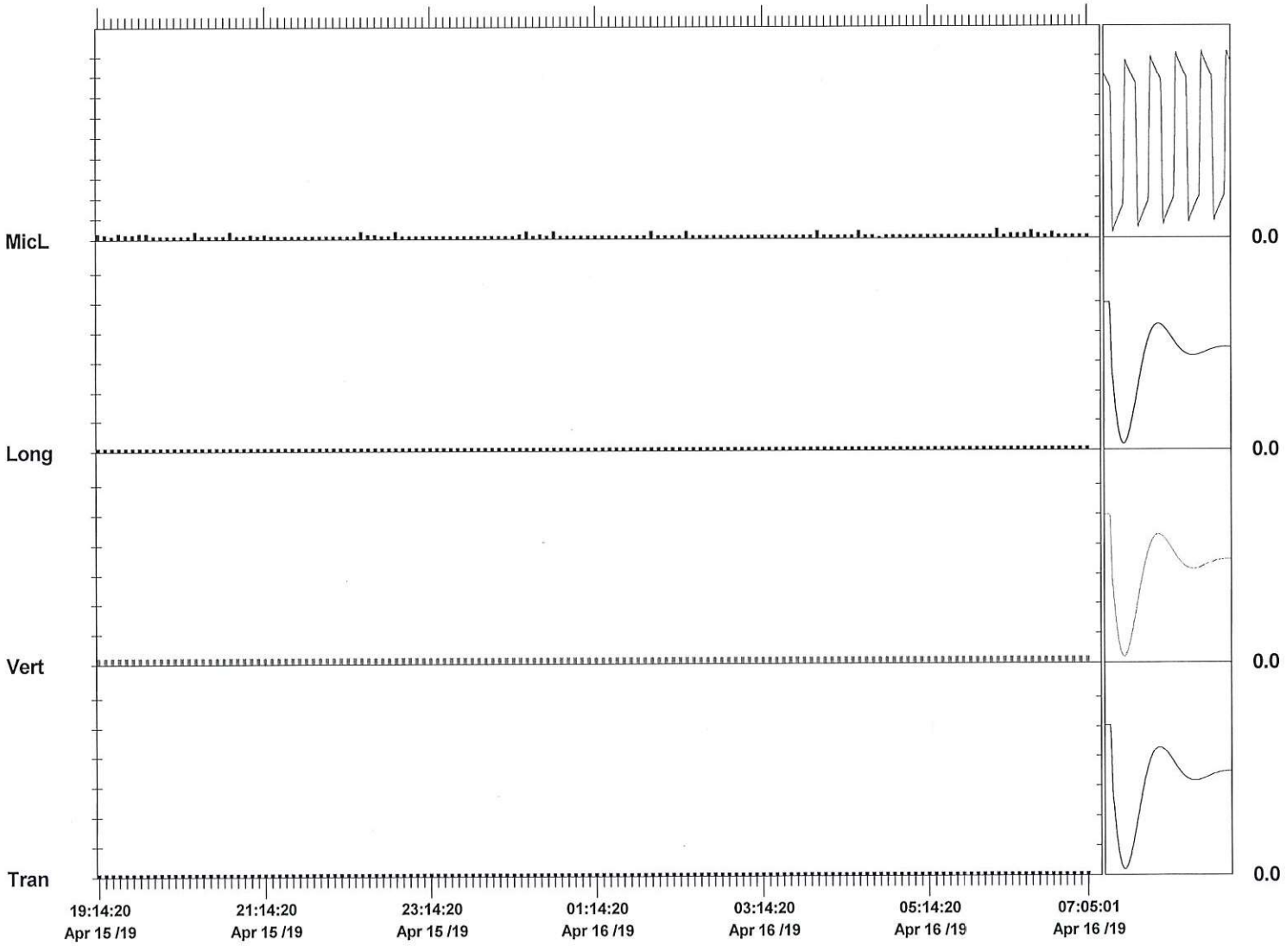
Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	97.5 dB(L) on April 16, 2019 at 06:03:20
ZC Freq	12 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 574 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.005	in/s
ZC Freq	N/A	>100	>100	Hz
Date	Apr 15 /19	Apr 15 /19	Apr 15 /19	
Time	19:10:20	19:11:20	19:10:20	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.6	3.9	

Peak Vector Sum 0.012 in/s on April 15, 2019 at 20:06:20

N/A: Not Applicable



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.5 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Instantel Event Report

Histogram Start Time	07:08:18 April 16, 2019
Histogram Finish Time	19:05:00 April 16, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HW7A.HU0H

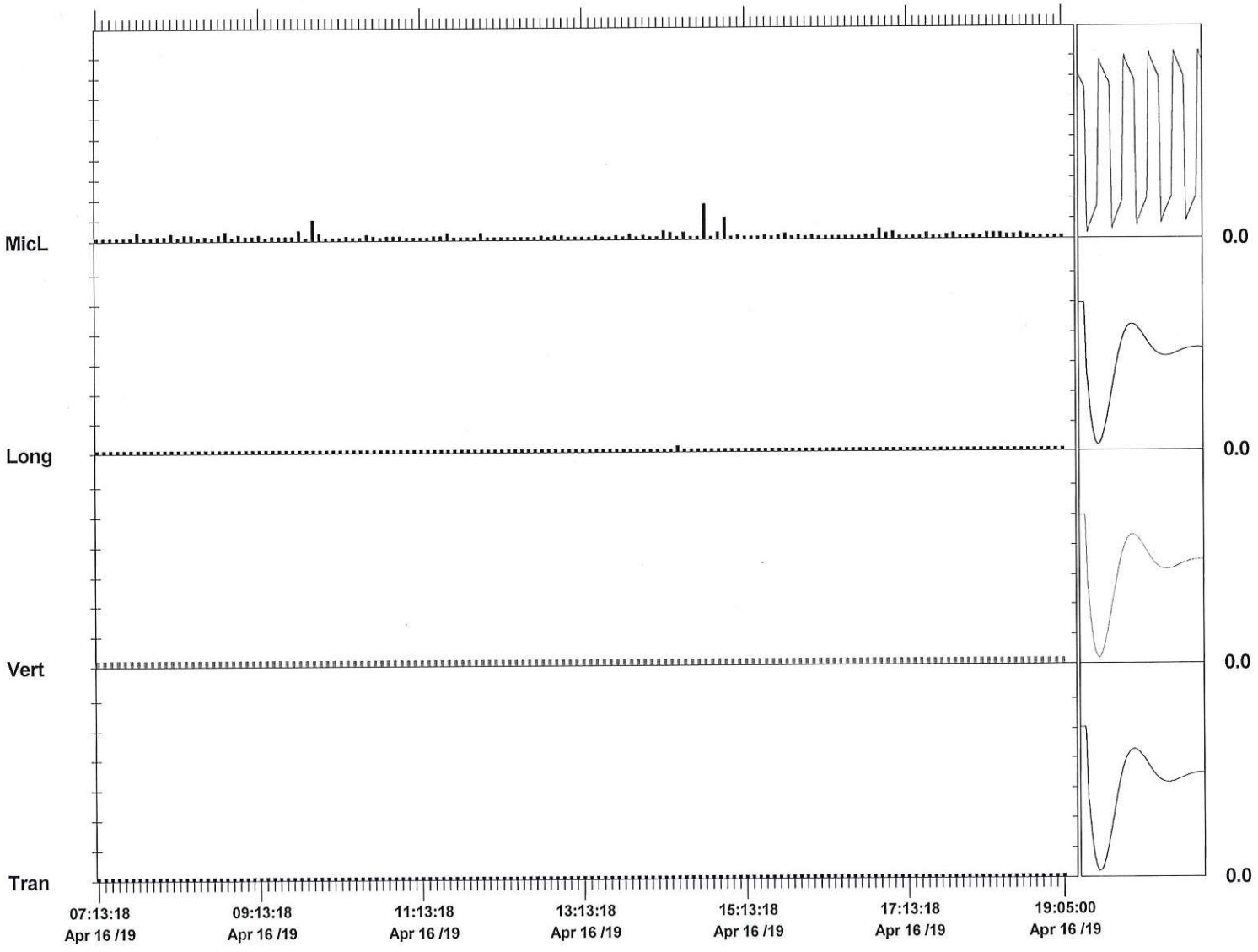
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	109.5 dB(L) on April 16, 2019 at 14:40:18
ZC Freq	4.3 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 598 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 16 /19	Apr 16 /19	Apr 16 /19	
Time	07:09:18	07:09:18	14:20:18	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.6	3.9	

Peak Vector Sum 0.012 in/s on April 16, 2019 at 07:25:18



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:08:17 April 16, 2019
Histogram Finish Time	07:05:01 April 17, 2019
Number of Intervals	717.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HW87.TT0H

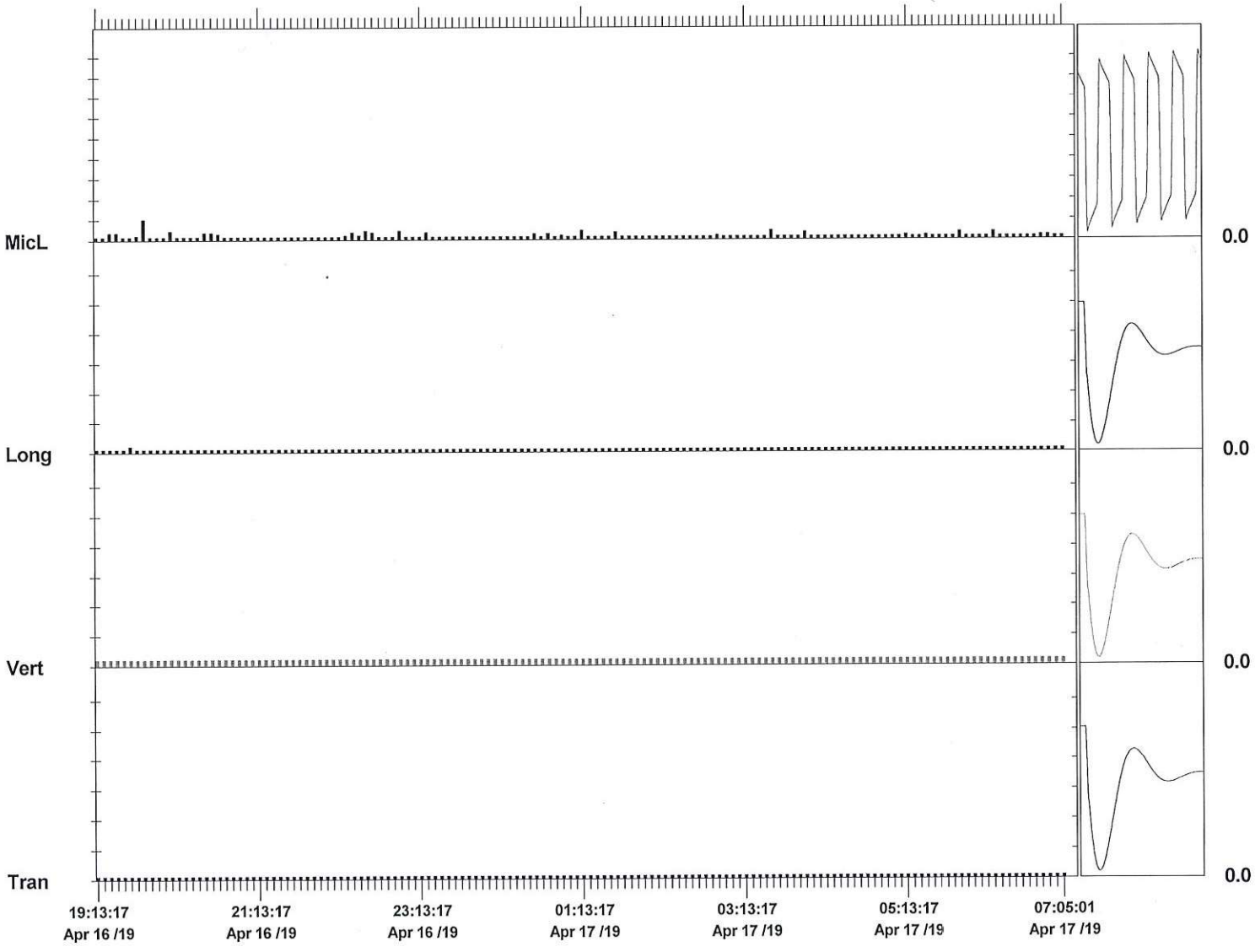
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	104.9 dB(L) on April 16, 2019 at 19:48:17
ZC Freq	3.4 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 582 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 16 /19	Apr 16 /19	Apr 16 /19	
Time	19:09:17	19:09:17	19:36:17	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.5	3.9	

Peak Vector Sum 0.012 in/s on April 16, 2019 at 19:13:17



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	07:08:18 April 17, 2019
Histogram Finish Time	10:19:18 April 17, 2019
Number of Intervals	191.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE13117 V 10.72-8.17 MiniMate Plus
Battery Level	6.8 Volts
Unit Calibration	March 9, 2019 by Instantel
File Name	O117HW95.5U0H

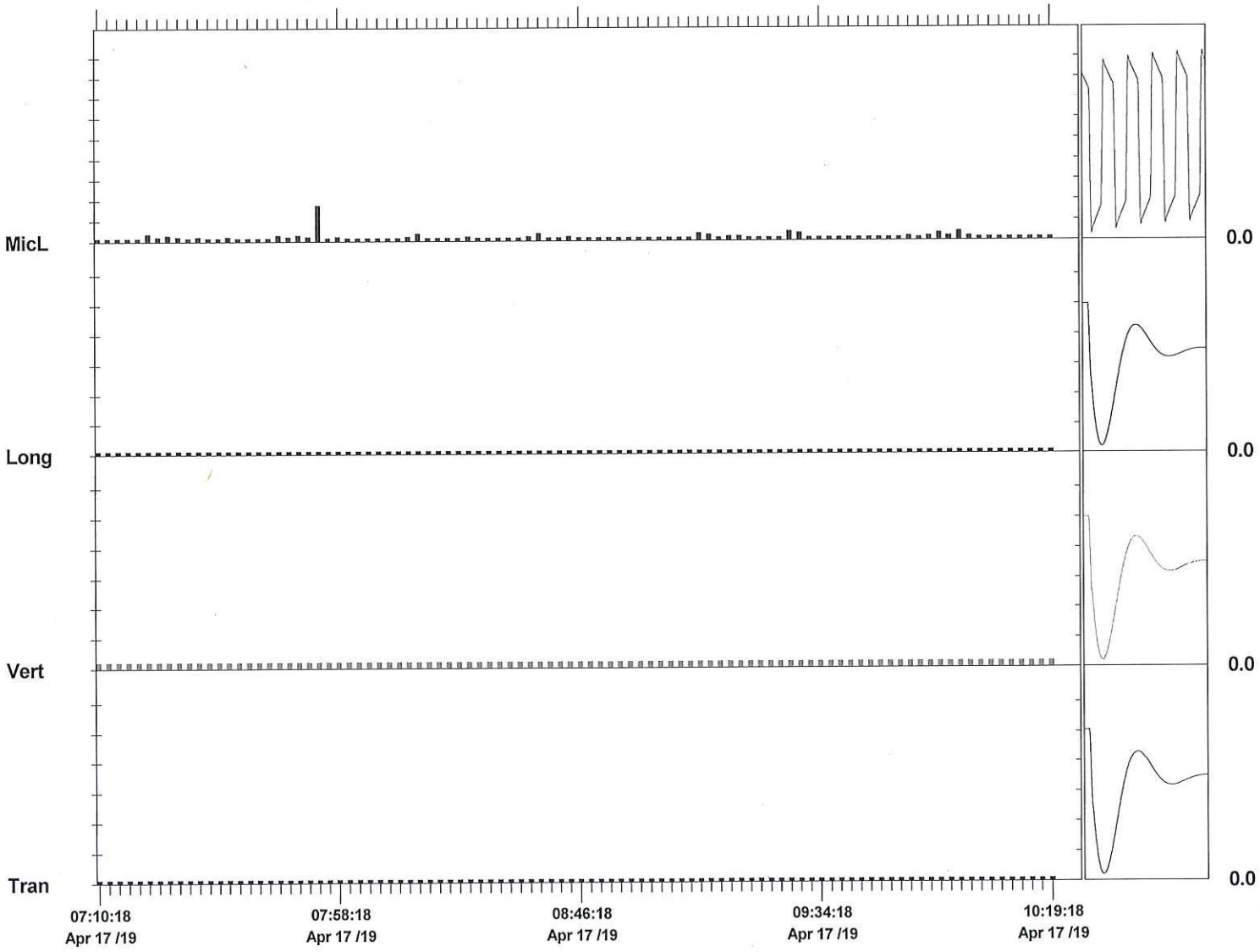
Notes

Project:	Lewisburg Corridor Study - 130 Market
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seismograph Loc:	Loc 2 - 130 Market St

Microphone	Linear Weighting
PSPL	109.5 dB(L) on April 17, 2019 at 07:54:18
ZC Freq	4.5 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 534 mv)

	Tran	Vert	Long	
PPV	0.005	0.010	0.005	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 17 /19	Apr 17 /19	Apr 17 /19	
Time	07:09:18	07:09:18	07:09:18	
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.5	Hz
Overswing Ratio	3.6	3.5	3.9	

Peak Vector Sum 0.012 in/s on April 17, 2019 at 07:15:18



Time Scale: 2 minutes /div **Amplitude Scale:** Geo: 0.030 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	18:31:04 April 10, 2019
Histogram Finish Time	20:24:47 April 10, 2019
Number of Intervals	113.72 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/Traffic Loc5.MMB

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190410183104.IDFH

Notes

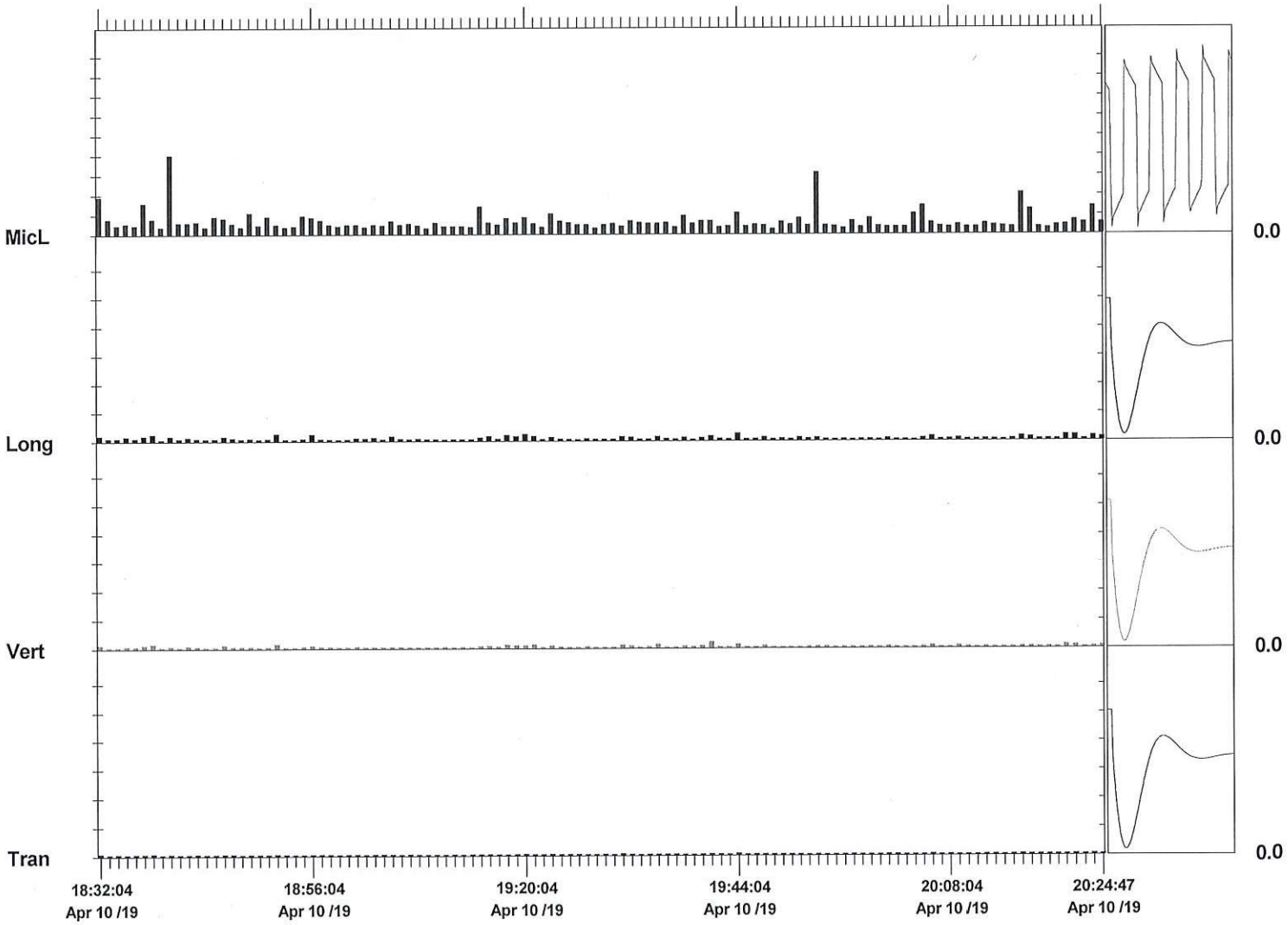
Location	Lewisburg Corridor Study -800 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A- 180 Market Street

Microphone	Linear Weighting
PSPL	96.8 dB(L) on April 10, 2019 at 18:40:04
ZC Freq	47 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1261 mv)

	Tran	Vert	Long	
PPV	0.004	0.011	0.013	in/s
ZC Freq	N/A	19	18	Hz
Date	Apr 10 /19	Apr 10 /19	Apr 10 /19	
Time	18:32:04	19:41:04	19:44:04	
Sensor Check	Passed	Passed	Passed	
Frequency	6.9	7.3	7.1	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.013 in/s on April 10, 2019 at 19:44:04

N/A: Not Applicable



Time Scale: 1 minute /div **Amplitude Scale:** Geo: [illegible] Mic: 0.000 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	20:27:58 April 10, 2019
Histogram Finish Time	16:49:30 April 11, 2019
Number of Intervals	1221.53 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190410202758.IDFH

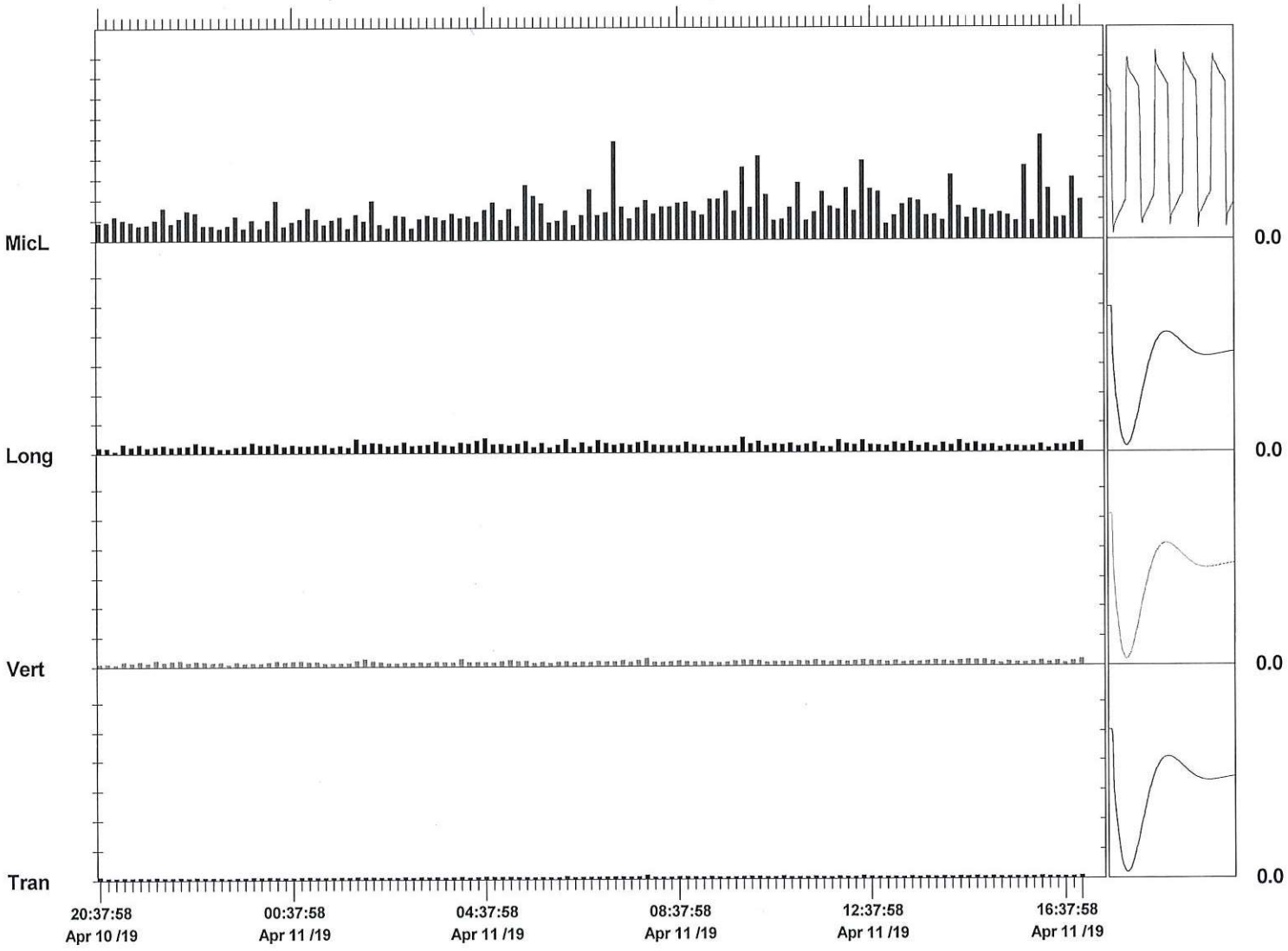
Notes

Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	98.9 dB(L) on April 11, 2019 at 16:06:58
ZC Freq	37 Hz
Channel Test	Passed (Freq = 18.3 Hz Amp = 1257 mv)

	Tran	Vert	Long	
PPV	0.007	0.013	0.025	in/s
ZC Freq	20	20	17	Hz
Date	Apr 11 /19	Apr 11 /19	Apr 11 /19	
Time	07:53:58	07:53:58	09:51:58	
Sensor Check	Passed	Passed	Passed	
Frequency	6.5	6.7	6.5	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.025 in/s on April 11, 2019 at 09:51:58



Time Scale: 10 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.000 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	16:57:33 April 11, 2019
Histogram Finish Time	19:29:59 April 11, 2019
Number of Intervals	152.44 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190411165733.IDFH

Notes

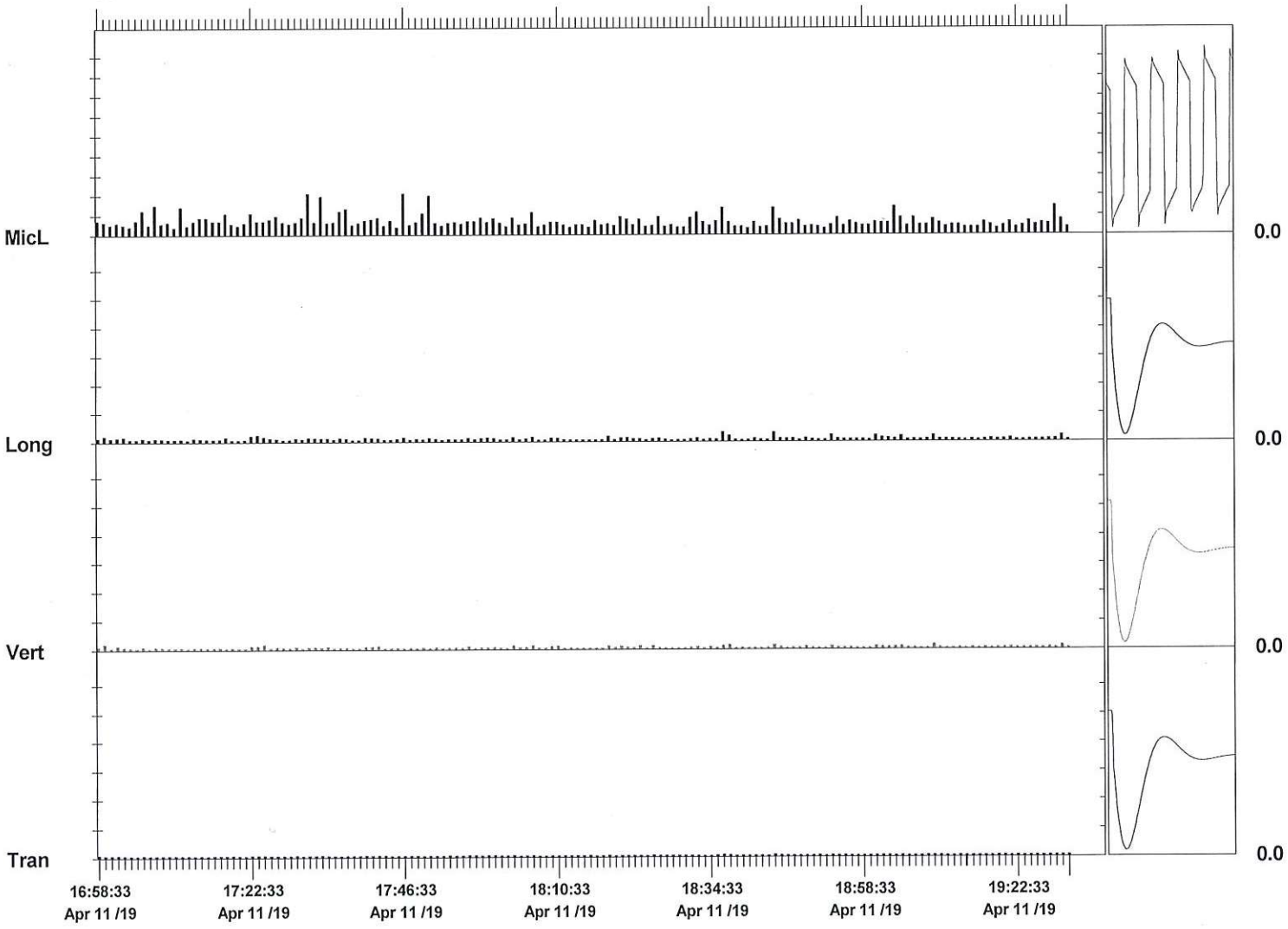
Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	91.0 dB(L) on April 11, 2019 at 17:31:33
ZC Freq	39 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1267 mv)

	Tran	Vert	Long	
PPV	0.004	0.009	0.016	in/s
ZC Freq	N/A	18	20	Hz
Date	Apr 11 /19	Apr 11 /19	Apr 11 /19	
Time	16:58:33	16:59:33	18:36:33	
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.3	7.1	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.016 in/s on April 11, 2019 at 18:36:33

N/A: Not Applicable



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.000 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:36:37 April 11, 2019
Histogram Finish Time	10:39:34 April 12, 2019
Number of Intervals	902.95 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190411193637.IDFH

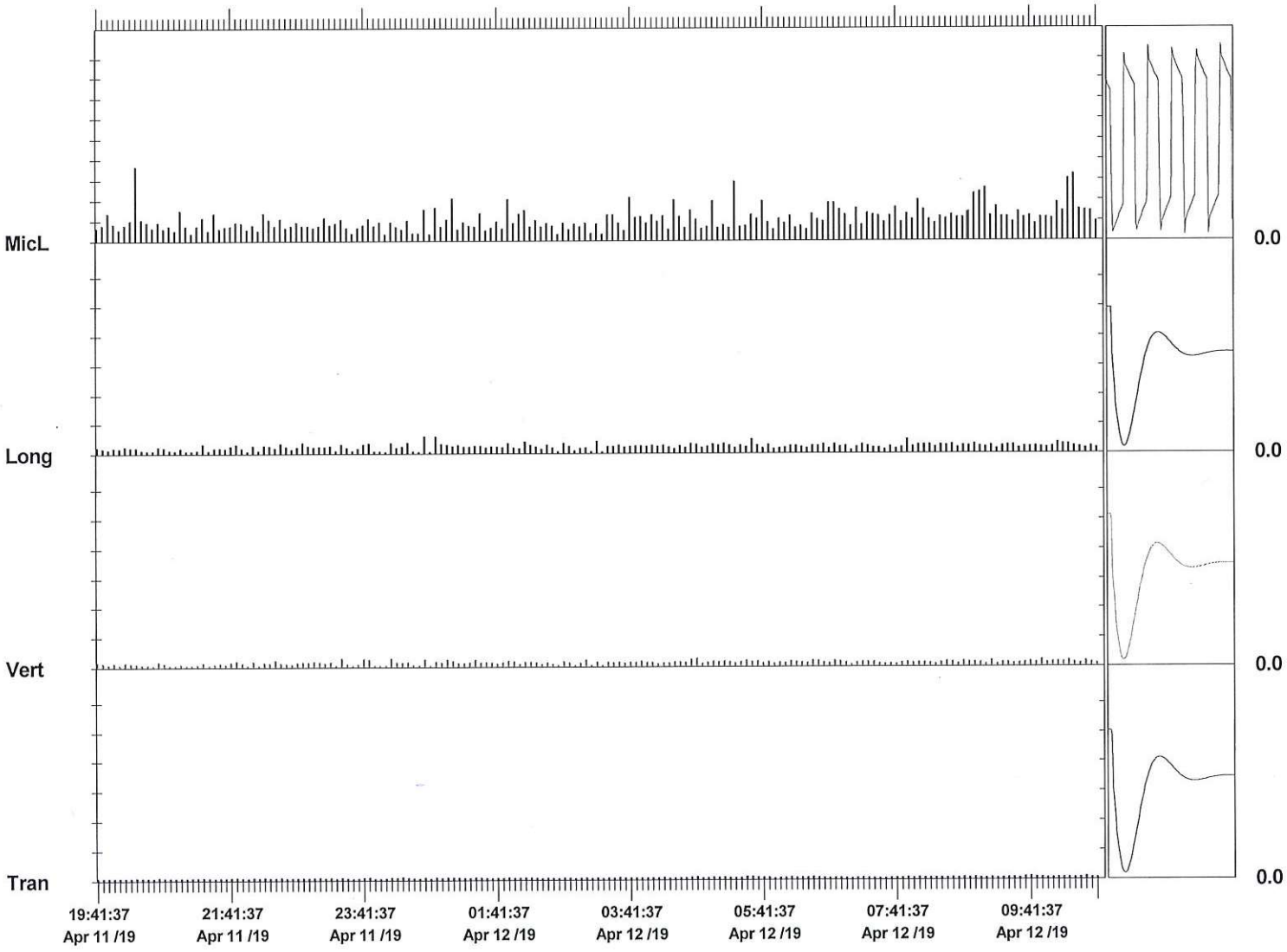
Notes

Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	96.0 dB(L) on April 11, 2019 at 20:13:37
ZC Freq	43 Hz
Channel Test	Passed (Freq = 22.3 Hz Amp = 1218 mv)

	Tran	Vert	Long	
PPV	0.006	0.015	0.029	in/s
ZC Freq	47	18	13	Hz
Date	Apr 12 /19	Apr 11 /19	Apr 12 /19	
Time	09:37:37	23:18:37	00:36:37	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.9	7.7	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.029 in/s on April 12, 2019 at 00:36:37



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.000 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	10:42:14 April 12, 2019
Histogram Finish Time	19:29:59 April 12, 2019
Number of Intervals	527.76 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190412104214.IDFH

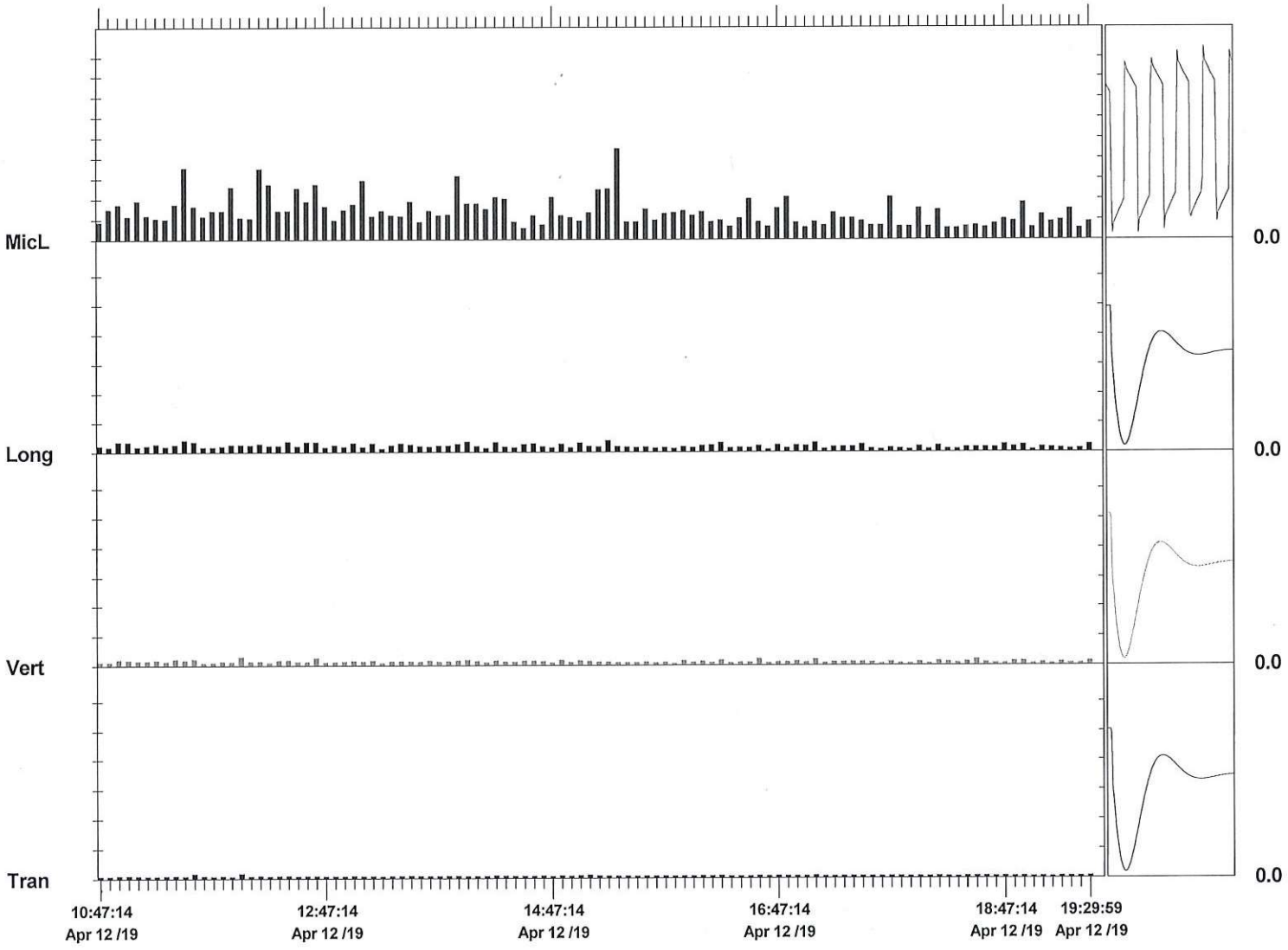
Notes

Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	97.7 dB(L) on April 12, 2019 at 15:19:14
ZC Freq	51 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1277 mv)

	Tran	Vert	Long	
PPV	0.008	0.014	0.020	in/s
ZC Freq	39	32	>100	Hz
Date	Apr 12 /19	Apr 12 /19	Apr 12 /19	
Time	11:58:14	11:58:14	11:32:14	
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.3	7.1	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.020 in/s on April 12, 2019 at 11:32:14



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 10.000 in/s Mic: 0.000 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:35:09 April 12, 2019
Histogram Finish Time	14:56:42 April 13, 2019
Number of Intervals	1161.54 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190412193509.IDFH

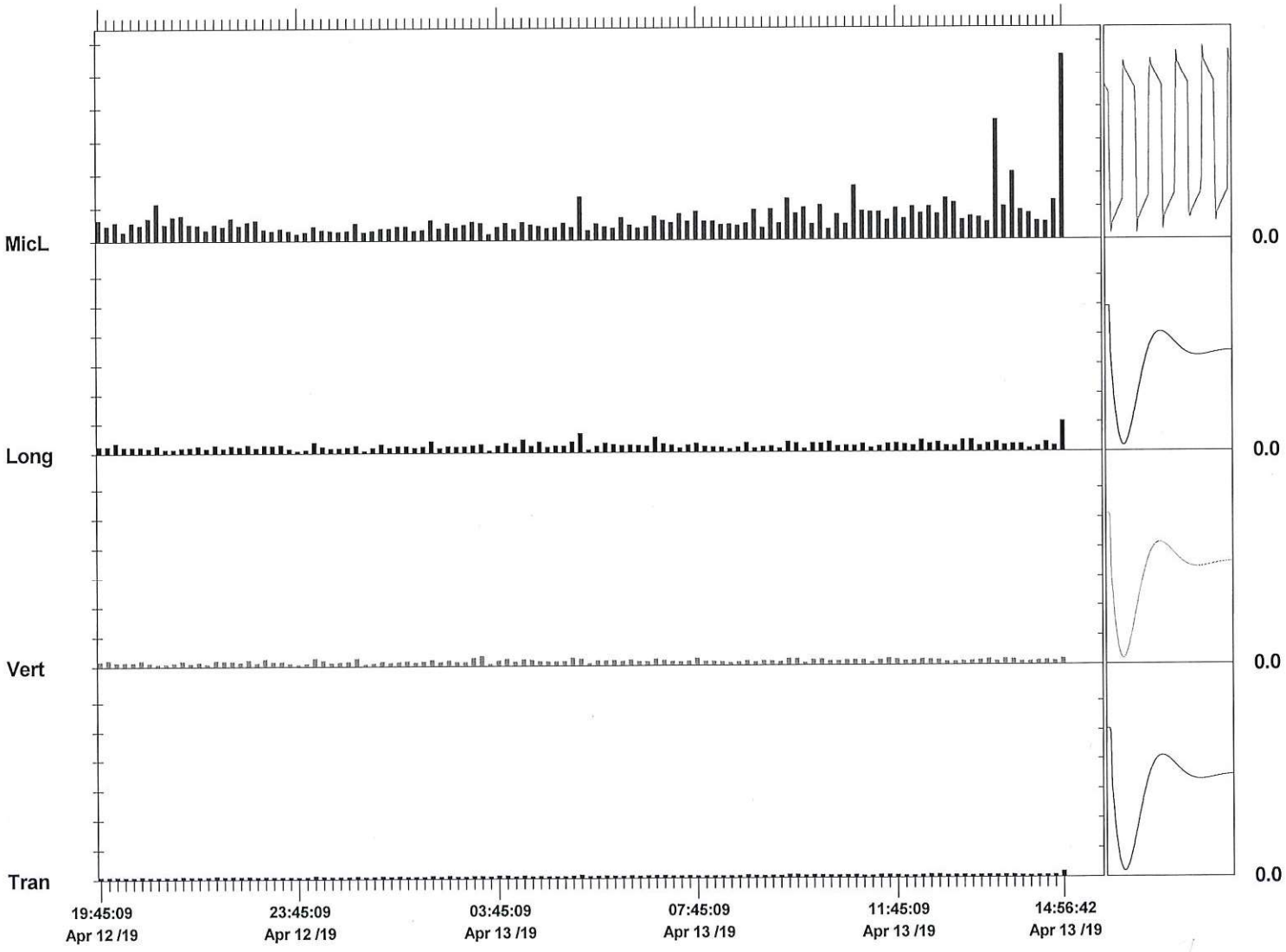
Notes

Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	105.7 dB(L) on April 13, 2019 at 14:56:42
ZC Freq	15 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1276 mv)

	Tran	Vert	Long	
PPV	0.010	0.016	0.050	in/s
ZC Freq	30	20	14	Hz
Date	Apr 13 /19	Apr 13 /19	Apr 13 /19	
Time	14:56:42	03:20:09	14:56:42	
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.3	7.1	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.051 in/s on April 13, 2019 at 14:56:42



Time Scale: 10 minutes /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.000 psi(L)/div Sensor Check

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Event Report

Date/Time	Long at 14:56:40 April 13, 2019
Trigger Source	Geo: 0.040 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190413145640.IDFW

Notes

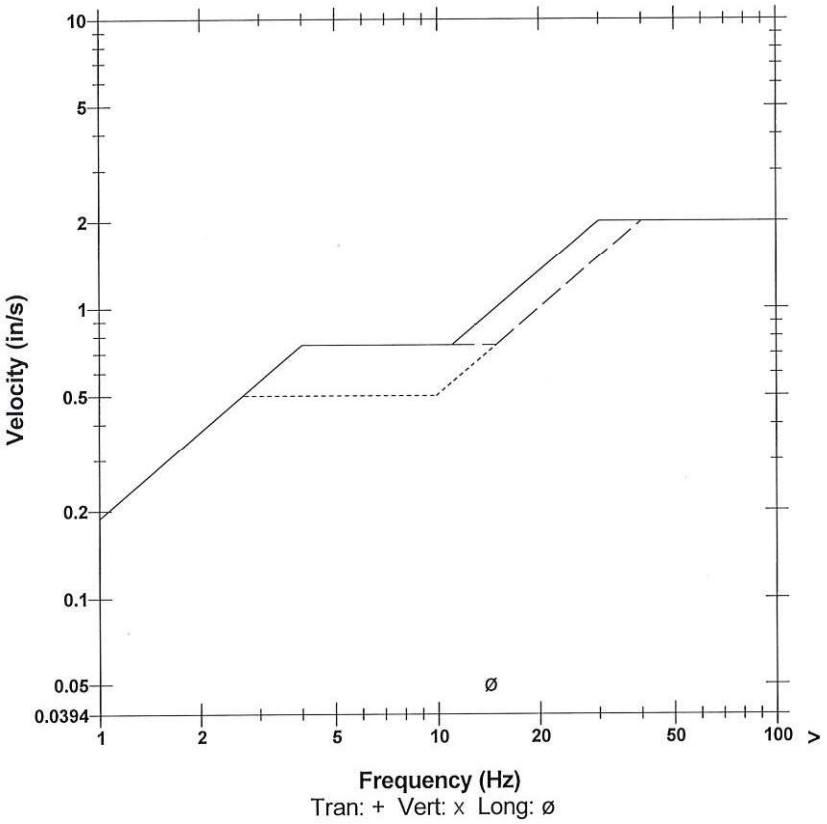
Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	105.7 dB(L) at 0.037 sec
ZC Freq	15 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1276 mv)

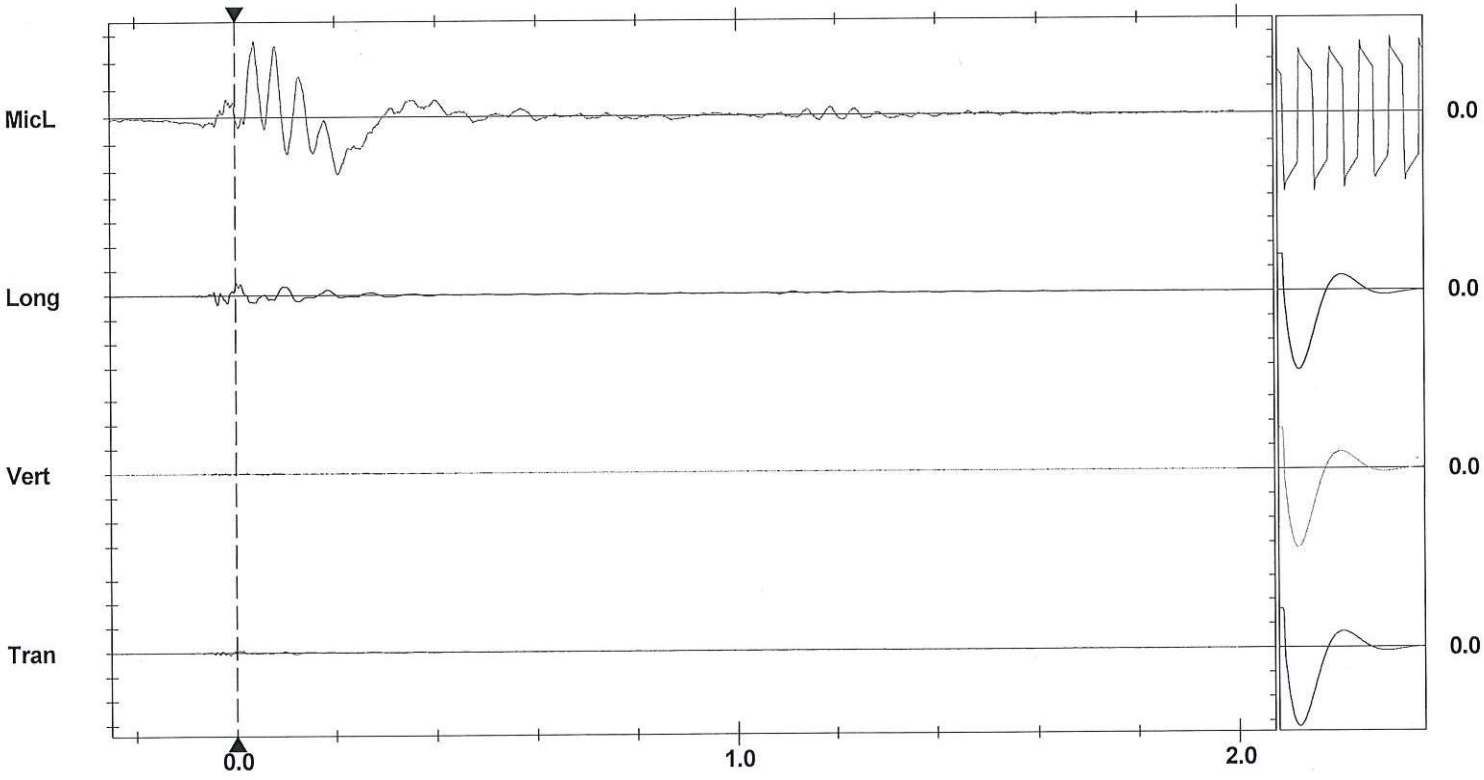
	Tran	Vert	Long	
PPV	0.010	0.009	0.050	in/s
ZC Freq	30	57	14	Hz
Time (Rel. to Trig)	-0.013	-0.016	0.002	sec
Peak Acceleration	0.014	0.012	0.038	g
Peak Displacement	0.000	0.000	0.000	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.3	7.1	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.051 in/s at 0.002 sec

USBM RI8507 And OSMRE



Frequency (Hz)
Tran: + Vert: x Long: ø



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.000 psi(L)/div
Trigger = ▶——————◀

Sensor Check

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Instantel

Event Report

Date/Time	Long at 12:33:00 April 14, 2019
Trigger Source	Geo: 0.040 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190414123300.IDFW

Notes

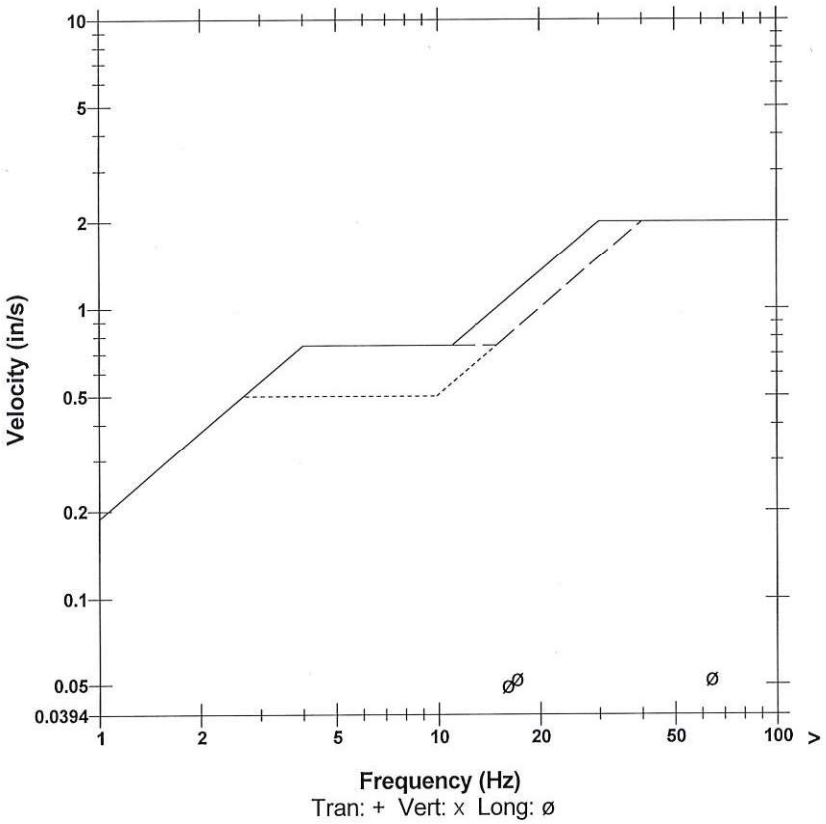
Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

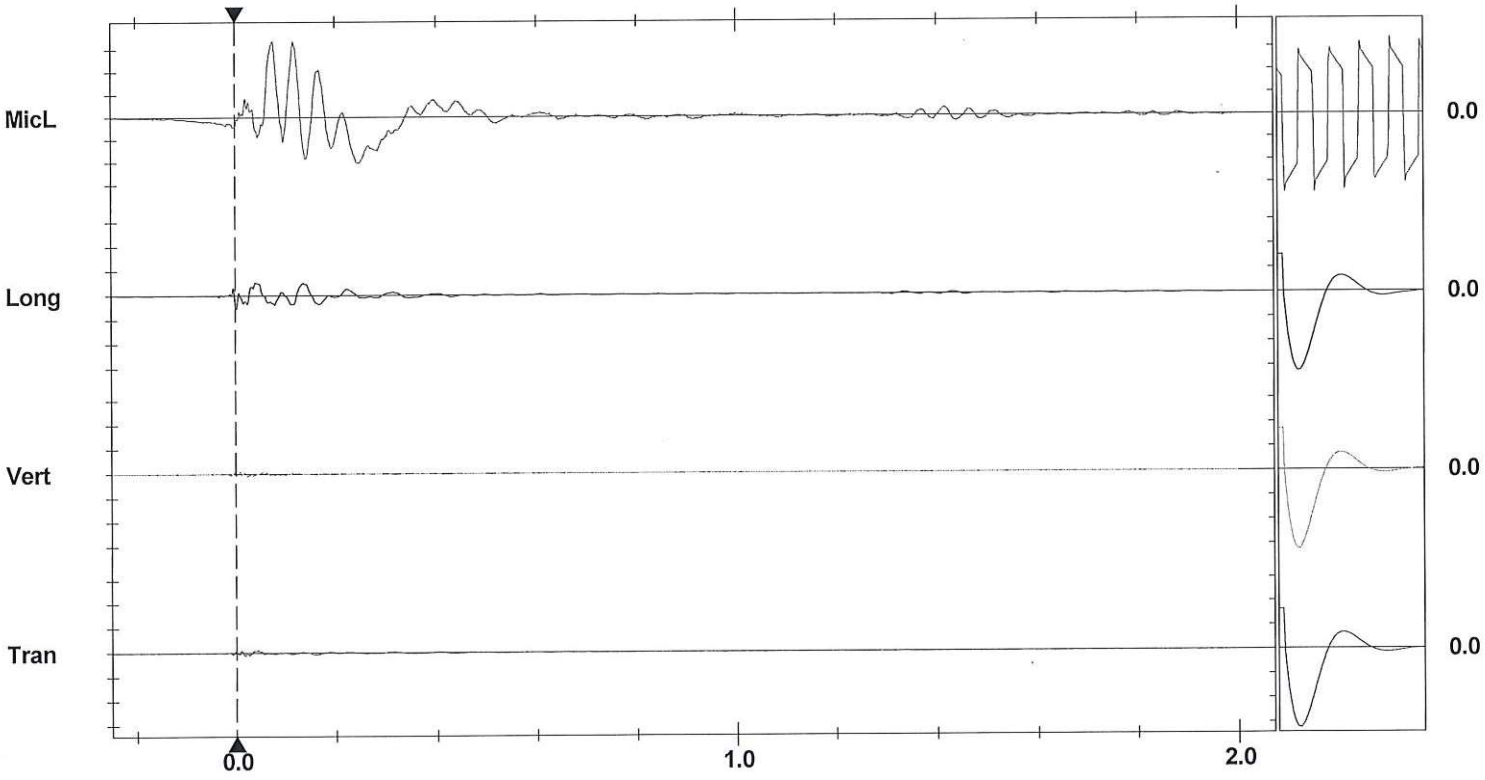
Microphone	Linear Weighting
PSPL	107.3 dB(L) at 0.076 sec
ZC Freq	17 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1262 mv)

	Tran	Vert	Long	
PPV	0.011	0.009	0.052	in/s
ZC Freq	28	57	64	Hz
Time (Rel. to Trig)	0.016	0.023	0.001	sec
Peak Acceleration	0.014	0.016	0.067	g
Peak Displacement	0.000	0.000	0.001	in
Sensor Check	Passed	Passed	Passed	
Frequency	6.9	7.3	7.1	Hz
Overswing Ratio	5.0	4.7	5.2	

Peak Vector Sum 0.053 in/s at 0.040 sec

USBM RI8507 And OSMRE





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.000 psi(L)/div

Trigger = ▶——————◀

Sensor Check

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Event Report

Histogram Start Time	12:38:12 April 14, 2019
Histogram Finish Time	09:33:05 April 15, 2019
Number of Intervals	1254.89 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190414123812.IDFH

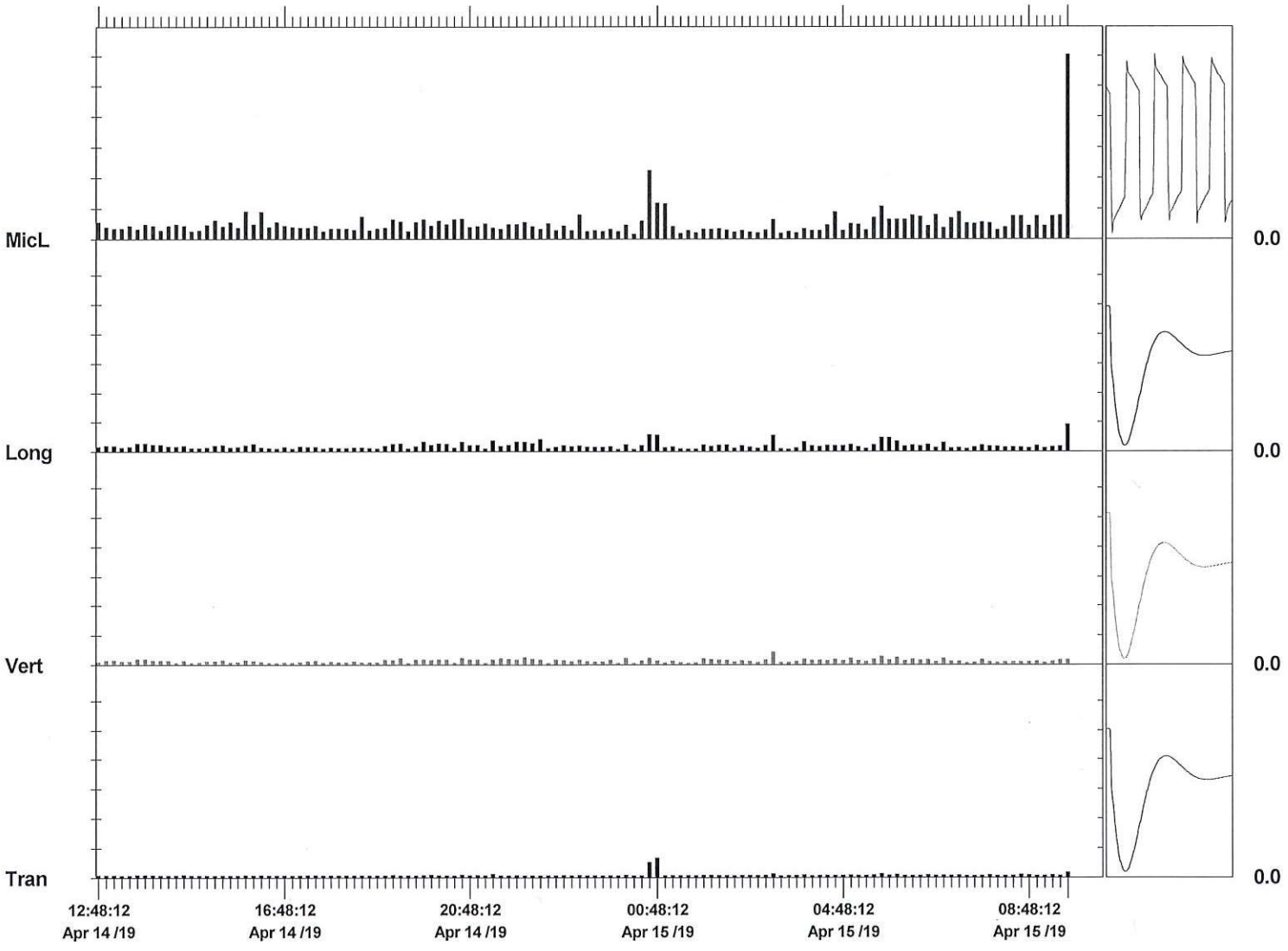
Notes

Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	106.4 dB(L) on April 15, 2019 at 09:33:05
ZC Freq	16 Hz
Channel Test	Passed (Freq = 18.3 Hz Amp = 1286 mv)

	Tran	Vert	Long	
PPV	0.033	0.021	0.045	in/s
ZC Freq	3.0	18	16	Hz
Date	Apr 15 /19	Apr 15 /19	Apr 15 /19	
Time	00:40:12	03:14:12	09:33:05	
Sensor Check	Passed	Passed	Passed	
Frequency	6.5	6.7	6.5	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.045 in/s on April 15, 2019 at 09:33:05



Time Scale: 10 minutes /div **Amplitude Scale:** Geo: 0.524 in/s Mic: 0.000 psi(L)/div Sensor Check

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Event Report

Date/Time	Long at 09:33:03 April 15, 2019
Trigger Source	Geo: 0.040 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190415093303.IDFW

Notes

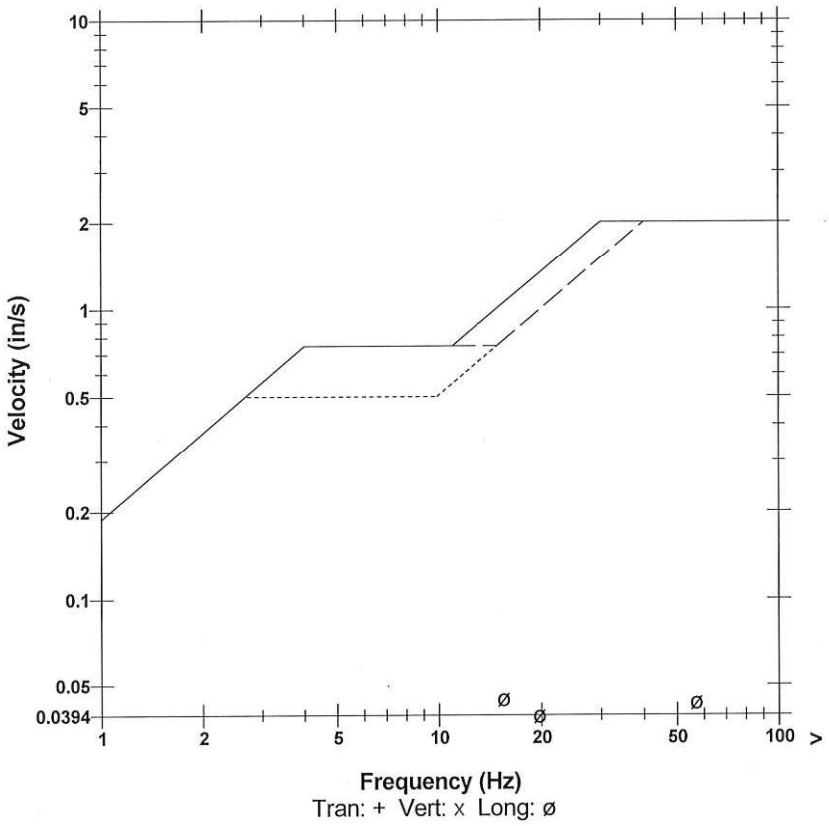
Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

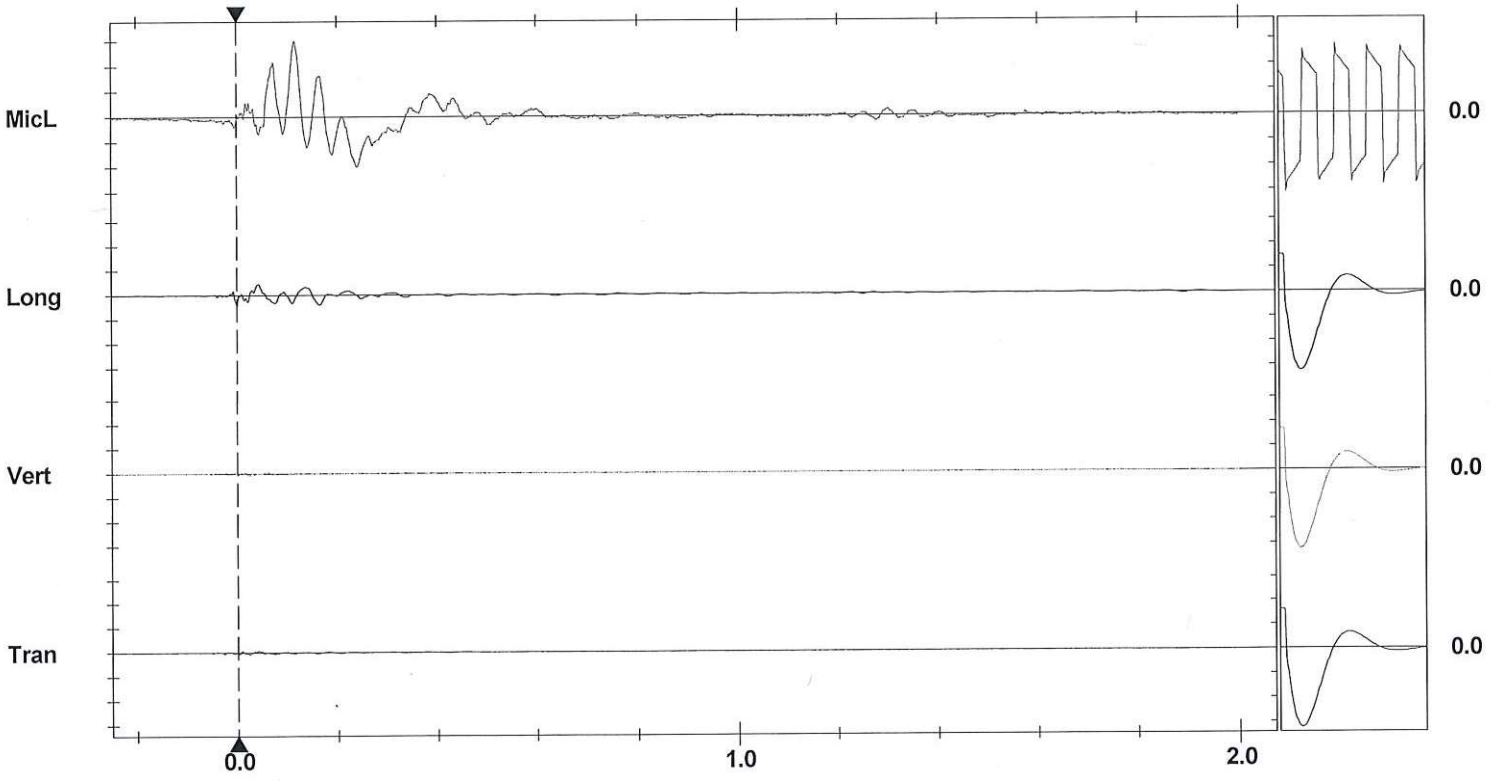
Microphone	Linear Weighting
PSPL	106.4 dB(L) at 0.115 sec
ZC Freq	16 Hz
Channel Test	Passed (Freq = 18.3 Hz Amp = 1286 mv)

	Tran	Vert	Long	
PPV	0.008	0.008	0.045	in/s
ZC Freq	30	51	16	Hz
Time (Rel. to Trig)	0.022	0.021	0.042	sec
Peak Acceleration	0.012	0.012	0.049	g
Peak Displacement	0.000	0.000	0.000	in
Sensor Check	Passed	Passed	Passed	
Frequency	6.5	6.7	6.5	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.045 in/s at 0.042 sec

USBM RI8507 And OSMRE





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.000 psi(L)/div

Trigger = ▶——————◀

Sensor Check

Printed: May 30, 2019 (V 10.74)

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Instantel

Event Report

Histogram Start Time	09:38:09 April 15, 2019
Histogram Finish Time	13:02:54 April 16, 2019
Number of Intervals	1644.74 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190415093809.IDFH

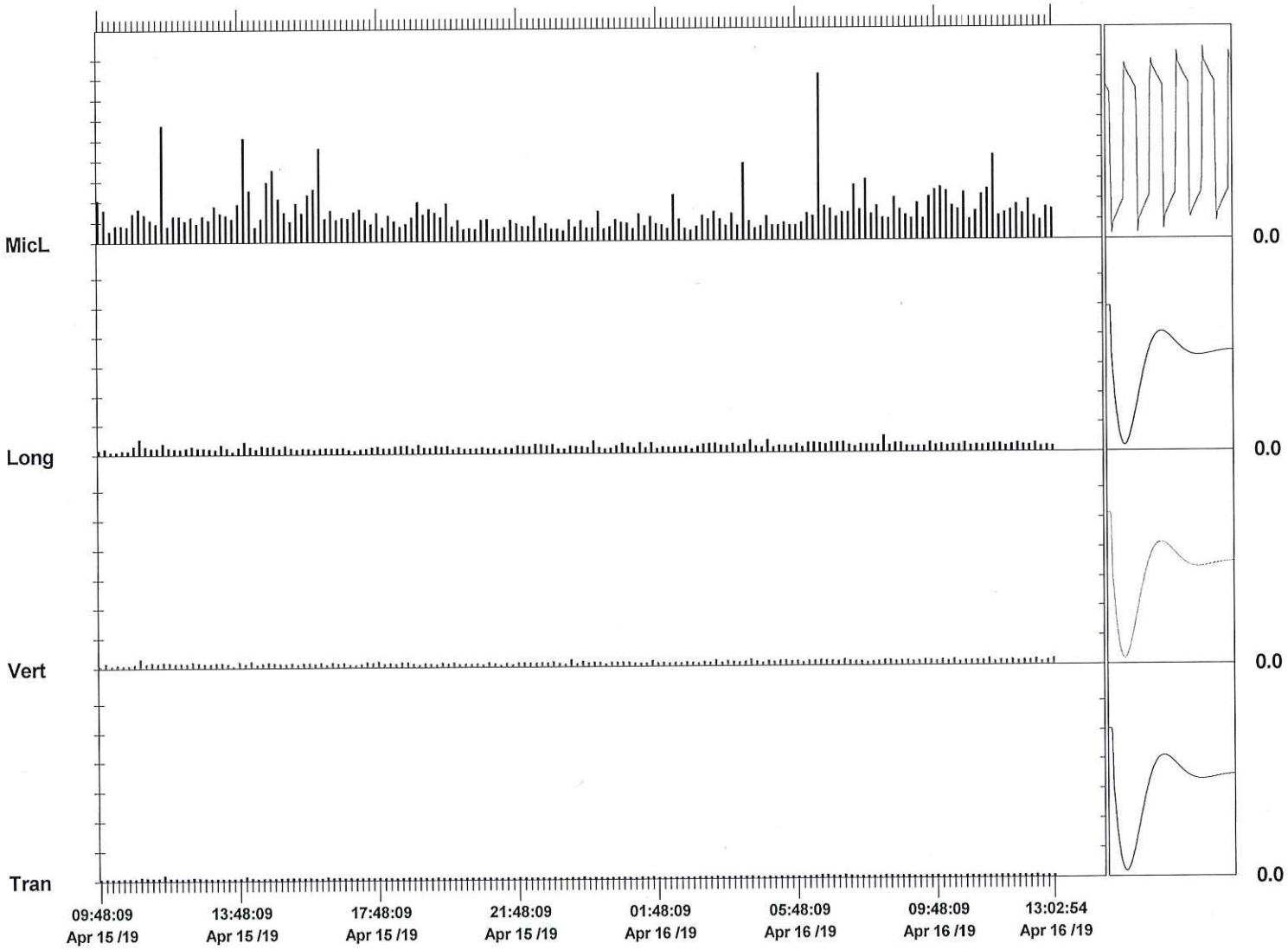
Notes

Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	103.0 dB(L) on April 16, 2019 at 06:19:09
ZC Freq	47 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1278 mv)

	Tran	Vert	Long	
PPV	0.009	0.015	0.027	in/s
ZC Freq	32	21	15	Hz
Date	Apr 15 /19	Apr 15 /19	Apr 16 /19	
Time	11:34:09	10:58:09	08:09:09	
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.5	7.1	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.028 in/s on April 16, 2019 at 08:09:09



Time Scale: 10 minutes /div **Amplitude Scale:** Geo: 0.020 in/s/div Mic: 0.000 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	13:07:13 April 16, 2019
Histogram Finish Time	13:08:44 April 16, 2019
Number of Intervals	1.52 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190416130713.IDFH

Notes

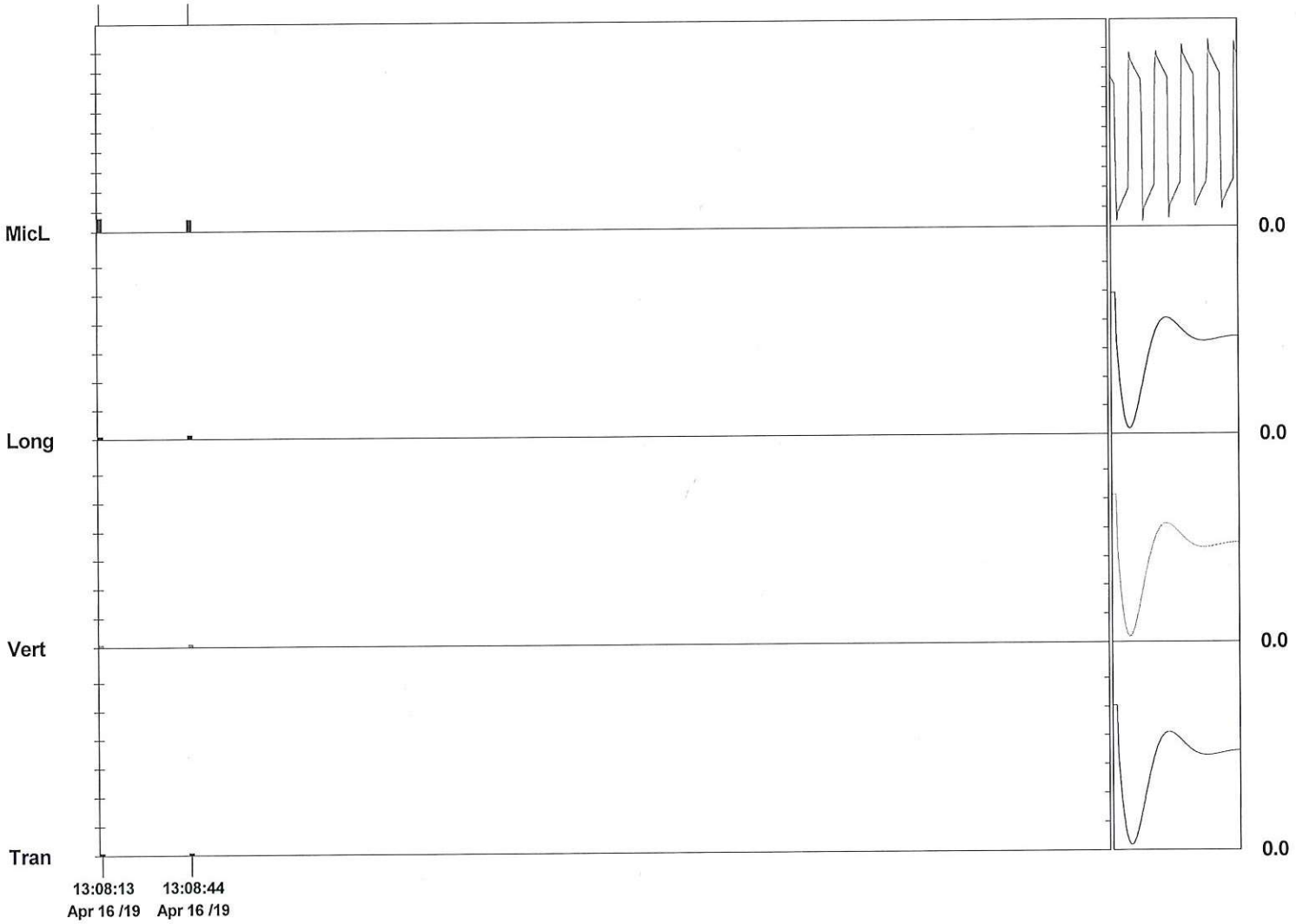
Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	<88 dB(L) on April 16, 2019 at 13:08:13
ZC Freq	39 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1269 mv)

	Tran	Vert	Long	
PPV	0.003	0.004	0.007	in/s
ZC Freq	12	18	22	Hz
Date	Apr 16 /19	Apr 16 /19	Apr 16 /19	
Time	13:08:13	13:08:44	13:08:44	
Sensor Check	Passed	Passed	Passed	
Frequency	6.9	7.3	7.1	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.007 in/s on April 16, 2019 at 13:08:44

N/A: Not Applicable



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.05 in/s Mic: 0.000 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	13:25:26 April 16, 2019
Histogram Finish Time	13:29:58 April 16, 2019
Number of Intervals	4.55 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190416132526.IDFH

Notes

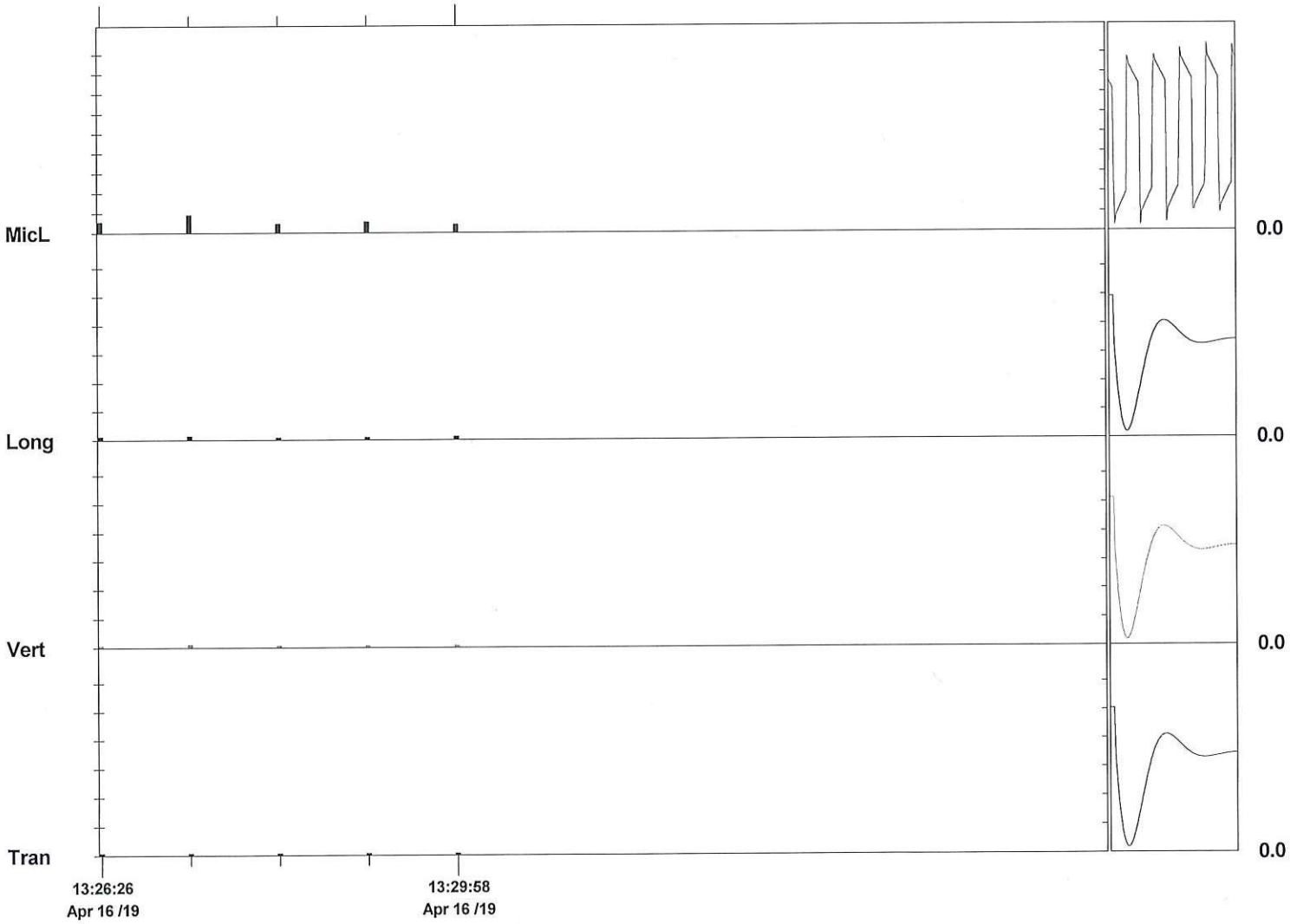
Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	<88 dB(L) on April 16, 2019 at 13:27:26
ZC Freq	34 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1269 mv)

	Tran	Vert	Long	
PPV	0.003	0.005	0.006	in/s
ZC Freq	N/A	18	13	Hz
Date	Apr 16 /19	Apr 16 /19	Apr 16 /19	
Time	13:26:26	13:27:26	13:27:26	
Sensor Check	Passed	Passed	Passed	
Frequency	6.9	7.3	7.1	Hz
Overswing Ratio	5.0	4.7	5.2	

Peak Vector Sum 0.007 in/s on April 16, 2019 at 13:27:26

N/A: Not Applicable



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.0625 in/s Mic: 0.000 psi(L)/div Sensor Check

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Instantel Event Report

Histogram Start Time	13:36:16 April 16, 2019
Histogram Finish Time	19:29:59 April 16, 2019
Number of Intervals	353.72 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190416133616.IDFH

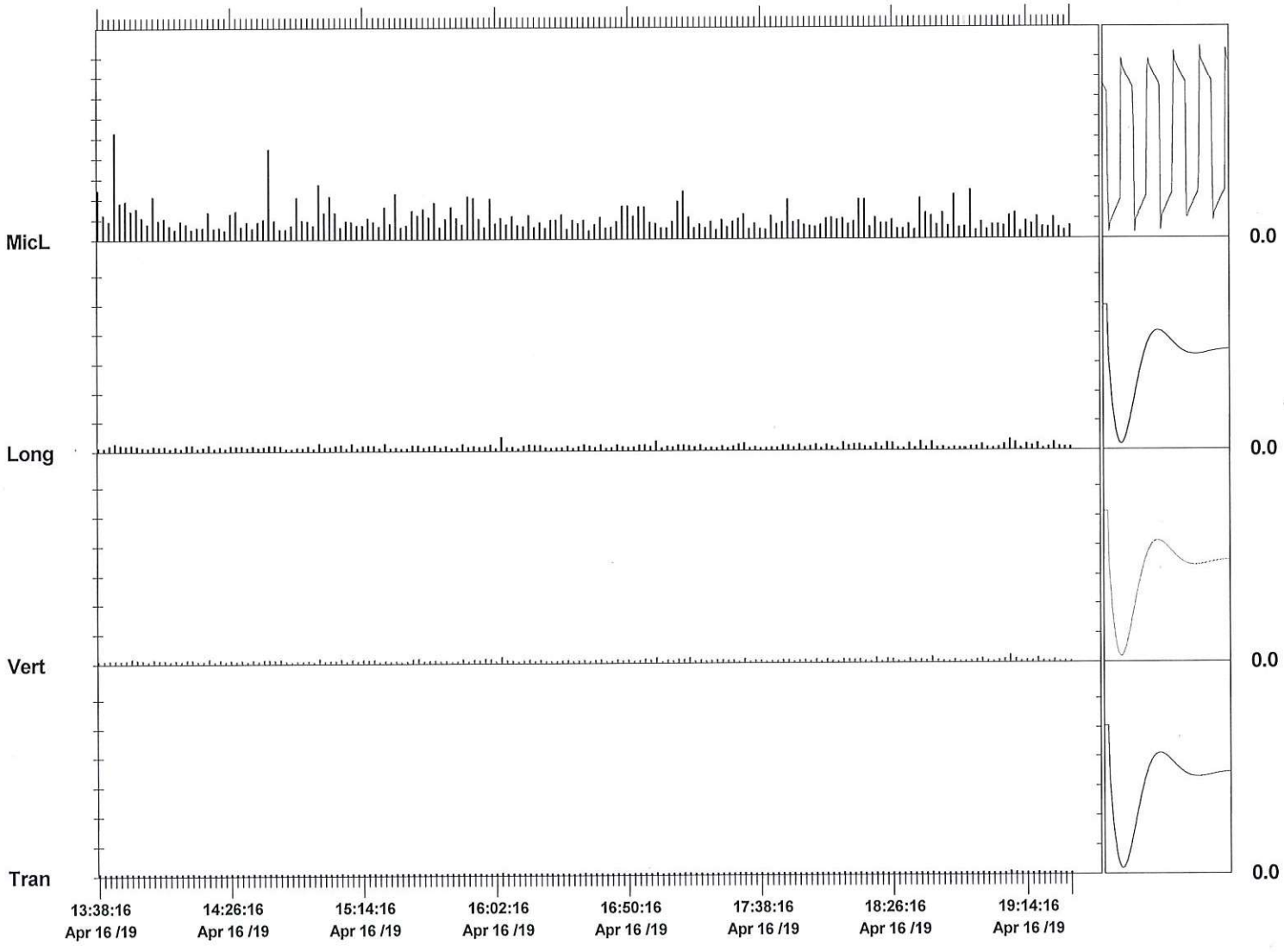
Notes

Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	99.2 dB(L) on April 16, 2019 at 13:44:16
ZC Freq	43 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1264 mv)

	Tran	Vert	Long	
PPV	0.006	0.013	0.023	in/s
ZC Freq	20	20	20	Hz
Date	Apr 16 /19	Apr 16 /19	Apr 16 /19	
Time	19:07:16	19:07:16	16:03:16	
Sensor Check	Passed	Passed	Passed	
Frequency	6.9	7.3	7.1	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.023 in/s on April 16, 2019 at 16:03:16



Time Scale: 2 minutes /div **Amplitude Scale:** Geo: 0.529 in/s Mic: 0.000 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	19:32:39 April 16, 2019
Histogram Finish Time	07:54:05 April 17, 2019
Number of Intervals	741.43 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190416193239.IDFH

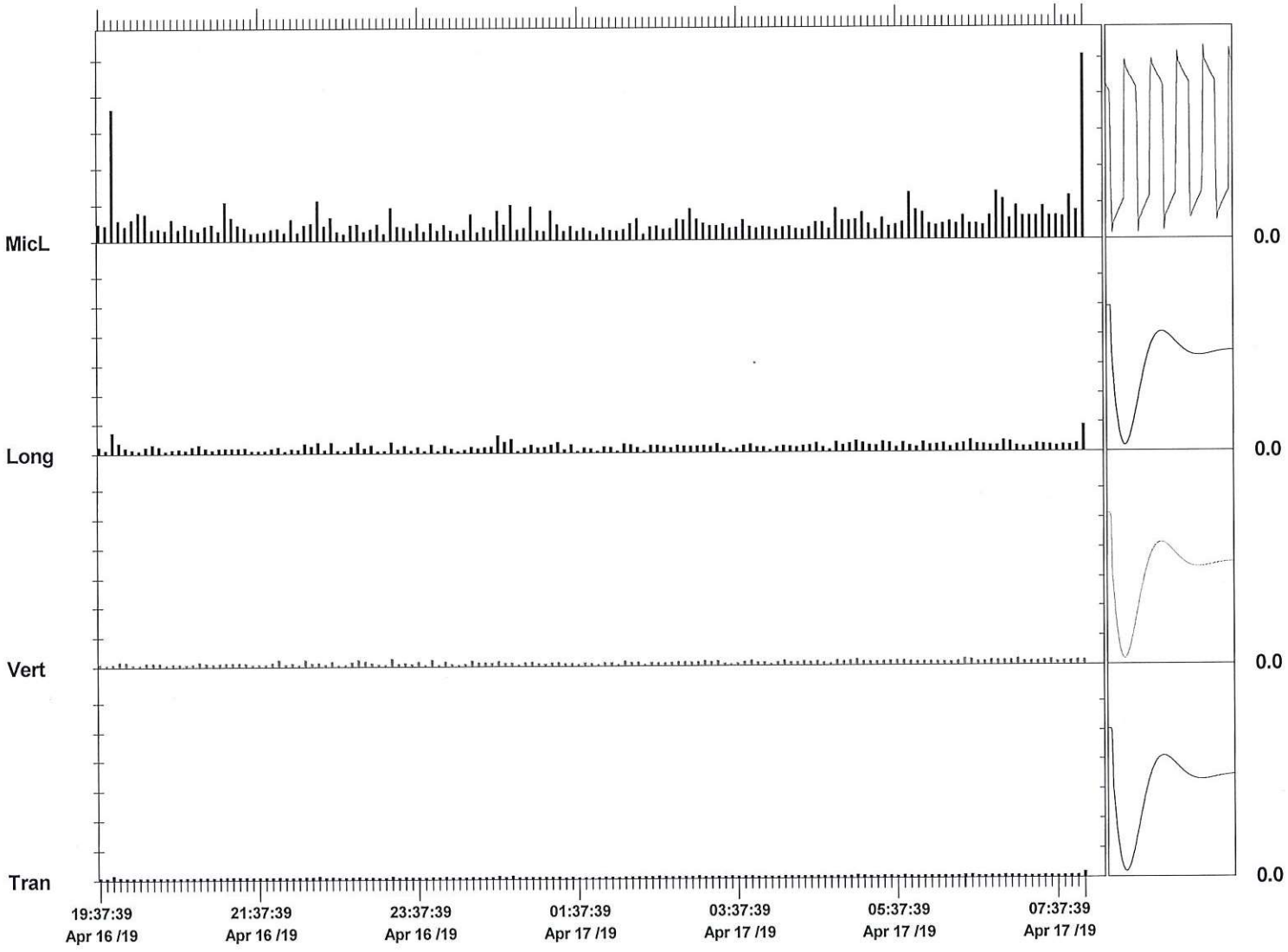
Notes

Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	104.9 dB(L) on April 17, 2019 at 07:54:05
ZC Freq	13 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1275 mv)

	Tran	Vert	Long	
PPV	0.009	0.013	0.044	in/s
ZC Freq	23	20	16	Hz
Date	Apr 17 /19	Apr 16 /19	Apr 17 /19	
Time	07:54:05	23:15:39	07:54:05	
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.3	7.1	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.045 in/s on April 17, 2019 at 07:54:05



Time Scale: 5 minutes /div **Amplitude Scale:** Geo: 0.530 in/s Mic: 0.000 psi(L)/div Sensor Check

Printed: May 30, 2019 (V 10.74)

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Instantel

Event Report

Date/Time	Long at 07:54:03 April 17, 2019
Trigger Source	Geo: 0.040 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps
Operator/Setup:	Operator/Traffic Loc5.mmb

Serial Number	UM11719 V 10-89 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	March 26, 2019 by Instantel
File Name	UM11719_20190417075403.IDFW

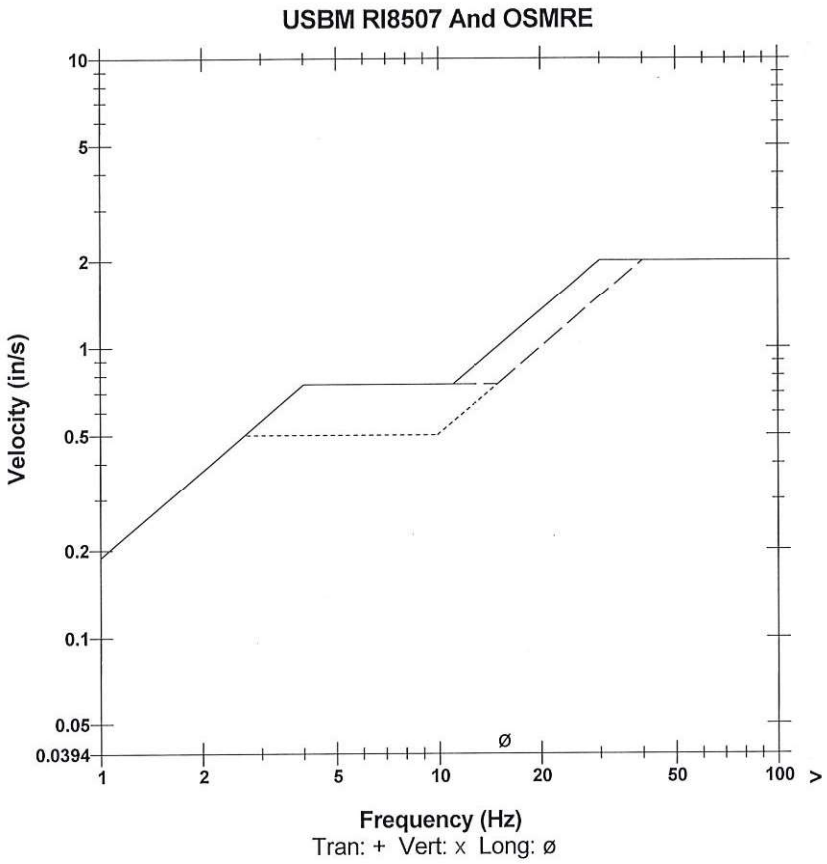
Notes

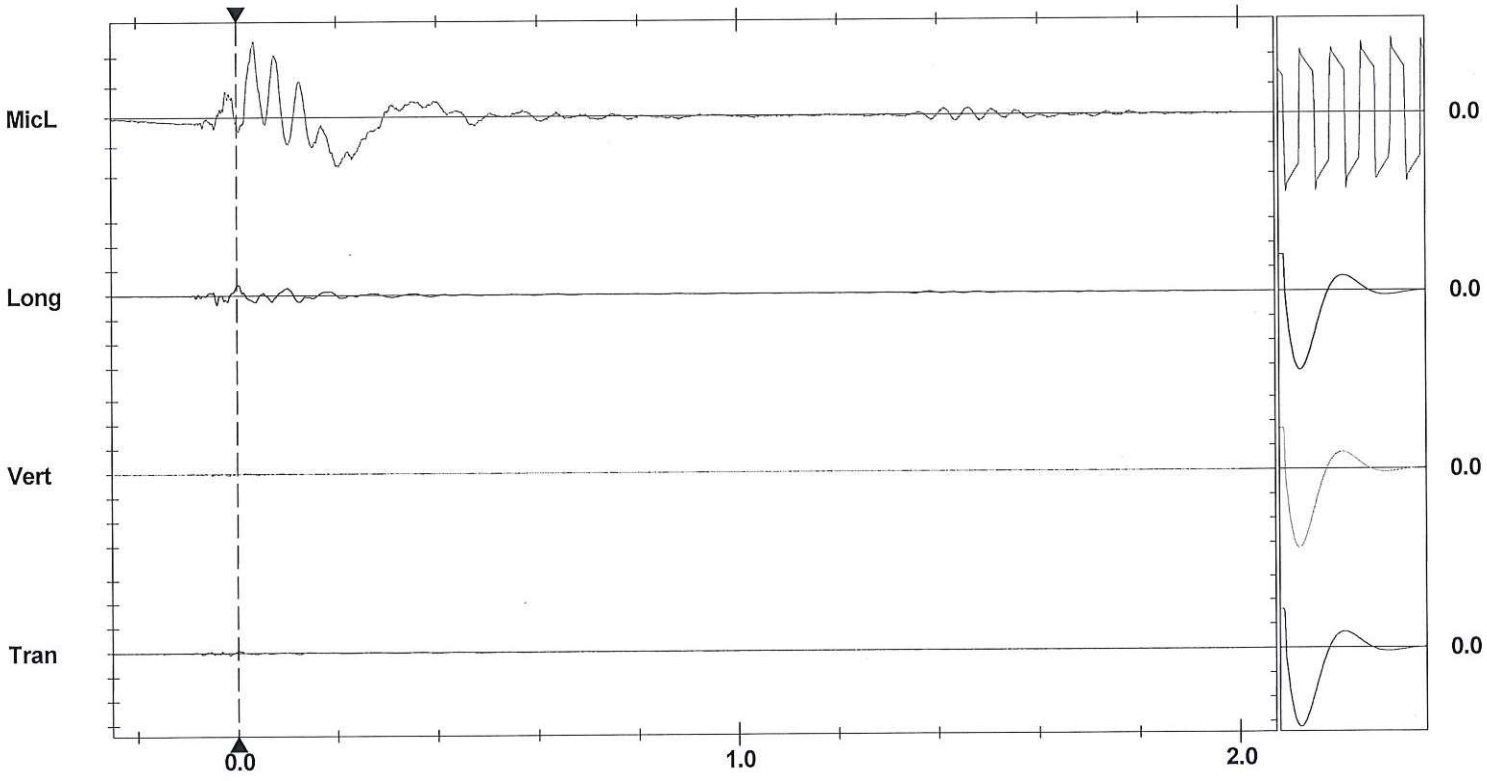
Location	Lewisburg Corridor Study-180 Market St
Client	Traffic Planning & Design/Lewisburg Boro
Company	Terra-Mechanics, Inc - D. Harrison
General Notes	Location #2A-180 Market Street - 2nd Fl

Microphone	Linear Weighting
PSPL	104.9 dB(L) at 0.034 sec
ZC Freq	13 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1275 mv)

	Tran	Vert	Long	
PPV	0.009	0.008	0.044	in/s
ZC Freq	23	51	16	Hz
Time (Rel. to Trig)	-0.017	-0.020	0.003	sec
Peak Acceleration	0.012	0.012	0.034	g
Peak Displacement	0.000	0.000	0.000	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.3	7.1	Hz
Overswing Ratio	5.0	4.7	5.3	

Peak Vector Sum 0.045 in/s at 0.003 sec





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.000 psi(L)/div

Trigger = ▶———◀

Sensor Check

Printed: May 30, 2019 (V 10.74)

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Event Report

Histogram Start Time	10:19:13 April 9, 2019
Histogram Finish Time	11:08:32 April 9, 2019
Number of Intervals	49.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE14036 V 10.72-8.17 MiniMate Plus
Battery Level	6.3 Volts
Unit Calibration	March 20, 2019 by Instantel
File Name	P036HVUK.O10

Notes

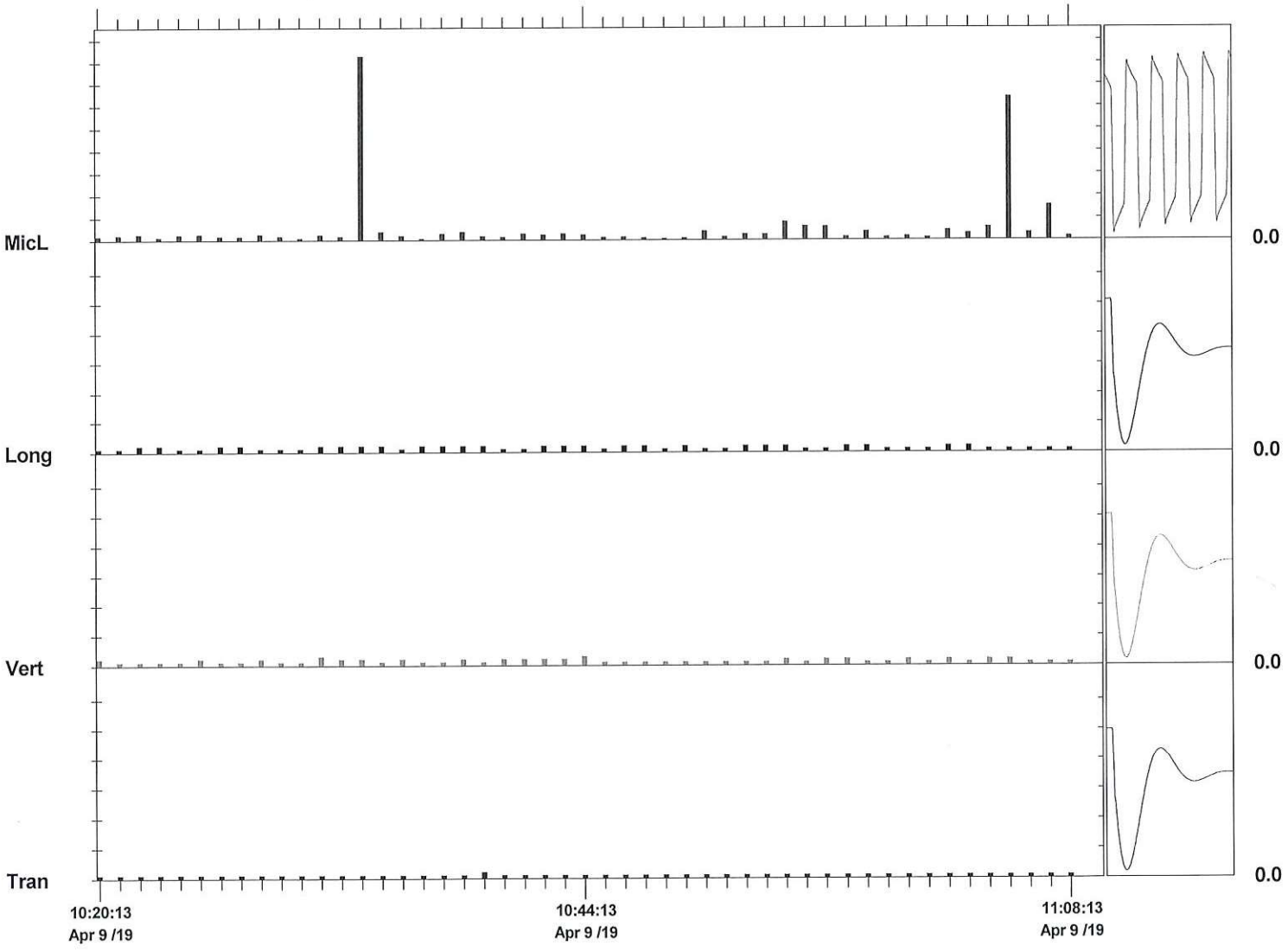
Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc
Seis. Loc:	Roaming Unit #1 – TOWNE TAVERN LOC 8

Extended Notes

Microphone	Linear Weighting
PSPL	135.1 dB(L) on April 9, 2019 at 10:33:13
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 584 mv)

	Tran	Vert	Long	
PPV	0.010	0.015	0.010	in/s
ZC Freq	>100	51	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	10:39:13	10:31:13	10:22:13	
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.5	Hz
Overswing Ratio	3.6	3.5	3.8	

Peak Vector Sum 0.017 in/s on April 9, 2019 at 10:31:13



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.563 in/s Mic: 0.002 psi(L)/div Sensor Check

Printed: June 2, 2019 (V 10.74)

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Instantel

Event Report

Histogram Start Time	11:10:24 April 9, 2019
Histogram Finish Time	11:21:06 April 9, 2019
Number of Intervals	10.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE14036 V 10.72-8.17 MiniMate Plus
Battery Level	6.2 Volts
Unit Calibration	March 20, 2019 by Instantel
File Name	P036HVUN.1C0

Notes

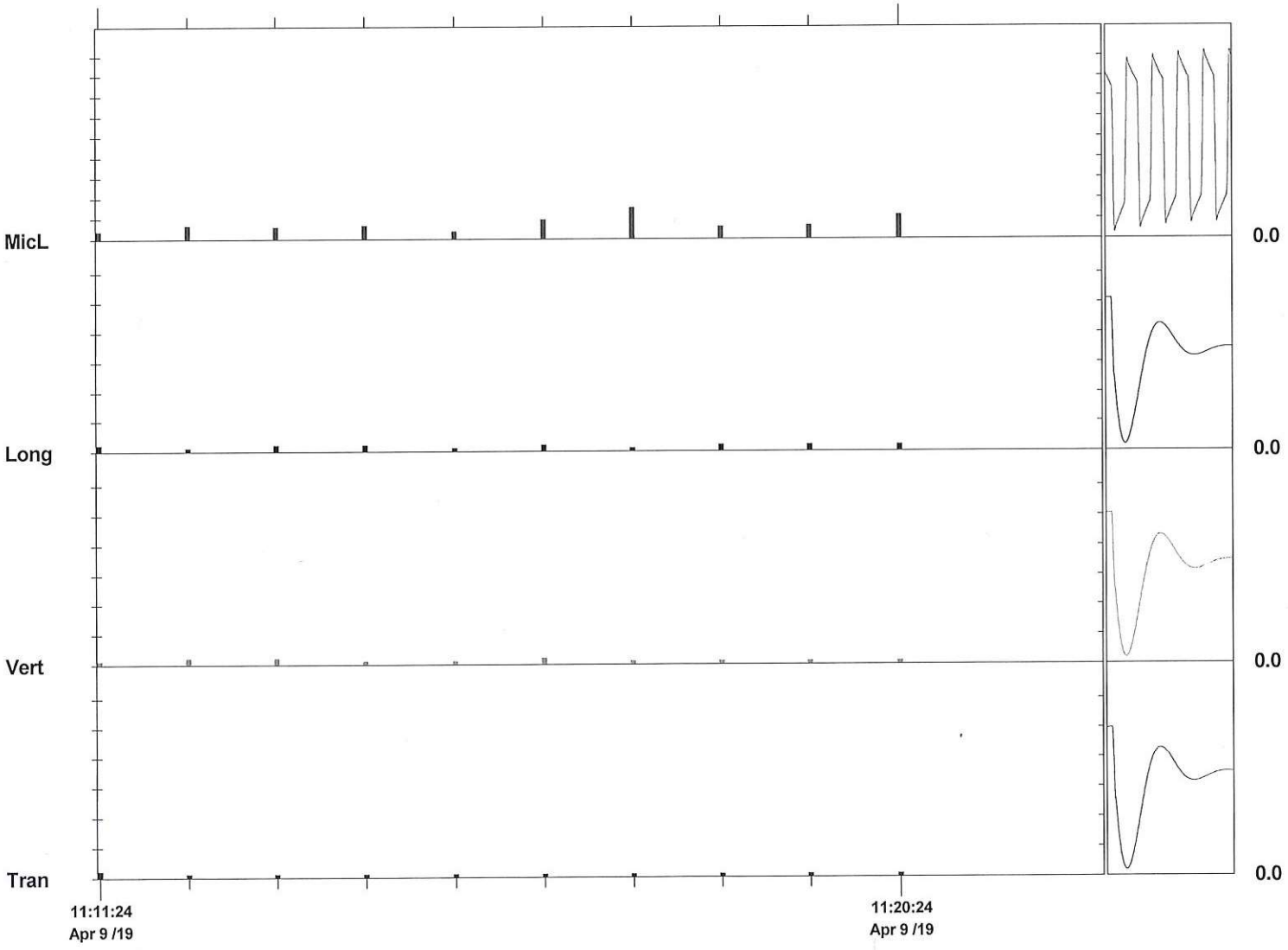
Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc
Seis. Loc:	Roaming Unit #1 - LOC B TOWN TARVEN

Extended Notes

Microphone	Linear Weighting
PSPL	108.4 dB(L) on April 9, 2019 at 11:17:24
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 598 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	11:11:24	11:12:24	11:11:24	
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.6	7.6	Hz
Overswing Ratio	3.6	3.5	3.8	

Peak Vector Sum 0.012 in/s on April 9, 2019 at 11:11:24



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.563 in/s Mic: 0.001 psi(L)/div Sensor Check

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Instantel

Event Report

Histogram Start Time	10:19:14 April 9, 2019
Histogram Finish Time	10:35:49 April 9, 2019
Number of Intervals	16.58 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/TRAFFIC ROAM 2.MMB

Serial Number	UM11402 V 10-88 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	May 16, 2018 by Instantel
File Name	UM11402_20190409101914.IDFH

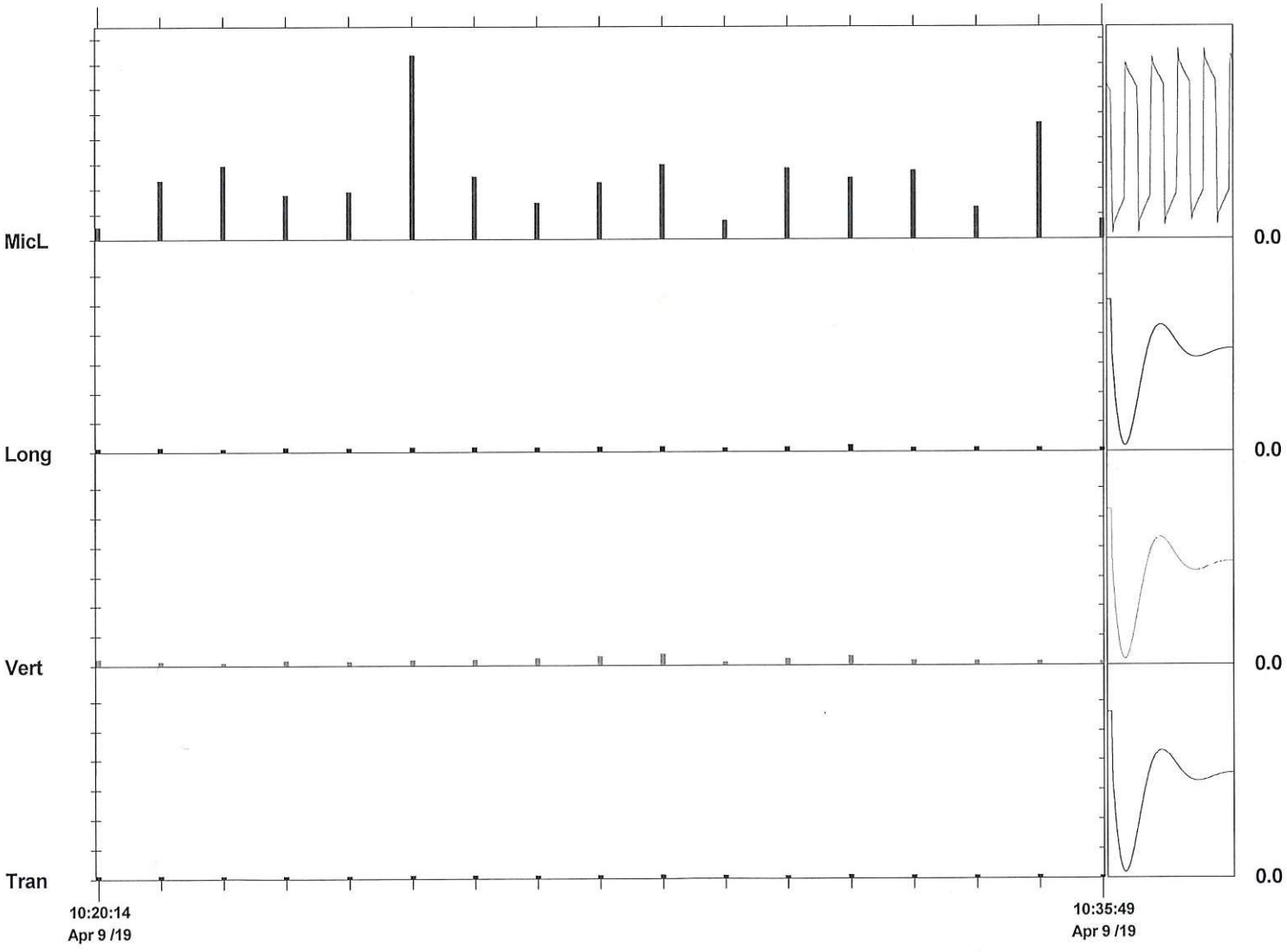
Notes

Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seis. Loc:	Roaming Unit #2 - Loc 9 - 639 Market

Microphone	Linear Weighting
PSPL	114.1 dB(L) on April 9, 2019 at 10:25:14
ZC Freq	64 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1380 mv)

	Tran	Vert	Long	
PPV	0.006	0.019	0.011	in/s
ZC Freq	7.5	19	2.8	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	10:29:14	10:29:14	10:32:14	
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	3.7	3.6	3.8	

Peak Vector Sum 0.019 in/s on April 9, 2019 at 10:29:14



Time Scale: 1 minute /div **Amplitude Scale:** Geo: [illegible] Mic: 0.000 psi(L)/div Sensor Check

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Event Report

Histogram Start Time	10:37:23 April 9, 2019
Histogram Finish Time	10:56:56 April 9, 2019
Number of Intervals	19.55 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/TRAFFIC ROAM 2.MMB

Serial Number	UM11402 V 10-88 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	May 16, 2018 by Instantel
File Name	UM11402_20190409103723.IDFH

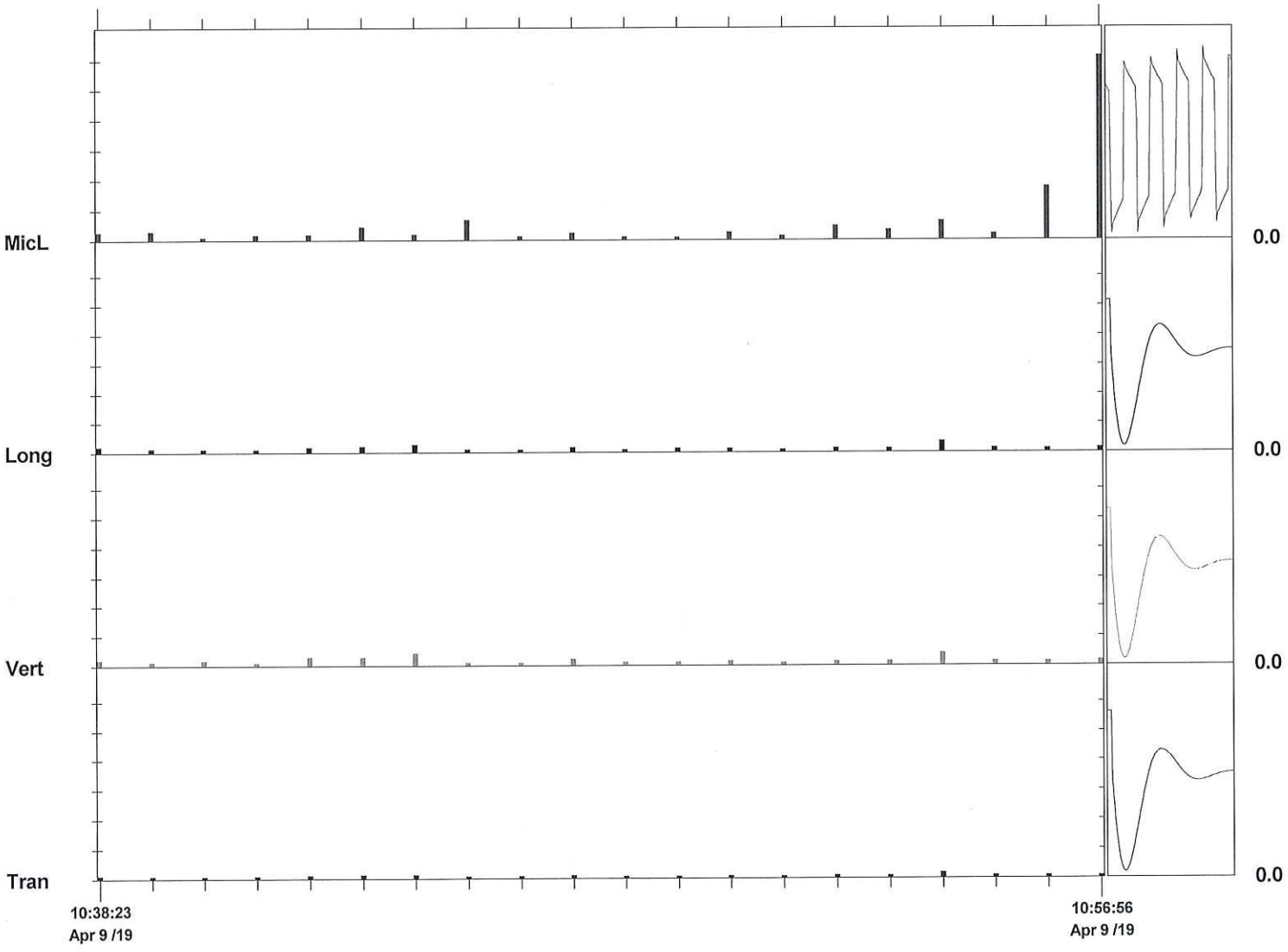
Notes

Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seis. Loc:	Roaming Unit #2 - Loc 9 - 639 Market

Microphone	Linear Weighting
PSPL	132.5 dB(L) on April 9, 2019 at 10:56:56
ZC Freq	32 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1346 mv)

	Tran	Vert	Long	
PPV	0.009	0.020	0.018	in/s
ZC Freq	14	37	11	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	10:54:23	10:44:23	10:54:23	
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	3.7	3.6	3.8	

Peak Vector Sum 0.023 in/s on April 9, 2019 at 10:44:23



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.635 in/s Mic: 0.002 psi(L)/div Sensor Check

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Instantel

Event Report

Date/Time	Vert at 10:43:54 April 9, 2019
Trigger Source	Geo: 0.020 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps
Operator/Setup:	Operator/TRAFFIC ROAM 2.MMB

Serial Number	UM11402 V 10-88 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	May 16, 2018 by Instantel
File Name	UM11402_20190409104354.IDFW

Notes

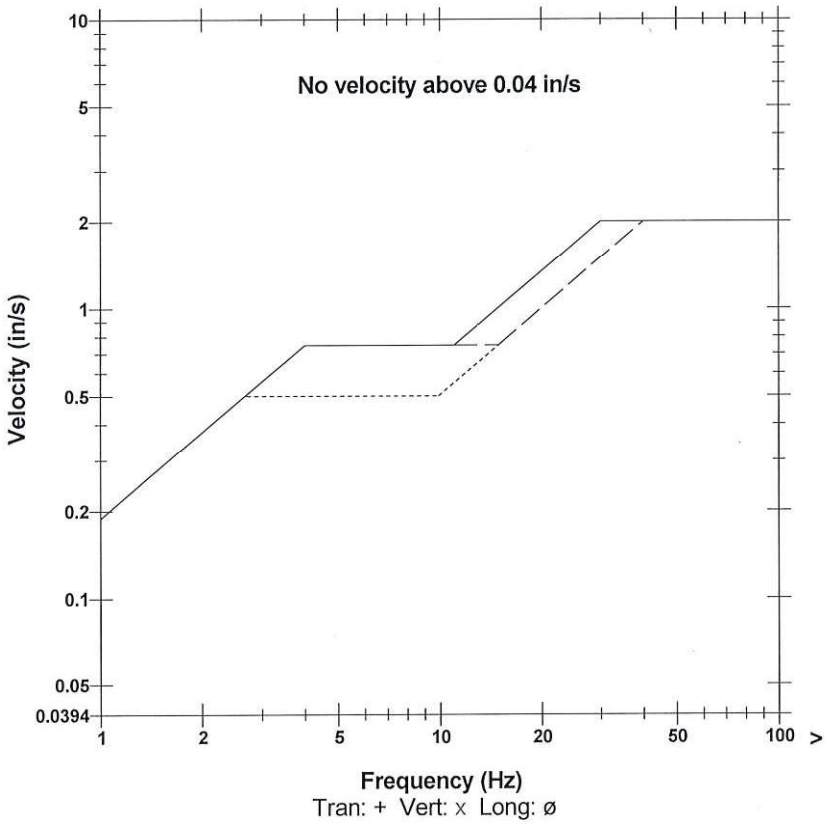
Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seis. Loc:	Roaming Unit #2 - Loc 9 - 639 Market

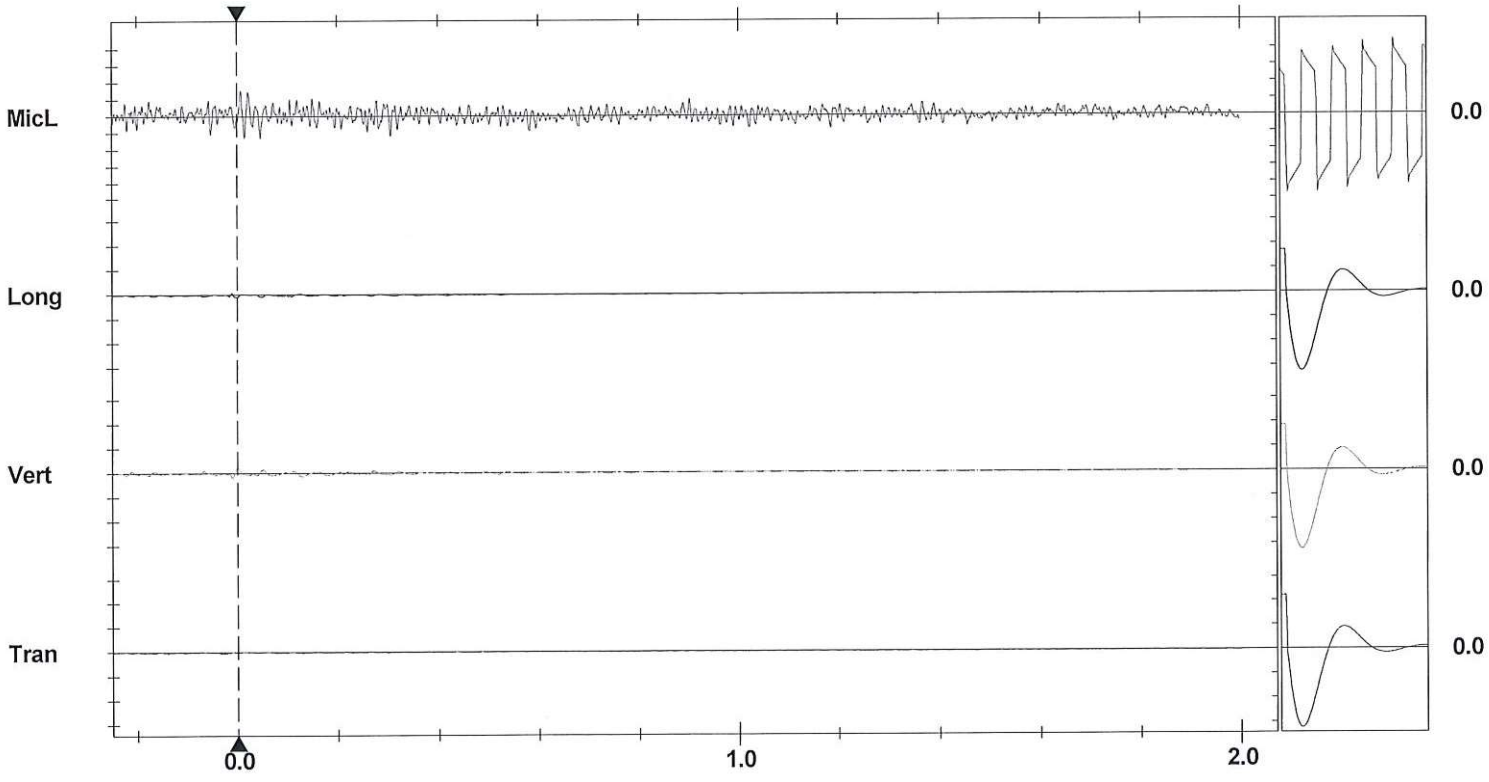
Microphone	Linear Weighting
PSPL	94.6 dB(L) at 0.008 sec
ZC Freq	51 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1346 mv)

	Tran	Vert	Long	
PPV	0.006	0.020	0.010	in/s
ZC Freq	10	37	34	Hz
Time (Rel. to Trig)	-0.022	0.001	-0.001	sec
Peak Acceleration	0.007	0.017	0.012	g
Peak Displacement	0.000	0.000	0.000	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	3.7	3.6	3.8	

Peak Vector Sum 0.023 in/s at 0.000 sec

USBM RI8507 And OSMRE





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.000 psi(L)/div

Trigger = ▶———◀

Sensor Check

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Event Report

Date/Time	Vert at 10:54:19 April 9, 2019
Trigger Source	Geo: 0.020 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps
Operator/Setup:	Operator/TRAFFIC ROAM 2.MMB

Serial Number	UM11402 V 10-88 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	May 16, 2018 by Instantel
File Name	UM11402_20190409105419.IDFW

Notes

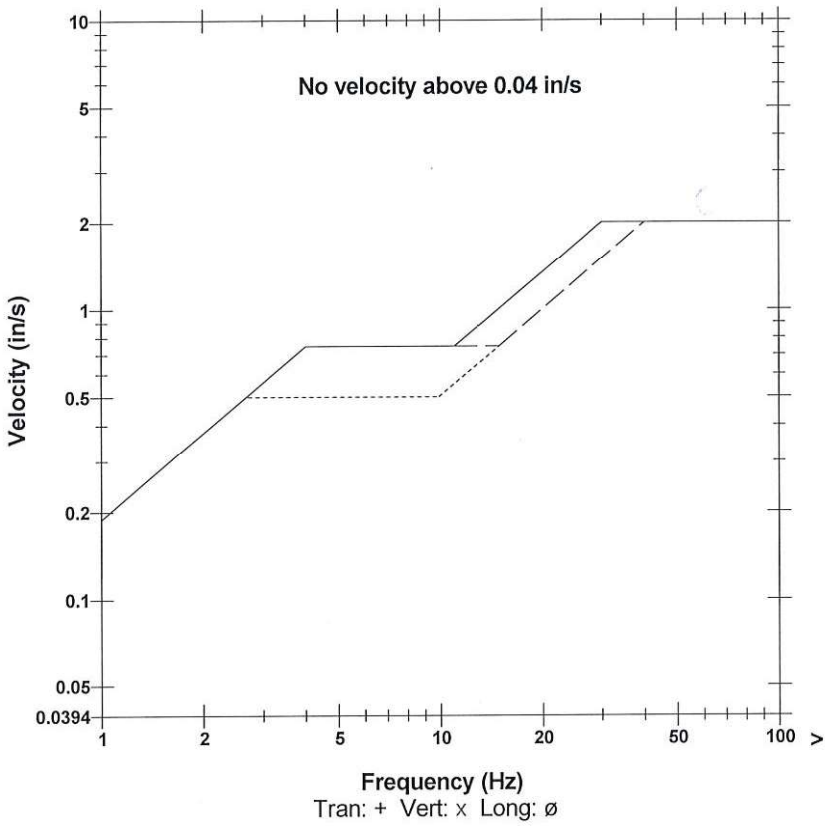
Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seis. Loc:	Roaming Unit #2 - Loc 9 - 639 Market

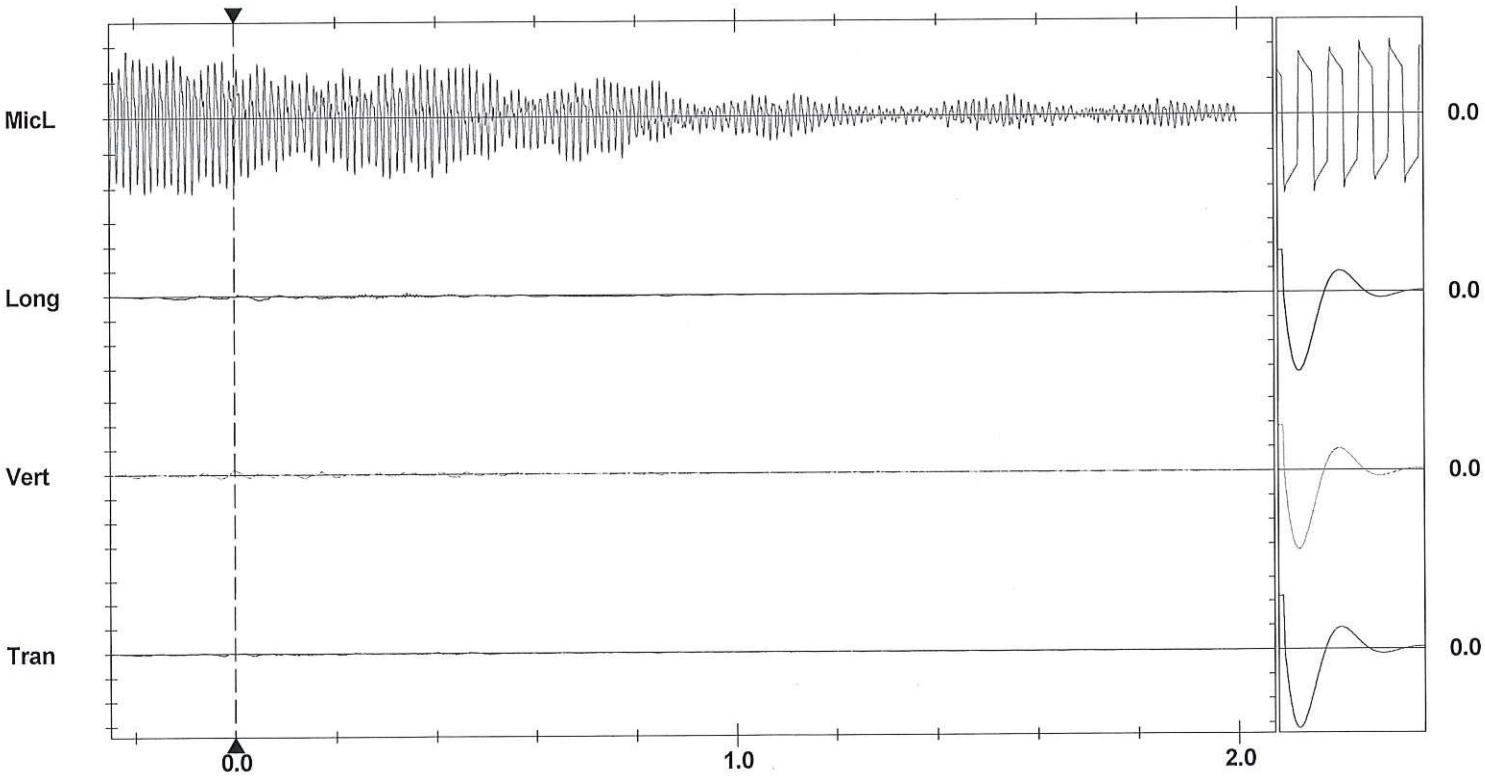
Microphone	Linear Weighting
PSPL	111.3 dB(L) at -0.179 sec
ZC Freq	85 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1346 mv)

	Tran	Vert	Long	
PPV	0.009	0.020	0.018	in/s
ZC Freq	14	18	11	Hz
Time (Rel. to Trig)	-0.022	0.000	0.048	sec
Peak Acceleration	0.007	0.010	0.022	g
Peak Displacement	0.000	0.000	0.001	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	3.7	3.6	3.8	

Peak Vector Sum 0.021 in/s at 0.000 sec

USBM RI8507 And OSMRE





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.001 psi(L)/div

Trigger = ▶———◀

Sensor Check

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Event Report

Histogram Start Time	10:59:20 April 9, 2019
Histogram Finish Time	11:23:57 April 9, 2019
Number of Intervals	24.61 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/TRAFFIC ROAM 2.MMB

Serial Number	UM11402 V 10-88 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	May 16, 2018 by Instantel
File Name	UM11402_20190409105920.IDFH

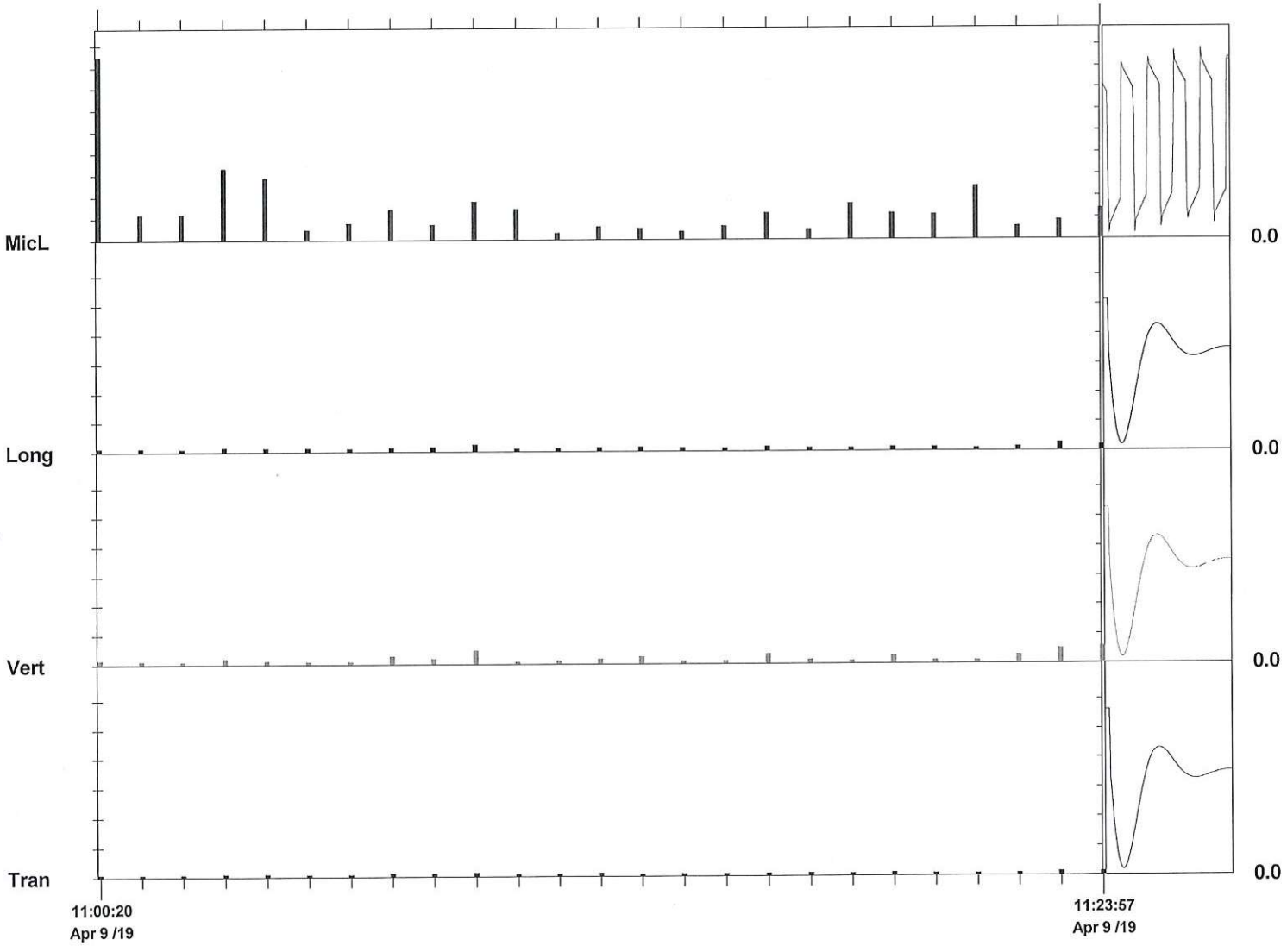
Notes

Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seis. Loc:	Roaming Unit #2 - Loc 9 - 639 Market

Microphone	Linear Weighting
PSPL	123.3 dB(L) on April 9, 2019 at 11:00:20
ZC Freq	8.3 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1324 mv)

	Tran	Vert	Long	
PPV	0.007	0.028	0.013	in/s
ZC Freq	17	18	12	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	11:23:20	11:23:57	11:23:20	
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	3.7	3.6	3.8	

Peak Vector Sum 0.029 in/s on April 9, 2019 at 11:23:57



Time Scale: 1 minute /div **Amplitude Scale:** Geo: Page 1 of 1 Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Date/Time	Vert at 11:23:41 April 9, 2019
Trigger Source	Geo: 0.025 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps
Operator/Setup:	Operator/TRAFFIC ROAM 2.MMB

Serial Number	UM11402 V 10-88 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	May 16, 2018 by Instantel
File Name	UM11402_20190409112341.IDFW

Notes

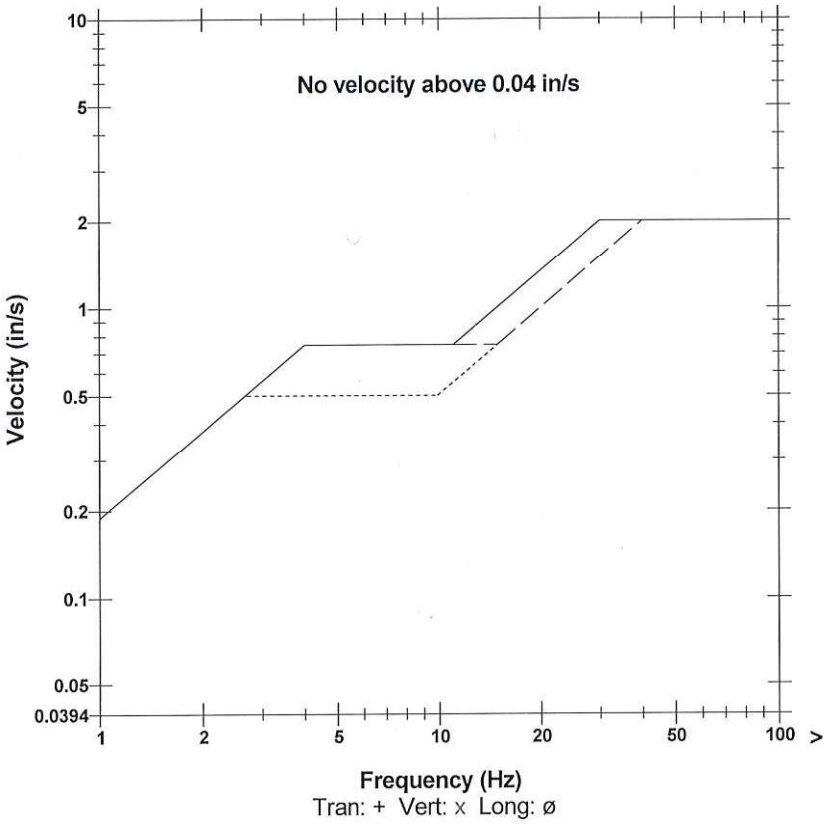
Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seis. Loc:	Roaming Unit #2 - Loc 9 - 639 Market

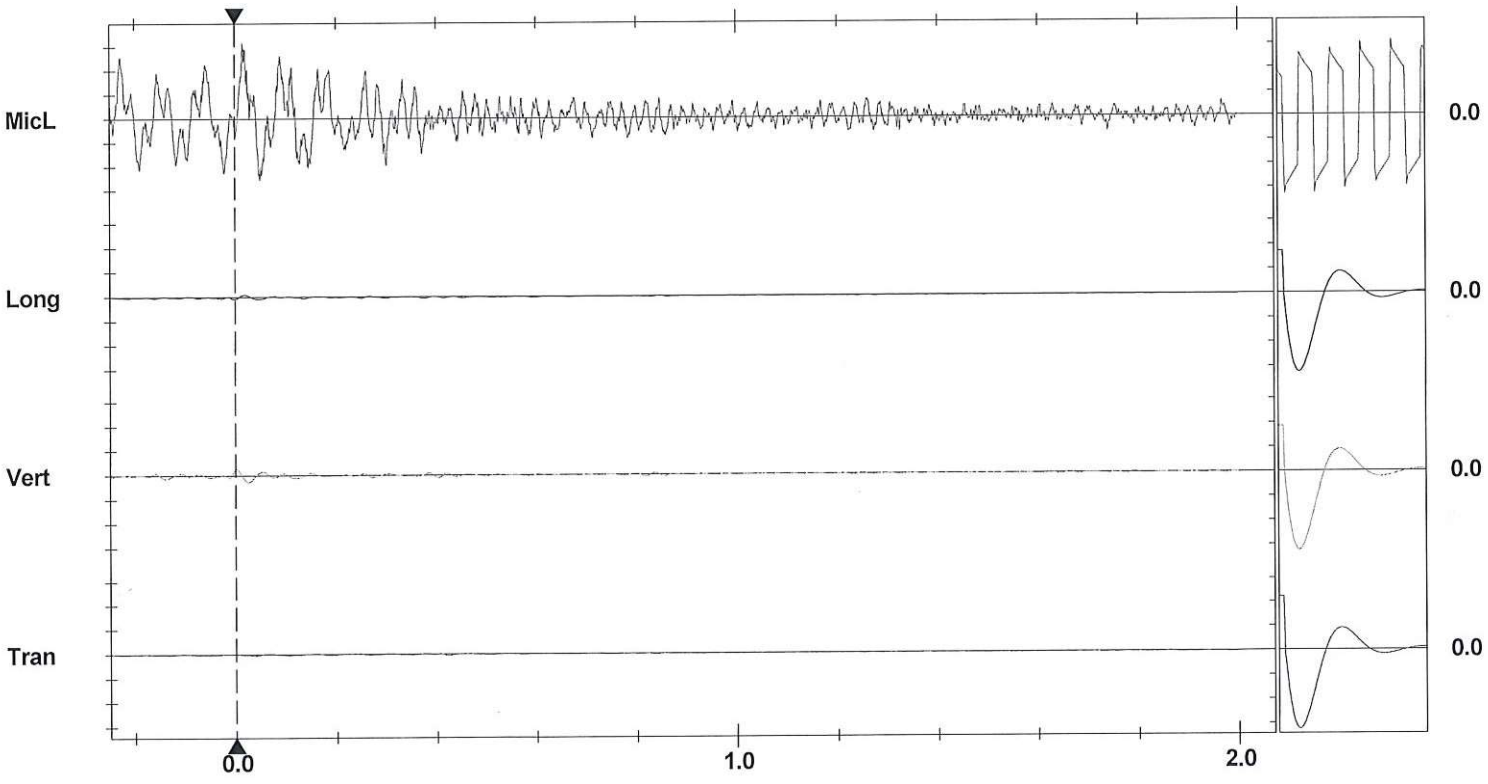
Microphone	Linear Weighting
PSPL	106.8 dB(L) at 0.015 sec
ZC Freq	21 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1324 mv)

	Tran	Vert	Long	
PPV	0.006	0.028	0.010	in/s
ZC Freq	18	18	24	Hz
Time (Rel. to Trig)	0.424	0.025	0.019	sec
Peak Acceleration	0.006	0.014	0.007	g
Peak Displacement	0.000	0.000	0.000	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	3.7	3.6	3.8	

Peak Vector Sum 0.029 in/s at 0.025 sec

USBM RI8507 And OSMRE





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.000 psi(L)/div

Trigger = ▶———◀

Sensor Check

Printed: June 2, 2019 (V 10.74)

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Event Report

Histogram Start Time	12:02:37 April 9, 2019
Histogram Finish Time	12:33:16 April 9, 2019
Number of Intervals	30.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE14036 V 10.72-8.17 MiniMate Plus
Battery Level	6.3 Volts
Unit Calibration	March 20, 2019 by Instantel
File Name	P036HVUP.GD0

Notes

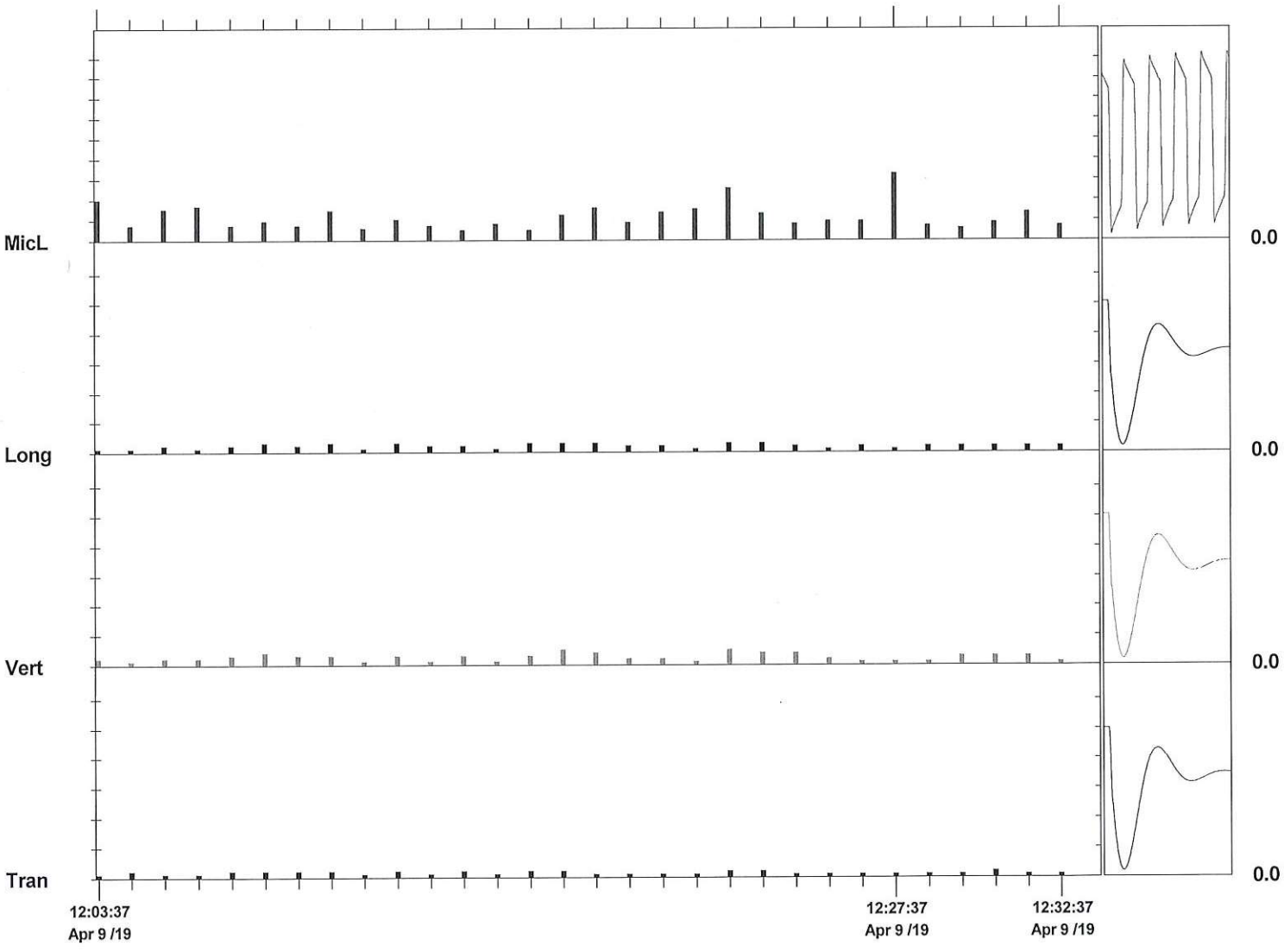
Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc
Seis. Loc:	Roaming Unit #1 – LOC 10 838 MARKET

Extended Notes

Microphone	Linear Weighting
PSPL	115.0 dB(L) on April 9, 2019 at 12:27:37
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 581 mv)

	Tran	Vert	Long	
PPV	0.010	0.025	0.015	in/s
ZC Freq	>100	85	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	12:04:37	12:17:37	12:08:37	
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.4	Hz
Overswing Ratio	3.5	3.5	3.8	

Peak Vector Sum 0.026 in/s on April 9, 2019 at 12:17:37



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.250in/s/div Mic: 0.001 psi(L)/div Sensor Check

Printed: June 2, 2019 (V 10.74)

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Instantel

Event Report

Histogram Start Time	10:19:13 April 9, 2019
Histogram Finish Time	11:08:32 April 9, 2019
Number of Intervals	49.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE14036 V 10.72-8.17 MiniMate Plus
Battery Level	6.3 Volts
Unit Calibration	March 20, 2019 by Instantel
File Name	P036HVUK.O10

Post Event Notes
Loc 8 - Towne Tavern

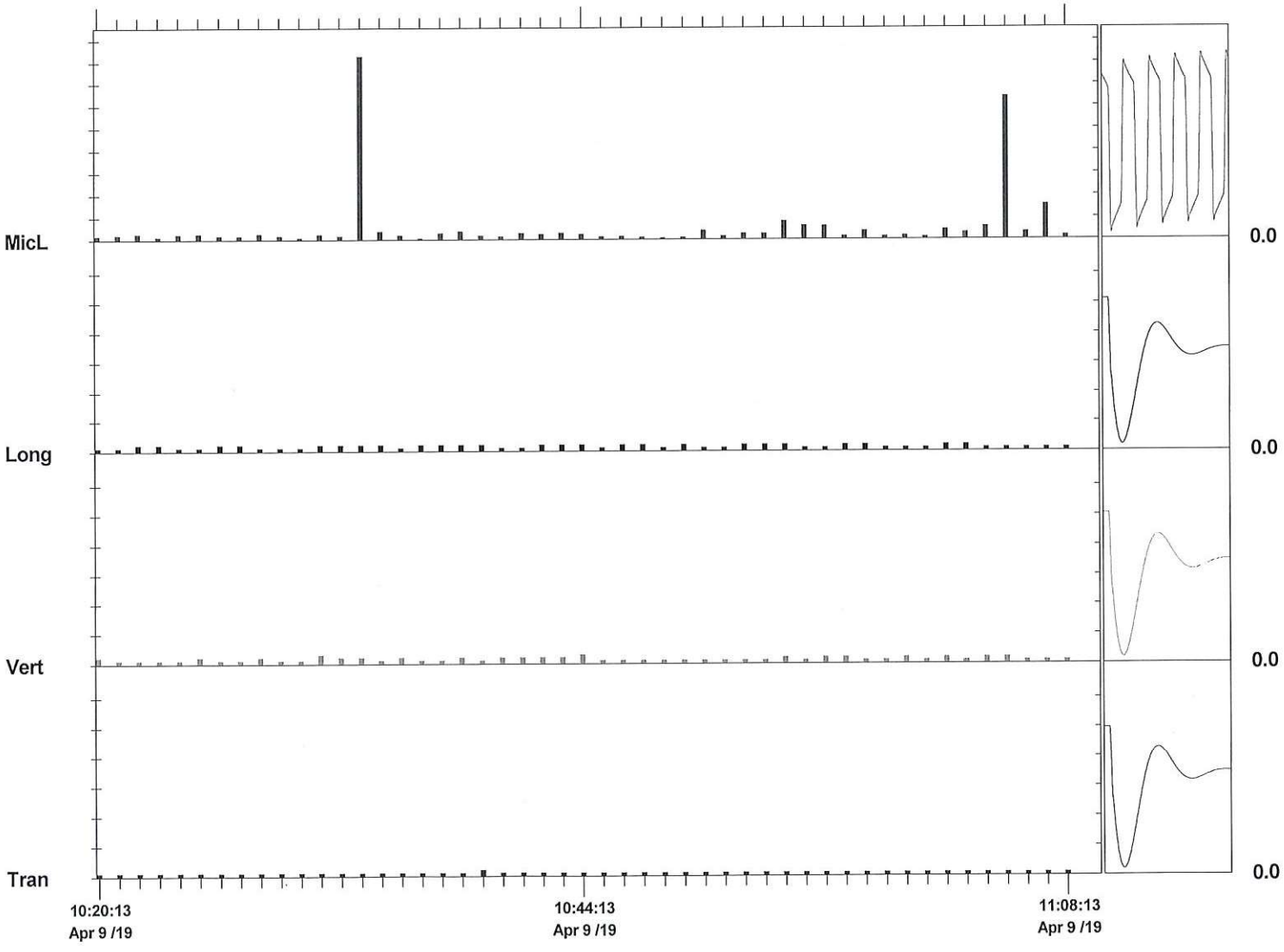
Notes
Project: Lewisburg Corridor Study
Client: Traffic Planning & Design/Lewisburg Boro
User Name: Terra-Mechanics, Inc
Seis. Loc: Roaming Unit #1 - LOC 10
838 MARKER

Extended Notes

Microphone	Linear Weighting
PSPL	135.1 dB(L) on April 9, 2019 at 10:33:13
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 584 mv)

	Tran	Vert	Long	
PPV	0.010	0.015	0.010	in/s
ZC Freq	>100	51	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	10:39:13	10:31:13	10:22:13	
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.5	Hz
Overswing Ratio	3.6	3.5	3.8	

Peak Vector Sum 0.017 in/s on April 9, 2019 at 10:31:13



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.641 in/s Mic: 0.002 psi(L)/div Sensor Check

Printed: June 2, 2019 (V 10.74)
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Instantel

Event Report

Histogram Start Time	11:10:24 April 9, 2019
Histogram Finish Time	11:21:06 April 9, 2019
Number of Intervals	10.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE14036 V 10.72-8.17 MiniMate Plus
Battery Level	6.2 Volts
Unit Calibration	March 20, 2019 by Instantel
File Name	P036HVUN.1C0

Post Event Notes
Loc 8 - Towne Tavern

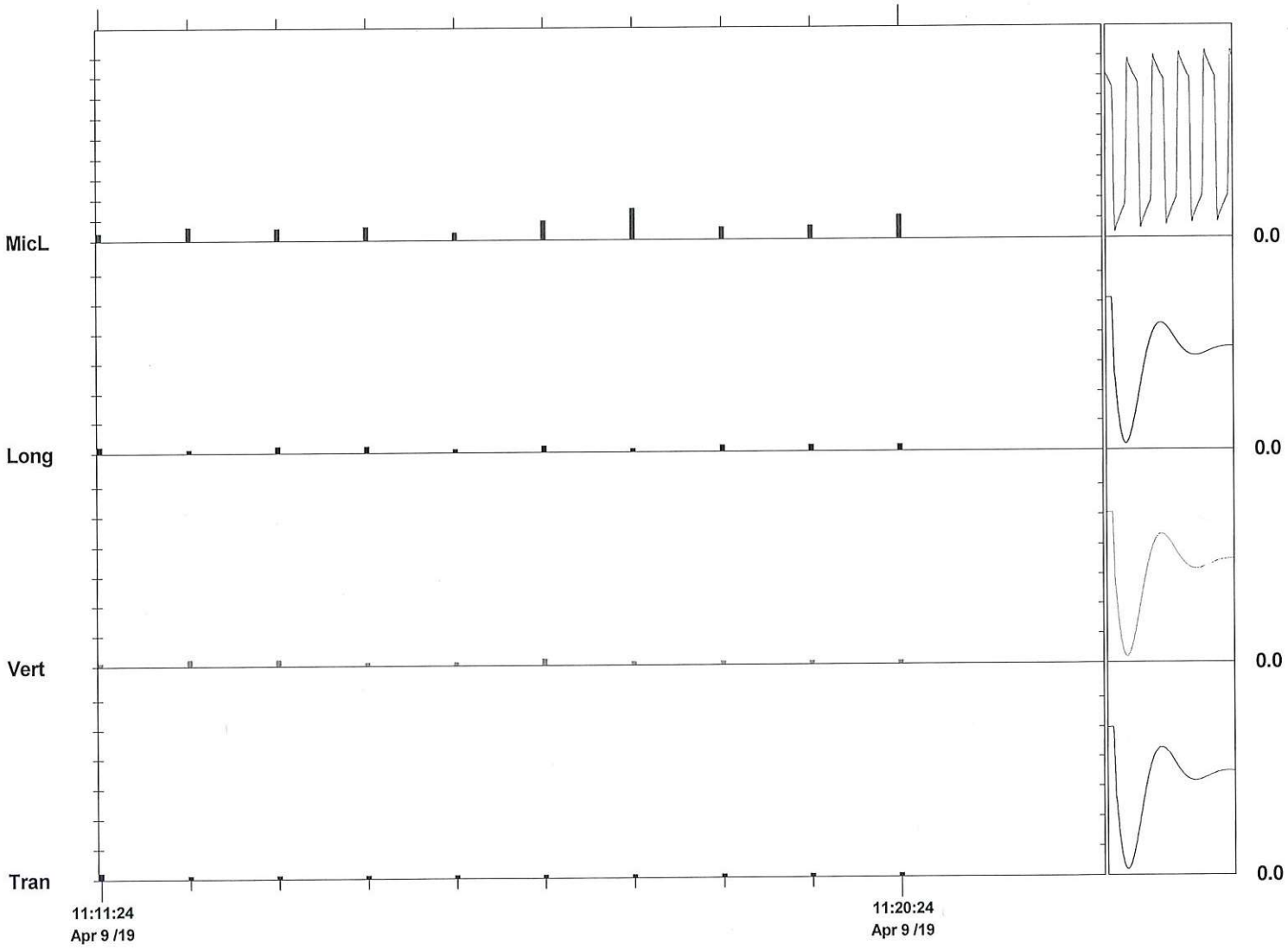
Notes
Project: Lewisburg Corridor Study
Client: Traffic Planning & Design/Lewisburg Boro
User Name: Terra-Mechanics, Inc
Seis. Loc: Roaming Unit #1 LOC 10 839 MARKET

Extended Notes

Microphone	Linear Weighting
PSPL	108.4 dB(L) on April 9, 2019 at 11:17:24
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 598 mv)

	Tran	Vert	Long	
PPV	0.010	0.010	0.010	in/s
ZC Freq	>100	>100	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	11:11:24	11:12:24	11:11:24	
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.6	7.6	Hz
Overswing Ratio	3.6	3.5	3.8	

Peak Vector Sum 0.012 in/s on April 9, 2019 at 11:11:24



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.5642 in/s Mic: 0.001 psi(L)/div Sensor Check

Printed: June 2, 2019 (V 10.74)

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Instantel

Event Report

Histogram Start Time	12:02:37 April 9, 2019
Histogram Finish Time	12:33:16 April 9, 2019
Number of Intervals	30.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE14036 V 10.72-8.17 MiniMate Plus
Battery Level	6.3 Volts
Unit Calibration	March 20, 2019 by Instantel
File Name	P036HVUP.GD0

Post Event Notes
Loc 10 - 838 Market St

Notes

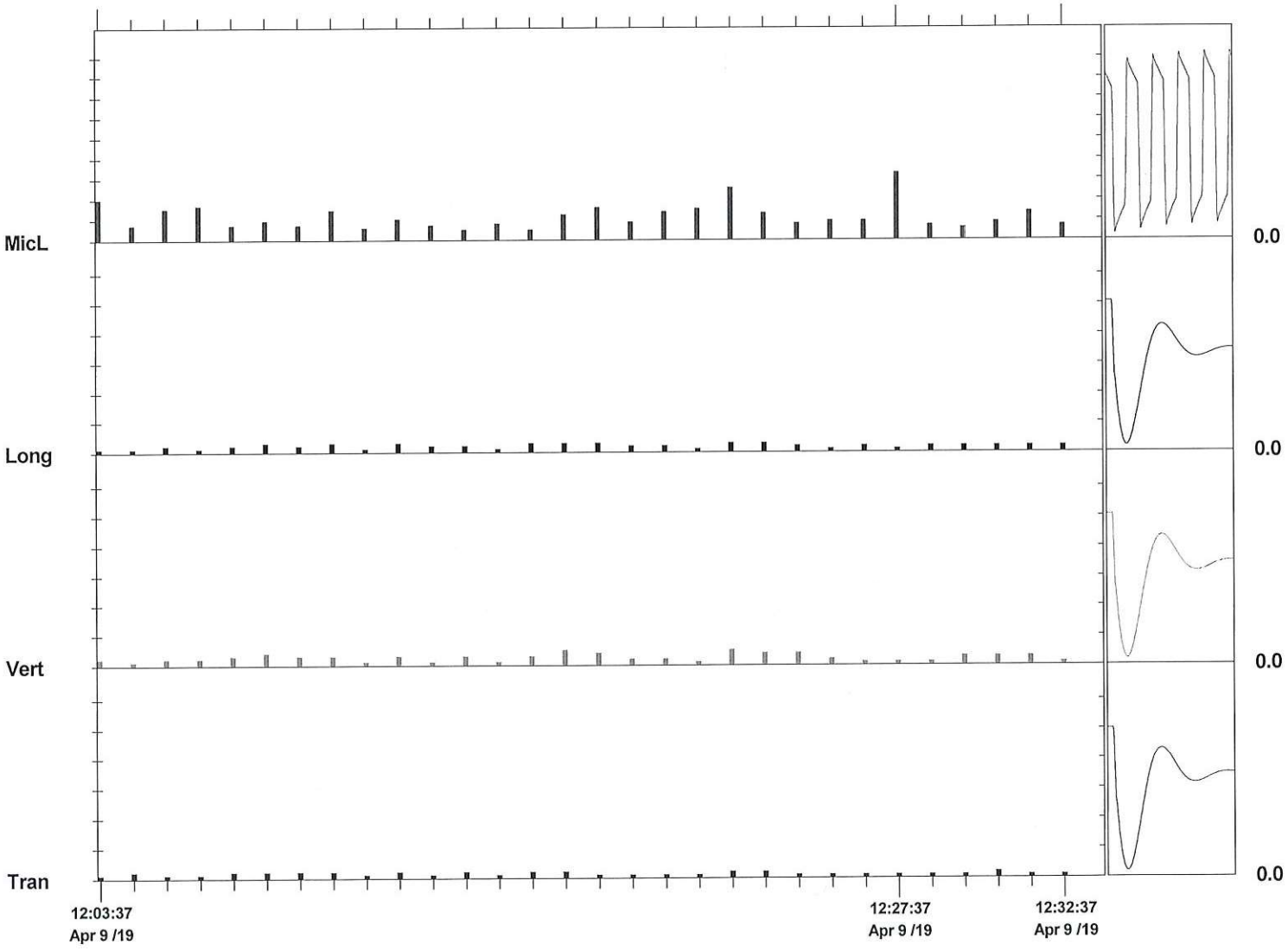
Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc
Seis. Loc:	Roaming Unit #1 -LOC 10 838 MARKET

Extended Notes

Microphone	Linear Weighting
PSPL	115.0 dB(L) on April 9, 2019 at 12:27:37
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 581 mv)

	Tran	Vert	Long	
PPV	0.010	0.025	0.015	in/s
ZC Freq	>100	85	>100	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	12:04:37	12:17:37	12:08:37	
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.4	Hz
Overswing Ratio	3.5	3.5	3.8	

Peak Vector Sum 0.026 in/s on April 9, 2019 at 12:17:37



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.5643 in/s Mic: 0.001 psi(L)/div Sensor Check

Printed: June 2, 2019 (V 10.74)

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Instantel

Event Report

Histogram Start Time	12:34:12 April 9, 2019
Histogram Finish Time	13:07:39 April 9, 2019
Number of Intervals	33.00 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps

Serial Number	BE14036 V 10.72-8.17 MiniMate Plus
Battery Level	6.3 Volts
Unit Calibration	March 20, 2019 by Instantel
File Name	P036HVUQ.X00

Post Event Notes
Loc 10 - 838 Market St

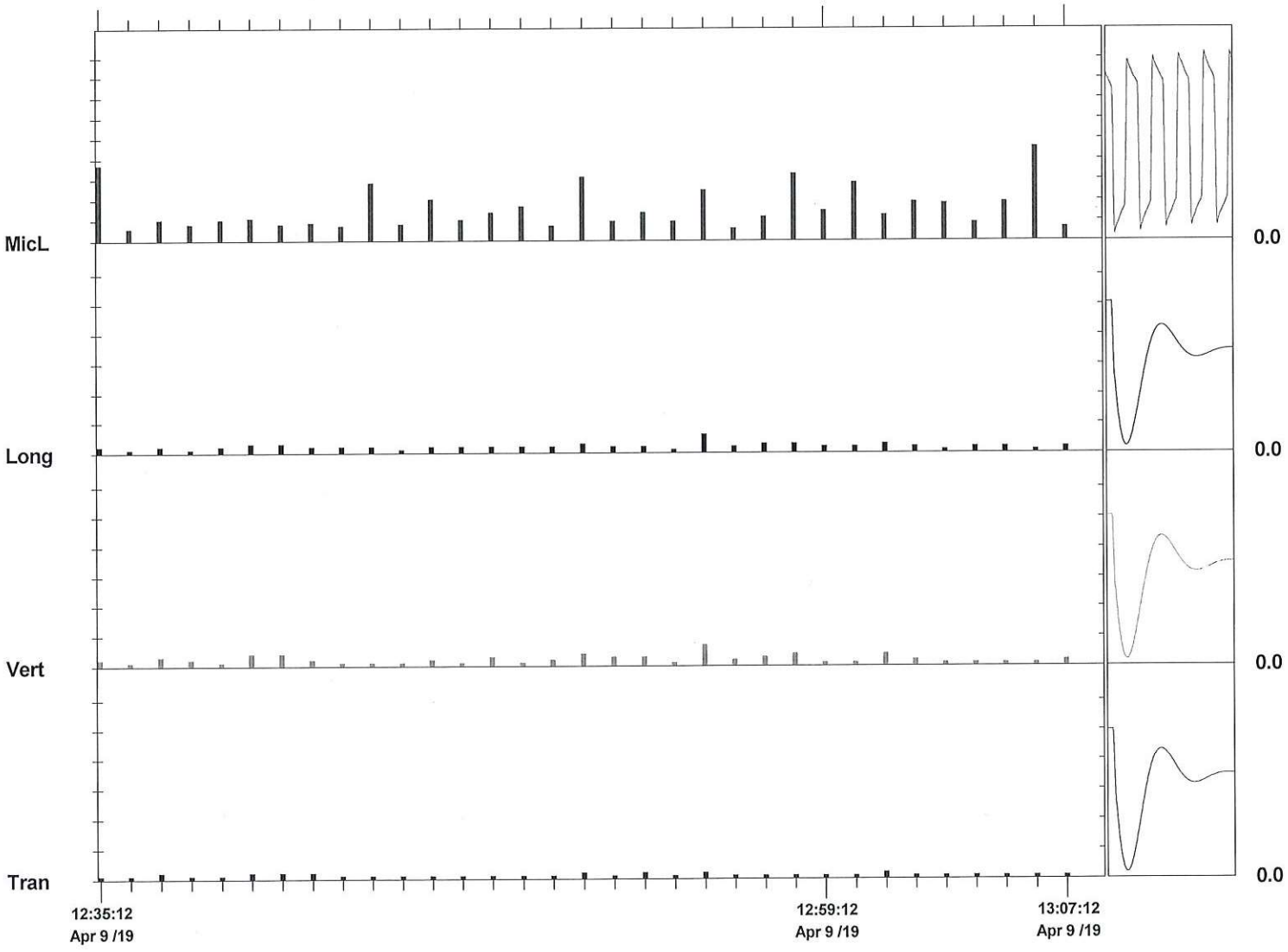
Notes
Project: Lewisburg Corridor Study
Client: Traffic Planning & Design/Lewisburg Boro
User Name: Terra-Mechanics, Inc
Seis. Loc: Roaming Unit #1 - LOC 10 838 MARKET

Extended Notes

Microphone	Linear Weighting
PSPL	117.9 dB(L) on April 9, 2019 at 13:06:12
ZC Freq	73 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 531 mv)

	Tran	Vert	Long	
PPV	0.010	0.035	0.030	in/s
ZC Freq	>100	14	12	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	12:37:12	12:55:12	12:55:12	
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.4	Hz
Overswing Ratio	3.6	3.5	3.8	

Peak Vector Sum 0.043 in/s on April 9, 2019 at 12:55:12



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.564 in/s Mic: 0.001 psi(L)/div Sensor Check

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Instantel

Event Report

Date/Time Vert at 12:54:38 April 9, 2019
Trigger Source Geo: 0.020 in/s
Range Geo: 10.000 in/s
Record Time 2.0 sec at 1024 sps

Notes
Project: Lewisburg Corridor Study
Client: Traffic Planning & Design/Lewisburg Boro
User Name: Terra-Mechanics, Inc
Seis. Loc: Roaming Unit #1 - LOC 10 838 MARKET

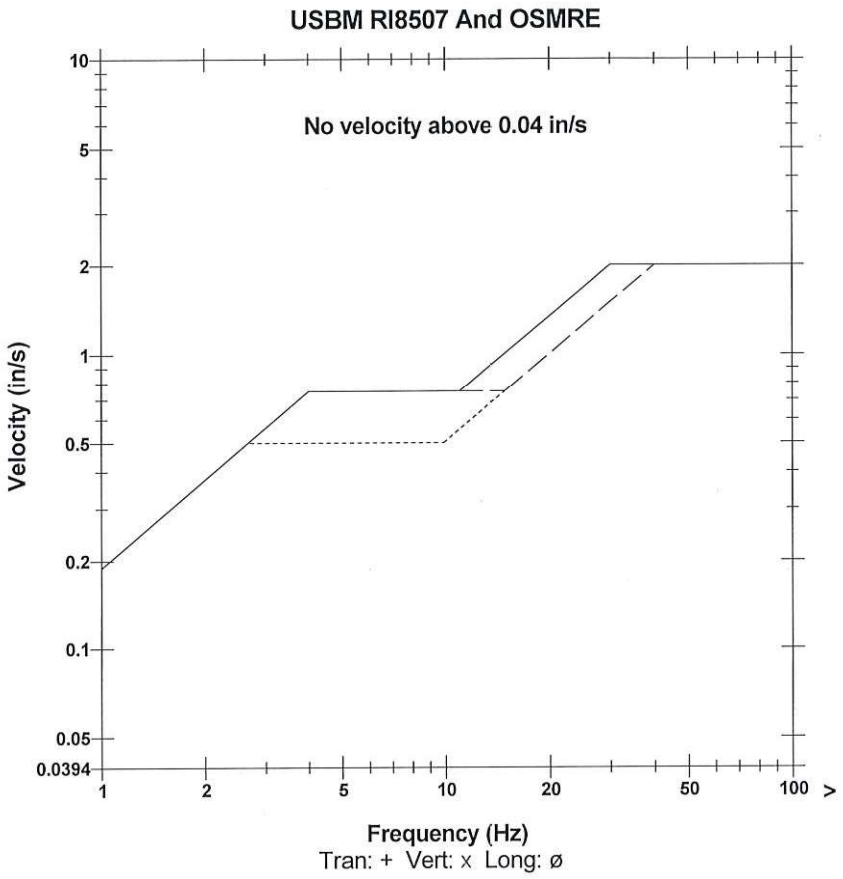
Extended Notes
Combo Mode April 9, 2019 12:34:11

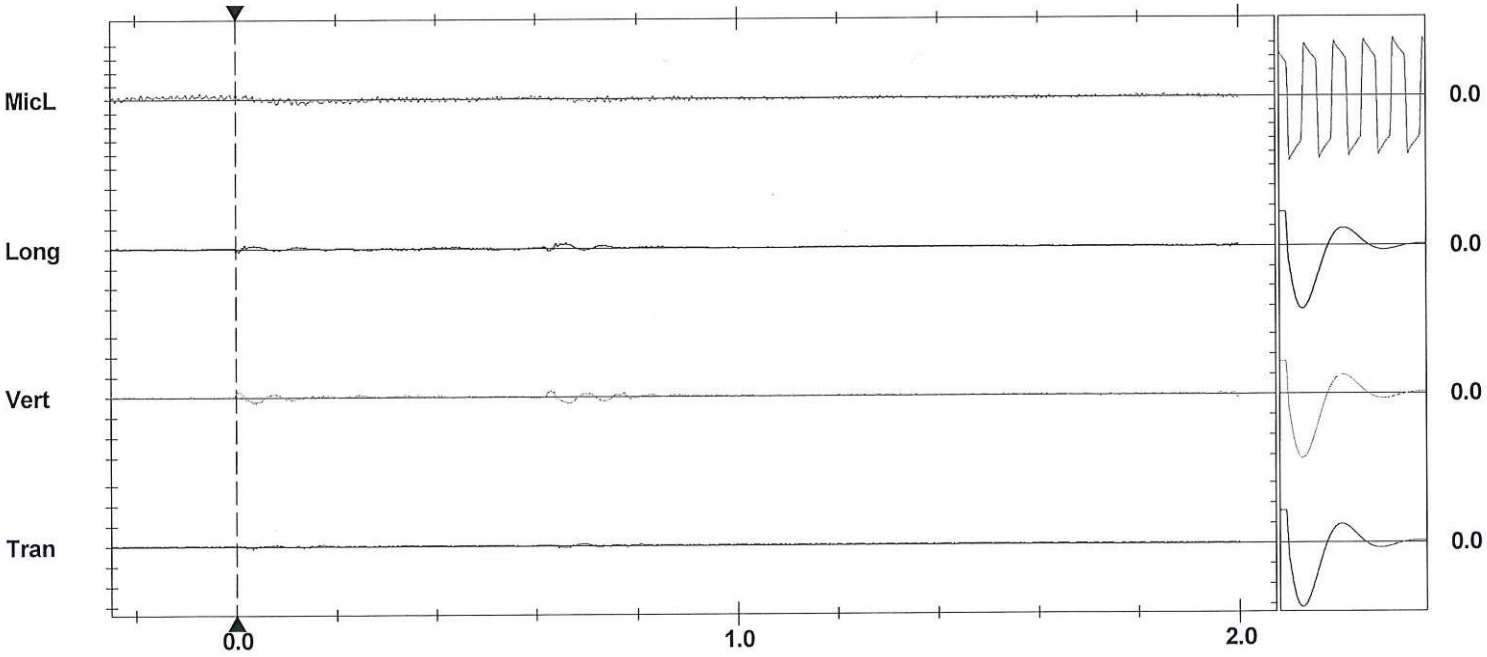
Microphone Linear Weighting
PSPL 103.5 dB(L) at -0.070 sec
ZC Freq 5.7 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 531 mv)

	Tran	Vert	Long	
PPV	0.010	0.035	0.030	in/s
ZC Freq	>100	14	12	Hz
Time (Rel. to Trig)	0.031	0.662	0.660	sec
Peak Acceleration	0.027	0.040	0.040	g
Peak Displacement	0.000	0.000	0.000	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.4	Hz
Overswing Ratio	3.6	3.5	3.8	

Peak Vector Sum 0.043 in/s at 0.660 sec

Serial Number BE14036 V 10.72-8.17 MiniMate Plus
Battery Level 6.3 Volts
Unit Calibration March 20, 2019 by Instantel
File Name P036HVUR.V20
Post Event Notes
Loc 10 - 838 Market St





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.001 psi(L)/div
Trigger =

Sensor Check

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Instantel

Event Report

Histogram Start Time	12:06:25 April 9, 2019
Histogram Finish Time	12:25:03 April 9, 2019
Number of Intervals	18.64 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/TRAFFIC ROAM 2.MMB

Serial Number	UM11402 V 10-88 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	May 16, 2018 by Instantel
File Name	UM11402_20190409120625.IDFH

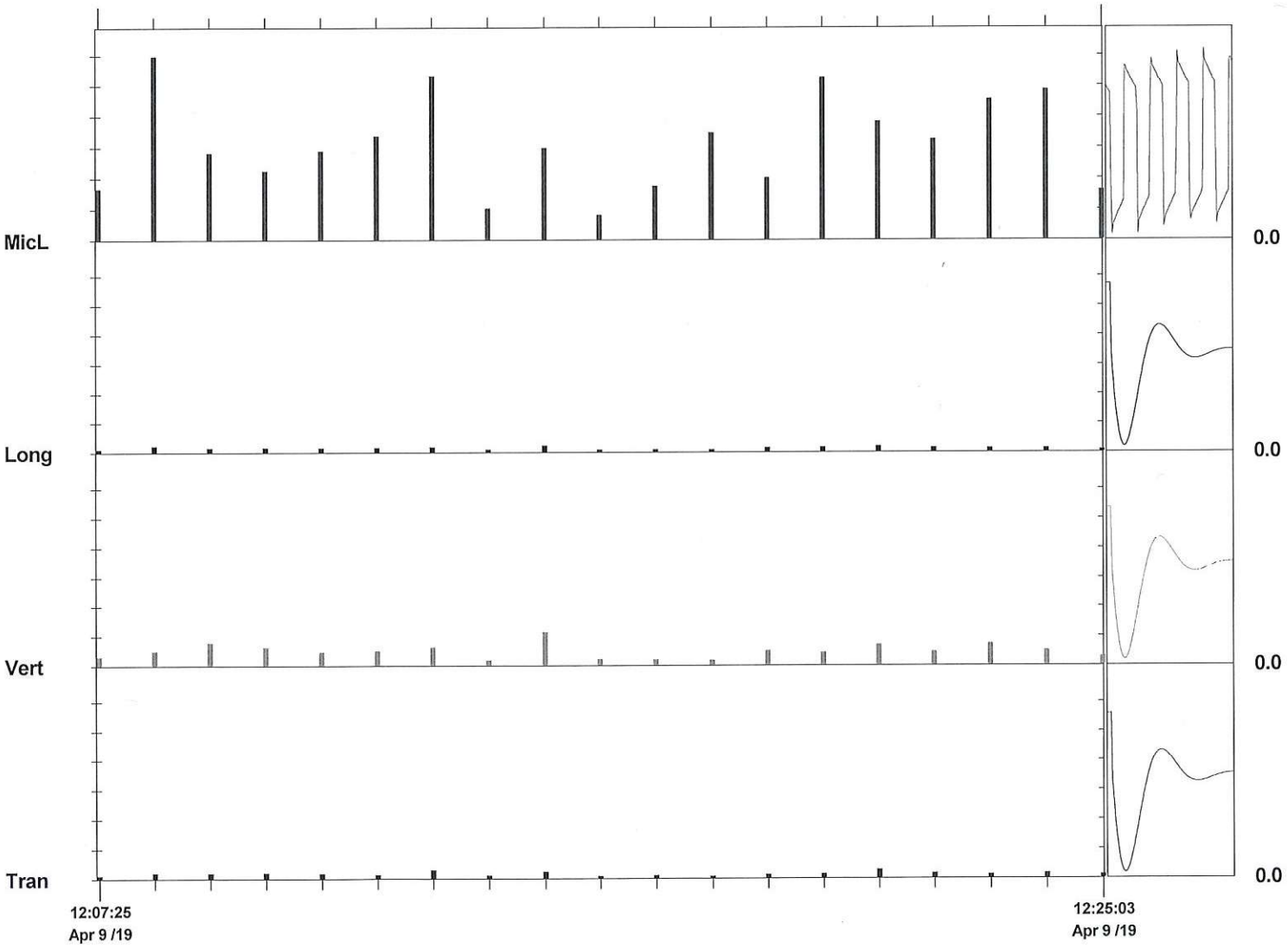
Notes

Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seis. Loc:	Roaming unit 2 - Loc 11 - Amami

Microphone	Linear Weighting
PSPL	112.3 dB(L) on April 9, 2019 at 12:08:25
ZC Freq	34 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1282 mv)

	Tran	Vert	Long	
PPV	0.014	0.056	0.011	in/s
ZC Freq	24	21	26	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	12:13:25	12:15:25	12:15:25	
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	3.6	3.6	3.7	

Peak Vector Sum 0.056 in/s on April 9, 2019 at 12:15:25



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.050 in/s/div Mic: 0.000 psi(L)/div Sensor Check

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Event Report

Date/Time	Vert at 12:14:49 April 9, 2019
Trigger Source	Geo: 0.050 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps
Operator/Setup:	Operator/TRAFFIC ROAM 2.MMB

Serial Number	UM11402 V 10-88 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	May 16, 2018 by Instantel
File Name	UM11402_20190409121449.IDFW

Notes

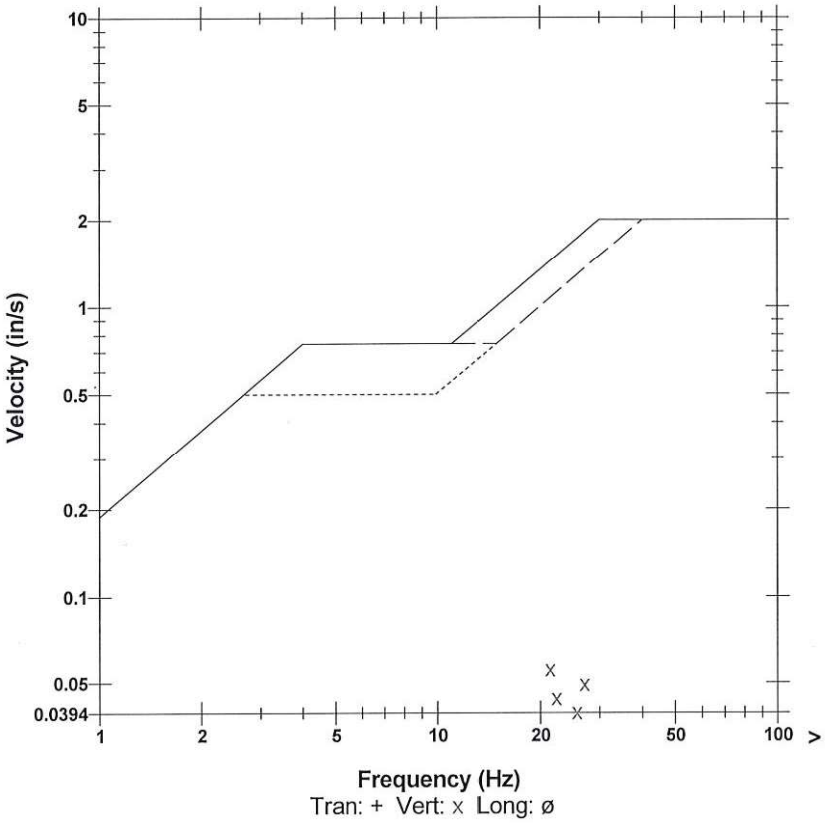
Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seis. Loc:	Roaming unit 2 - Loc 11 - Amami

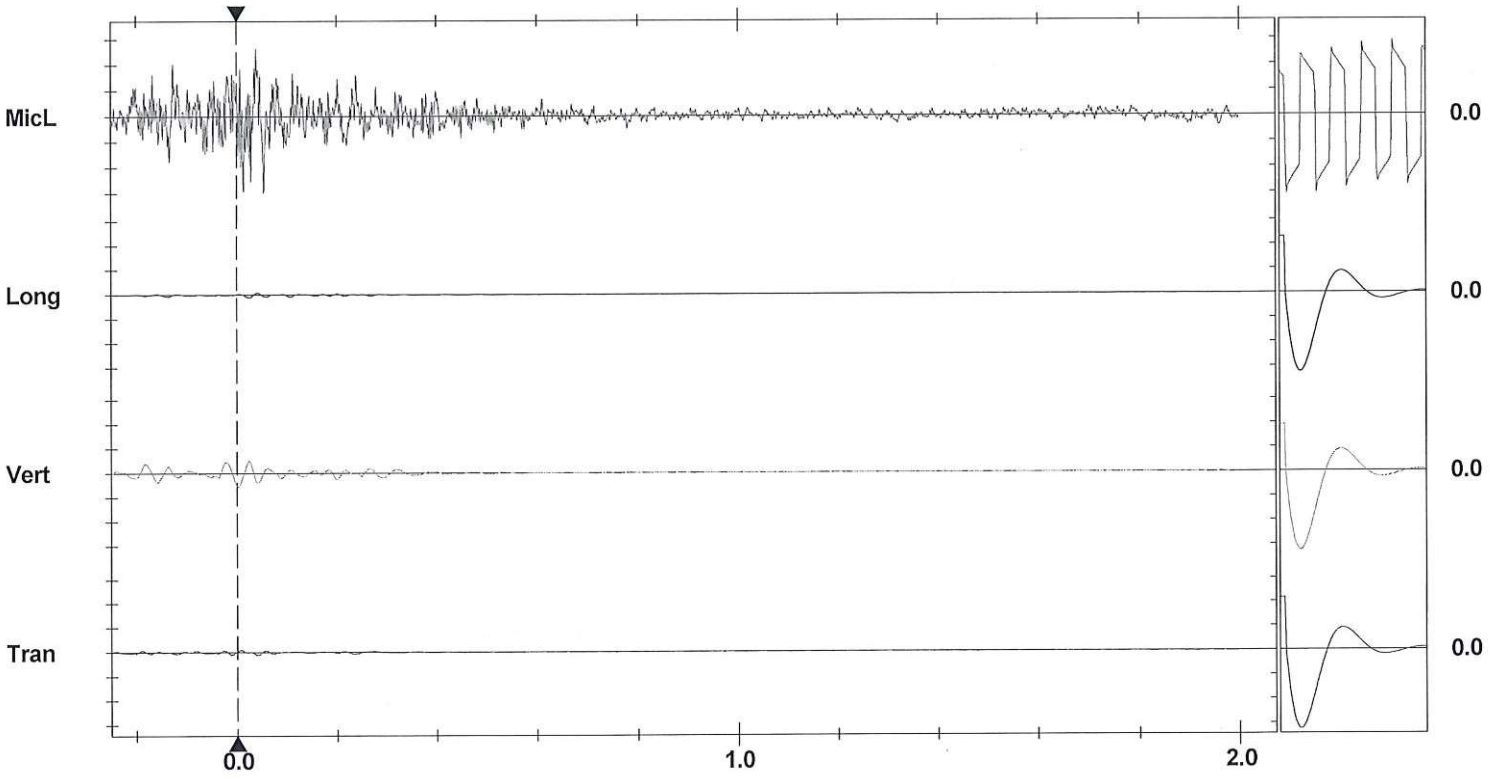
Microphone	Linear Weighting
PSPL	106.2 dB(L) at 0.054 sec
ZC Freq	47 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1282 mv)

	Tran	Vert	Long	
PPV	0.011	0.056	0.011	in/s
ZC Freq	26	21	26	Hz
Time (Rel. to Trig)	0.042	0.002	0.024	sec
Peak Acceleration	0.008	0.026	0.007	g
Peak Displacement	0.000	0.000	0.000	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	3.6	3.6	3.7	

Peak Vector Sum 0.056 in/s at 0.002 sec

USBM RI8507 And OSMRE





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.000 psi(L)/div

Trigger = ▶——◀

Sensor Check

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Event Report

Histogram Start Time	12:26:29 April 9, 2019
Histogram Finish Time	13:07:41 April 9, 2019
Number of Intervals	41.20 at 1 minute
Range	Geo:10.000 in/s
Sample Rate	1024sps
Operator/Setup:	Operator/TRAFFIC ROAM 2.MMB

Serial Number	UM11402 V 10-88 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	May 16, 2018 by Instantel
File Name	UM11402_20190409122629.IDFH

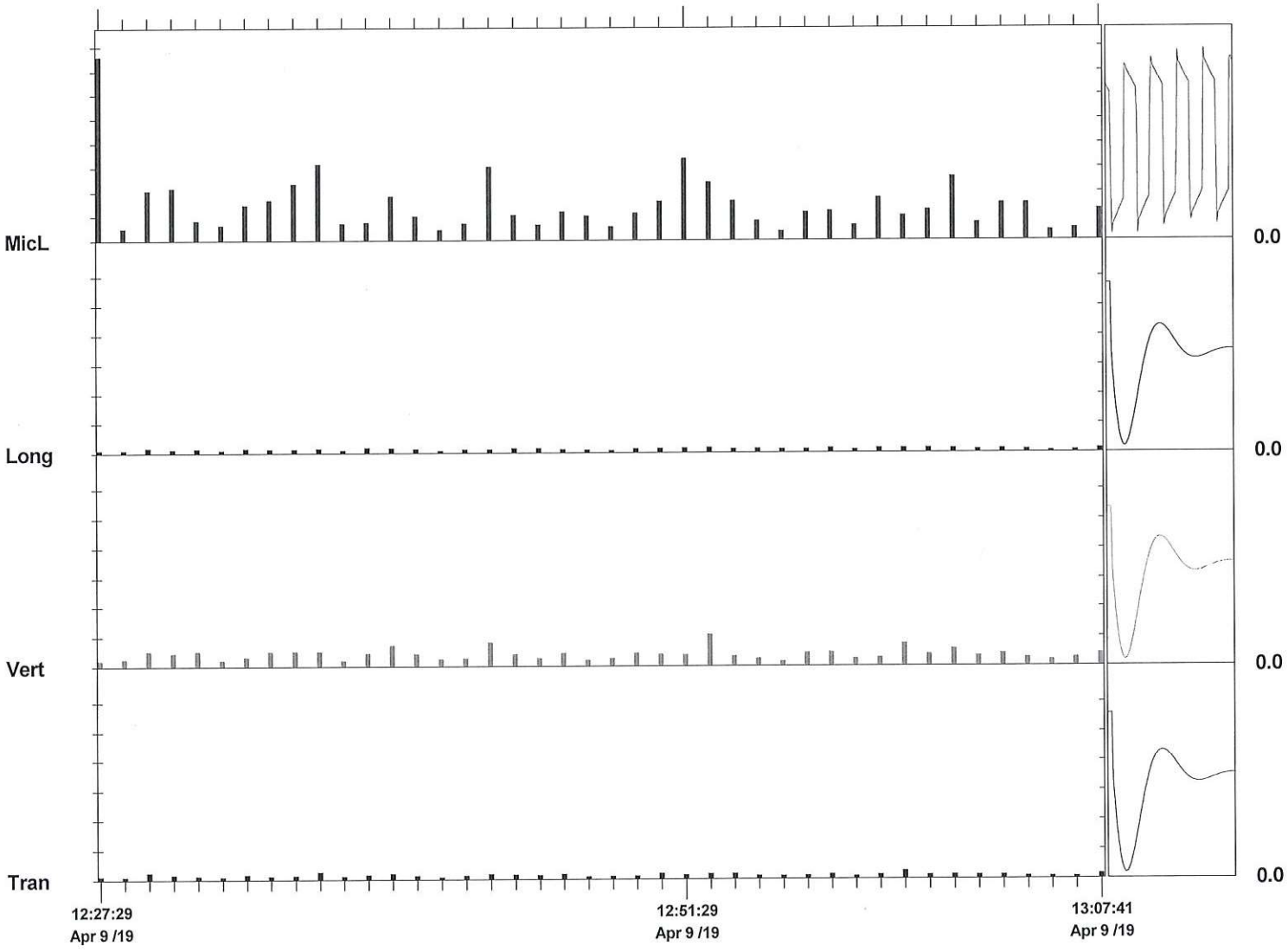
Notes

Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seis. Loc:	Roaming unit 2 - Loc 11 - Amami

Microphone	Linear Weighting
PSPL	122.3 dB(L) on April 9, 2019 at 12:27:29
ZC Freq	16 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1266 mv)

	Tran	Vert	Long	
PPV	0.013	0.052	0.009	in/s
ZC Freq	26	20	14	Hz
Date	Apr 9 /19	Apr 9 /19	Apr 9 /19	
Time	13:00:29	12:52:29	12:38:29	
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	3.6	3.6	3.7	

Peak Vector Sum 0.053 in/s on April 9, 2019 at 12:52:29



Time Scale: 1 minute /div **Amplitude Scale:** Geo: 0.0625 in/s/div Mic: 0.001 psi(L)/div Sensor Check

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Event Report

Date/Time	Vert at 12:52:13 April 9, 2019
Trigger Source	Geo: 0.050 in/s
Range	Geo: 10.000 in/s
Record Time	2.0 sec at 1024 sps
Operator/Setup:	Operator/TRAFFIC ROAM 2.MMB

Serial Number	UM11402 V 10-88 Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	May 16, 2018 by Instantel
File Name	UM11402_20190409125213.IDFW

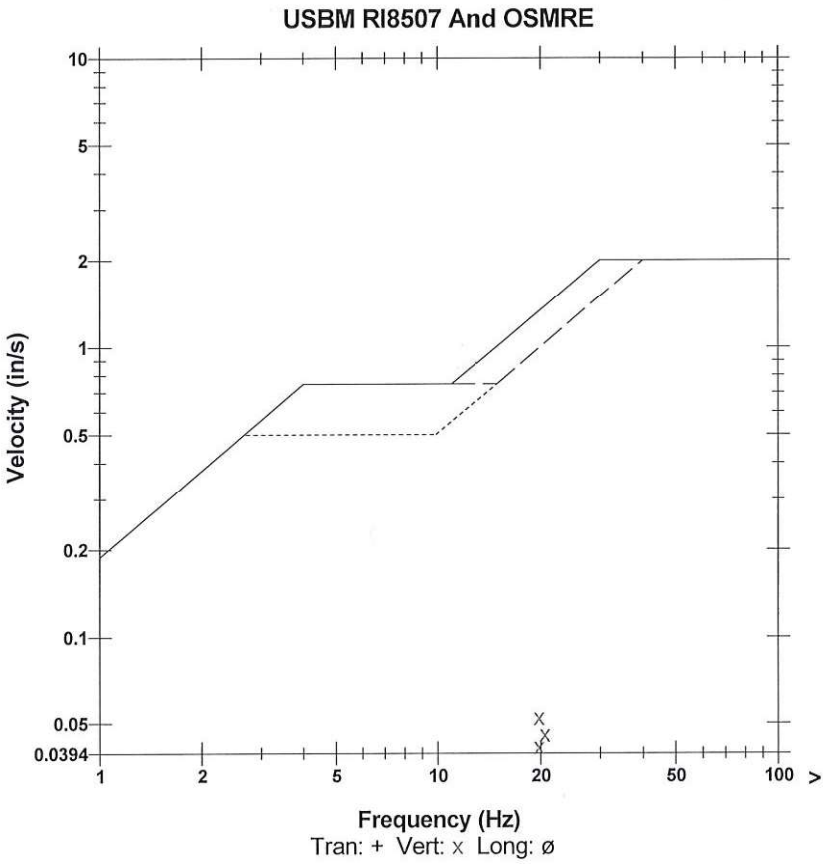
Notes

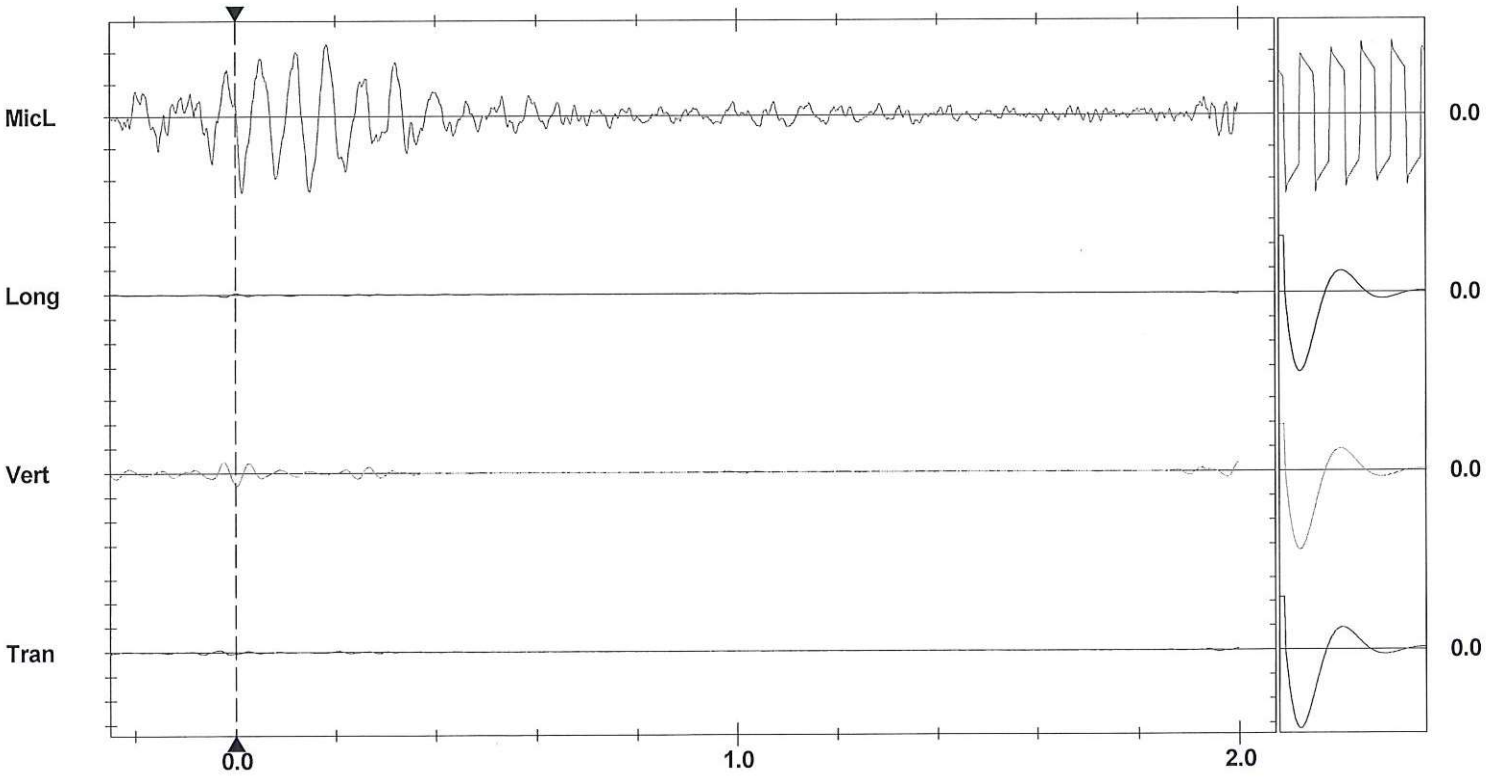
Project:	Lewisburg Corridor Study
Client:	Traffic Planning & Design/Lewisburg Boro
User Name:	Terra-Mechanics, Inc. - D Harrison
Seis. Loc:	Roaming unit 2 - Loc 11 - Amami

Microphone	Linear Weighting
PSPL	112.2 dB(L) at 0.013 sec
ZC Freq	18 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1266 mv)

	Tran	Vert	Long	
PPV	0.009	0.052	0.008	in/s
ZC Freq	18	20	13	Hz
Time (Rel. to Trig)	-0.032	0.001	-0.020	sec
Peak Acceleration	0.007	0.017	0.006	g
Peak Displacement	0.000	0.000	0.000	in
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	3.6	3.6	3.7	

Peak Vector Sum 0.053 in/s at 0.001 sec





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 0.100 in/s/div Mic: 0.001 psi(L)/div

Trigger = ▶———◀

Sensor Check

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Traffic Vibration & Noise Study
Part 2 – Representative Noise Level Report

NOISE LEVEL STUDY

Mr. Benjamin T. Guthrie, P.E.
Traffic Planning and Design, Inc.
1025 Andrew Drive
Suite 110
Chester, PA 19380

Re: Part 2 – Traffic Noise Level Report
Borough of Lewisburg – A Public Safety-Public Health, Environmental, and West Transportation "Corridor Study"
Market Street, Lewisburg, PA
TMI Project No. 2111-19
April 8, 9 and 10, 2019

Objectives and Procedure

- To compare and quantify representative sound levels along Market Street to other similar PennDOT projects and current standards.
- To obtain on-site representative sound level measurements at the ten (10) pre-determined monitoring locations.
- Arithmetically averaged LA_{eq}, LA_{01}, LA_{10} and LA_{Max} levels from each monitoring location for the following time periods: day (7 AM – 7, PM), evening (7PM – 10 PM) and night (10PM – 7 AM).
- In additional to the four (4) longer-duration data collection locations, additional samplings of traffic noise levels were also collected at other locations along the Market Street Corridor

Sound Level Measurements on April 8, 9, and 10, 2019

Location of Sound Level Measurements

Typically, on other similar projects such as a PennDOT project, there are specifications to collect pre-construction background (ambient) sound level (noise) measurements at nearby locations in the surrounding communities around the proposed work areas. These representative noise and background measurements can later be compared to any subsequent nearby community noise measurements as specified in the noise control specifications or codes. For this study, ten (10) Sound Level Monitoring stations were set up along Market Street in the surrounding community designated NRL-1 to NRL-10. These locations are summarized in Table 1 and shown in Figure 1.

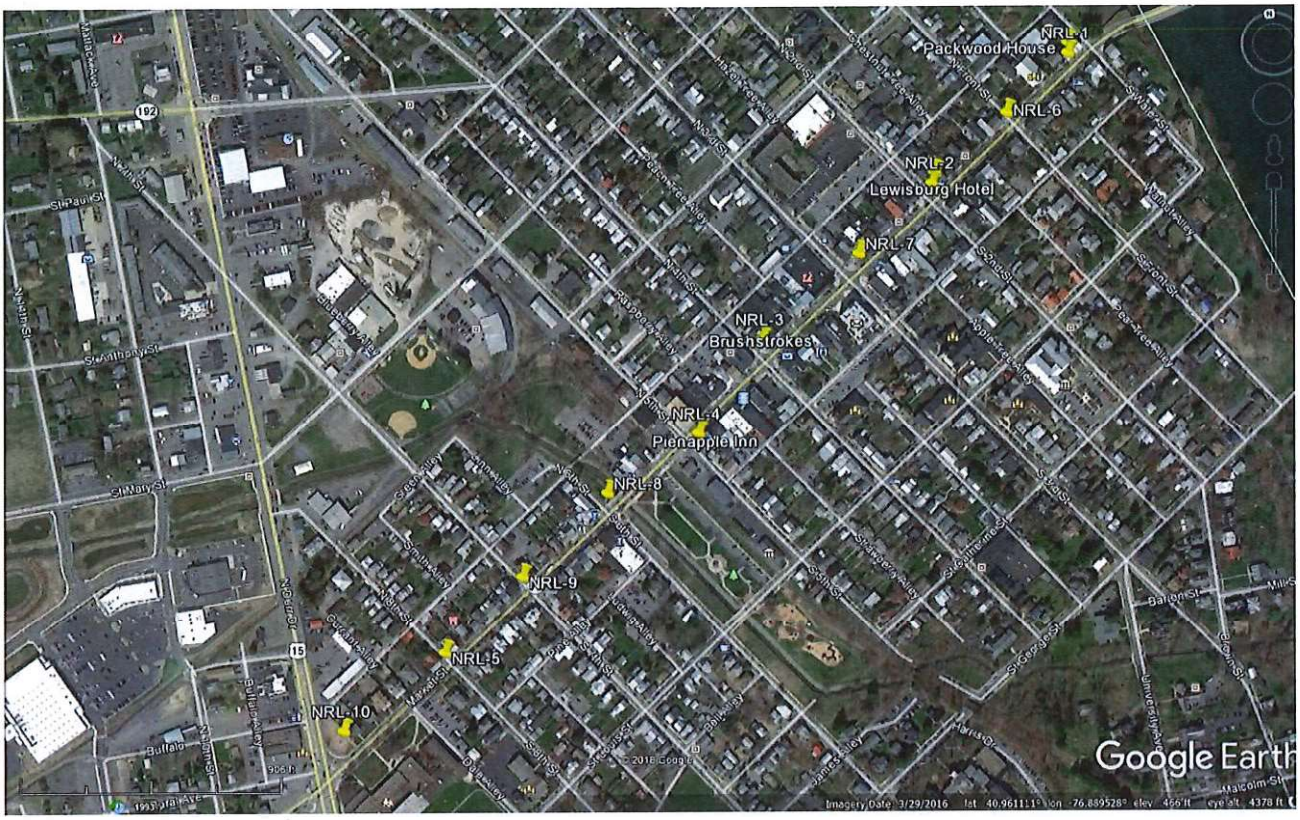
Table 1

Noise Monitor Locations

Noise Monitor Receptor Locations	
Station ID	**Location**
NRL-1	Market St. & N. Water St. Intersection - Southwest Corner of Packwood House
NRL-2	Market St. & N. 2nd St. Intersection - Southwest Corner of Lewisburg Hotel at 130 Market St.
NRL-3	Market St. & N. 4th St. Intersection - Southwest Corner of Brushstrokes Building at 340 Market St.
NRL-4	Market St. & S. 5th St. Intersection - Northwest Corner of Pineapple Inn at 439 Market St. – (This location was also in the Area for Loc 11)
NRL-5	Market St. & N. 8th St. Intersection - Southeast Corner of 800 Market St. house
NRL-6	Market St. & N. Front St. Intersection - Southeast Corner of 101 Market St House
NRL-7	Market St. & N. 3rd St. Intersection – South Face of Daisylace Boutique at 238 Market St.
NRL-8	Market St. & N. 6th St. Intersection – Northeast Corner of intersection
NRL-9	Market St. & N. 7th St. Intersection - Northwest Corner of 702 Market St.
NRL-10	Market St. & Route 15 Intersection – West Face of House at 838 Market St.
NRL-11	Market St. & N. 5th St. Intersection - Northwest Corner of Pineapple Inn at 439 Market St. – (This location in the vicinity of NRL 4 - See NRL 4 for data)

Figure 1

Project Site and Sound Level Monitoring Stations (NRL-1 to NRL-10) Location Plan



Sound Level Measurement Instrumentation, Observations and Procedures

Sound levels were measured for twelve (12) hour periods from 7 PM to 7 AM and 7 AM to 7 PM and April 8, 2019 until April 10, 2019 at location 1, 2, 3 and 5. Representative sound levels were measured for 1 hour periods at each station at locations 4, 6. 7, 8, 9, and 10. Interior representative sounds levels were measured at location 2A from 7 PM to 7 AM on April 9 to April 10, 2019. A listing of the time intervals for each station is located in the tables located in the appendix of this report.

Sound levels were measured using a Rion NL-31/32/52 SLM with a 1/2-inch pre-polarized condenser type UC-53A microphone, equipped with a windscreen. Calibration of the unit was performed by the supplier - SCANTEK, Incorporated of Columbia, Maryland. The Rion NL-31/32 is a Class 1 SLM that complies with the IEC/CDV 61672-1 standard. This instrument enabled detection of A-weighted sound levels in accordance with the applicable requirements, and parallel measurement of L_{eq}, L_{max}, L_{01}, and L_{10} levels. Sound levels were recorded in a dynamic range of 90 dB (30 – 120 dB), at a slow response time constant and a resolution of 15 minutes. A 1-minute recording resolution for recording periods of approximately 1 hour was utilized.

A representative inventory of the noise sources for each of the ten (10) locations was done for the background sound level measurements on April 8, 9 and 10, 2019, The L_{eq}, L_{max}, L_{01} and L_{10} sound levels were recorded for each time period and monitoring station. Each of these parameters was recorded on a time interval of ether 1 minute or 15 minutes. These results are summarized in Table 2.

Mixed commercial and residential properties were located throughout the central Pennsylvania small town urban landscape around the project area. The main traffic artery, State Route 45, Market Street, was orientated approximately northeast to southwest through the center of the project area. A dense network of secondary streets and alleys were located throughout the surrounding landscape. This streetscape tied together a mix of commercial and residential low-level buildings. In addition to the street layout, the northwest to southeast oriented rail line were located approximately parallel to 5th Street.

Many noise sources were present at these locations, some of which include traffic along main arteries and city streets, passing car stereos, frequent truck traffic, in frequent rail traffic, sirens from passing emergency vehicles, residential home improvement projects, crickets and various early spring insects. Traffic would slow, stop, idle and then start for traffic control lights along Market Street. Traffic queues were observed during the daytime between the intersections with traffic control light.

These noise sources sounded as a mixed combination of sounds within the urban environment. It should be noted that due to the large diversity and varying locations of overlapping noise sources, it was at times difficult to pinpoint a particular noise source.

Typical early spring weather conditions existed during the course of the sound measurements. Temperatures ranged in the upper 30's to middle 40's degrees Fahrenheit during the night to the lower 70's in the late afternoon, with mostly clear to partly cloudy skies. Wind speeds were approximately 14 or less miles per hour, except from 11 AM to 10 PM on April 9, 2019, when wind speeds occasionally gusted between approximately 15 to 35 mph.

Typically, PennDOT project Noise Control specifications state the allowable neighborhood noise levels change depending on the time. During the evening and nighttime (7 PM to 7 AM), the maximum allowable noise level (LA_{max}) is 80 to 85 dBA. While the LA_{10} sound limit is usually the background sound level +3 to 5 dBA.

Table 2
Evening (7 PM to 10 PM) LA_{max}, & Averaged LA_{eq} & LA_{10} Values and Sound Level Monitoring Stations

LA_{Max} & Averaged LA_{10} & LA_{eq} Values (dBA)				
Location	**Date Range**	**L_{max}**	**L_{10}**	**L_{eq}**
NRL-1	4/8	93.4	76.0	72.4
NRL-1	4/9	94.0	74.5	71.1
NRL-2	4/8	89.1	70.2	67.4
NRL-2	4/9	96.8	69.8	67.5
NRL-2A[1]	4/9	60.8	37.0	35.7
NRL-3	4/8	90.9	69.2	67.0
NRL-3	4/9	87.7	69.1	66.8
NRL-5	4/9	91.7	73.1	69.3

[1] Note: Interior location 130 Market Street – 2nd floor dining room window facing Market Street

Table 3
Night (10 PM to 7 AM) LA_{max}, & Averaged LA_{eq} & LA_{10} Values and Sound Level Monitoring Stations

LA_{Max} & Averaged LA_{10} & LA_{eq} (dBA)				
Location	**Date Range**	**L_{max}**	**L_{10}**	**L_{eq}**
NRL-1	4/8 – 4/9	94.7	72.9	70.6
NRL-1	4/9 – 4/10	94.5	72.1	70.0
NRL-2	4/8 – 4/9	94.5	69.1	66.6
NRL-2	4/9 – 4/10 [1]	86.4	67.6	64.6
NRL-2A[2]	4/9 – 4/10 [2]	62.5	34.4	32.5
NRL-3	4/8 – 4/9	88.4	67.9	65.4
NRL-3	4/8 – 4/9	88.4	67.9	65.4
NRL-3	4/9 – 4/10	89.4	67.6	65.7
NRL-5	4/8 – 4/9	92.3	69.4	67.8

[1] Note: Partial Night of Data collection – no data available from 12:24 AM through 7:00 AM

[2] Note: Interior location 130 Market Street – 2nd floor dining room window facing Market Street

Table 4
Daytime (7 AM to 7 PM) LA_{max}, & Averaged LA_{eq} & LA_{10} Values and Sound Level Monitoring Stations

LA_{Max} & Averaged LA_{10} & LA_{eq} & Values (dBA)				
Location	**Date Range**	**L_{max}**	**L_{10}**	**L_{eq}**
NRL-1	4/9 [1]	99.6	78.3	75.2
NRL-2	4/9	110.9	74.9	72.0
NRL-3	4/9	91.0	74.1	70.6
NRL-5	4/9 [2]	96.3	75.6	72.3

[1] Note: Partial Day of Data collection – no data available from 2:55 PM until 6:10 PM

[2] Note: Partial Day of Data collection – no data available from 6:28 PM until 7:00 PM

Table 5
1-hour Representative Sampling Locations - Daytime - LA_{max}, & Averaged LA_{eq} & LA_{10} Values and Sound Level Monitoring Stations

LA_{Max} & Averaged LA_{10} & LA_{eq} (dBA)				
Location	**Date Range**	**L_{max}**	**L_{10}**	**L_{eq}**
NRL-4	4/10	103.8	72.4	68.5
NRL-6	4/9	85.3	73.3	70.0
NRL-7	4/9	90.3	74.4	70.4
NRL-8	4/9	84.6	70.6	67.0
NRL-9	4/9	91.9	72.4	68.9
NRL-10	4/9	91.8	71.3	68.6

Summary

Overall, for the four (4) longer duration and the overnight data collection periods, the L_{max} levels were quite high and were overall much higher that most of the PennDOT ambient background construction studies we have worked on in the past. The L_{10} levels were also higher than many of the previous PennDOT background studies we have worked on. For example, on a recent PennDOT project, the L_{10} levels were in the range of 64.7 to 76.9 for the 7PM to 10PM period or approximately 7-11 % less than in the Market Street study and for the 10PM to & 7AM period the levels were around 55.2 or 19-24% less. For the same comparison study L_{max} level was 91.7 or 18% less than the maximum L_{max} for the Market Street study. The noise levels in this study were for the most part much higher that typically observed for a PennDOT construction project ambient background study.

Also, it appears that for the structures in this study, the noise levels appear to be causing some noise induced vibrations inside the buildings. One example of this appears to be for 130 Market Street location, second floor – we observed vibration readings of 0.052 in/sec and 0.050 in/sec, refer to the appendix – event reports for 4/13/19 and 4/14/19.

Limitations

The sound level measurements taken under this agreement and reported herein were conducted in accordance with current standards of the industry. TMI does not warrant that noise complaints to premise being monitored will not occur, even when readings indicate noise levels below normally accepted values.

We have endeavored to provide the professional services as reported herein in accordance with generally accepted geoscience practices, and make no warranties, either express or implied, as to the services provided under the terms of this agreement and included in this report.

This report is based upon information collected to date and on the original scope developed. We reserve the right to revise this report if additional information becomes available.

Sincerely,

TERRA-MECHANICS, INC.

Dale Bartholomae
Senior Staff Scientist

David Harrison
Vice President/Chief Operating officer
Seismic & Explosive Engineer
B.S. Mining Engineering

Appendices:

A) Sound Meter Calibration Certificates (4 Sheets)
B) Time Interval Sound Level Measurement Tables & Charts (57 Sheets)
C) Noise Recording Locations (NRL1-10) – Sketch/Plan (4 Sheets)

APPENDIX A

N-31/32 Sound Meter Calibration Certificates
(4 Sheets)

NRL 1

Scantek, Inc.
CALIBRATION LABORATORY
ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.40811

Instrument: **Sound Level Meter**
Model: **NL32**
Manufacturer: **Rion**
Serial number: **00982794**
Tested with: **Microphone UC53A s/n 314832**
Preamplifier NH21 s/n 28501
Type (class): **1**
Customer: **Terra-Mechanics, Inc.**
Tel/Fax: **724-449-6250 / 724-449-6254**

Date Calibrated: **5/30/2018** *Cal Due:*

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: __Yes _X_ No
Calibration service: __ Basic _X_ Standard
Address: **1339 Middle Road Ext, Suite A**
Gibsonia, PA 15044

Tested in accordance with the following procedures and standards:
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
21.1	100.11	51.7

Calibrated by:	Jeremy Gotwalt	**Authorized signatory:**	Steven E. Marshall
Signature		Signature	
Date	5/30/18	Date	

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

NRL 2

Scantek, Inc.
CALIBRATION LABORATORY
ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.40598

Instrument: **Sound Level Meter**
Model: **NL32**
Manufacturer: **Rion**
Serial number: **01161900**
Tested with: **Microphone UC53A s/n 311130**
Preamplifier NH21 s/n 21933
Type (class): **1**
Customer: **Terra-Mechanics, Inc.**
Tel/Fax: **724-449-6250 / 724-449-6254**

Date Calibrated: **4/20/2018** *Cal Due:* **4/20/2019**

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: __Yes X No
Calibration service: __ Basic X Standard
Address: **1339 Middle Road Ext, Suite A**
Gibsonia, PA 15044

Tested in accordance with the following procedures and standards:
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
23.6	100.95	39.7

Calibrated by:	Jeremy Gotwalt	Authorized signatory:	Steven E. Marshall
Signature		Signature	
Date	4/20/18	Date	4/23/2018

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.
Document stored Z:\Calibration Lab\SLM 2018\RIONL32_01161900_M1.doc

NRL 3

Scantek, Inc.
CALIBRATION LABORATORY
ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.40596

Instrument: **Sound Level Meter**
Model: **NL32**
Manufacturer: **Rion**
Serial number: **00282514**
Tested with: **Microphone UC53A s/n 313875**
Preamplifier NH21 s/n 26713
Type (class): **1**
Customer: **Terra-Mechanics, Inc.**
Tel/Fax: **724-449-6250 / 724-449-6254**

Date Calibrated: **4/20/2018** *Cal Due:* **4/20/2019**

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: __Yes _X_ No
Calibration service: __ Basic _X_ Standard
Address: **1339 Middle Road Ext, Suite A**
Gibsonia, PA 15044

Tested in accordance with the following procedures and standards:
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
23.2	100.96	41.0

Calibrated by:	Jeremy Gotwalt	**Authorized signatory:**	Steven E. Marshall
Signature	Jeremy Gotwalt	Signature	Steven E Marshall
Date	4/20/18	Date	4/22/2018

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.
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Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.42678

Instrument: **Sound Level Meter**
Model: **NL52**
Manufacturer: **Rion**
Serial number: **01021297**
Tested with: **Microphone UC59 s/n 04427**
Preamplifier NH25 s/n 21339
Type (class): **1**
Customer: **Scantek, Inc.**
Tel/Fax: **410-290-7726 / 410-290-9167**

Date Calibrated: **4/11/2019** *Cal Due:* **4/11/2020**

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: __Yes _X_ No
Calibration service: __ Basic _X_ Standard
Address: **6430 Dobbin Road, Suite C, Columbia, MD 21045**

Tested in accordance with the following procedures and standards:
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 31, 2018	Scantek, Inc./ NVLAP	Oct 31, 2019
DS-360-SRS	Function Generator	33584	Oct 24, 2017	ACR Env./ A2LA	Oct 24, 2019
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Oct 1, 2018	ACR Env. / A2LA	Oct 1, 2019
HM30-Thommen	Meteo Station	1040170/39633	Nov 13, 2018	ACR Env./ A2LA	Nov 13, 2019
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 11, 2018	Scantek, Inc./ NVLAP	Nov 11, 2019

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
22.6	100.56	51.8

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	Steven E. Marshall
Signature	Lydon Dawkins	Signature	Steven E Marshall
Date	4/11/2019	Date	4/11/2019

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

APPENDIX B

Tables & Charts
(57 Sheets)

NRL 1-10

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 1 - N. Water St. & Market St. - Packwood House at South West Corner of Bldg.

Evening & Night - 4-8-19 to 4-9-19 - 15 Minute Time Intervals

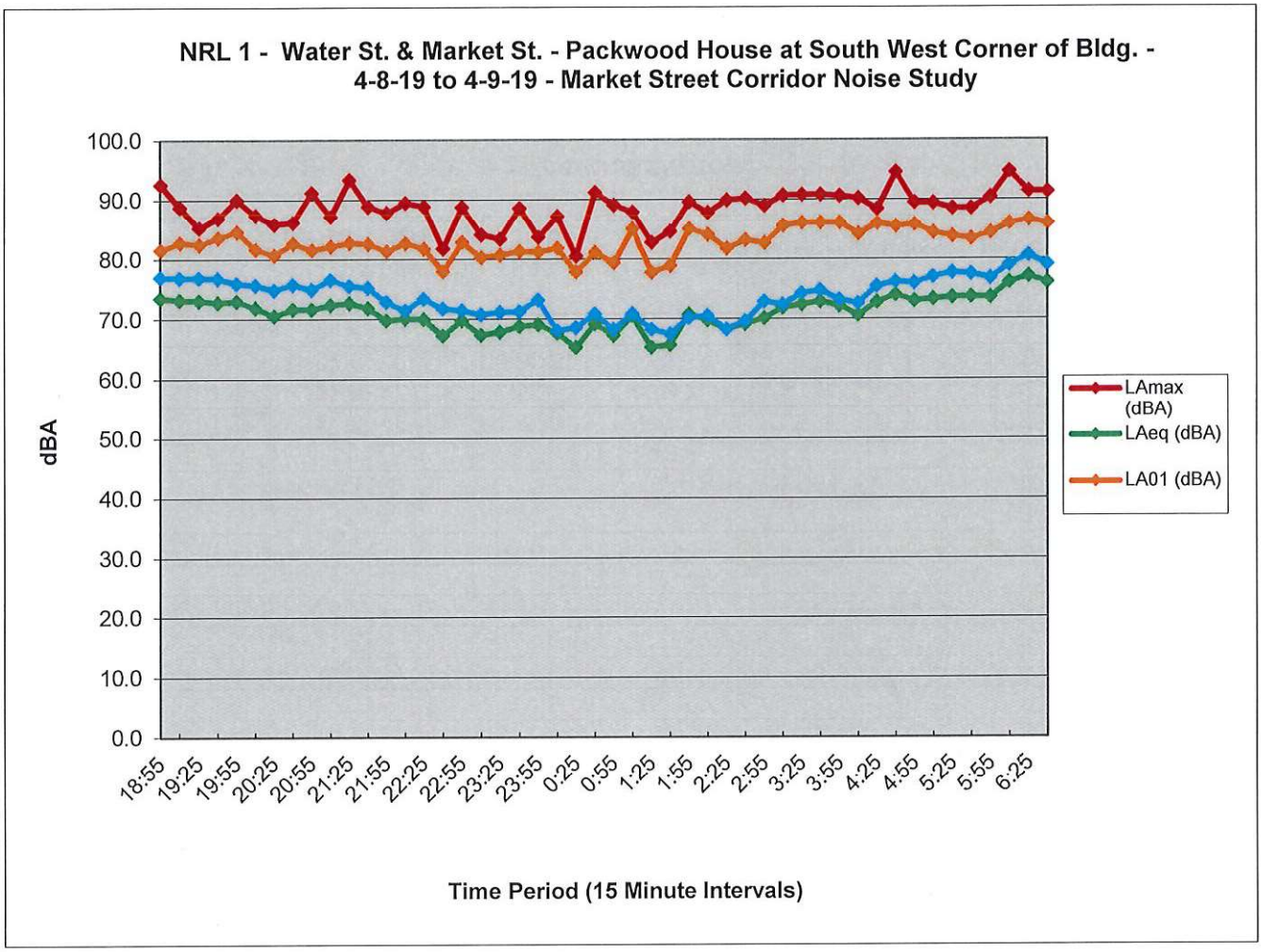
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/8/19	18:55	73.5	92.6	81.6	77.0	loud auto or motorcycle
2	4/8/19	19:10	73.2	88.8	82.8	76.9	
3	4/8/19	19:25	73.1	85.3	82.5	76.9	
4	4/8/19	19:40	72.8	86.9	83.6	76.8	
5	4/8/19	19:55	73.0	90.0	84.6	76.0	loud auto or motorcycle
6	4/8/19	20:10	71.9	87.4	81.7	75.7	
7	4/8/19	20:25	70.6	85.9	80.7	74.9	
8	4/8/19	20:40	71.7	86.2	82.7	75.8	
9	4/8/19	20:55	71.7	91.2	81.6	75.0	loud auto, diesel vehicles
10	4/8/19	21:10	72.4	87.2	82.2	76.6	
11	4/8/19	21:25	72.7	93.4	82.8	75.6	loud auto, motorcycle
12	4/8/19	21:40	71.9	88.9	82.6	75.3	
13	4/8/19	21:55	69.8	87.8	81.4	72.9	
14	4/8/19	22:10	70.1	89.5	82.7	71.5	noisey auto, diesel vehicles
15	4/8/19	22:25	70.0	88.9	81.8	73.4	
16	4/8/19	22:40	67.3	81.8	78.0	71.8	
17	4/8/19	22:55	69.8	88.8	82.9	71.5	
18	4/8/19	23:10	67.4	84.1	80.3	70.8	
19	4/8/19	23:25	67.9	83.4	80.7	71.2	
20	4/8/19	23:40	68.8	88.6	81.3	71.3	
21	4/8/19	23:55	69.1	83.7	81.2	73.2	
22	4/9/19	0:10	67.7	87.2	81.9	68.1	
23	4/9/19	0:25	65.3	80.5	77.9	68.6	
24	4/9/19	0:40	69.2	91.2	81.1	70.9	motorcycle, diesel vehicles
25	4/9/19	0:55	67.3	89.1	79.4	68.3	
26	4/9/19	1:10	70.6	87.9	85.1	70.9	
27	4/9/19	1:25	65.3	82.8	77.8	68.3	
28	4/9/19	1:40	65.7	84.6	78.9	67.5	
29	4/9/19	1:55	70.8	89.6	85.1	70.2	throughout recording period:
30	4/9/19	2:10	69.8	87.8	84.1	70.5	passing automobiles and diesel
31	4/9/19	2:25	68.3	89.9	81.8	68.3	vehicles, at times in groups
32	4/9/19	2:40	69.2	90.2	83.2	69.6	
33	4/9/19	2:55	70.1	89.0	82.7	72.9	
34	4/9/19	3:10	71.9	90.7	85.6	72.4	
35	4/9/19	3:25	72.4	90.8	86.1	74.3	
36	4/9/19	3:40	72.9	90.8	86.1	74.8	
37	4/9/19	3:55	72.2	90.6	86.1	73.2	
38	4/9/19	4:10	70.7	90.2	84.2	72.6	
39	4/9/19	4:25	72.8	88.4	86.0	75.5	
40	4/9/19	4:40	74.0	94.6	85.5	76.2	loud auto or motorcycle
41	4/9/19	4:55	73.0	89.5	85.8	76.0	
42	4/9/19	5:10	73.3	89.4	84.4	77.0	
43	4/9/19	5:25	73.6	88.5	83.8	77.7	
44	4/9/19	5:40	73.7	88.5	83.4	77.5	

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 1 - N. Water St. & Market St. - Packwood House at South West Corner of Bldg.

Evening & Night - 4-8-19 to 4-9-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	5:55	73.6	90.4	84.4	76.8	
46	4/9/19	6:10	76.1	94.7	86.0	79.0	loud auto
47	4/9/19	6:25	77.1	91.4	86.6	80.6	
48	4/9/19	6:40	76.1	91.3	86.0	79.1	

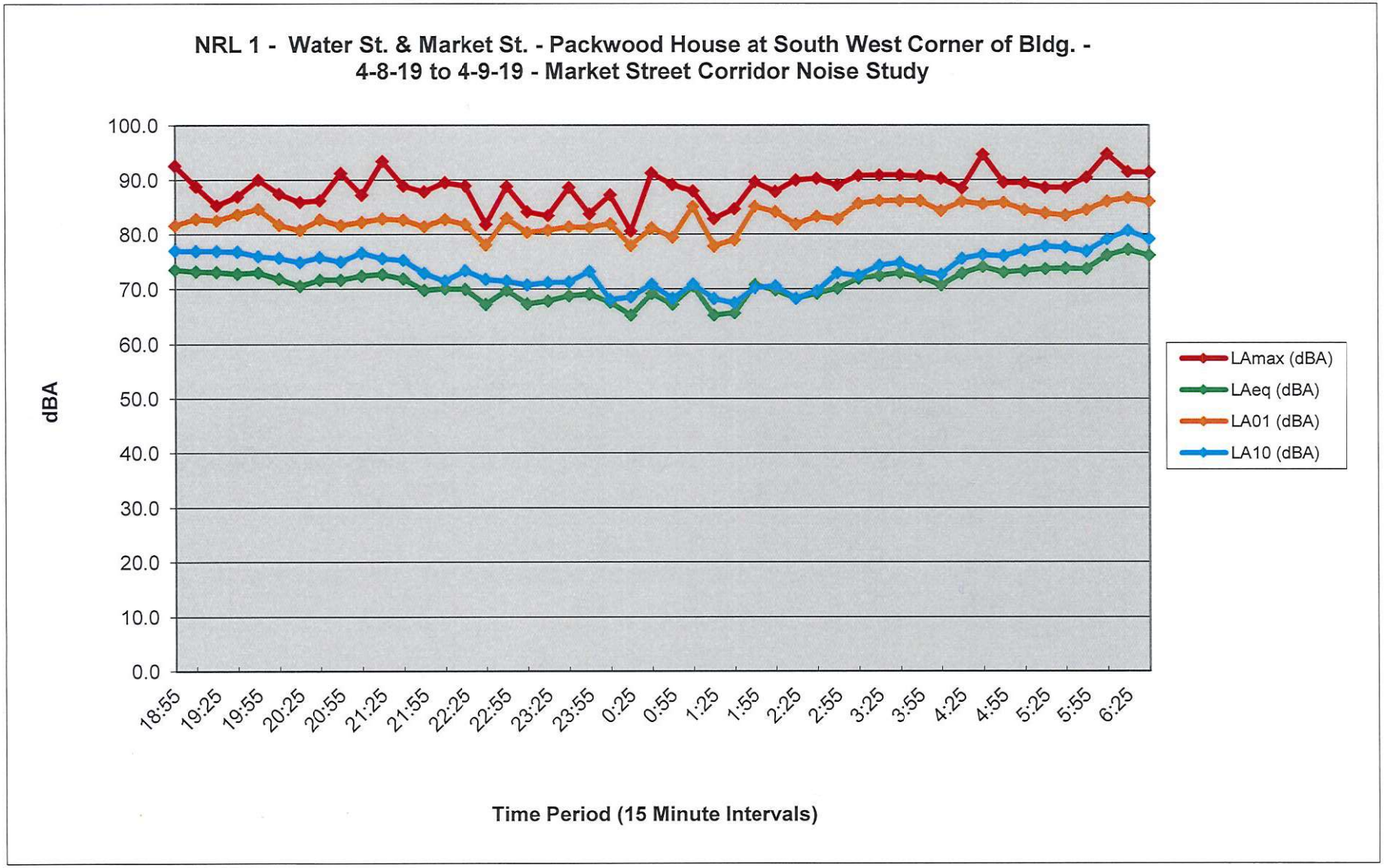


Evening 1900 - 2200		
LAeq Average	72.4	dBA
LAmax Average	88.7	dBA
LAmax	93.4	dBA
LA01 Average	82.5	dBA
LA10 Average	76.0	dBA

Night 2200 - 0700		
LAeq Average	70.6	dBA
LAmax Average	88.5	dBA
LAmax	94.7	dBA
LA01 Average	83.0	dBA
LA10 Average	72.9	dBA

Combined 1900-0700		
LAeq Average	71.1	dBA
LAmax Average	88.5	dBA
LAmax	94.7	dBA
LA01 Average	82.9	dBA
LA10 Average	73.7	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals


NRL 1 - Water St. & Market St. - Packwood House at South West Corner of Bldg. -
4-8-19 to 4-9-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
18:55
19:25
19:55
20:25
20:55
21:25
21:55
22:25
22:55
23:25
23:55
0:25
0:55
1:25
1:55
2:25
2:55
3:25
3:55
4:25
4:55
5:25
5:55
6:25
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (15 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 1 - N. Water St. & Market St. - Packwood House at South West Corner of Bldg.

Evening & Night - 4-9-19 to 4-10-19 - 15 Minute Time Intervals

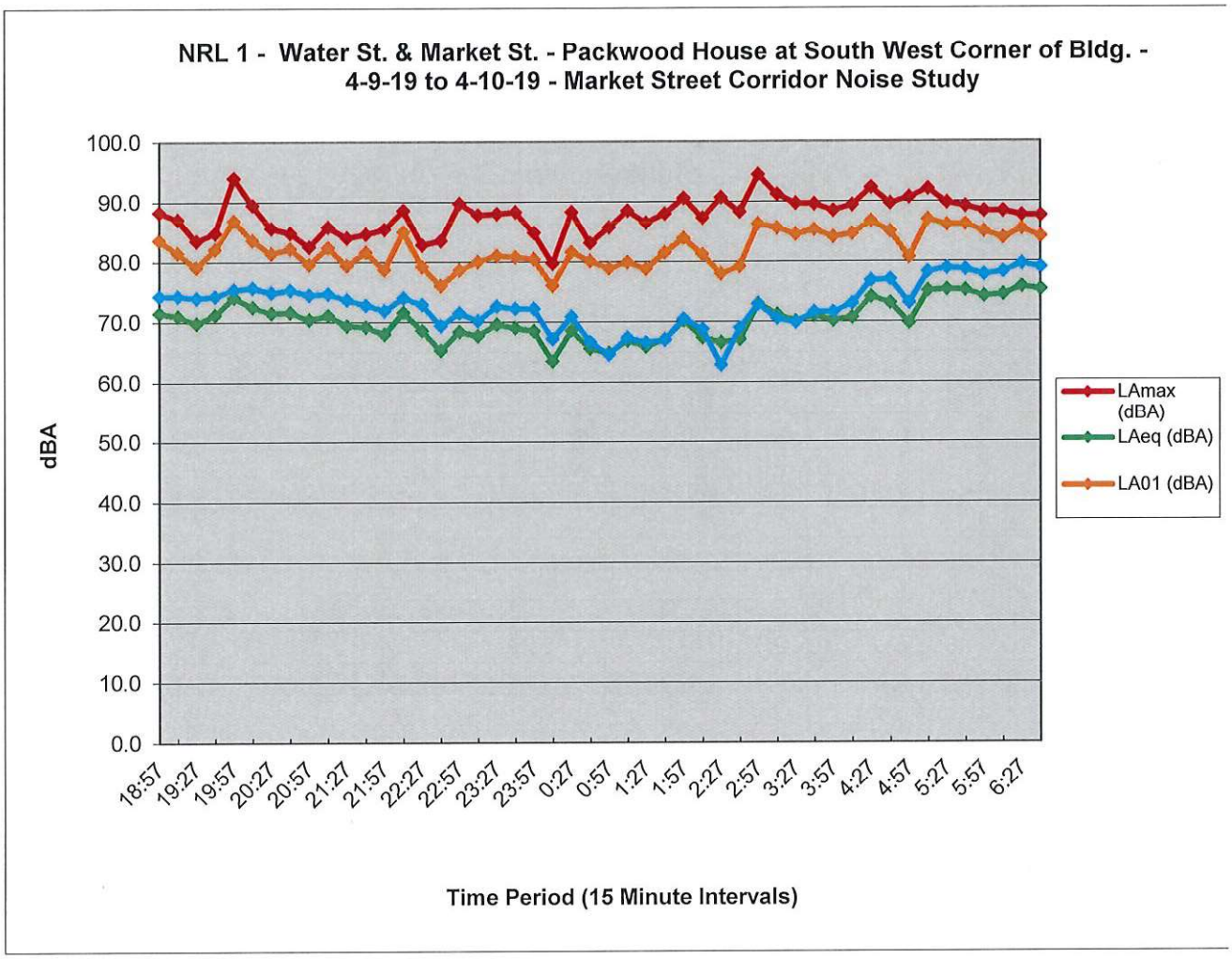
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	18:57	71.5	88.3	83.6	74.3	
2	4/9/19	19:12	71.0	87.1	81.5	74.3	
3	4/9/19	19:27	69.8	83.5	79.1	74.0	
4	4/9/19	19:42	71.2	84.8	82.1	74.3	
5	4/9/19	19:57	74.1	94.0	86.9	75.4	loud car, auto & truck traffic
6	4/9/19	20:12	72.5	89.5	83.6	75.7	
7	4/9/19	20:27	71.5	85.6	81.4	74.9	
8	4/9/19	20:42	71.6	84.8	82.2	75.3	
9	4/9/19	20:57	70.4	82.5	79.6	74.5	
10	4/9/19	21:12	71.1	85.8	82.4	74.7	
11	4/9/19	21:27	69.4	84.0	79.4	73.7	
12	4/9/19	21:42	69.2	84.6	81.6	72.8	
13	4/9/19	21:57	68.0	85.4	78.7	71.9	
14	4/9/19	22:12	71.6	88.6	85.0	74.0	
15	4/9/19	22:27	68.6	82.8	79.2	72.9	
16	4/9/19	22:42	65.3	83.5	76.0	69.4	
17	4/9/19	22:57	68.4	89.7	78.6	71.5	motorcycle or car, auto & truck traffic
18	4/9/19	23:12	67.7	87.8	80.0	70.2	
19	4/9/19	23:27	69.6	88.0	81.0	72.6	
20	4/9/19	23:42	69.0	88.3	80.8	72.2	
21	4/9/19	23:57	68.5	84.8	80.4	72.2	
22	4/10/19	0:12	63.5	79.7	76.0	67.2	
23	4/10/19	0:27	68.6	88.3	81.6	70.9	
24	4/10/19	0:42	65.6	83.1	80.1	66.7	
25	4/10/19	0:57	64.9	85.7	78.9	64.6	
26	4/10/19	1:12	66.9	88.5	79.9	67.4	
27	4/10/19	1:27	65.9	86.5	78.8	66.6	
28	4/10/19	1:42	67.1	88.0	81.5	67.0	
29	4/10/19	1:57	70.2	90.6	83.9	70.5	auto & truck traffic
30	4/10/19	2:12	67.4	87.3	81.2	68.8	
31	4/10/19	2:27	66.6	90.7	78.0	62.9	auto & truck traffic
32	4/10/19	2:42	67.1	88.3	79.2	69.0	
33	4/10/19	2:57	73.0	94.5	86.3	72.9	auto & truck traffic
34	4/10/19	3:12	71.2	91.2	85.6	70.6	auto & truck traffic
35	4/10/19	3:27	70.1	89.7	84.5	69.9	
36	4/10/19	3:42	71.0	89.6	85.3	71.6	
37	4/10/19	3:57	70.2	88.5	84.1	71.6	
38	4/10/19	4:12	70.7	89.4	84.6	73.0	
39	4/10/19	4:27	74.1	92.3	86.7	76.8	loud car or motorcycle, traffic
40	4/10/19	4:42	73.1	89.7	85.0	77.0	
41	4/10/19	4:57	69.8	90.7	80.7	73.1	
42	4/10/19	5:12	75.1	92.1	87.0	78.3	auto & truck traffic
43	4/10/19	5:27	75.3	89.8	86.1	78.9	
44	4/10/19	5:42	75.2	89.2	86.2	78.7	

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 1 - N. Water St. & Market St. - Packwood House at South West Corner of Bldg.

Evening & Night - 4-9-19 to 4-10-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/10/19	5:57	74.2	88.4	85.0	77.8	
46	4/10/19	6:12	74.5	88.4	83.9	78.3	
47	4/10/19	6:27	75.8	87.7	85.4	79.6	
48	4/10/19	6:42	75.3	87.6	84.1	79.0	

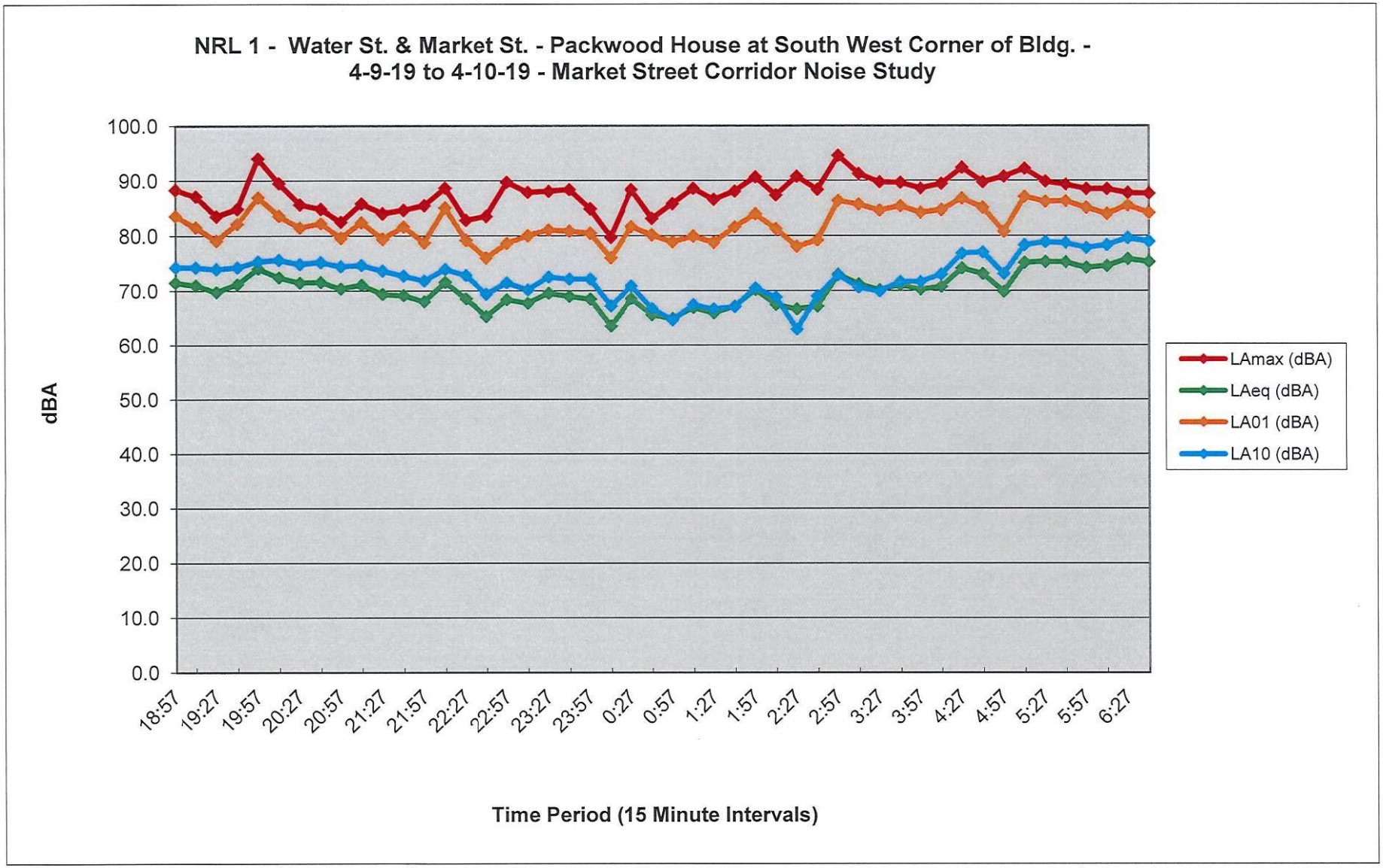


Evening 1900 - 2200		
LAeq Average	71.1	dBA
LAmax Average	86.2	dBA
LAmax	94.0	dBA
LA01 Average	82.0	dBA
LA10 Average	74.5	dBA

Night 2200 - 0700		
LAeq Average	70.0	dBA
LAmax Average	88.2	dBA
LAmax	94.5	dBA
LA01 Average	82.2	dBA
LA10 Average	72.1	dBA

Combined 1900-0700		
LAeq Average	70.3	dBA
LAmax Average	87.7	dBA
LAmax	94.5	dBA
LA01 Average	82.1	dBA
LA10 Average	72.7	dBA

Note: Averages are calculated by determining the arithmatic average for each specified range of time intervals


NRL 1 - Water St. & Market St. - Packwood House at South West Corner of Bldg. -
4-9-19 to 4-10-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
18:57
19:27
19:57
20:27
20:57
21:27
21:57
22:27
22:57
23:27
23:57
0:27
0:57
1:27
1:57
2:27
2:57
3:27
3:57
4:27
4:57
5:27
5:57
6:27
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (15 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 1 - N. Water St. & Market St. - Packwood House at South West Corner of Bldg.

Daytime - 4-9-19 - 15 Minute Time Intervals

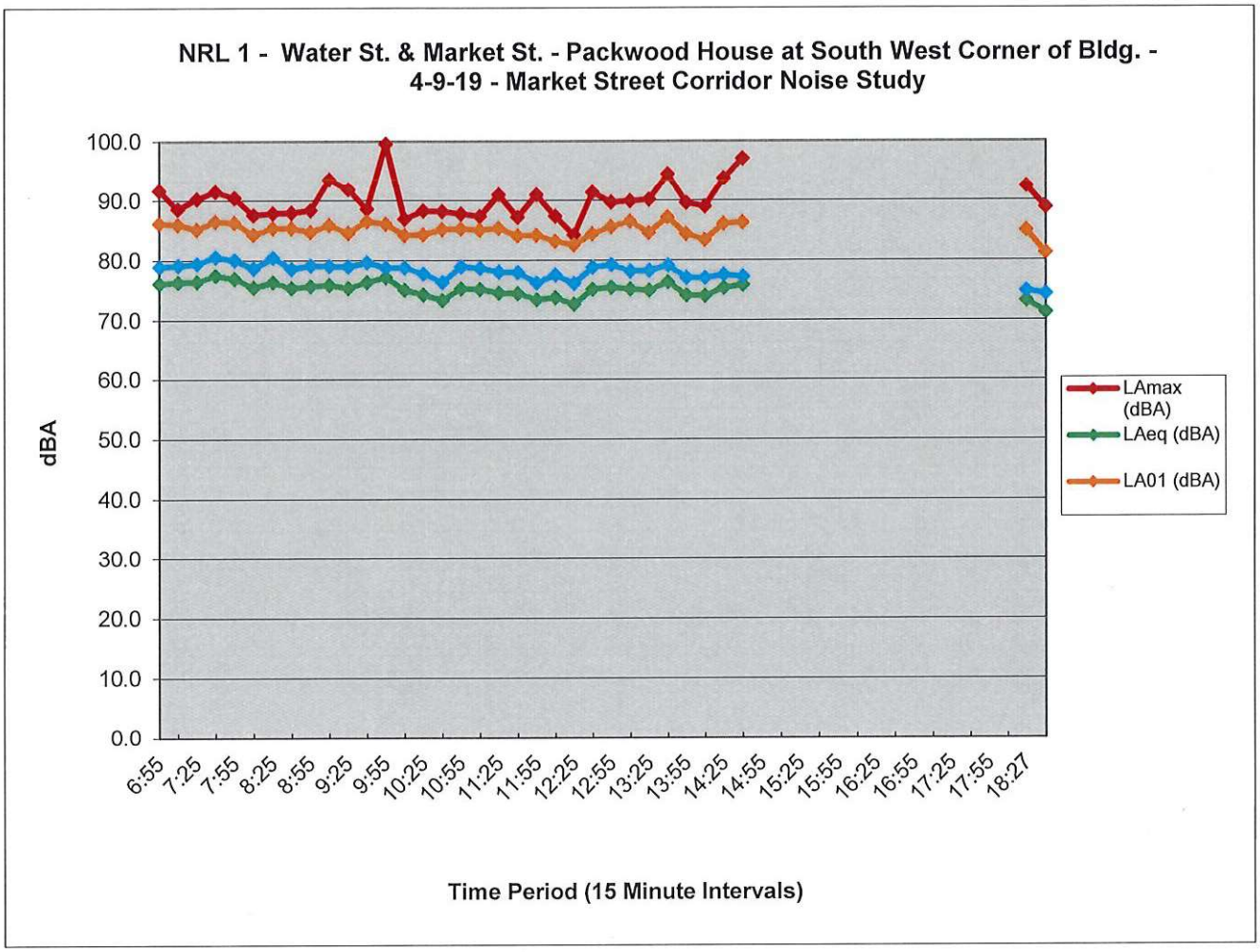
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	6:55	76.2	91.7	86.2	79.0	
2	4/9/19	7:10	76.4	88.6	86.0	79.2	
3	4/9/19	7:25	76.5	90.3	85.2	79.5	auto & truck traffic
4	4/9/19	7:40	77.5	91.5	86.5	80.6	loud car or motorcycle, truck accelerate
5	4/9/19	7:55	77.0	90.5	86.3	80.1	air brake hiss, loud car or motorcycle
6	4/9/19	8:10	75.5	87.6	84.3	78.7	
7	4/9/19	8:25	76.4	87.9	85.4	80.5	
8	4/9/19	8:40	75.4	88.0	85.4	78.6	
9	4/9/19	8:55	75.7	88.4	84.8	79.2	
10	4/9/19	9:10	75.9	93.6	85.9	79.1	air brake hiss, auto & truck traffic
11	4/9/19	9:25	75.4	91.9	84.6	79.0	auto & truck traffic, motorcycle
12	4/9/19	9:40	76.4	88.6	86.5	79.7	
13	4/9/19	9:55	77.2	99.6	86.1	78.8	motorcycle, auto & truck traffic
14	4/9/19	10:10	75.1	86.9	84.2	78.8	
15	4/9/19	10:25	74.3	88.3	84.3	77.8	
16	4/9/19	10:40	73.4	88.2	85.2	76.4	
17	4/9/19	10:55	75.3	87.8	85.3	79.0	
18	4/9/19	11:10	75.2	87.4	85.1	78.7	
19	4/9/19	11:25	74.6	91.0	85.4	78.1	door slam and auto horn
20	4/9/19	11:40	74.5	87.2	84.1	78.0	
21	4/9/19	11:55	73.5	91.0	84.2	76.3	alarm chrp, door slam, loud car
22	4/9/19	12:10	73.8	87.4	83.2	77.6	
23	4/9/19	12:25	72.7	84.2	82.6	76.2	
24	4/9/19	12:40	75.2	91.4	84.4	78.9	
25	4/9/19	12:55	75.5	89.7	85.6	79.3	bus or truck brake squeal then accelerate
26	4/9/19	13:10	75.2	89.9	86.5	78.2	
27	4/9/19	13:25	75.0	90.2	84.6	78.3	auto & truck traffic
28	4/9/19	13:40	76.4	94.5	87.2	79.2	several mototcycles or loud cars
29	4/9/19	13:55	74.2	89.6	84.4	77.1	
30	4/9/19	14:10	74.1	89.0	83.4	77.1	
31	4/9/19	14:25	75.4	93.8	86.1	77.6	auto & truck traffic
32	4/9/19	14:40	75.9	97.1	86.3	77.3	tire squeel?, traffic, equip. maint.
33	4/9/19	14:55					No Data Collection During This Period
34	4/9/19	15:10					
35	4/9/19	15:25					
36	4/9/19	15:40					
37	4/9/19	15:55					
38	4/9/19	16:10					
39	4/9/19	16:25					
40	4/9/19	16:40					
41	4/9/19	16:55					
42	4/9/19	17:10					
43	4/9/19	17:25					
44	4/9/19	17:40					

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 1 - N. Water St. & Market St. - Packwood House at South West Corner of Bldg.

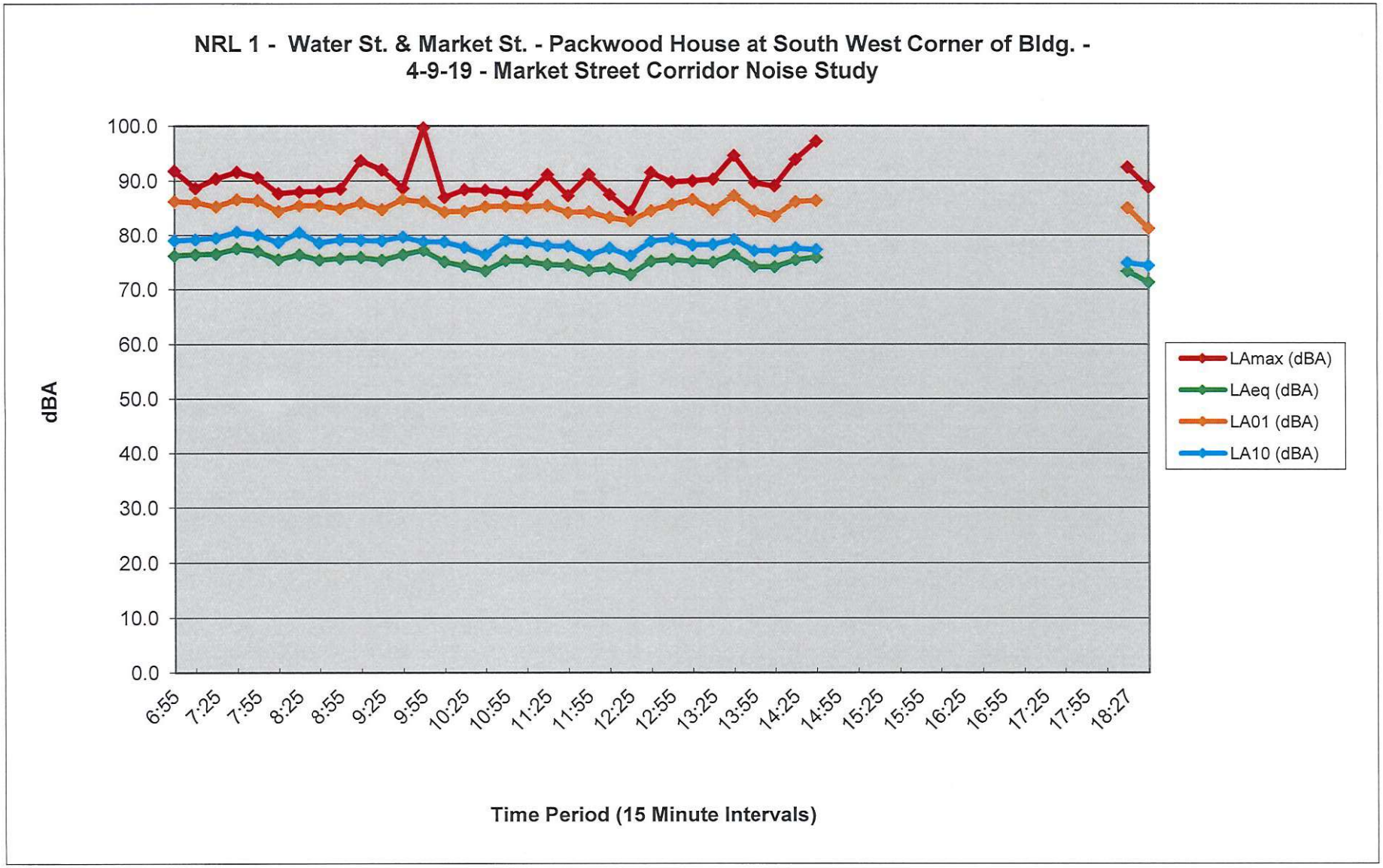
Daytime - 4-9-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	17:55					No Data Collection During This Period
46	4/9/19	18:10					
47	4/9/19	18:27	73.3	92.4	85.0	74.9	
48	4/9/19	18:42	71.3	88.8	81.2	74.4	



LAeq Average	75.2	dBA
LAmax Average	90.1	dBA
LAmax	99.6	dBA
LA01 Average	85.0	dBA
LA10 Average	78.3	dBA

Note: Averages are calculated by determining the arithmatic average for each specified range of time intervals


NRL 1 - Water St. & Market St. - Packwood House at South West Corner of Bldg. -
4-9-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
6:55
7:25
7:55
8:25
8:55
9:25
9:55
10:25
10:55
11:25
11:55
12:25
12:55
13:25
13:55
14:25
14:55
15:25
15:55
16:25
16:55
17:25
17:55
18:27
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (15 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 2 - Market St. & 2nd St. - Lewisburg Hotel at South West Corner of Bldg.

Evening & Night - 4-8-19 to 4-9-19 - 15 Minute Time Intervals

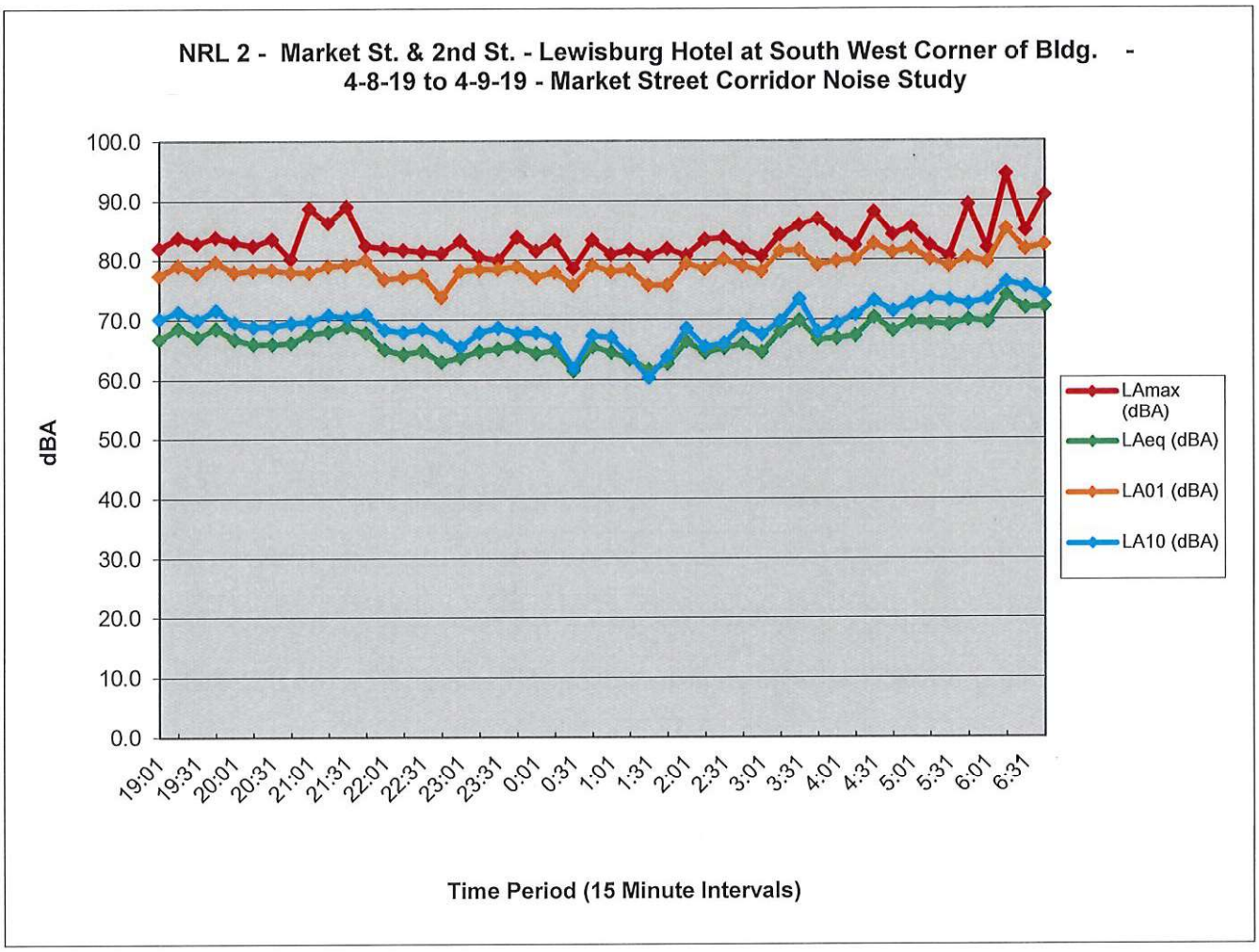
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/8/19	19:01	66.8	82.0	77.4	70.2	
2	4/8/19	19:16	68.6	83.7	79.1	71.4	
3	4/8/19	19:31	67.2	82.8	77.9	70.0	
4	4/8/19	19:46	68.6	83.8	79.7	71.7	
5	4/8/19	20:01	66.8	83.0	78.0	69.6	
6	4/8/19	20:16	66.0	82.4	78.3	68.9	
7	4/8/19	20:31	66.0	83.5	78.4	69.0	
8	4/8/19	20:46	66.2	80.2	78.0	69.5	
9	4/8/19	21:01	67.7	88.8	78.0	69.8	people talking,car horn, noisy truck&car
10	4/8/19	21:16	68.1	86.3	79.0	70.9	noisy truck
11	4/8/19	21:31	68.9	89.1	79.2	70.4	loud car
12	4/8/19	21:46	67.9	82.4	80.0	71.0	
13	4/8/19	22:01	65.1	82.0	76.8	68.4	
14	4/8/19	22:16	64.3	81.7	77.1	68.0	
15	4/8/19	22:31	64.9	81.4	77.5	68.5	
16	4/8/19	22:46	63.0	81.1	73.8	67.4	
17	4/8/19	23:01	63.8	83.2	78.2	65.5	
18	4/8/19	23:16	64.8	80.5	78.4	67.9	
19	4/8/19	23:31	65.2	79.9	78.5	68.7	
20	4/8/19	23:46	65.6	83.8	78.9	67.8	passing trucks
21	4/9/19	0:01	64.4	81.5	77.1	67.9	
22	4/9/19	0:16	64.9	83.2	78.0	66.8	
23	4/9/19	0:31	61.5	78.6	75.8	61.9	
24	4/9/19	0:46	65.5	83.3	79.1	67.4	
25	4/9/19	1:01	64.6	80.9	78.1	67.1	
26	4/9/19	1:16	63.5	81.7	78.4	64.0	
27	4/9/19	1:31	61.7	80.7	75.8	60.4	
28	4/9/19	1:46	62.7	81.9	75.8	63.9	
29	4/9/19	2:01	66.4	80.7	79.4	68.6	
30	4/9/19	2:16	64.6	83.4	78.5	65.5	
31	4/9/19	2:31	65.3	83.7	80.1	66.1	
32	4/9/19	2:46	66.0	81.9	79.0	69.1	
33	4/9/19	3:01	64.6	80.6	78.1	67.6	
34	4/9/19	3:16	68.1	84.2	81.5	69.8	passing turcks, air brake hiss
35	4/9/19	3:31	69.9	85.9	81.7	73.5	passing trucks
36	4/9/19	3:46	66.7	86.9	79.2	68.0	passing trucks
37	4/9/19	4:01	66.9	84.2	79.8	69.4	
38	4/9/19	4:16	67.4	82.4	80.1	70.9	
39	4/9/19	4:31	70.4	88.1	82.7	73.2	passing trucks, noisy car or motorcycle
40	4/9/19	4:46	68.2	84.2	81.2	71.5	
41	4/9/19	5:01	69.6	85.5	81.9	72.7	
42	4/9/19	5:16	69.4	82.4	80.1	73.6	
43	4/9/19	5:31	69.2	80.6	79.0	73.3	
44	4/9/19	5:46	70.0	89.4	80.4	72.7	loud car

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 2 - Market St. & 2nd St. - Lewisburg Hotel at South West Corner of Bldg.

Evening & Night - 4-8-19 to 4-9-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	6:01	69.6	82.0	79.6	73.4	birds chirpping
46	4/9/19	6:16	74.1	94.5	85.2	76.3	noisy car, accelerating truck, car horn
47	4/9/19	6:31	72.0	84.9	81.8	75.6	
48	4/9/19	6:46	72.2	90.9	82.5	74.3	metallic thump with passing truck



Evening 1900 - 2200		
LAeq Average	67.4	dBA
LAmax Average	84.0	dBA
LAmax	89.1	dBA
LA01 Average	78.6	dBA
LA10 Average	70.2	dBA

Night 2200 - 0700		
LAeq Average	66.6	dBA
LAmax Average	83.4	dBA
LAmax	94.5	dBA
LA01 Average	79.1	dBA
LA10 Average	69.1	dBA

Combined 1900-0700		
LAeq Average	66.8	dBA
LAmax Average	83.5	dBA
LAmax	94.5	dBA
LA01 Average	79.0	dBA
LA10 Average	69.4	dBA

Note: Averages are calculated by determining the arithmatic average for each specified range of time intervals

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 2 - Market St. & 2nd St. - Lewisburg Hotel at South West Corner of Bldg.

Evening & Night - 4-8-19 to 4-9-19 - 15 Minute Time Intervals

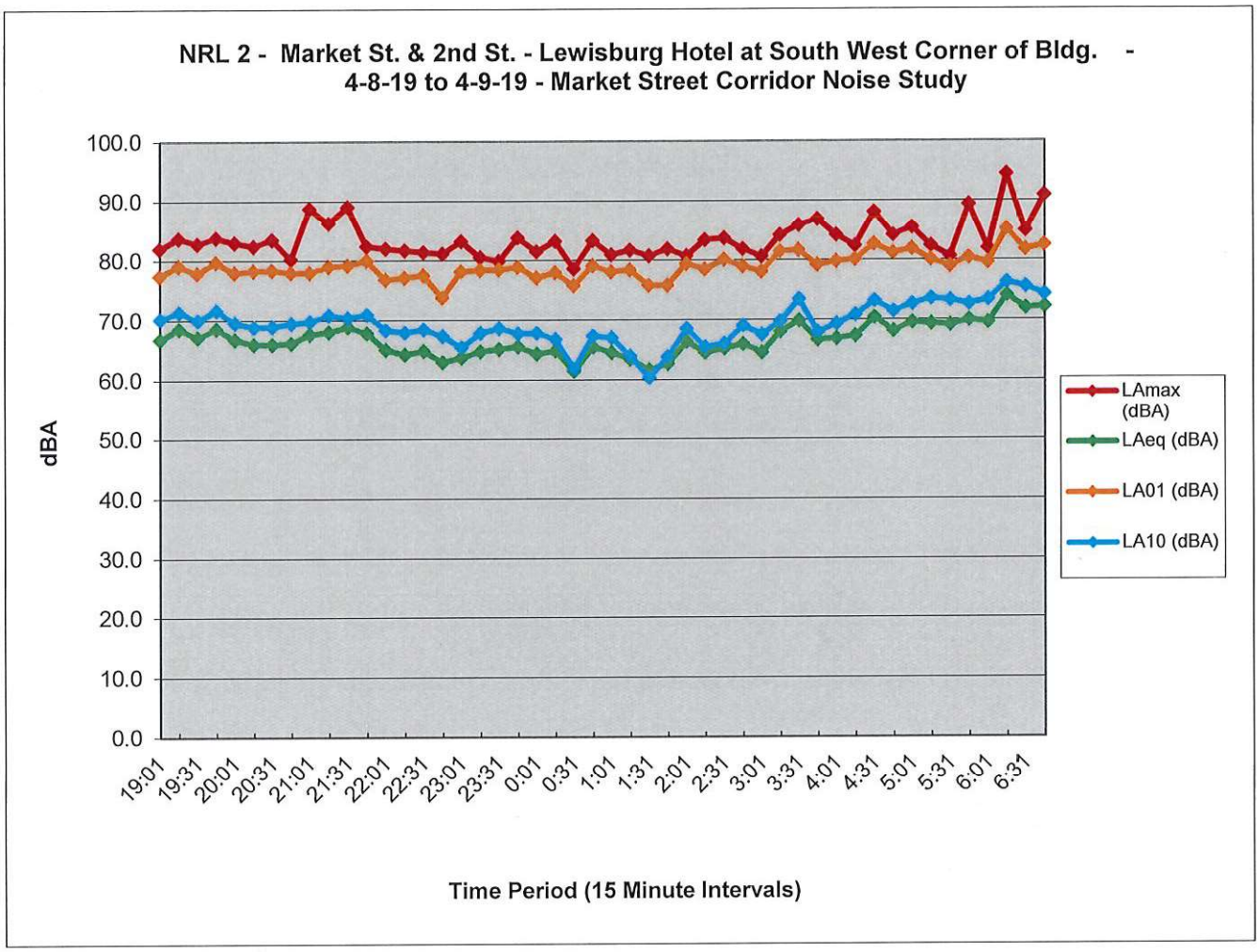
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/8/19	19:01	66.8	82.0	77.4	70.2	
2	4/8/19	19:16	68.6	83.7	79.1	71.4	
3	4/8/19	19:31	67.2	82.8	77.9	70.0	
4	4/8/19	19:46	68.6	83.8	79.7	71.7	
5	4/8/19	20:01	66.8	83.0	78.0	69.6	
6	4/8/19	20:16	66.0	82.4	78.3	68.9	
7	4/8/19	20:31	66.0	83.5	78.4	69.0	
8	4/8/19	20:46	66.2	80.2	78.0	69.5	
9	4/8/19	21:01	67.7	88.8	78.0	69.8	people talking,car horn, noisy truck&car
10	4/8/19	21:16	68.1	86.3	79.0	70.9	noisy truck
11	4/8/19	21:31	68.9	89.1	79.2	70.4	loud car
12	4/8/19	21:46	67.9	82.4	80.0	71.0	
13	4/8/19	22:01	65.1	82.0	76.8	68.4	
14	4/8/19	22:16	64.3	81.7	77.1	68.0	
15	4/8/19	22:31	64.9	81.4	77.5	68.5	
16	4/8/19	22:46	63.0	81.1	73.8	67.4	
17	4/8/19	23:01	63.8	83.2	78.2	65.5	
18	4/8/19	23:16	64.8	80.5	78.4	67.9	
19	4/8/19	23:31	65.2	79.9	78.5	68.7	
20	4/8/19	23:46	65.6	83.8	78.9	67.8	passing trucks
21	4/9/19	0:01	64.4	81.5	77.1	67.9	
22	4/9/19	0:16	64.9	83.2	78.0	66.8	
23	4/9/19	0:31	61.5	78.6	75.8	61.9	
24	4/9/19	0:46	65.5	83.3	79.1	67.4	
25	4/9/19	1:01	64.6	80.9	78.1	67.1	
26	4/9/19	1:16	63.5	81.7	78.4	64.0	
27	4/9/19	1:31	61.7	80.7	75.8	60.4	
28	4/9/19	1:46	62.7	81.9	75.8	63.9	
29	4/9/19	2:01	66.4	80.7	79.4	68.6	
30	4/9/19	2:16	64.6	83.4	78.5	65.5	
31	4/9/19	2:31	65.3	83.7	80.1	66.1	
32	4/9/19	2:46	66.0	81.9	79.0	69.1	
33	4/9/19	3:01	64.6	80.6	78.1	67.6	
34	4/9/19	3:16	68.1	84.2	81.5	69.8	passing turcks, air brake hiss
35	4/9/19	3:31	69.9	85.9	81.7	73.5	passing trucks
36	4/9/19	3:46	66.7	86.9	79.2	68.0	passing trucks
37	4/9/19	4:01	66.9	84.2	79.8	69.4	
38	4/9/19	4:16	67.4	82.4	80.1	70.9	
39	4/9/19	4:31	70.4	88.1	82.7	73.2	passing trucks, noisy car or motorcycle
40	4/9/19	4:46	68.2	84.2	81.2	71.5	
41	4/9/19	5:01	69.6	85.5	81.9	72.7	
42	4/9/19	5:16	69.4	82.4	80.1	73.6	
43	4/9/19	5:31	69.2	80.6	79.0	73.3	
44	4/9/19	5:46	70.0	89.4	80.4	72.7	loud car

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 2 - Market St. & 2nd St. - Lewisburg Hotel at South West Corner of Bldg.

Evening & Night - 4-8-19 to 4-9-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	6:01	69.6	82.0	79.6	73.4	birds chirpping
46	4/9/19	6:16	74.1	94.5	85.2	76.3	noisy car, accelerating truck, car horn
47	4/9/19	6:31	72.0	84.9	81.8	75.6	
48	4/9/19	6:46	72.2	90.9	82.5	74.3	metallic thump with passing truck

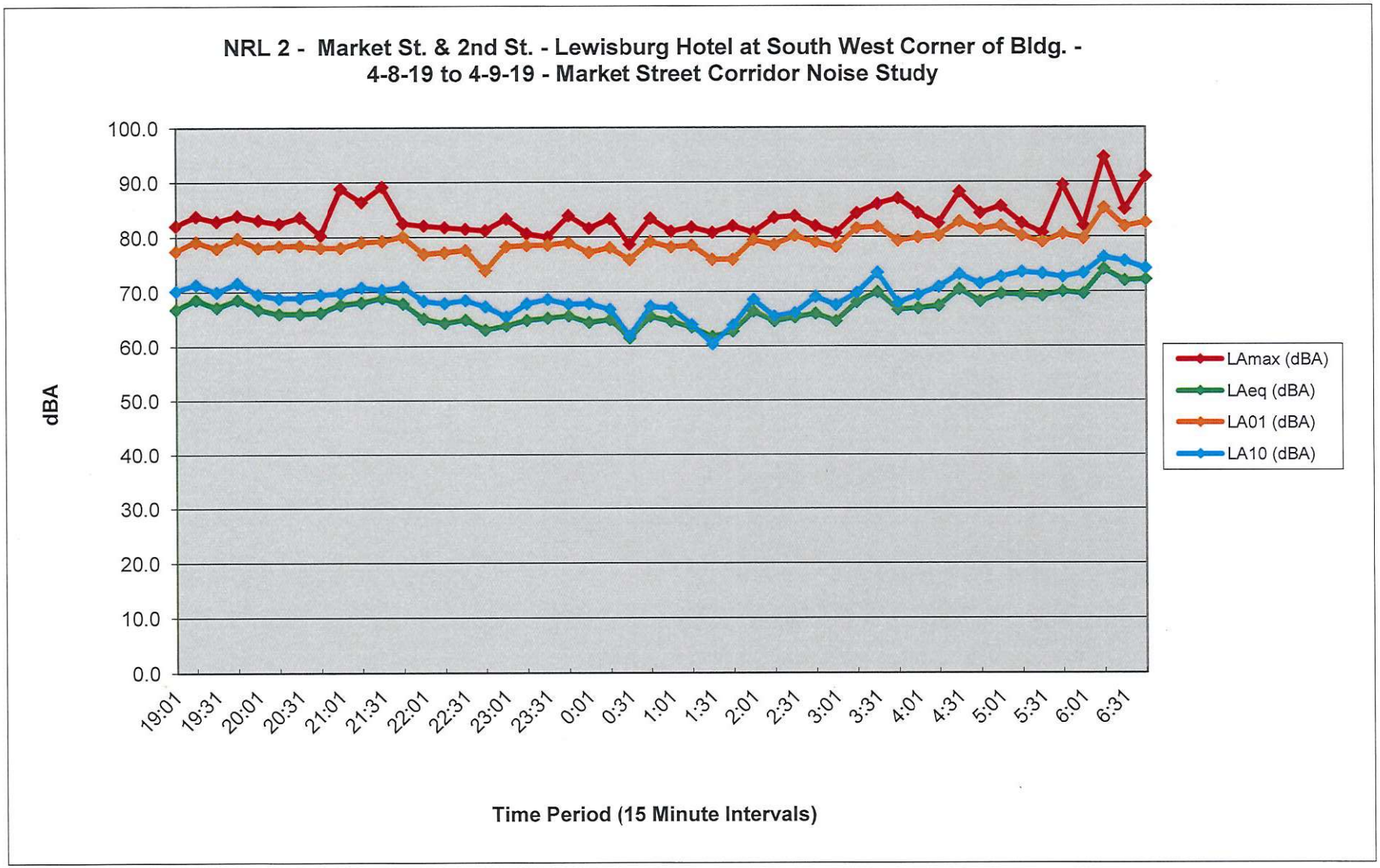


Evening 1900 - 2200		
LAeq Average	67.4	dBA
LAmax Average	84.0	dBA
LAmax	89.1	dBA
LA01 Average	78.6	dBA
LA10 Average	70.2	dBA

Night 2200 - 0700		
LAeq Average	66.6	dBA
LAmax Average	83.4	dBA
LAmax	94.5	dBA
LA01 Average	79.1	dBA
LA10 Average	69.1	dBA

Combined 1900-0700		
LAeq Average	66.8	dBA
LAmax Average	83.5	dBA
LAmax	94.5	dBA
LA01 Average	79.0	dBA
LA10 Average	69.4	dBA

Note: Averages are calculated by determining the arithmatic average for each specified range of time intervals


NRL 2 - Market St. & 2nd St. - Lewisburg Hotel at South West Corner of Bldg. -
4-8-19 to 4-9-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
19:01
19:31
20:01
20:31
21:01
21:31
22:01
22:31
23:01
23:31
0:01
0:31
1:01
1:31
2:01
2:31
3:01
3:31
4:01
4:31
5:01
5:31
6:01
6:31
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (15 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 2 - Market St. & 2nd St. - Lewisburg Hotel at South West Corner of Bldg.

Daytime - 4-9-19 - 15 Minute Time Intervals

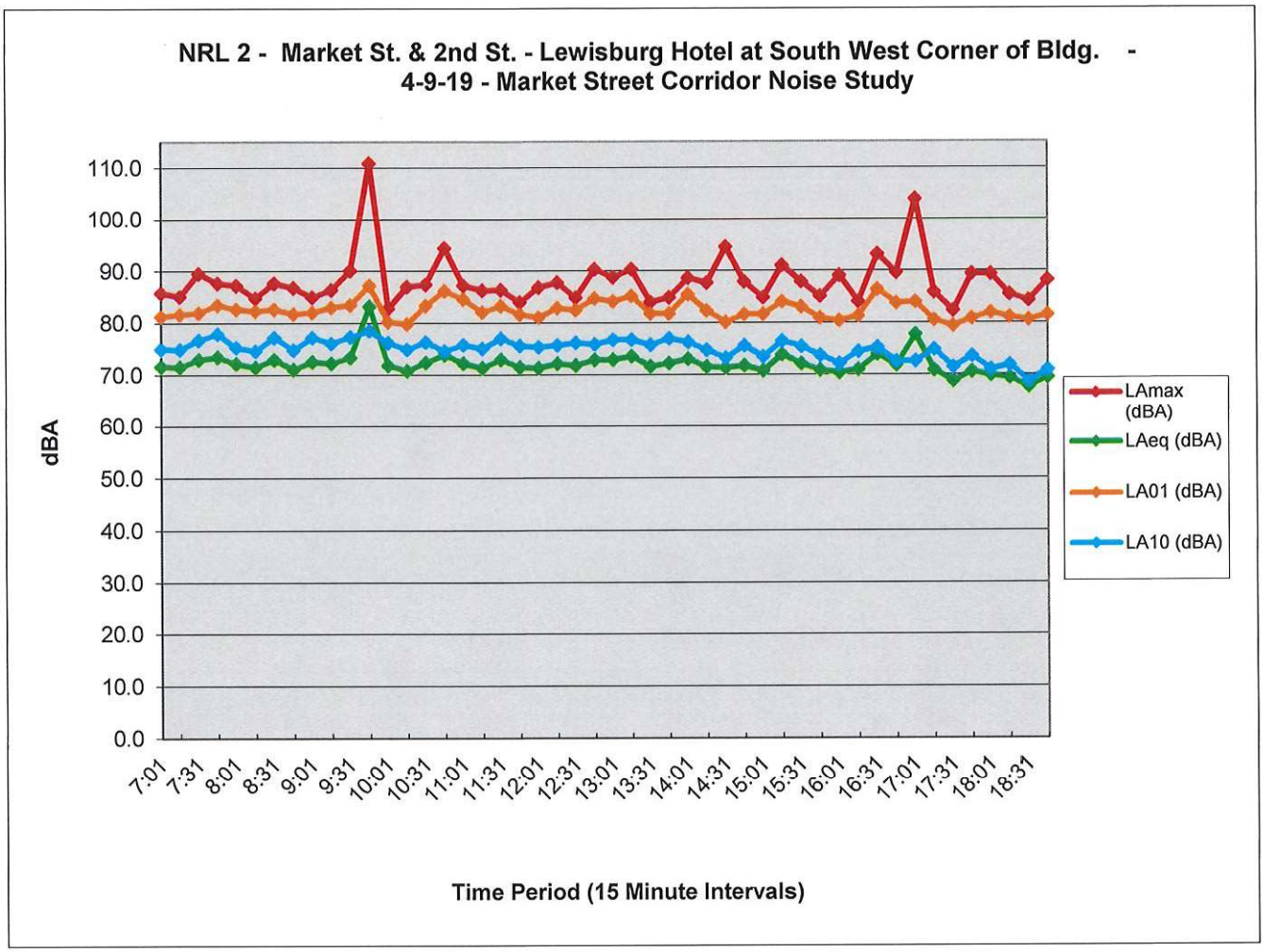
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	7:01	71.6	85.8	81.3	74.9	
2	4/9/19	7:16	71.5	85.1	81.7	74.8	
3	4/9/19	7:31	72.9	89.5	82.0	76.6	noisy car & trucks, traffic stop, idle & accelerate, motorcycle.
4	4/9/19	7:46	73.4	87.7	83.5	77.8	
5	4/9/19	8:01	72.1	87.2	82.7	75.2	
6	4/9/19	8:16	71.4	84.8	82.3	74.5	
7	4/9/19	8:31	72.9	87.7	82.7	77.1	
8	4/9/19	8:46	71.0	86.8	81.8	74.7	
9	4/9/19	9:01	72.5	85.0	82.1	77.1	
10	4/9/19	9:16	72.2	86.4	83.0	76.0	
11	4/9/19	9:31	73.3	90.1	83.5	77.2	
12	4/9/19	9:46	83.1	110.9	87.2	78.4	loud car revs engine-loud exhaust
13	4/9/19	10:01	71.8	82.8	80.2	76.1	
14	4/9/19	10:16	70.7	87.0	79.8	74.8	
15	4/9/19	10:31	72.3	87.4	83.3	76.2	
16	4/9/19	10:46	73.8	94.4	86.2	74.5	noisy truck accelerate, air brake hisses
17	4/9/19	11:01	72.2	87.2	84.6	75.7	
18	4/9/19	11:16	71.3	86.3	82.1	75.0	
19	4/9/19	11:31	72.9	86.4	83.3	76.9	
20	4/9/19	11:46	71.4	84.0	81.7	75.5	
21	4/9/19	12:01	71.3	86.9	81.1	75.3	
22	4/9/19	12:16	72.1	87.8	82.9	75.6	
23	4/9/19	12:31	71.8	84.9	82.5	76.1	
24	4/9/19	12:46	72.8	90.3	84.7	75.8	noisy car & trucks, traffic stop, idle & accelerate, motorcycle, air brake hiss
25	4/9/19	13:01	72.9	88.8	84.2	76.7	
26	4/9/19	13:16	73.5	90.3	85.2	76.7	
27	4/9/19	13:31	71.6	84.0	81.8	75.7	
28	4/9/19	13:46	72.2	84.9	81.8	76.9	
29	4/9/19	14:01	73.0	88.6	85.5	76.2	
30	4/9/19	14:16	71.5	87.7	82.3	74.7	
31	4/9/19	14:31	71.3	94.6	80.1	73.2	loud car, traffic stop & start
32	4/9/19	14:46	71.7	87.9	81.7	75.5	
33	4/9/19	15:01	70.7	84.9	81.7	73.4	
34	4/9/19	15:16	73.8	91.0	84.1	76.4	motorcycle, traffic
35	4/9/19	15:31	72.0	87.9	83.1	75.3	
36	4/9/19	15:46	70.8	85.1	80.9	73.6	
37	4/9/19	16:01	70.3	89.1	80.4	72.0	motorcycle
38	4/9/19	16:16	70.9	84.1	81.3	74.3	
39	4/9/19	16:31	73.8	93.2	86.4	75.1	loud cars, motorcycle
40	4/9/19	16:46	71.7	89.6	83.8	72.4	car & truck traffic
41	4/9/19	17:01	77.6	103.9	84.0	72.5	car rev engine, motorcycle
42	4/9/19	17:16	70.8	85.9	80.5	74.7	
43	4/9/19	17:31	68.7	82.3	79.4	71.3	
44	4/9/19	17:46	70.5	89.4	80.8	73.4	loud cars, motorcycle, traffic

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 2 - Market St. & 2nd St. - Lewisburg Hotel at South West Corner of Bldg.

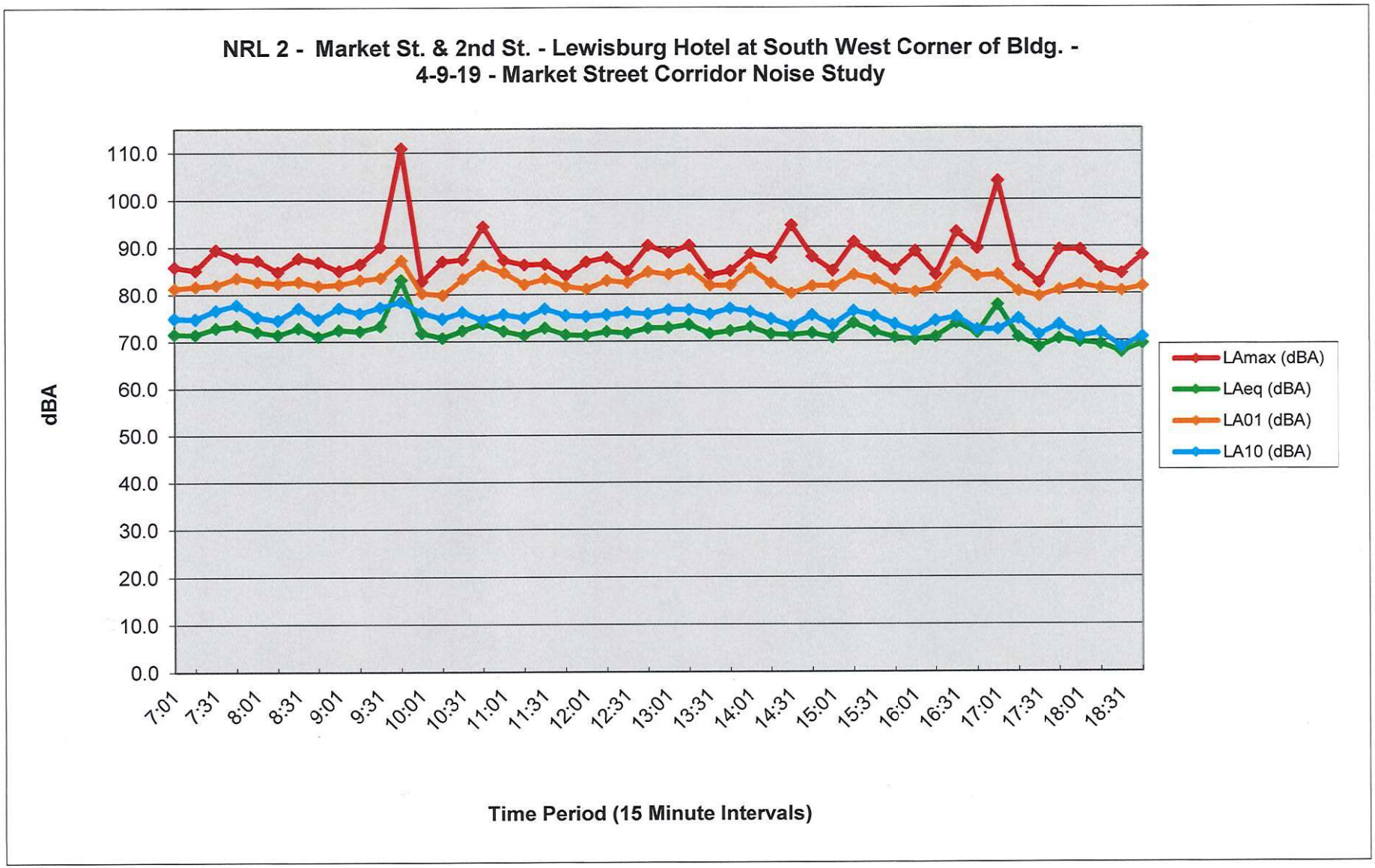
Daytime - 4-9-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	18:01	69.8	89.3	81.9	70.9	traffic
46	4/9/19	18:16	69.3	85.5	81.1	71.7	
47	4/9/19	18:31	67.6	84.3	80.6	68.7	
48	4/9/19	18:53	69.4	88.2	81.5	70.8	



Daytime 0700-1900		
LAeq Average	72.0	dBA
LAmax Average	88.2	dBA
LAmax	110.9	dBA
LA01 Average	82.5	dBA
LA10 Average	74.9	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals

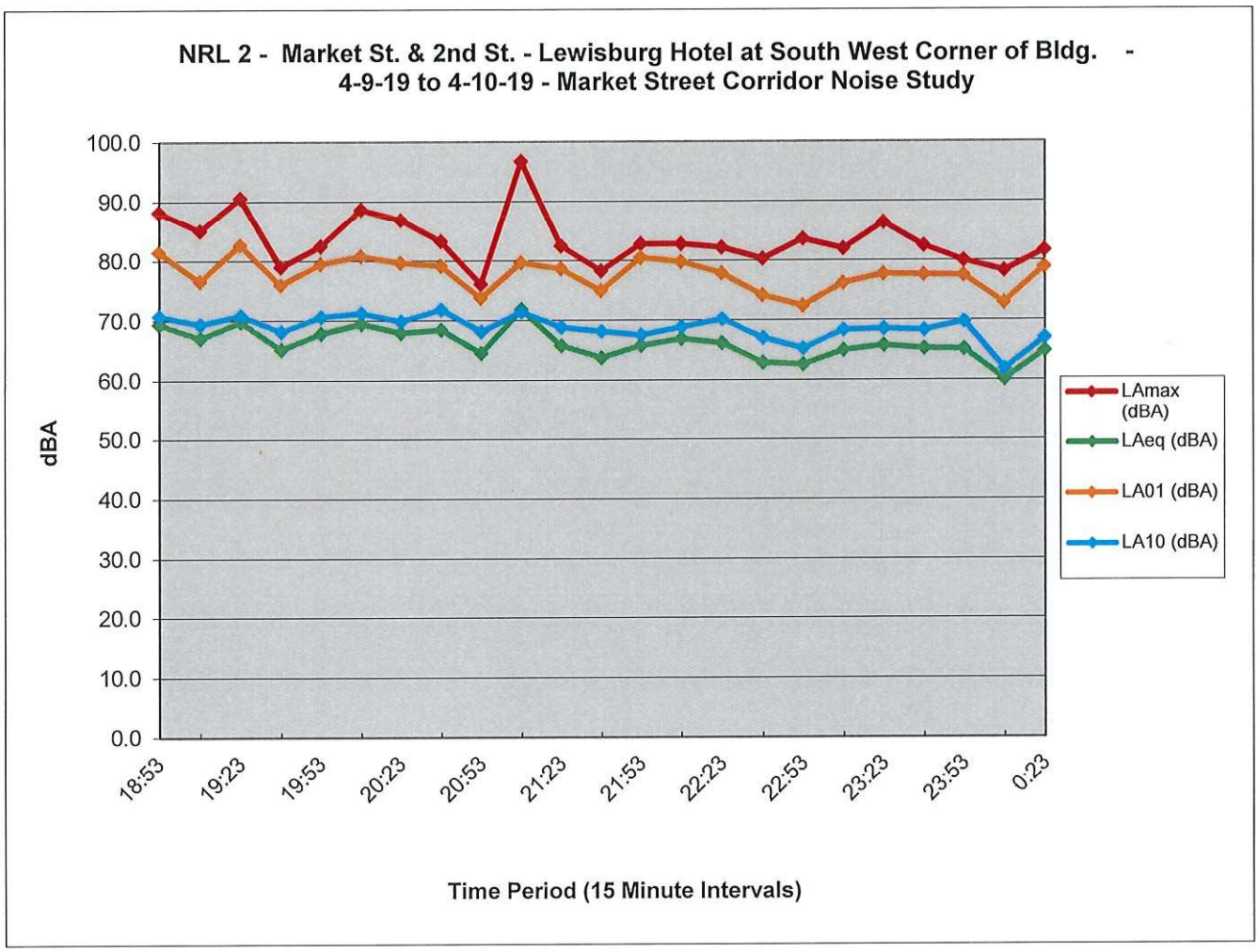

NRL 2 - Market St. & 2nd St. - Lewisburg Hotel at South West Corner of Bldg. -
4-9-19 - Market Street Corridor Noise Study
dBA
110.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
7:01
7:31
8:01
8:31
9:01
9:31
10:01
10:31
11:01
11:31
12:01
12:31
13:01
13:31
14:01
14:31
15:01
15:31
16:01
16:31
17:01
17:31
18:01
18:31
Time Period (15 Minute Intervals)
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 2 - Market St. & 2nd St. - Lewisburg Hotel at South West Corner of Bldg.

Evening & Night - 4-9-19 to 4-10-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	18:53	69.4	88.2	81.5	70.8	equipment install
2	4/9/19	19:08	67.1	85.1	76.6	69.4	
3	4/9/19	19:23	69.8	90.6	82.7	70.9	car horn, loud car
4	4/9/19	19:38	65.2	79.0	76.0	68.2	
5	4/9/19	19:53	67.9	82.5	79.5	70.7	
6	4/9/19	20:08	69.5	88.7	80.8	71.3	loud car, truck traffic
7	4/9/19	20:23	68.0	86.9	79.7	69.9	
8	4/9/19	20:38	68.5	83.3	79.2	71.9	
9	4/9/19	20:53	64.6	76.1	73.8	68.2	
10	4/9/19	21:08	71.9	96.8	79.7	71.5	loud car revs engine
11	4/9/19	21:23	65.8	82.5	78.7	68.9	
12	4/9/19	21:38	63.8	78.3	75.0	68.2	
13	4/9/19	21:53	65.8	82.8	80.5	67.6	
14	4/9/19	22:08	66.9	82.8	79.8	68.9	
15	4/9/19	22:23	66.2	82.2	77.9	70.2	
16	4/9/19	22:38	62.9	80.3	74.2	67.1	
17	4/9/19	22:53	62.6	83.6	72.4	65.3	
18	4/9/19	23:08	65.0	82.0	76.2	68.4	
19	4/9/19	23:23	65.8	86.4	77.7	68.6	loud car
20	4/9/19	23:38	65.3	82.5	77.6	68.4	
21	4/9/19	23:53	65.2	80.0	77.5	69.8	
22	4/10/19	0:08	60.2	78.3	72.9	61.9	
23	4/10/19	0:23	64.9	81.7	78.9	67.1	

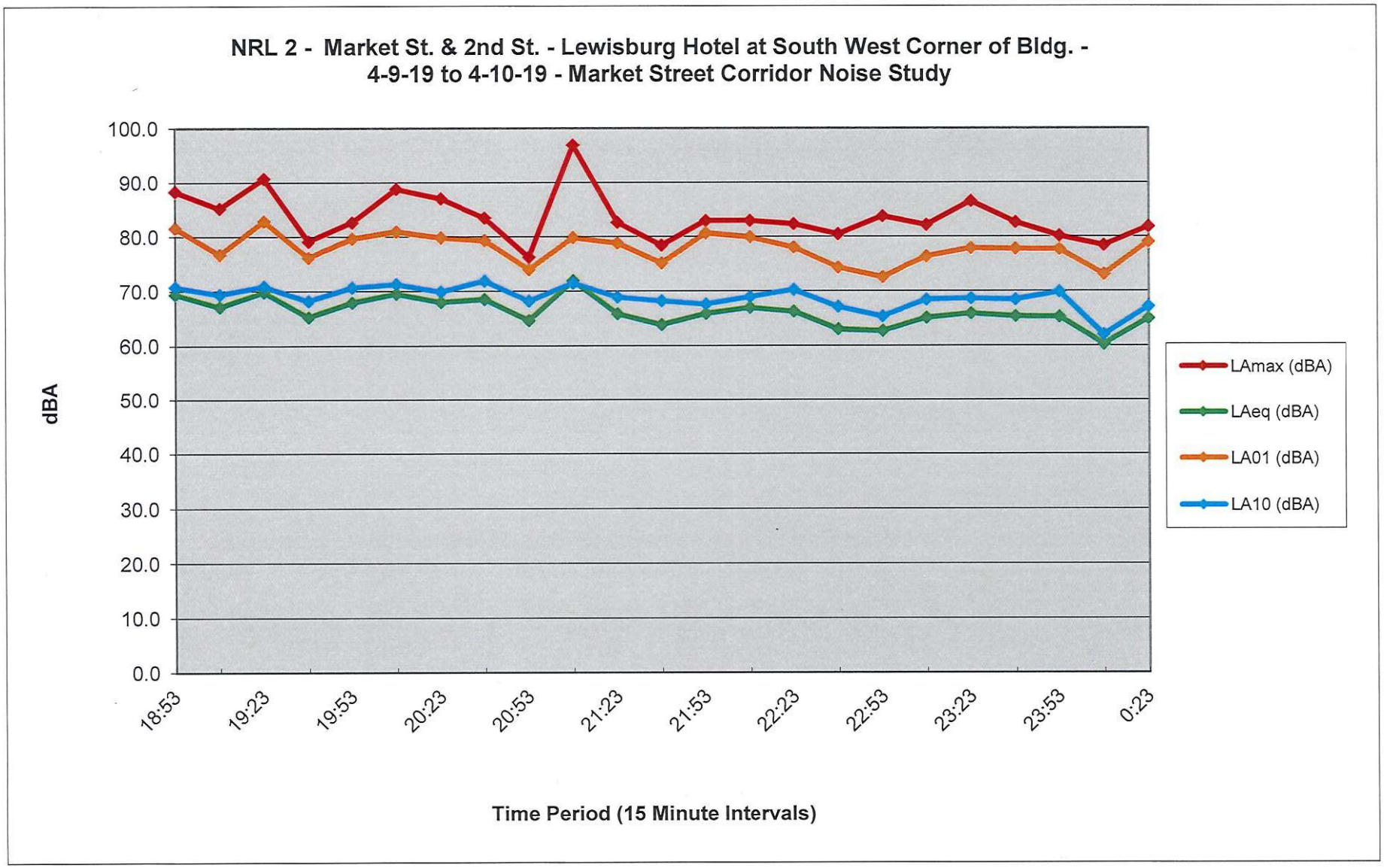


Evening 1900 - 2200		
LAeq Average	67.5	dBA
LAmax Average	84.7	dBA
LAmax	96.8	dBA
LA01 Average	78.7	dBA
LA10 Average	69.8	dBA

Night 2200 -0023		
LAeq Average	64.6	dBA
LAmax Average	82.1	dBA
LAmax	86.4	dBA
LA01 Average	76.9	dBA
LA10 Average	67.6	dBA

Combined 1900-0023		
LAeq Average	66.2	dBA
LAmax Average	83.5	dBA
LAmax	96.8	dBA
LA01 Average	77.8	dBA
LA10 Average	68.8	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals


NRL 2 - Market St. & 2nd St. - Lewisburg Hotel at South West Corner of Bldg. -
4-9-19 to 4-10-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
18:53
19:23
19:53
20:23
20:53
21:23
21:53
22:23
22:53
23:23
23:53
0:23
Time Period (15 Minute Intervals)
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 2A - 130 Market St. - Interior - 2nd Floor Dining Room Window Facing Market St.

Evening & Night - 4-9-19 to 4-10-19 - 15 Minute Time Intervals

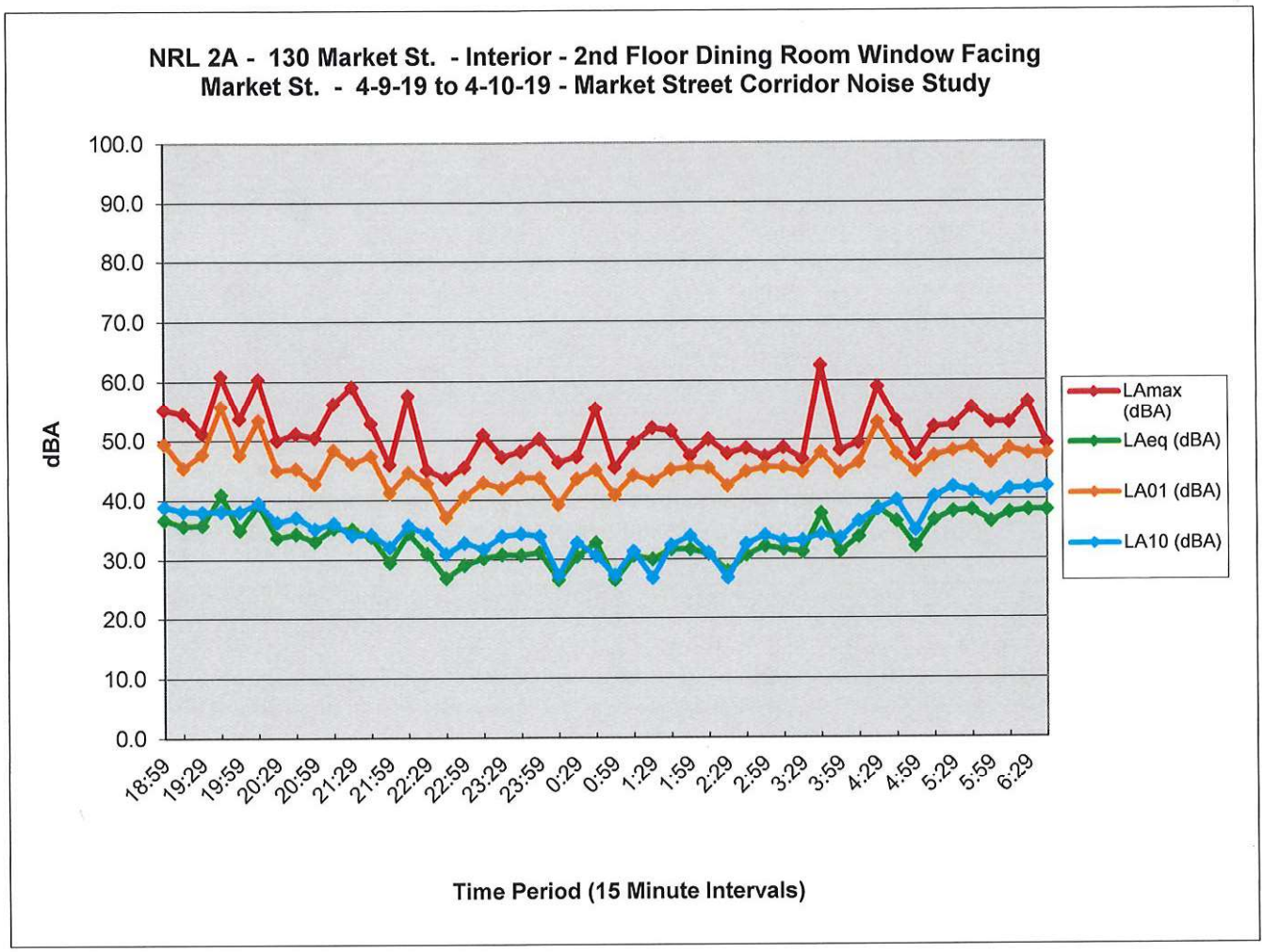
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	18:59	36.7	55.1	49.4	38.9	
2	4/9/19	19:14	35.7	54.4	45.3	38.2	
3	4/9/19	19:29	35.8	51.1	47.6	38.0	
4	4/9/19	19:44	40.9	60.8	55.6	38.1	
5	4/9/19	19:59	35.0	53.6	47.5	38.0	
6	4/9/19	20:14	39.3	60.3	53.3	39.5	
7	4/9/19	20:29	33.7	50.0	44.9	36.3	
8	4/9/19	20:44	34.3	51.1	45.2	37.1	
9	4/9/19	20:59	33.1	50.4	42.7	35.2	
10	4/9/19	21:14	35.3	56.1	48.3	36.1	
11	4/9/19	21:29	35.1	59.0	46.1	34.1	
12	4/9/19	21:44	33.8	52.8	47.3	34.2	
13	4/9/19	21:59	29.5	45.9	41.1	32.1	
14	4/9/19	22:14	34.4	57.5	44.5	35.7	
15	4/9/19	22:29	31.0	44.9	42.7	34.3	
16	4/9/19	22:44	26.9	43.5	37.0	31.0	
17	4/9/19	22:59	29.1	45.4	40.5	32.8	
18	4/9/19	23:14	30.2	50.8	42.8	31.8	
19	4/9/19	23:29	30.8	47.1	41.9	33.9	
20	4/9/19	23:44	30.7	48.0	43.6	34.3	
21	4/9/19	23:59	31.2	50.1	43.6	33.9	
22	4/10/19	0:14	26.6	46.2	39.1	27.3	
23	4/10/19	0:29	30.5	47.1	43.4	32.8	
24	4/10/19	0:44	32.8	55.2	44.9	30.6	
25	4/10/19	0:59	26.6	45.3	40.7	27.4	
26	4/10/19	1:14	30.6	49.4	44.0	31.4	
27	4/10/19	1:29	30.0	51.9	43.0	26.9	
28	4/10/19	1:44	31.7	51.4	44.9	32.4	
29	4/10/19	1:59	31.7	47.2	45.3	33.9	
30	4/10/19	2:14	30.9	50.0	45.2	31.1	
31	4/10/19	2:29	28.0	47.6	42.2	26.9	
32	4/10/19	2:44	30.7	48.5	44.6	32.6	
33	4/10/19	2:59	32.2	47.1	45.3	34.0	
34	4/10/19	3:14	31.7	48.6	45.3	33.1	
35	4/10/19	3:29	31.2	46.7	44.5	33.1	
36	4/10/19	3:44	37.6	62.5	47.8	34.1	
37	4/10/19	3:59	31.3	48.2	44.4	33.5	
38	4/10/19	4:14	33.7	49.4	46.1	36.3	
39	4/10/19	4:29	38.5	58.9	52.8	38.3	
40	4/10/19	4:44	36.3	53.1	47.5	39.8	
41	4/10/19	4:59	32.1	47.4	44.6	34.8	
42	4/10/19	5:14	36.5	52.0	47.2	40.4	
43	4/10/19	5:29	37.9	52.3	48.0	42.0	
44	4/10/19	5:44	38.1	55.3	48.6	41.2	

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 2A - 130 Market St. - Interior - 2nd Floor Dining Room Window Facing Market St.

Evening & Night - 4-9-19 to 4-10-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/10/19	5:59	36.2	52.8	46.0	39.9	
46	4/10/19	6:14	37.7	52.8	48.4	41.6	
47	4/10/19	6:29	38.1	56.3	47.6	41.8	
48	4/10/19	6:44	38.1	49.3	47.6	42.1	

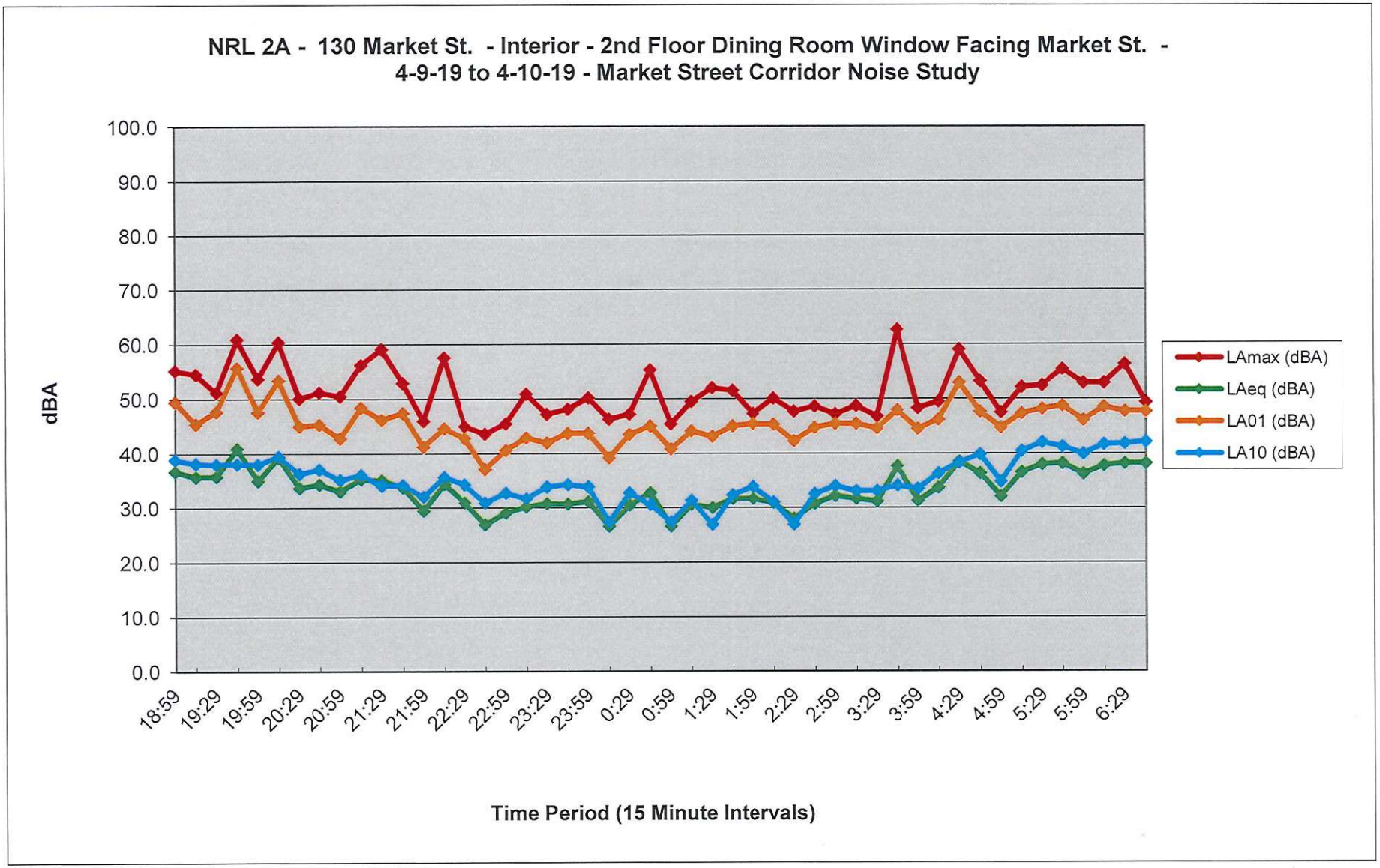


Evening 1900 - 2200		
LAeq Average	35.7	dBA
LAmax Average	54.6	dBA
LAmax	60.8	dBA
LA01 Average	47.8	dBA
LA10 Average	37.0	dBA

Night 2200 - 0700		
LAeq Average	32.5	dBA
LAmax Average	50.2	dBA
LAmax	62.5	dBA
LA01 Average	44.6	dBA
LA10 Average	34.4	dBA

Combined 1900-0700		
LAeq Average	33.3	dBA
LAmax Average	51.3	dBA
LAmax	62.5	dBA
LA01 Average	45.4	dBA
LA10 Average	35.1	dBA

Note: Averages are calculated by determining the arithmatic average for each specified range of time intervals


NRL 2A - 130 Market St. - Interior - 2nd Floor Dining Room Window Facing Market St. -
4-9-19 to 4-10-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
18:59
19:29
19:59
20:29
20:59
21:29
21:59
22:29
22:59
23:29
23:59
0:29
0:59
1:29
1:59
2:29
2:59
3:29
3:59
4:29
4:59
5:29
5:59
6:29
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (15 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 3 - Market St. & 4th St. - Brushstrokes at South West Corner of Bldg.

Evening & Night - 4-8-19 to 4-9-19 - 15 Minute Time Intervals

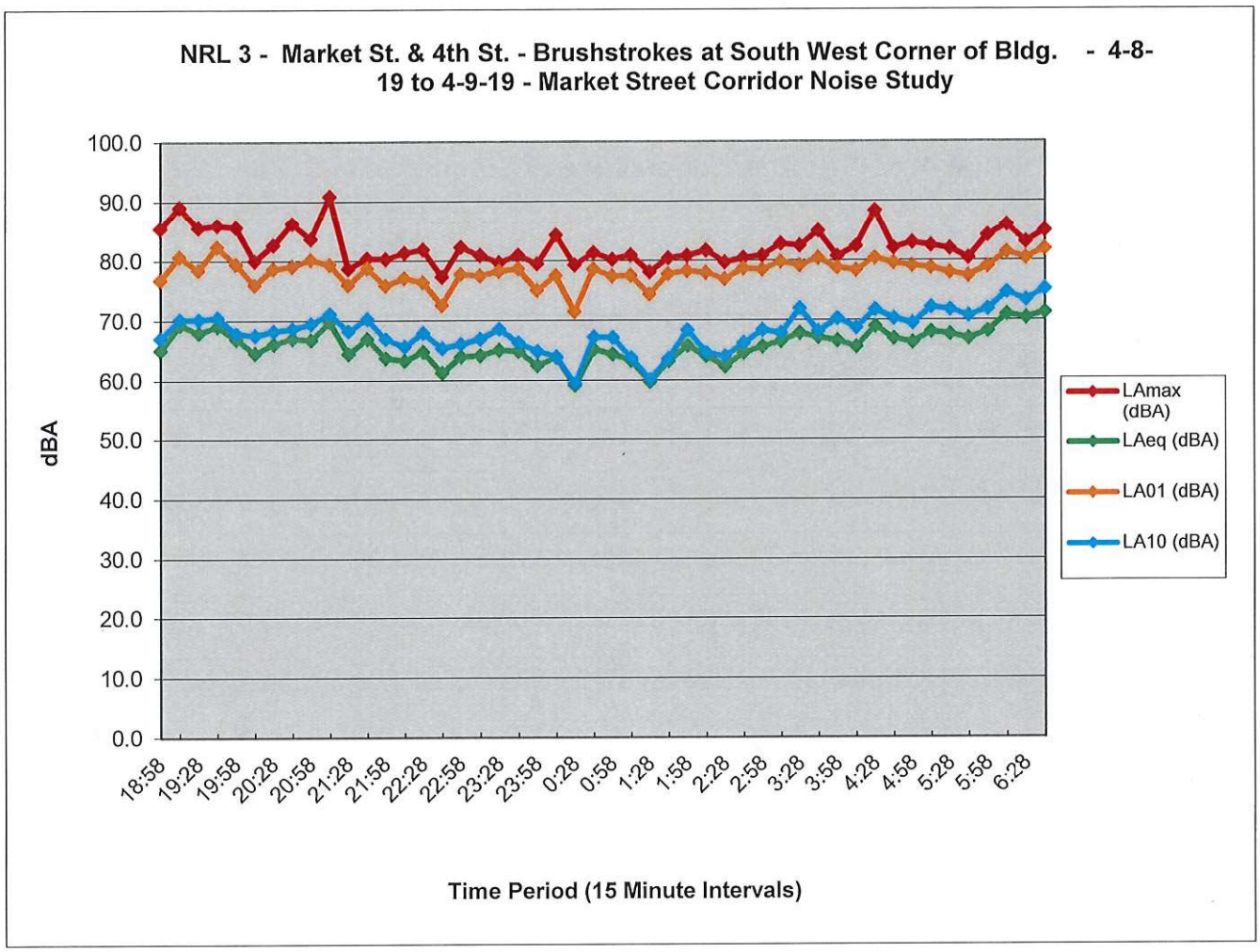
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/8/19	18:58	65.1	85.5	76.8	67.1	
2	4/8/19	19:13	69.3	89.1	80.7	70.2	car stereo, car&truck traffic, door slams
3	4/8/19	19:28	68.0	85.6	78.5	70.2	
4	4/8/19	19:43	69.1	86.0	82.4	70.6	
5	4/8/19	19:58	67.0	85.7	79.5	67.9	
6	4/8/19	20:13	64.6	80.0	76.0	67.6	
7	4/8/19	20:28	66.1	82.7	78.7	68.3	
8	4/8/19	20:43	67.1	86.3	79.1	68.7	
9	4/8/19	20:58	66.8	83.7	80.2	69.5	
10	4/8/19	21:13	69.8	90.9	79.4	71.2	loud cars, door slams, traffic
11	4/8/19	21:28	64.5	78.7	76.0	68.3	
12	4/8/19	21:43	67.0	80.4	78.8	70.3	
13	4/8/19	21:58	63.8	80.3	75.9	67.0	
14	4/8/19	22:13	63.3	81.3	77.1	65.7	
15	4/8/19	22:28	64.8	81.9	76.4	68.0	
16	4/8/19	22:43	61.3	77.3	72.6	65.4	
17	4/8/19	22:58	64.0	82.3	77.8	66.1	
18	4/8/19	23:13	64.2	80.9	77.5	67.0	
19	4/8/19	23:28	65.1	79.7	78.3	68.6	
20	4/8/19	23:43	64.9	80.9	78.7	66.3	
21	4/8/19	23:58	62.5	79.5	75.1	64.9	
22	4/9/19	0:13	63.9	84.3	77.5	64.0	loud car or motorcycle, traffic
23	4/9/19	0:28	59.2	79.3	71.5	59.5	
24	4/9/19	0:43	65.2	81.3	78.6	67.3	
25	4/9/19	0:58	64.4	80.2	77.4	67.2	
26	4/9/19	1:13	63.3	80.9	77.5	63.8	
27	4/9/19	1:28	59.8	78.1	74.4	60.2	
28	4/9/19	1:43	63.2	80.4	77.8	63.7	
29	4/9/19	1:58	65.8	80.8	78.3	68.4	
30	4/9/19	2:13	64.1	81.7	78.0	64.6	
31	4/9/19	2:28	62.3	79.7	76.9	64.0	
32	4/9/19	2:43	64.6	80.4	78.7	66.2	
33	4/9/19	2:58	65.6	80.8	78.5	68.4	
34	4/9/19	3:13	66.5	82.8	79.8	67.9	
35	4/9/19	3:28	67.9	82.5	79.2	72.0	
36	4/9/19	3:43	67.2	85.0	80.4	68.2	
37	4/9/19	3:58	66.6	80.7	78.8	70.3	
38	4/9/19	4:13	65.6	82.4	78.4	68.8	
39	4/9/19	4:28	69.0	88.4	80.4	71.8	ait brake hiss, truck traffic, loud car
40	4/9/19	4:43	67.0	82.1	79.6	70.3	
41	4/9/19	4:58	66.3	83.0	79.1	69.5	
42	4/9/19	5:13	68.1	82.5	78.8	72.2	
43	4/9/19	5:28	67.7	82.0	78.0	71.8	
44	4/9/19	5:43	67.0	80.4	77.4	70.8	

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 3 - Market St. & 4th St. - Brushstrokes at South West Corner of Bldg.

Evening & Night - 4-8-19 to 4-9-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	5:58	68.2	84.2	79.0	71.9	
46	4/9/19	6:13	71.0	86.0	81.4	74.7	noisy car & trucks, air brake hiss
47	4/9/19	6:28	70.4	83.1	80.4	73.4	
48	4/9/19	6:43	71.3	85.0	81.9	75.2	

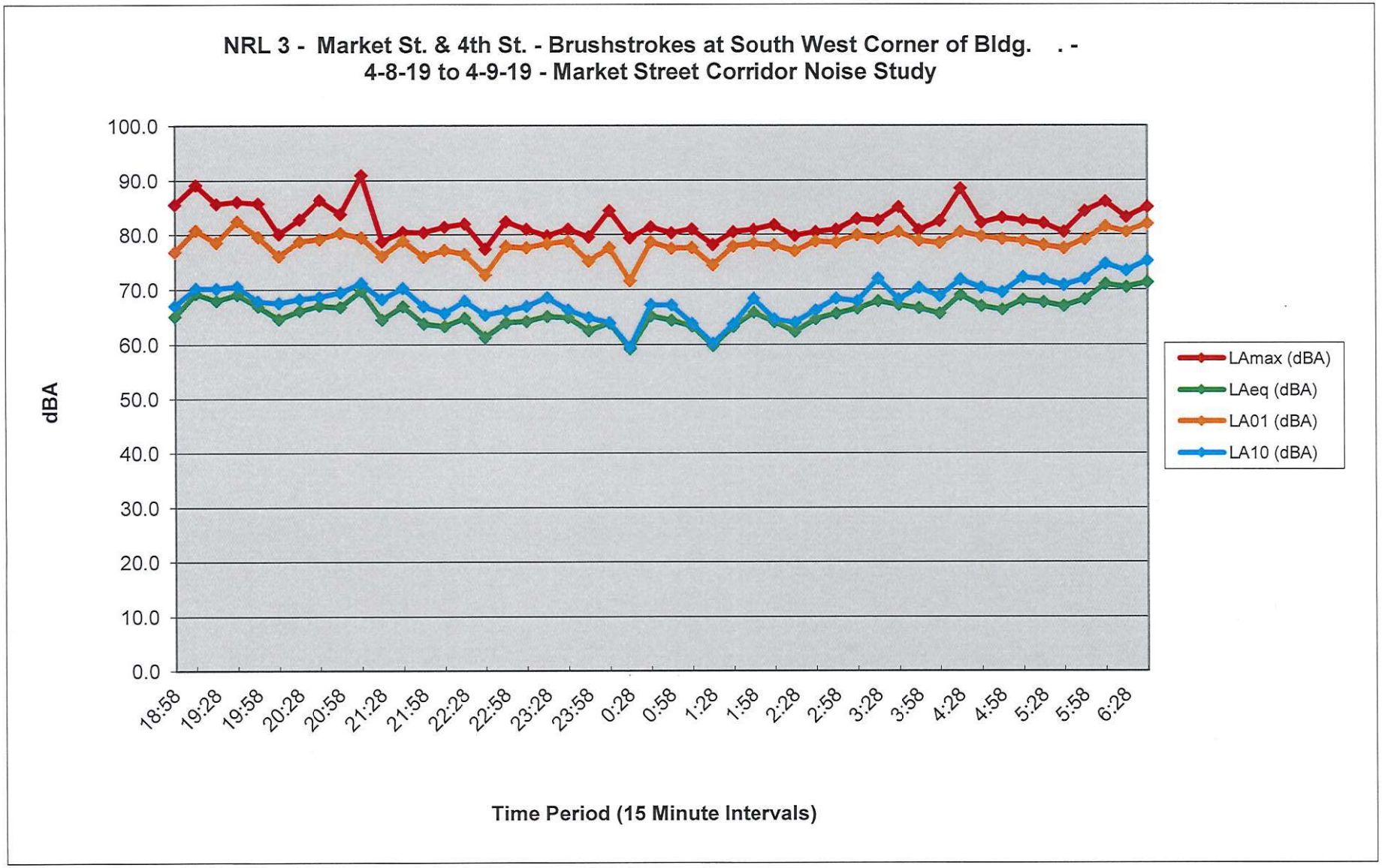


Evening 1900 - 2200		
LAeq Average	67.0	dBA
LAmax Average	84.6	dBA
LAmax	90.9	dBA
LA01 Average	78.8	dBA
LA10 Average	69.2	dBA

Night 2200 - 0700		
LAeq Average	65.4	dBA
LAmax Average	81.7	dBA
LAmax	88.4	dBA
LA01 Average	78.0	dBA
LA10 Average	67.9	dBA

Combined 1900-0700		
LAeq Average	65.8	dBA
LAmax Average	82.4	dBA
LAmax	90.9	dBA
LA01 Average	78.2	dBA
LA10 Average	68.2	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals


NRL 3 - Market St. & 4th St. - Brushstrokes at South West Corner of Bldg. . -
4-8-19 to 4-9-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
18:58
19:28
19:58
20:28
20:58
21:28
21:58
22:28
22:58
23:28
23:58
0:28
0:58
1:28
1:58
2:28
2:58
3:28
3:58
4:28
4:58
5:28
5:58
6:28
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (15 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 3 - Market St. & 4th St. - Brushstrokes at South West Corner of Bldg.

Daytime - 4-9-19 - 15 Minute Time Intervals

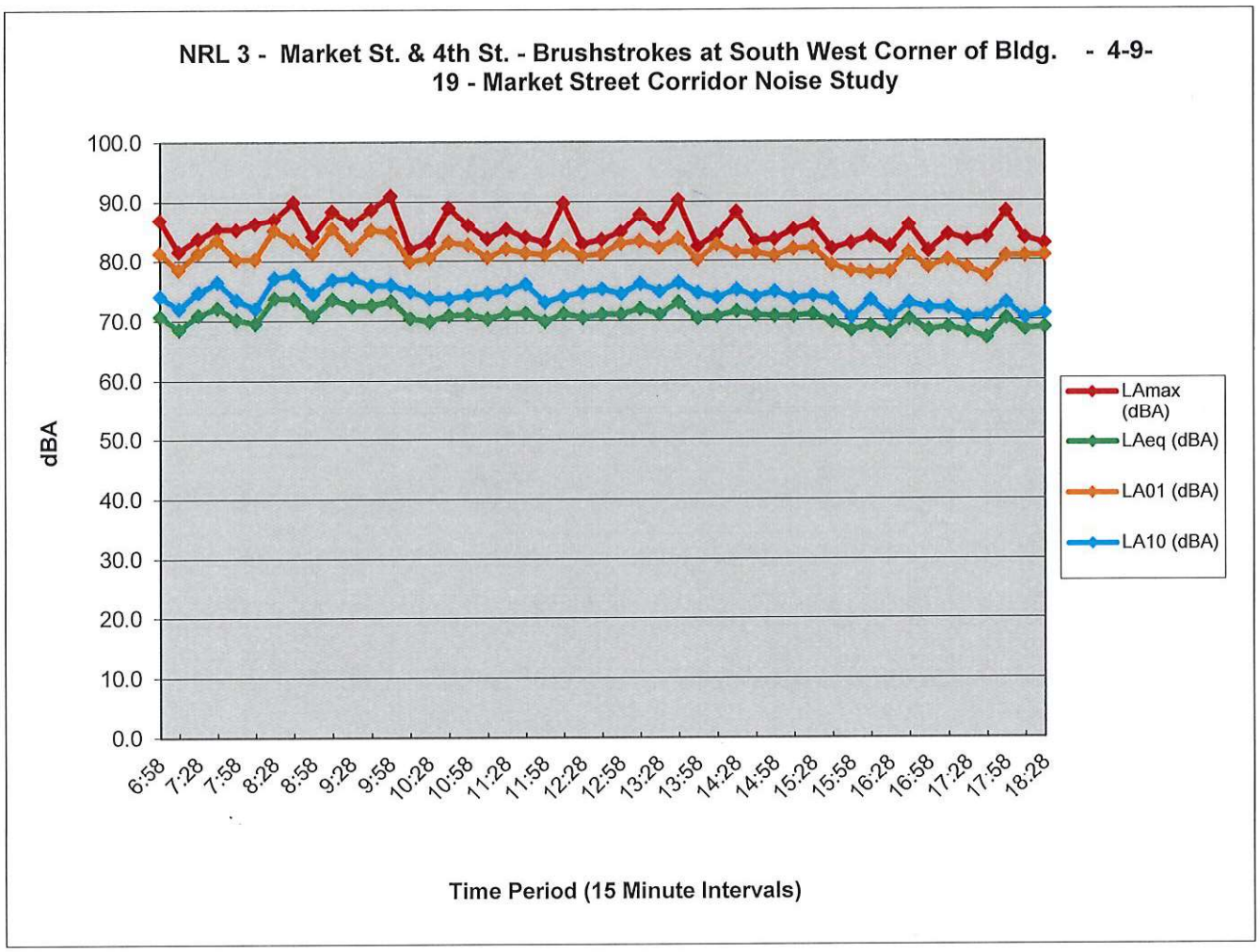
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	6:58	70.8	86.9	81.3	74.1	car & truck stop, idle, accelerate
2	4/9/19	7:13	68.6	81.6	78.6	72.1	through out recording period
3	4/9/19	7:28	71.0	83.7	81.3	74.8	
4	4/9/19	7:43	72.2	85.4	83.5	76.5	
5	4/9/19	7:58	70.2	85.3	80.3	73.5	
6	4/9/19	8:13	69.6	86.3	80.3	72.1	
7	4/9/19	8:28	73.8	87.0	85.2	77.2	
8	4/9/19	8:43	73.7	90.0	83.5	77.7	noisy equipment idle, break squeal, traffic
9	4/9/19	8:58	70.9	84.1	81.3	74.6	street sweeper?
10	4/9/19	9:13	73.6	88.4	85.5	76.9	
11	4/9/19	9:28	72.5	86.3	82.1	77.1	
12	4/9/19	9:43	72.6	88.7	85.2	75.9	
13	4/9/19	9:58	73.3	91.0	84.8	76.0	motorcycle, car, truck traffic
14	4/9/19	10:13	70.4	82.0	79.9	74.9	
15	4/9/19	10:28	69.9	83.1	80.5	73.8	
16	4/9/19	10:43	70.9	89.0	83.1	73.7	noisy car & trucks traffic, door slam
17	4/9/19	10:58	71.1	86.0	82.7	74.3	
18	4/9/19	11:13	70.3	83.7	80.6	74.6	
19	4/9/19	11:28	71.2	85.3	82.0	75.1	
20	4/9/19	11:43	71.3	83.9	81.3	76.1	
21	4/9/19	11:58	69.9	83.1	81.0	73.1	
22	4/9/19	12:13	71.2	89.8	82.6	74.0	noisy car, car & truck traffic, door slam
23	4/9/19	12:28	70.5	82.8	80.8	74.8	
24	4/9/19	12:43	71.1	83.5	81.1	75.3	
25	4/9/19	12:58	71.1	84.8	82.9	74.5	
26	4/9/19	13:13	72.0	87.8	83.3	76.2	
27	4/9/19	13:28	71.1	85.4	82.2	74.9	
28	4/9/19	13:43	73.1	90.3	83.7	76.4	motorcycle, car & truck traffic, door slam
29	4/9/19	13:58	70.4	82.4	80.2	74.7	
30	4/9/19	14:13	70.8	84.3	82.7	73.9	
31	4/9/19	14:28	71.6	88.3	81.5	75.2	door slams, traffic, loud car, stereo
32	4/9/19	14:43	71.0	83.3	81.4	74.0	
33	4/9/19	14:58	70.8	83.6	80.8	74.9	
34	4/9/19	15:13	70.8	85.2	82.0	73.7	
35	4/9/19	15:28	71.1	86.1	82.2	74.2	
36	4/9/19	15:43	69.8	82.0	79.3	73.6	
37	4/9/19	15:58	68.4	82.9	78.3	70.5	
38	4/9/19	16:13	69.1	84.0	78.0	73.4	
39	4/9/19	16:28	68.1	82.4	78.1	70.7	
40	4/9/19	16:43	70.2	86.0	81.3	72.9	loud car, voices, noisy truck
41	4/9/19	16:58	68.4	81.6	78.9	72.1	
42	4/9/19	17:13	68.9	84.3	80.1	72.1	
43	4/9/19	17:28	68.1	83.4	78.8	70.6	
44	4/9/19	17:43	67.1	83.9	77.4	70.8	

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 3 - Market St. & 4th St. - Brushstrokes at South West Corner of Bldg.

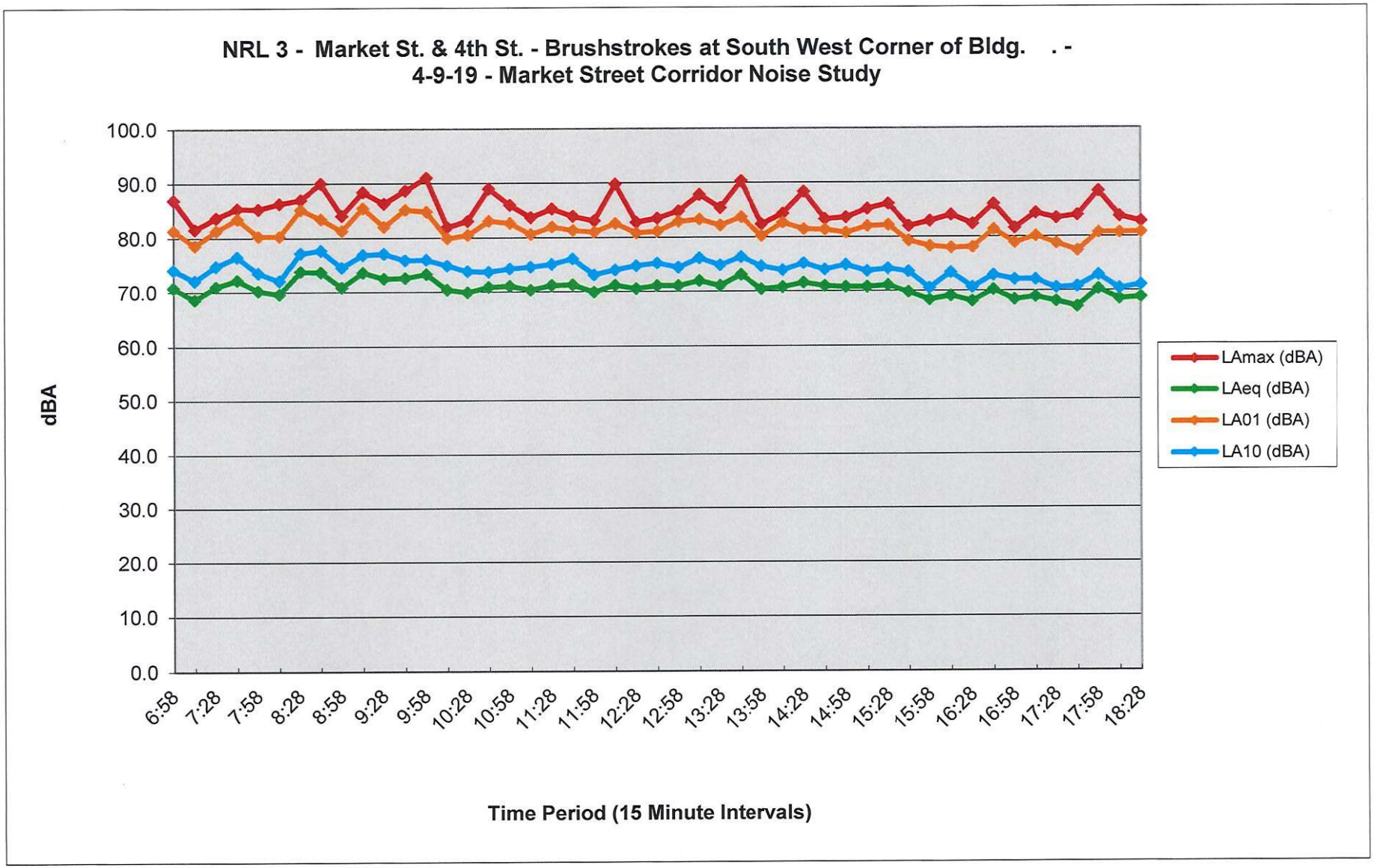
Daytime - 4-9-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	17:58	70.3	88.3	80.7	72.9	noisy cars, truck traffic, motorcycles
46	4/9/19	18:13	68.5	83.7	80.7	70.4	
47	4/9/19	18:28	68.8	82.8	80.8	71.1	



Daytime 0700-1840		
LAeq Average	70.6	dBA
LAmax Average	85.2	dBA
LAmax	91.0	dBA
LA01 Average	81.4	dBA
LA10 Average	74.1	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals


NRL 3 - Market St. & 4th St. - Brushstrokes at South West Corner of Bldg. . -
4-9-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
6:58
7:28
7:58
8:28
8:58
9:28
9:58
10:28
10:58
11:28
11:58
12:28
12:58
13:28
13:58
14:28
14:58
15:28
15:58
16:28
16:58
17:28
17:58
18:28
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (15 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 3 - Market St. & 4th St. - Brushstrokes at South West Corner of Bldg.

Evening & Night - 4-9-19 to 4-10-19 - 15 Minute Time Intervals

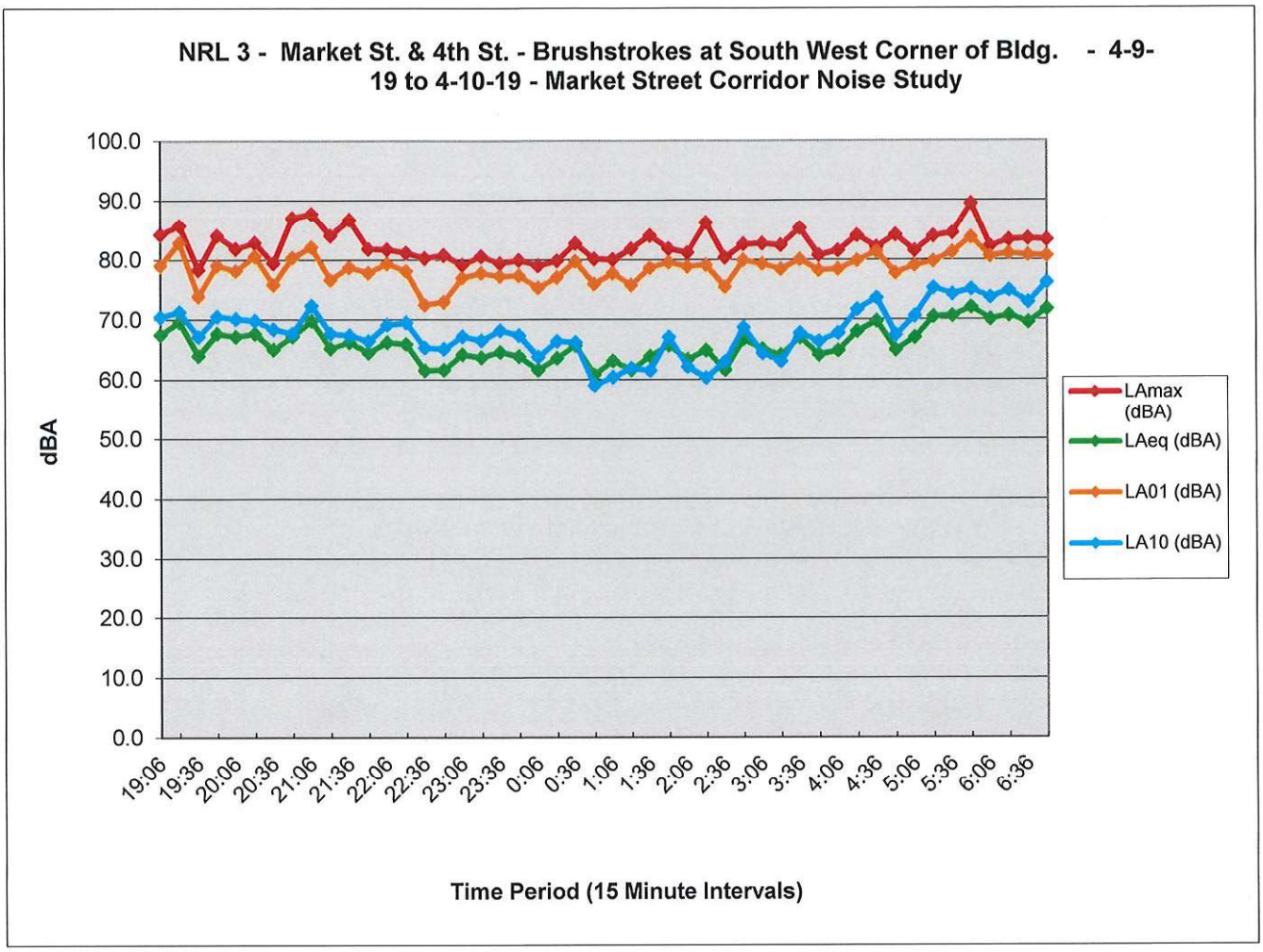
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	19:06	67.5	84.2	79.0	70.4	equip. installation
2	4/9/19	19:21	69.6	85.7	82.8	71.3	dog barking, traffic
3	4/9/19	19:36	64.0	78.3	73.8	67.2	
4	4/9/19	19:51	67.7	84.0	79.0	70.5	
5	4/9/19	20:06	67.2	81.8	78.1	70.1	
6	4/9/19	20:21	67.7	82.8	80.5	69.8	
7	4/9/19	20:36	65.0	79.4	75.8	68.4	
8	4/9/19	20:51	67.2	87.0	80.3	67.7	loud car, door slam, truck idle
9	4/9/19	21:06	69.8	87.7	82.1	72.3	motorcycle, loud car, truck traffic
10	4/9/19	21:21	65.2	84.0	76.6	67.7	
11	4/9/19	21:36	66.2	86.7	78.7	67.4	loud car, truck traffic, talking
12	4/9/19	21:51	64.5	81.8	77.8	66.4	
13	4/9/19	22:06	66.2	81.7	79.3	69.1	
14	4/9/19	22:21	65.9	81.1	78.1	69.5	
15	4/9/19	22:36	61.5	80.2	72.4	65.3	
16	4/9/19	22:51	61.6	80.7	72.9	65.1	
17	4/9/19	23:06	64.2	79.1	76.9	67.2	
18	4/9/19	23:21	63.7	80.5	77.7	66.5	
19	4/9/19	23:36	64.6	79.4	77.2	68.2	
20	4/9/19	23:51	63.9	79.9	77.3	67.4	
21	4/10/19	0:06	61.6	79.0	75.3	63.8	
22	4/10/19	0:21	63.6	79.8	77.0	66.4	
23	4/10/19	0:36	65.7	82.7	79.7	66.2	
24	4/10/19	0:51	60.8	80.1	75.9	59.0	
25	4/10/19	1:06	63.1	80.0	77.7	60.4	
26	4/10/19	1:21	61.6	81.8	75.7	61.9	
27	4/10/19	1:36	63.9	84.0	78.6	61.5	truck traffic
28	4/10/19	1:51	65.7	81.8	79.5	67.1	
29	4/10/19	2:06	63.3	81.1	78.8	62.1	
30	4/10/19	2:21	64.9	86.2	79.1	60.3	car & truck traffic
31	4/10/19	2:36	61.6	80.3	75.4	63.0	
32	4/10/19	2:51	66.7	82.6	79.9	68.7	
33	4/10/19	3:06	65.1	82.7	79.3	64.4	
34	4/10/19	3:21	64.1	82.4	78.4	63.0	
35	4/10/19	3:36	67.0	85.3	80.0	67.7	car & truck traffic
36	4/10/19	3:51	64.1	80.7	78.2	66.3	
37	4/10/19	4:06	64.8	81.5	78.4	67.7	
38	4/10/19	4:21	68.0	84.0	79.8	71.6	
39	4/10/19	4:36	69.7	82.1	81.3	73.5	
40	4/10/19	4:51	64.9	84.1	77.7	67.4	
41	4/10/19	5:06	67.0	81.5	79.0	70.5	
42	4/10/19	5:21	70.4	83.9	79.7	75.2	
43	4/10/19	5:36	70.6	84.4	81.2	74.2	
44	4/10/19	5:51	72.0	89.4	83.7	75.0	car & truck traffic

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 3 - Market St. & 4th St. - Brushstrokes at South West Corner of Bldg.

Evening & Night - 4-9-19 to 4-10-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/10/19	6:06	70.0	82.2	80.5	73.6	
46	4/10/19	6:21	70.7	83.3	81.0	74.8	
47	4/10/19	6:36	69.5	83.5	80.7	72.8	
48	4/10/19	6:51	71.7	83.3	80.6	76.1	

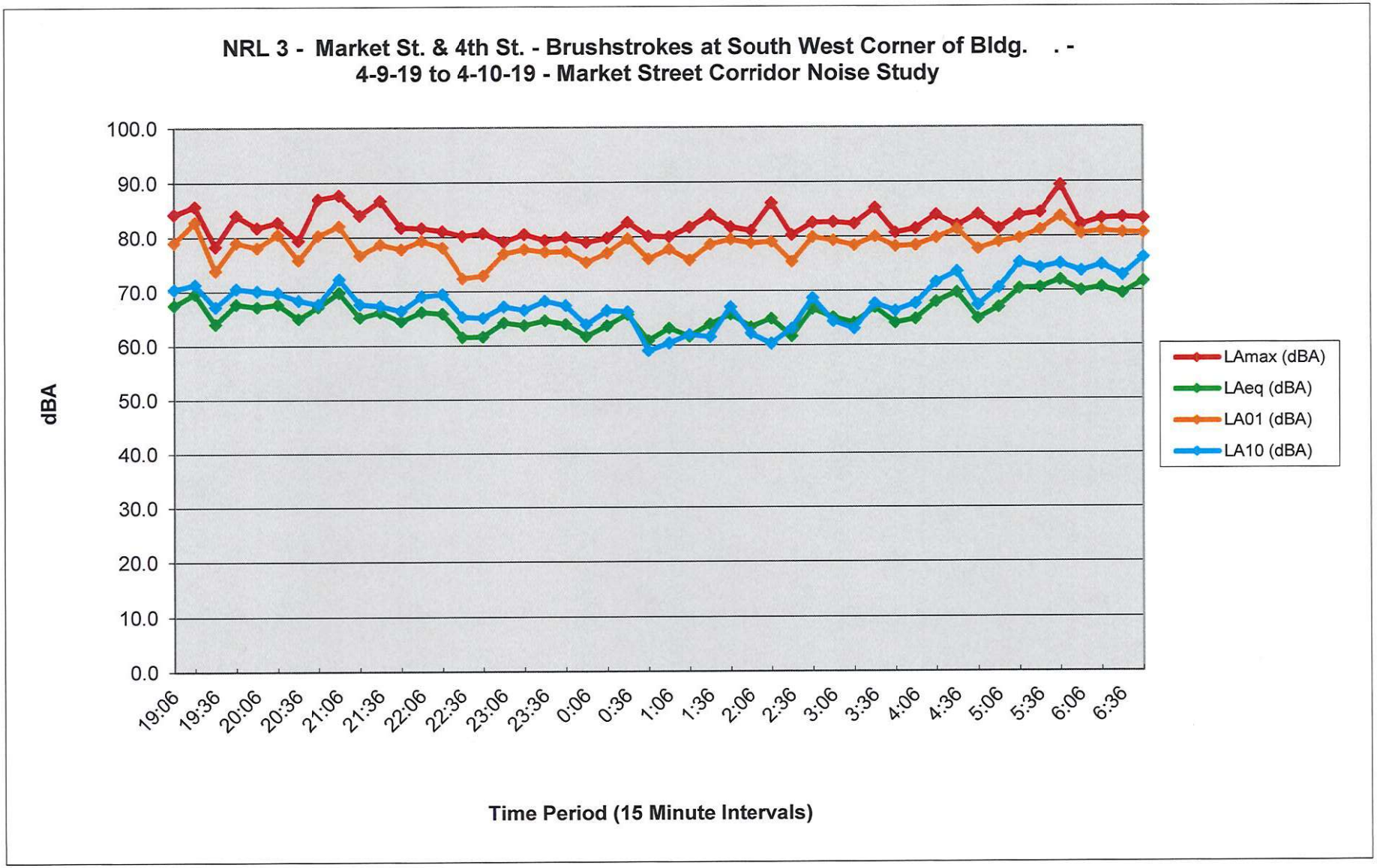


Evening 1900 - 2200		
LAeq Average	66.8	dBA
LAmax Average	83.6	dBA
LAmax	87.7	dBA
LA01 Average	78.7	dBA
LA10 Average	69.1	dBA

Night 2200 - 0700		
LAeq Average	65.7	dBA
LAmax Average	82.1	dBA
LAmax	89.4	dBA
LA01 Average	78.4	dBA
LA10 Average	67.6	dBA

Combined 1900-0700		
LAeq Average	65.9	dBA
LAmax Average	82.5	dBA
LAmax	89.4	dBA
LA01 Average	78.5	dBA
LA10 Average	68.0	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals


NRL 3 - Market St. & 4th St. - Brushstrokes at South West Corner of Bldg. . -
4-9-19 to 4-10-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
19:06
19:36
20:06
20:36
21:06
21:36
22:06
22:36
23:06
23:36
0:06
0:36
1:06
1:36
2:06
2:36
3:06
3:36
4:06
4:36
5:06
5:36
6:06
6:36
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (15 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 4 - Market St. & 5th St. - Pineapple Inn at North West Corner of Bldg.

Daytime - 4-10-19 - 1 Minute Time Intervals

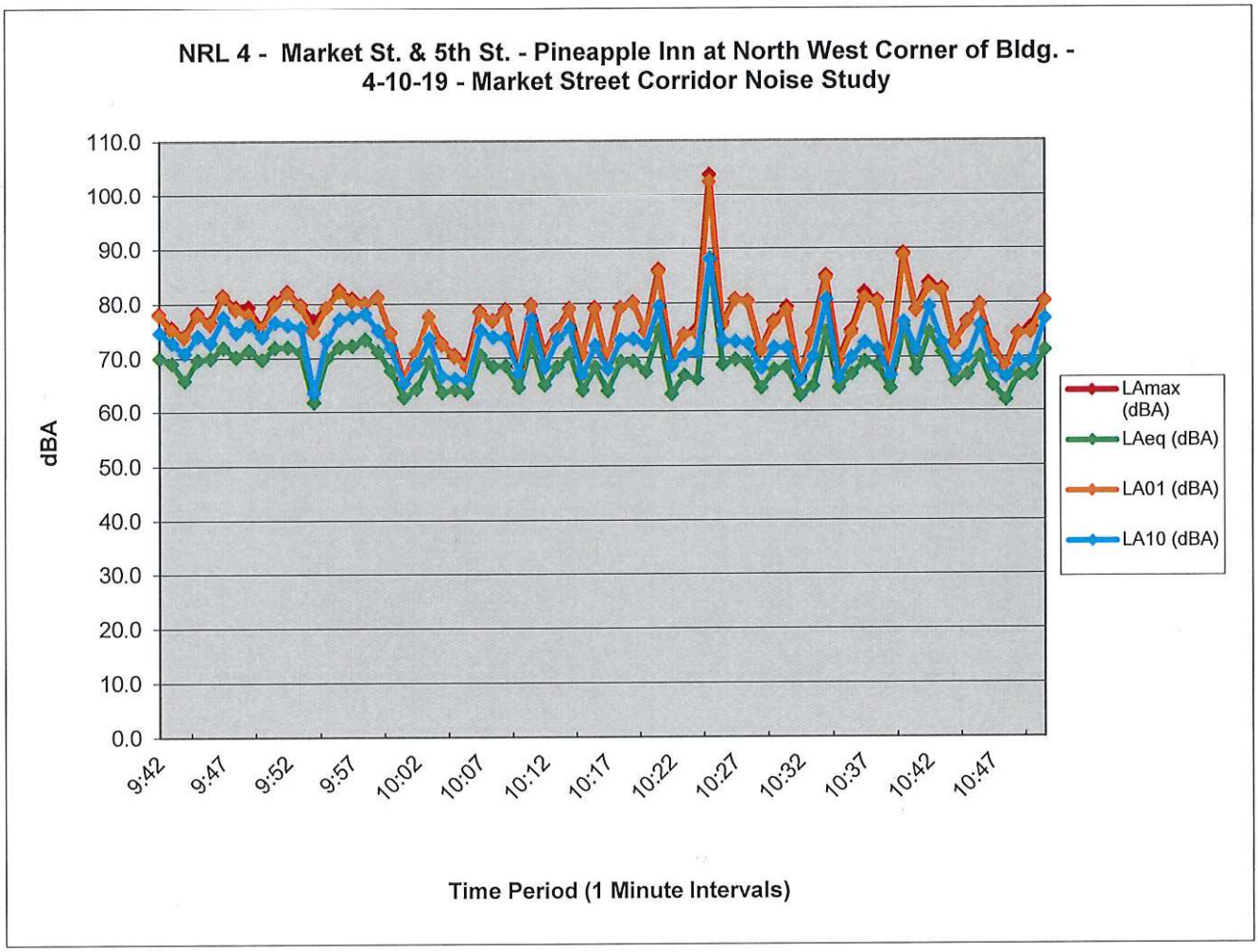
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/10/19	9:42	70.1	78.2	77.9	74.7	
2	4/10/19	9:43	69.1	75.7	75.2	72.9	
3	4/10/19	9:44	65.8	74.1	73.9	70.9	
4	4/10/19	9:45	69.7	78.3	77.9	74.1	
5	4/10/19	9:46	70.0	76.6	76.3	72.9	
6	4/10/19	9:47	72.0	81.5	81.3	77.6	
7	4/10/19	9:48	70.3	79.4	78.9	74.8	
8	4/10/19	9:49	71.4	79.4	78.0	76.2	
9	4/10/19	9:50	69.8	75.7	75.4	74.0	
10	4/10/19	9:51	72.0	80.4	79.9	76.6	
11	4/10/19	9:52	72.1	82.2	82.0	76.1	
12	4/10/19	9:53	71.2	79.8	79.6	75.6	
13	4/10/19	9:54	61.8	77.0	74.9	63.5	
14	4/10/19	9:55	70.0	79.3	79.3	73.3	
15	4/10/19	9:56	72.1	82.5	82.2	77.2	
16	4/10/19	9:57	72.3	81.0	80.5	77.7	
17	4/10/19	9:58	73.5	80.1	80.0	78.2	
18	4/10/19	9:59	71.2	81.2	81.1	75.1	
19	4/10/19	10:00	67.7	74.7	74.6	71.9	
20	4/10/19	10:01	62.7	66.3	66.1	65.3	
21	4/10/19	10:02	64.2	70.9	70.9	68.9	
22	4/10/19	10:03	69.3	77.7	77.7	73.6	
23	4/10/19	10:04	63.6	72.7	72.5	66.6	
24	4/10/19	10:05	64.1	70.6	70.3	66.2	
25	4/10/19	10:06	63.5	69.2	68.4	66.0	
26	4/10/19	10:07	70.6	78.6	78.4	75.1	
27	4/10/19	10:08	68.5	76.9	76.8	73.9	
28	4/10/19	10:09	68.6	78.9	78.7	73.7	
29	4/10/19	10:10	64.5	68.5	68.5	67.3	
30	4/10/19	10:11	72.9	79.8	79.7	77.2	
31	4/10/19	10:12	64.9	71.0	70.3	68.4	
32	4/10/19	10:13	68.4	75.1	75.0	73.6	
33	4/10/19	10:14	70.8	79.1	79.0	75.5	
34	4/10/19	10:15	63.9	70.7	70.5	67.0	
35	4/10/19	10:16	68.4	79.2	79.0	72.3	
36	4/10/19	10:17	63.8	69.4	69.3	68.0	
37	4/10/19	10:18	69.4	79.2	79.1	73.4	
38	4/10/19	10:19	69.4	80.2	80.1	73.5	
39	4/10/19	10:20	67.5	74.9	74.8	72.5	
40	4/10/19	10:21	75.1	86.2	85.8	79.5	loud pick-up truck
41	4/10/19	10:22	63.2	70.3	70.2	68.5	
42	4/10/19	10:23	66.8	74.3	74.2	70.6	
43	4/10/19	10:24	66.0	75.3	74.5	71.0	
44	4/10/19	10:25	88.3	103.8	102.5	88.1	train and horn

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 4 - Market St. & 5th St. - Pineapple Inn at North West Corner of Bldg.

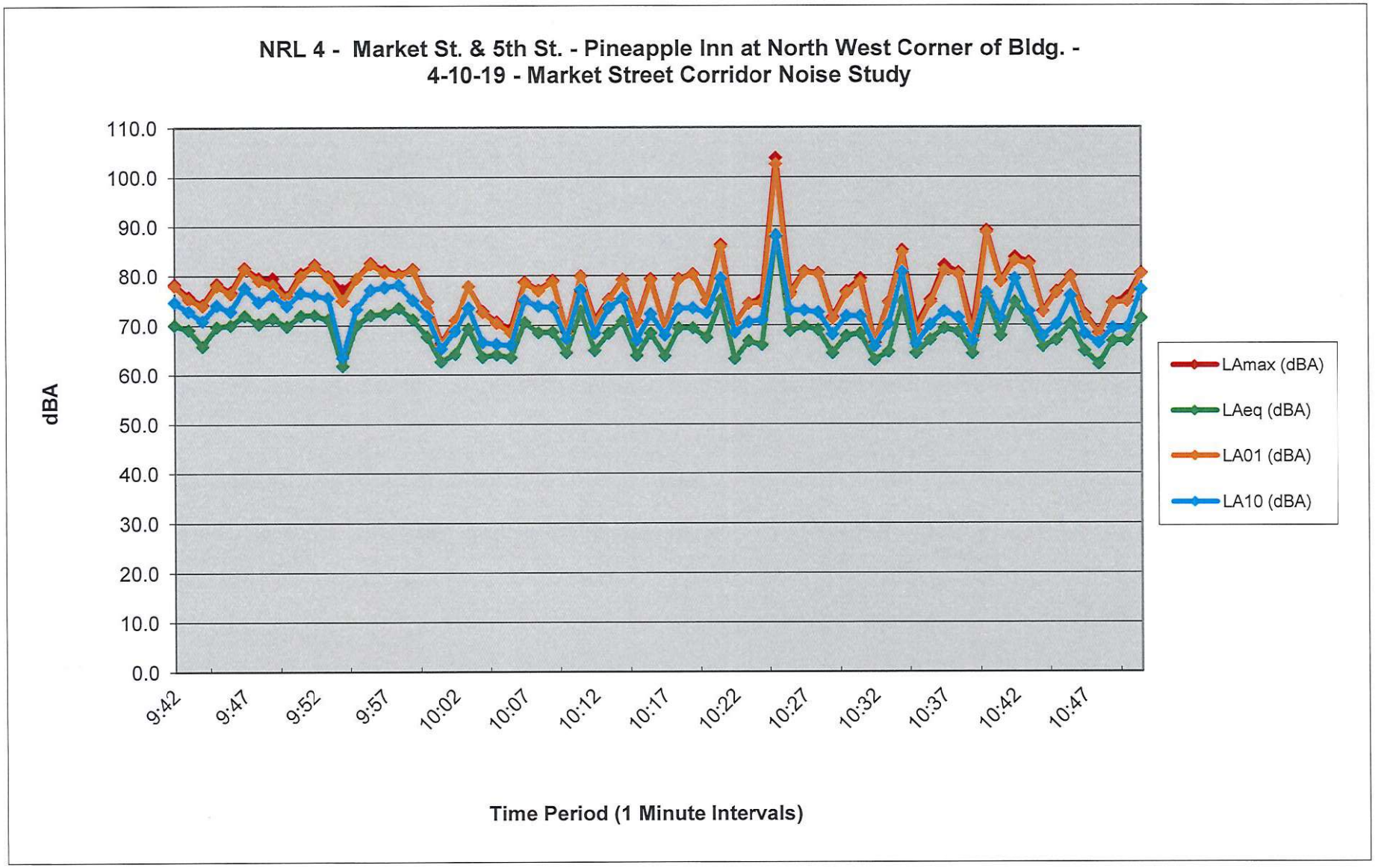
Daytime - 4-10-19 - 1 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/10/19	10:26	68.8	76.5	76.0	73.1	
46	4/10/19	10:27	69.7	80.7	80.6	73.0	
47	4/10/19	10:28	69.0	80.4	80.2	72.6	
48	4/10/19	10:29	64.3	71.5	71.2	68.1	
49	4/10/19	10:30	67.8	76.7	76.4	71.8	
50	4/10/19	10:31	68.3	79.3	78.6	71.8	
51	4/10/19	10:32	62.9	66.3	66.2	65.7	
52	4/10/19	10:33	64.6	74.5	74.4	70.2	
53	4/10/19	10:34	74.8	85.1	84.6	80.7	
54	4/10/19	10:35	64.3	69.8	68.8	66.2	
55	4/10/19	10:36	67.0	75.0	74.5	70.0	
56	4/10/19	10:37	69.3	82.0	80.9	72.7	
57	4/10/19	10:38	68.6	80.5	80.1	71.5	
58	4/10/19	10:39	64.2	69.0	67.6	66.7	
59	4/10/19	10:40	75.7	89.1	88.7	76.5	loud truck
60	4/10/19	10:41	67.8	78.8	78.6	71.4	
61	4/10/19	10:42	74.6	83.7	82.9	79.3	
62	4/10/19	10:43	70.9	82.6	82.2	72.7	
63	4/10/19	10:44	65.6	72.7	72.5	67.6	
64	4/10/19	10:45	66.9	76.6	76.4	70.0	
65	4/10/19	10:46	70.2	79.7	79.6	75.9	
66	4/10/19	10:47	64.7	72.1	71.8	68.2	
67	4/10/19	10:48	62.0	68.3	68.1	66.3	
68	4/10/19	10:49	66.7	74.4	74.3	69.3	
69	4/10/19	10:50	66.8	75.5	74.6	69.4	
70	4/10/19	10:51	71.3	80.3	80.2	77.1	



Dayetime sample with train			Daytime sample with train horn removed		
LAeq Average	68.5	dBA	LAeq Average	68.2	dBA
LAmax Average	77.1	dBA	LAmax Average	76.7	dBA
LAmax	103.8	dBA	LAmax	89.1	dBA
LA01 Average	76.7	dBA	LA01 Average	76.4	dBA
LA10 Average	72.4	dBA	LA10 Average	72.2	dBA

Note: Averages are calculated by determining the arithmatic average for each specified range of time intervals


NRL 4 - Market St. & 5th St. - Pineapple Inn at North West Corner of Bldg. -
4-10-19 - Market Street Corridor Noise Study
dBA
110.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
9:42
9:47
9:52
9:57
10:02
10:07
10:12
10:17
10:22
10:27
10:32
10:37
10:42
10:47
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (1 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 5 - Market St. & 8th St. - 800 Market St. at South East Corner of Bldg.

Evening & Night - 4-8-19 to 4-9-19 - 15 Minute Time Intervals

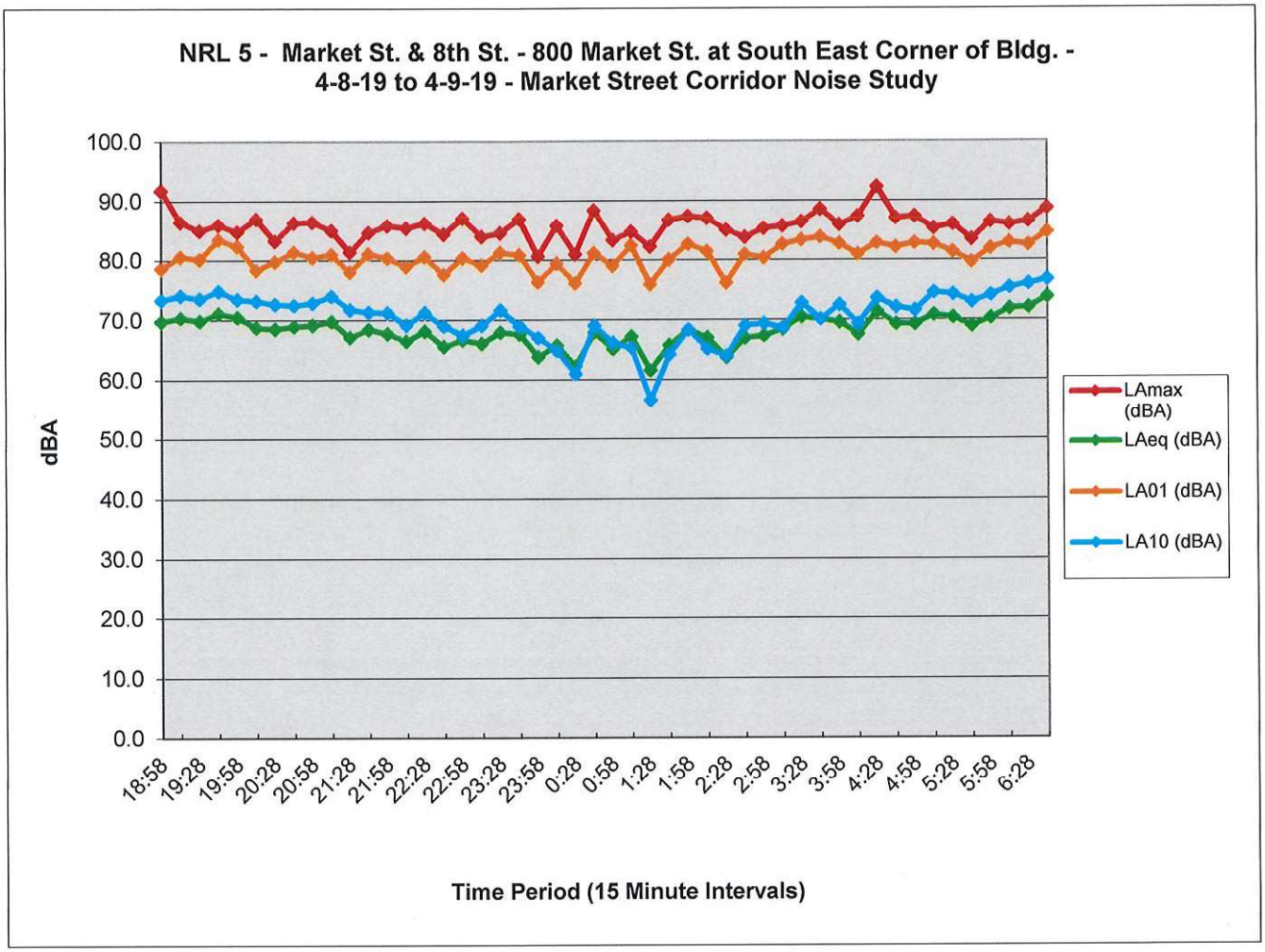
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/8/19	18:58	69.7	91.7	78.6	73.3	motorcycle, traffic
2	4/8/19	19:13	70.3	86.4	80.5	74.0	
3	4/8/19	19:28	69.8	84.9	80.1	73.5	
4	4/8/19	19:43	71.1	85.9	83.4	74.8	
5	4/8/19	19:58	70.4	84.7	82.3	73.4	
6	4/8/19	20:13	68.7	86.9	78.3	73.1	noisy truck, air brake hiss
7	4/8/19	20:28	68.5	83.2	79.7	72.6	
8	4/8/19	20:43	68.9	86.3	81.3	72.4	
9	4/8/19	20:58	69.1	86.4	80.4	72.8	
10	4/8/19	21:13	69.7	85.0	80.9	73.9	
11	4/8/19	21:28	67.1	81.3	78.0	71.7	
12	4/8/19	21:43	68.4	84.6	81.0	71.3	
13	4/8/19	21:58	67.7	85.8	80.3	71.2	
14	4/8/19	22:13	66.4	85.4	78.9	69.1	
15	4/8/19	22:28	68.1	86.2	80.5	71.2	
16	4/8/19	22:43	65.5	84.3	77.5	68.9	loud car
17	4/8/19	22:58	66.6	87.0	80.3	67.4	noisy truck
18	4/8/19	23:13	66.0	83.9	79.1	69.0	
19	4/8/19	23:28	67.9	84.5	81.2	71.6	
20	4/8/19	23:43	67.6	86.9	80.8	68.9	passing car and truck traffic
21	4/8/19	23:58	63.8	80.6	76.3	67.0	
22	4/9/19	0:13	65.7	85.8	79.4	64.8	
23	4/9/19	0:28	62.2	80.9	76.1	60.9	
24	4/9/19	0:43	67.9	88.3	81.1	69.0	loud car, passing trucks, door slam
25	4/9/19	0:58	65.1	83.3	79.0	66.1	
26	4/9/19	1:13	67.2	84.7	82.4	65.3	
27	4/9/19	1:28	61.5	82.2	75.9	56.5	
28	4/9/19	1:43	65.7	86.7	80.0	64.2	
29	4/9/19	1:58	68.3	87.3	82.6	68.3	car & truck traffic
30	4/9/19	2:13	67.0	87.0	81.4	65.1	
31	4/9/19	2:28	63.7	85.0	76.1	63.9	
32	4/9/19	2:43	66.9	83.8	80.9	69.0	
33	4/9/19	2:58	67.3	85.3	80.3	69.3	
34	4/9/19	3:13	68.4	85.7	82.6	68.6	
35	4/9/19	3:28	70.4	86.4	83.3	72.7	
36	4/9/19	3:43	70.0	88.5	83.8	70.0	noisy car, passing trucks
37	4/9/19	3:58	69.5	85.9	82.7	72.4	
38	4/9/19	4:13	67.5	87.3	80.9	69.2	
39	4/9/19	4:28	71.3	92.3	82.8	73.5	loud car
40	4/9/19	4:43	69.2	87.0	82.1	72.0	
41	4/9/19	4:58	69.2	87.3	82.8	71.5	
42	4/9/19	5:13	70.8	85.3	82.6	74.5	
43	4/9/19	5:28	70.3	86.0	81.3	74.2	
44	4/9/19	5:43	68.9	83.4	79.6	72.9	

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 5 - Market St. & 8th St. - 800 Market St. at South East Corner of Bldg.

Evening & Night - 4-8-19 to 4-9-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	5:58	70.2	86.4	81.9	74.0	
46	4/9/19	6:13	71.8	86.0	82.9	75.3	loud car
47	4/9/19	6:28	72.0	86.5	82.5	75.9	
48	4/9/19	6:43	73.7	88.7	84.6	76.6	noisy car, truck idle

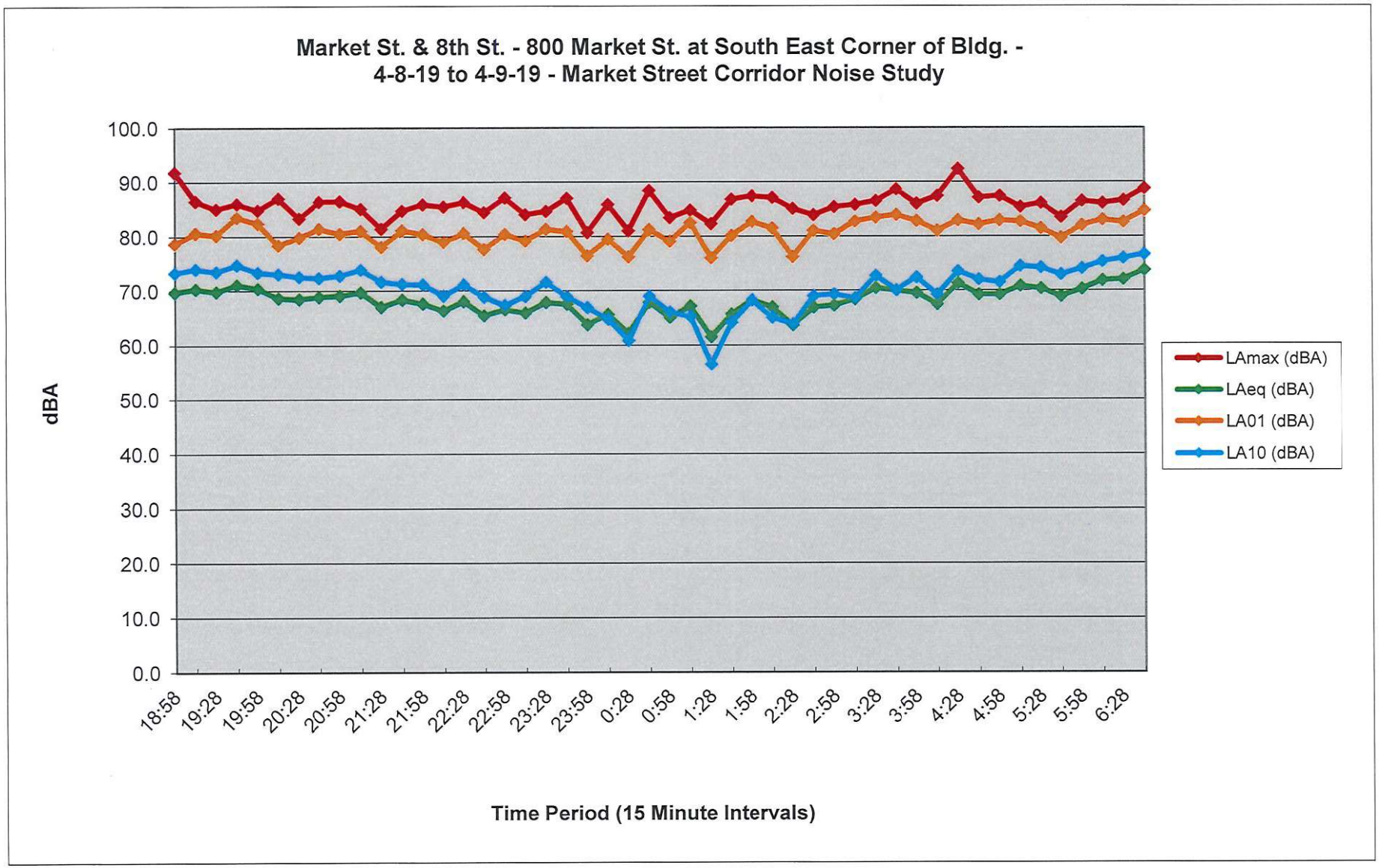


Evening 1900 - 2200		
LAeq Average	69.3	dBA
LAmax Average	85.6	dBA
LAmax	91.7	dBA
LA01 Average	80.4	dBA
LA10 Average	73.1	dBA

Night 2200 - 0700		
LAeq Average	67.8	dBA
LAmax Average	85.8	dBA
LAmax	92.3	dBA
LA01 Average	80.7	dBA
LA10 Average	69.4	dBA

Combined 1900-0700		
LAeq Average	68.2	dBA
LAmax Average	85.7	dBA
LAmax	92.3	dBA
LA01 Average	80.6	dBA
LA10 Average	70.4	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals


Market St. & 8th St. - 800 Market St. at South East Corner of Bldg. -
4-8-19 to 4-9-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
18:58
19:28
19:58
20:28
20:58
21:28
21:58
22:28
22:58
23:28
23:58
0:28
0:58
1:28
1:58
2:28
2:58
3:28
3:58
4:28
4:58
5:28
5:58
6:28
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (15 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 5 - Market St. & 8th St. - 800 Market St. at South East Corner of Bldg.

Daytime - 4-9-19 - 15 Minute Time Intervals

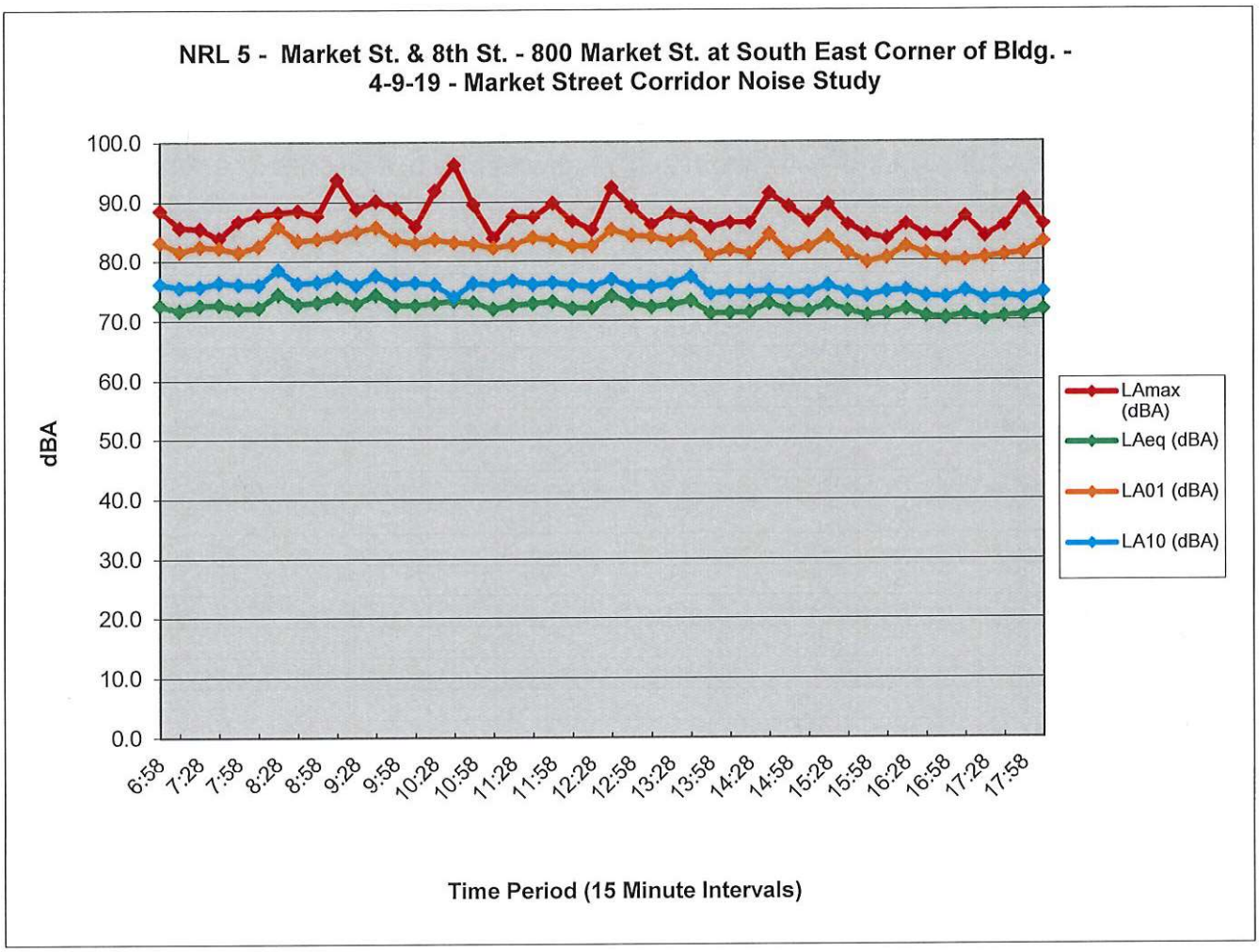
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	6:58	72.6	88.6	83.1	76.2	passing car & trucks
2	4/9/19	7:13	71.7	85.6	81.6	75.6	
3	4/9/19	7:28	72.6	85.4	82.4	75.7	
4	4/9/19	7:43	72.7	83.8	82.2	76.4	
5	4/9/19	7:58	72.1	86.7	81.5	76.1	
6	4/9/19	8:13	72.2	87.8	82.5	76.0	
7	4/9/19	8:28	74.5	88.2	85.8	78.6	
8	4/9/19	8:43	72.8	88.6	83.4	76.3	noisy car
9	4/9/19	8:58	73.1	87.7	83.7	76.5	
10	4/9/19	9:13	73.9	93.8	84.2	77.4	loud car, motorcycle, passing trucks
11	4/9/19	9:28	72.9	88.9	84.9	76.0	
12	4/9/19	9:43	74.4	90.2	85.7	77.6	passing cars & trucks
13	4/9/19	9:58	72.6	89.0	83.6	76.2	
14	4/9/19	10:13	72.6	85.8	83.0	76.4	
15	4/9/19	10:28	73.0	91.9	83.6	76.1	loud car or motorcycle
16	4/9/19	10:43	73.3	96.3	83.1	74.0	loud truck
17	4/9/19	10:58	73.1	89.6	82.9	76.3	car & truck traffic
18	4/9/19	11:13	72.0	83.8	82.2	76.0	
19	4/9/19	11:28	72.6	87.6	82.7	76.7	
20	4/9/19	11:43	72.9	87.4	83.9	76.1	
21	4/9/19	11:58	73.2	89.8	83.5	76.4	loud car or motorcycle
22	4/9/19	12:13	72.1	86.7	82.5	76.0	
23	4/9/19	12:28	72.2	85.2	82.5	75.7	
24	4/9/19	12:43	74.2	92.4	85.2	76.9	loud car, passing cars & trucks
25	4/9/19	12:58	72.9	89.2	84.2	75.6	
26	4/9/19	13:13	72.3	86.1	84.0	75.7	
27	4/9/19	13:28	72.7	88.0	83.3	76.2	
28	4/9/19	13:43	73.3	87.3	84.1	77.3	
29	4/9/19	13:58	71.2	85.6	80.9	74.5	
30	4/9/19	14:13	71.3	86.4	81.8	74.8	
31	4/9/19	14:28	71.4	86.4	81.2	74.8	
32	4/9/19	14:43	72.9	91.4	84.4	75.0	noisy cars and trucks
33	4/9/19	14:58	71.8	89.2	81.3	74.6	loud car
34	4/9/19	15:13	71.6	86.7	82.3	74.8	
35	4/9/19	15:28	72.8	89.6	84.0	75.9	
36	4/9/19	15:43	71.7	86.1	81.3	74.8	
37	4/9/19	15:58	70.9	84.4	79.8	74.2	
38	4/9/19	16:13	71.2	83.7	80.5	74.9	
39	4/9/19	16:28	71.9	86.2	82.4	75.1	
40	4/9/19	16:43	70.8	84.3	81.2	74.1	
41	4/9/19	16:58	70.4	84.1	80.2	73.9	
42	4/9/19	17:13	71.1	87.5	80.1	75.0	
43	4/9/19	17:28	70.2	84.1	80.5	73.8	
44	4/9/19	17:43	70.7	85.9	80.9	74.2	

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 5 - Market St. & 8th St. - 800 Market St. at South East Corner of Bldg.

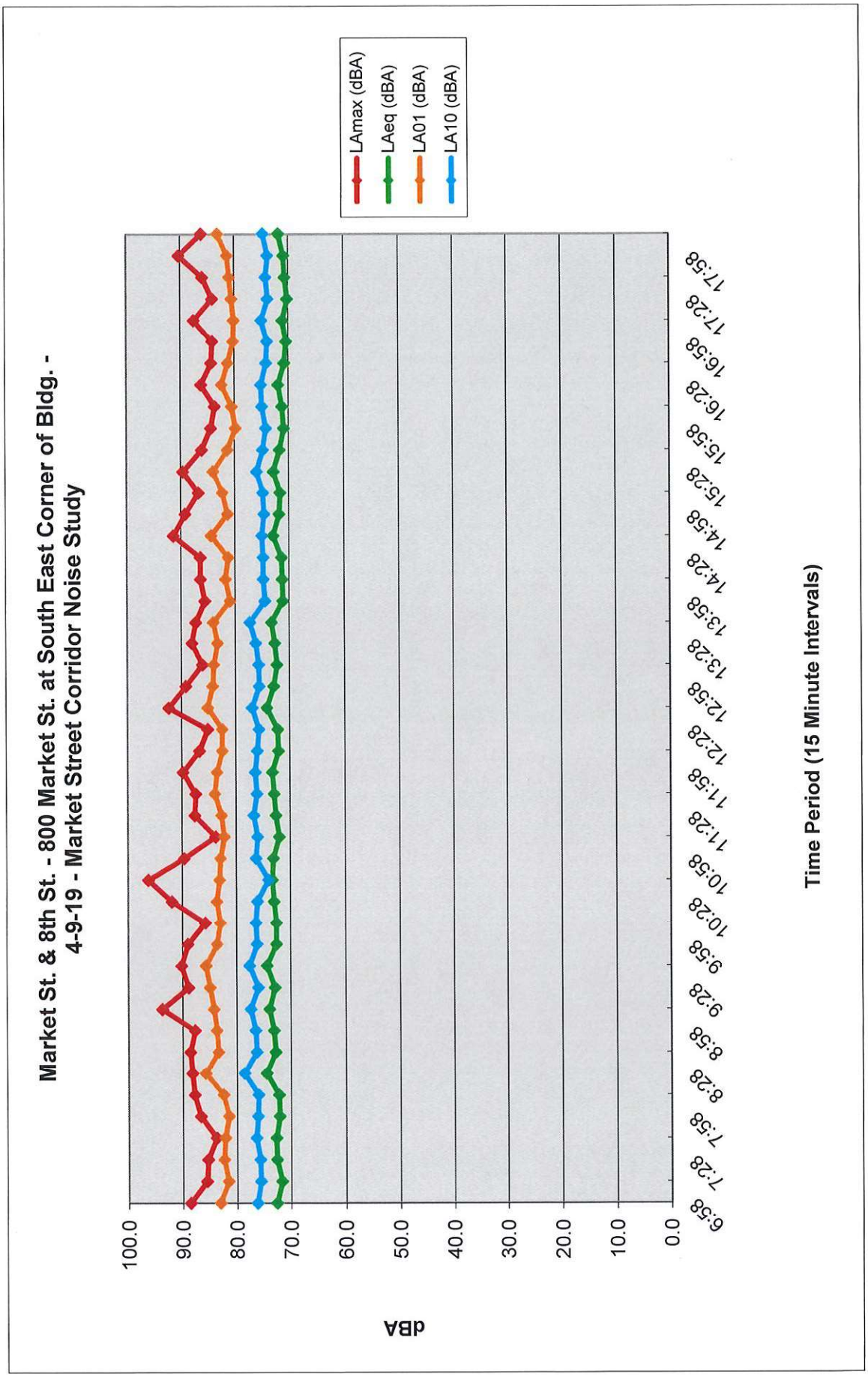
Daytime - 4-9-19 - 15 Minute Time Intervals

Test	Date	Time	LAeq	LAmax	LA01	LA10	Comments
45	4/9/19	17:58	70.9	90.3	81.3	73.8	motorcycle
46	4/9/19	18:13	71.8	86.1	83.1	74.7	



Daytime 0700-1828		
LAeq Average	72.3	dBA
LAmax Average	87.6	dBA
LAmax	96.3	dBA
LA01 Average	82.7	dBA
LA10 Average	75.6	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals


Market St. & 8th St. - 800 Market St. at South East Corner of Bldg. -
4-9-19 - Market Street Corridor Noise Study
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
6:58
7:28
7:58
8:28
8:58
9:28
9:58
10:28
10:58
11:28
11:58
12:28
12:58
13:28
13:58
14:28
14:58
15:28
15:58
16:28
16:58
17:28
17:58
Time Period (15 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 5 - Market St. & 8th St. - 800 Market St. at South East Corner of Bldg.

Evening & Night - 4-9-19 to 4-10-19 - 15 Minute Time Intervals

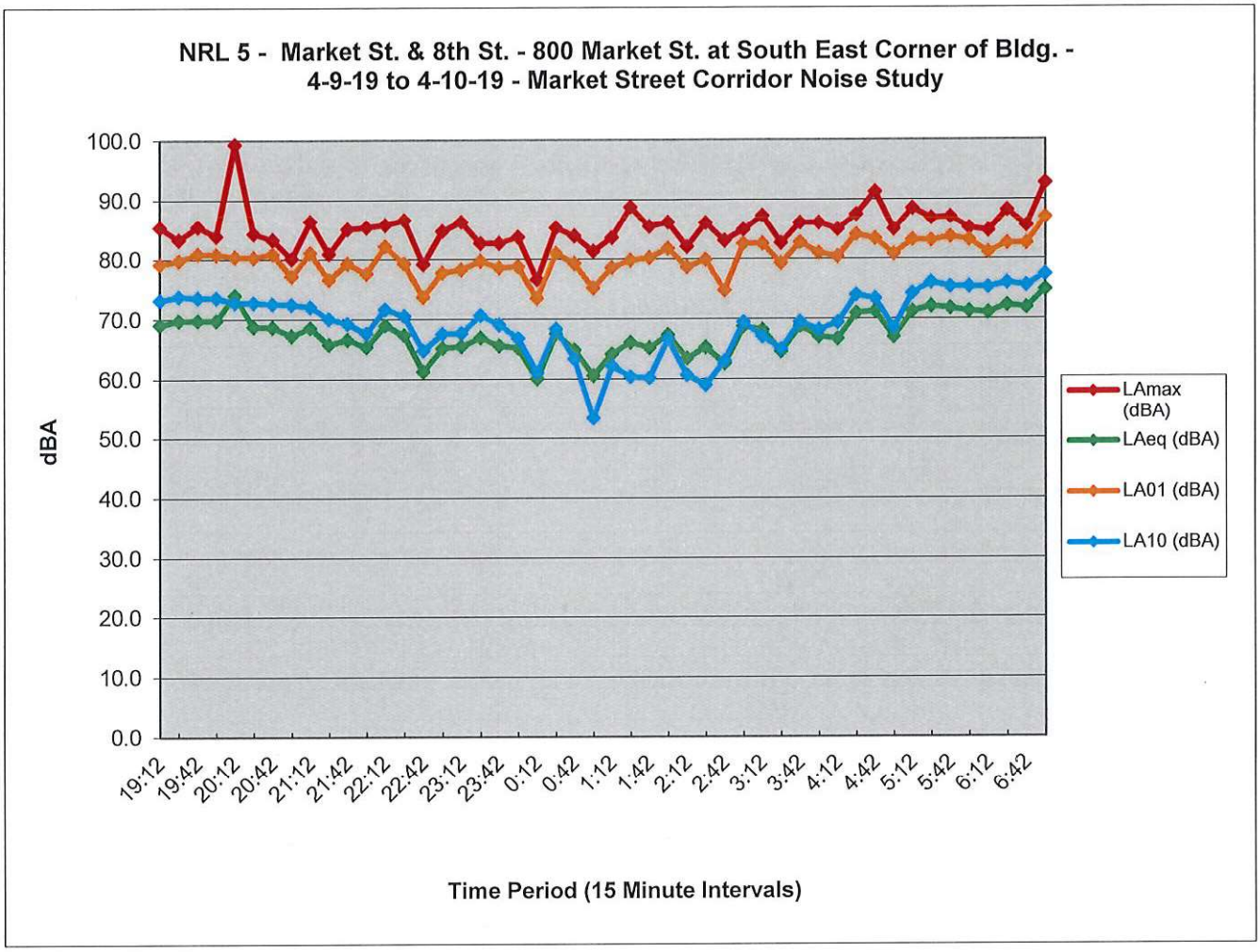
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	19:12	69.1	85.4	79.2	73.2	equip. maint.
2	4/9/19	19:27	69.8	83.3	79.8	73.8	
3	4/9/19	19:42	69.8	85.5	80.9	73.6	
4	4/9/19	19:57	69.8	83.9	80.8	73.6	
5	4/9/19	20:12	74.0	99.3	80.4	72.8	motorcycle or loud car
6	4/9/19	20:27	68.8	84.3	80.3	72.8	
7	4/9/19	20:42	68.7	83.3	80.9	72.6	
8	4/9/19	20:57	67.3	80.1	77.2	72.5	
9	4/9/19	21:12	68.6	86.4	81.1	72.1	
10	4/9/19	21:27	65.8	80.9	76.6	70.1	
11	4/9/19	21:42	66.6	85.1	79.3	69.3	
12	4/9/19	21:57	65.4	85.4	77.6	67.7	
13	4/9/19	22:12	69.0	85.8	82.2	71.7	
14	4/9/19	22:27	67.4	86.6	79.3	70.6	
15	4/9/19	22:42	61.3	79.2	73.7	64.8	
16	4/9/19	22:57	65.2	84.7	77.8	67.6	
17	4/9/19	23:12	65.5	86.3	78.3	67.7	
18	4/9/19	23:27	66.9	82.7	79.7	70.7	
19	4/9/19	23:42	65.6	82.7	78.6	69.1	
20	4/9/19	23:57	65.2	83.7	78.8	66.8	
21	4/10/19	0:12	60.1	76.6	73.5	61.1	
22	4/10/19	0:27	67.6	85.3	81.0	68.4	
23	4/10/19	0:42	64.9	83.9	79.3	63.4	
24	4/10/19	0:57	60.6	81.3	75.2	53.4	
25	4/10/19	1:12	64.2	83.6	78.6	62.2	
26	4/10/19	1:27	66.1	88.8	79.8	60.4	passing truck & air brake hiss
27	4/10/19	1:42	65.2	85.5	80.2	60.2	
28	4/10/19	1:57	67.4	86.2	81.8	66.7	
29	4/10/19	2:12	63.5	82.1	78.7	60.7	
30	4/10/19	2:27	65.3	86.1	79.9	59.0	
31	4/10/19	2:42	62.6	83.1	74.8	63.0	
32	4/10/19	2:57	68.8	84.9	82.6	69.5	
33	4/10/19	3:12	68.2	87.3	82.6	67.1	
34	4/10/19	3:27	64.6	82.7	79.3	65.0	
35	4/10/19	3:42	68.8	86.1	82.8	69.5	
36	4/10/19	3:57	67.1	86.1	81.0	68.2	
37	4/10/19	4:12	66.7	85.0	80.4	69.4	
38	4/10/19	4:27	71.0	87.5	84.1	74.0	
39	4/10/19	4:42	71.3	91.3	83.4	73.4	noisy truck
40	4/10/19	4:57	67.0	85.0	80.8	68.5	
41	4/10/19	5:12	71.3	88.5	83.2	74.3	noisy truck
42	4/10/19	5:27	72.1	86.9	83.1	76.1	
43	4/10/19	5:42	71.8	87.1	83.7	75.4	
44	4/10/19	5:57	71.3	85.2	83.2	75.4	

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 5 - Market St. & 8th St. - 800 Market St. at South East Corner of Bldg.

Evening & Night - 4-9-19 to 4-10-19 - 15 Minute Time Intervals

Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/10/19	6:12	71.1	84.7	81.1	75.3	
46	4/10/19	6:27	72.3	88.2	82.6	76.0	
47	4/10/19	6:42	71.9	85.6	82.6	75.6	
48	4/10/19	6:57	74.9	92.8	87.0	77.4	noisy equipment - street sweeper?

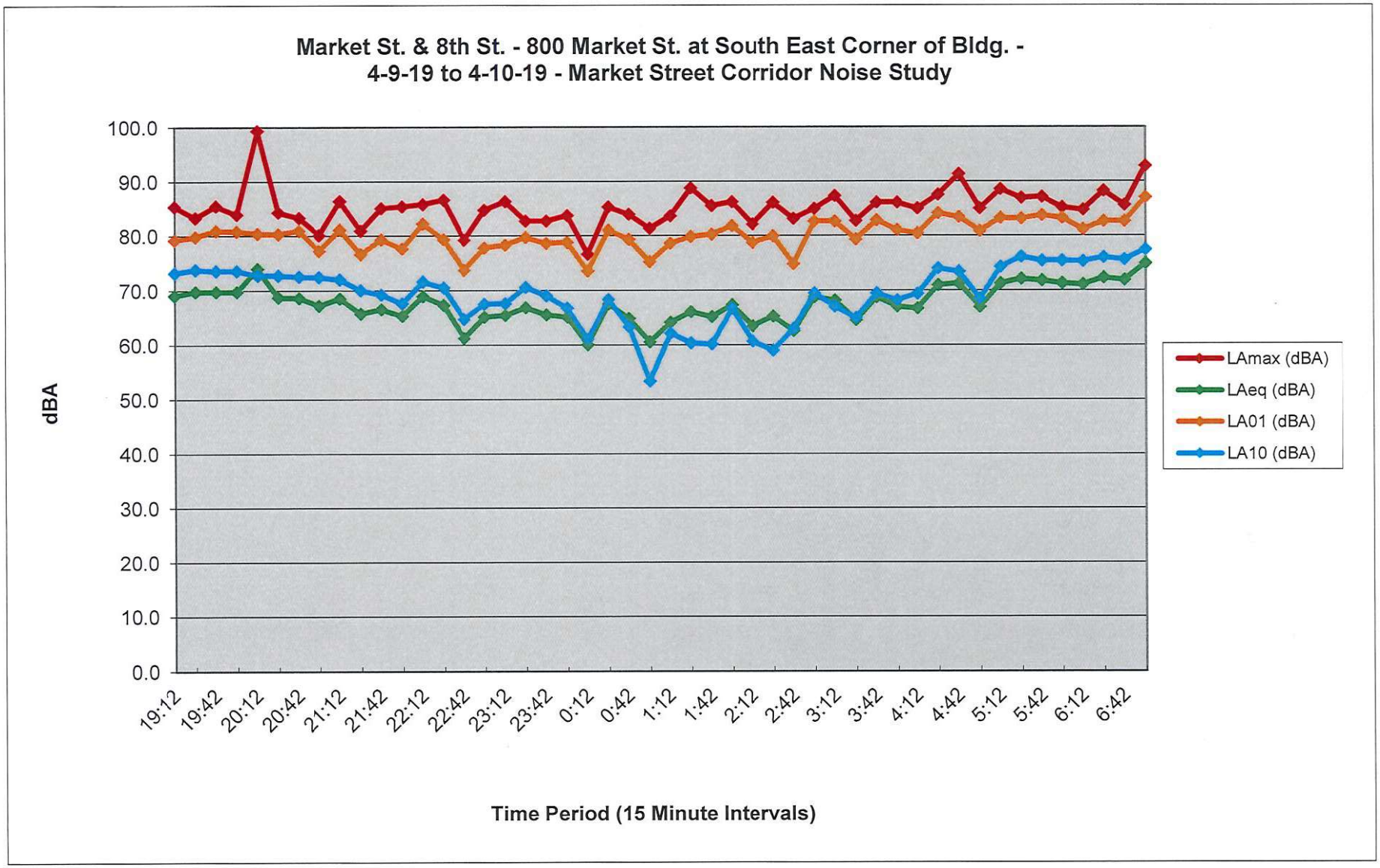


Evening 1900 - 2200		
LAeq Average	68.6	dBA
LAmax Average	85.2	dBA
LAmax	99.3	dBA
LA01 Average	79.5	dBA
LA10 Average	72.0	dBA

Night 2200 - 0700		
LAeq Average	67.3	dBA
LAmax Average	85.3	dBA
LAmax	92.8	dBA
LA01 Average	80.4	dBA
LA10 Average	68.3	dBA

Combined 1900-0700		
LAeq Average	67.7	dBA
LAmax Average	85.3	dBA
LAmax	99.3	dBA
LA01 Average	80.2	dBA
LA10 Average	69.2	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals


Market St. & 8th St. - 800 Market St. at South East Corner of Bldg. -
4-9-19 to 4-10-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
19:12
19:42
20:12
20:42
21:12
21:42
22:12
22:42
23:12
23:42
0:12
0:42
1:12
1:42
2:12
2:42
3:12
3:42
4:12
4:42
5:12
5:42
6:12
6:42
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (15 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 6 - Market St. & Front St. - 100 Market St. at South East Corner of Bldg.

Daytime - 4-9-19 - 1 Minute Time Intervals

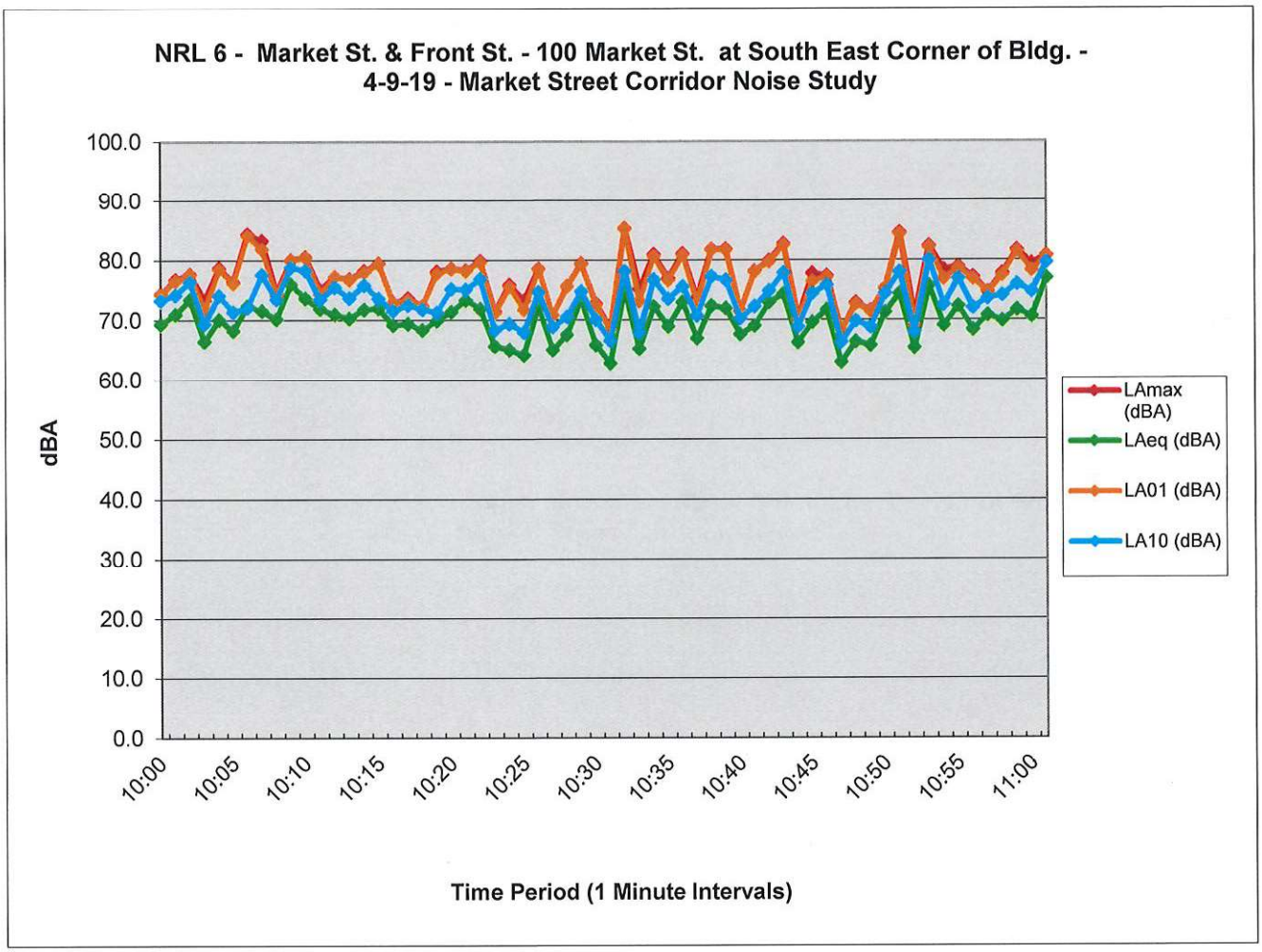
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	10:00	69.3	74.3	74.2	73.2	occasional Genie lift engine & hand tools in use at 101 Market St.- siding painting throughout the day approx. 60' - 80' distance
2	4/9/19	10:01	70.9	76.7	76.5	74.1	
3	4/9/19	10:02	73.4	77.6	77.5	76.3	
4	4/9/19	10:03	66.4	73.2	71.7	69.3	
5	4/9/19	10:04	70.0	78.6	78.4	74.0	
6	4/9/19	10:05	68.2	76.3	76.1	71.3	
7	4/9/19	10:06	72.3	84.3	84.0	72.0	refuse trucks stops, idles, air brake hiss
8	4/9/19	10:07	71.5	83.2	81.8	77.5	
9	4/9/19	10:08	70.1	74.5	74.1	73.4	
10	4/9/19	10:09	75.9	80.0	79.9	78.7	
11	4/9/19	10:10	73.6	80.5	80.4	78.2	
12	4/9/19	10:11	71.8	75.0	74.3	73.4	
13	4/9/19	10:12	70.9	77.2	77.2	75.4	
14	4/9/19	10:13	70.2	76.8	76.7	73.6	
15	4/9/19	10:14	71.7	78.1	77.9	75.7	
16	4/9/19	10:15	71.9	79.4	79.3	73.5	
17	4/9/19	10:16	69.1	72.8	72.7	71.5	
18	4/9/19	10:17	69.3	73.6	73.3	72.4	
19	4/9/19	10:18	68.3	72.3	72.3	71.7	
20	4/9/19	10:19	69.8	78.0	77.7	71.2	
21	4/9/19	10:20	71.3	78.5	78.4	75.1	
22	4/9/19	10:21	73.3	78.2	78.1	75.0	brake squeal
23	4/9/19	10:22	71.8	79.8	79.6	76.8	
24	4/9/19	10:23	65.6	71.4	71.2	68.3	
25	4/9/19	10:24	65.0	75.8	75.5	69.3	car stereo
26	4/9/19	10:25	64.1	73.2	71.7	67.9	
27	4/9/19	10:26	72.2	78.5	78.4	74.6	
28	4/9/19	10:27	65.0	70.8	70.8	68.8	
29	4/9/19	10:28	67.5	75.6	75.5	70.5	
30	4/9/19	10:29	73.4	79.4	79.3	74.7	
31	4/9/19	10:30	65.8	72.7	72.5	70.0	
32	4/9/19	10:31	62.8	68.5	68.3	66.5	
33	4/9/19	10:32	75.2	85.3	85.2	78.1	2 passing trucks
34	4/9/19	10:33	65.2	75.1	73.1	67.9	
35	4/9/19	10:34	72.2	80.9	80.6	76.7	
36	4/9/19	10:35	68.9	76.9	76.6	73.5	
37	4/9/19	10:36	72.9	81.0	80.8	75.5	
38	4/9/19	10:37	66.9	73.6	72.8	70.7	
39	4/9/19	10:38	72.3	81.7	81.6	77.2	
40	4/9/19	10:39	71.9	81.8	81.6	76.6	
41	4/9/19	10:40	67.6	71.4	71.3	70.2	
42	4/9/19	10:41	69.0	78.1	78.0	72.2	
43	4/9/19	10:42	72.9	79.9	79.7	74.8	
44	4/9/19	10:43	74.3	82.7	82.5	77.8	

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 6 - Market St. & Front St. - 100 Market St. at South East Corner of Bldg.

Daytime - 4-9-19 - 1 Minute Time Intervals

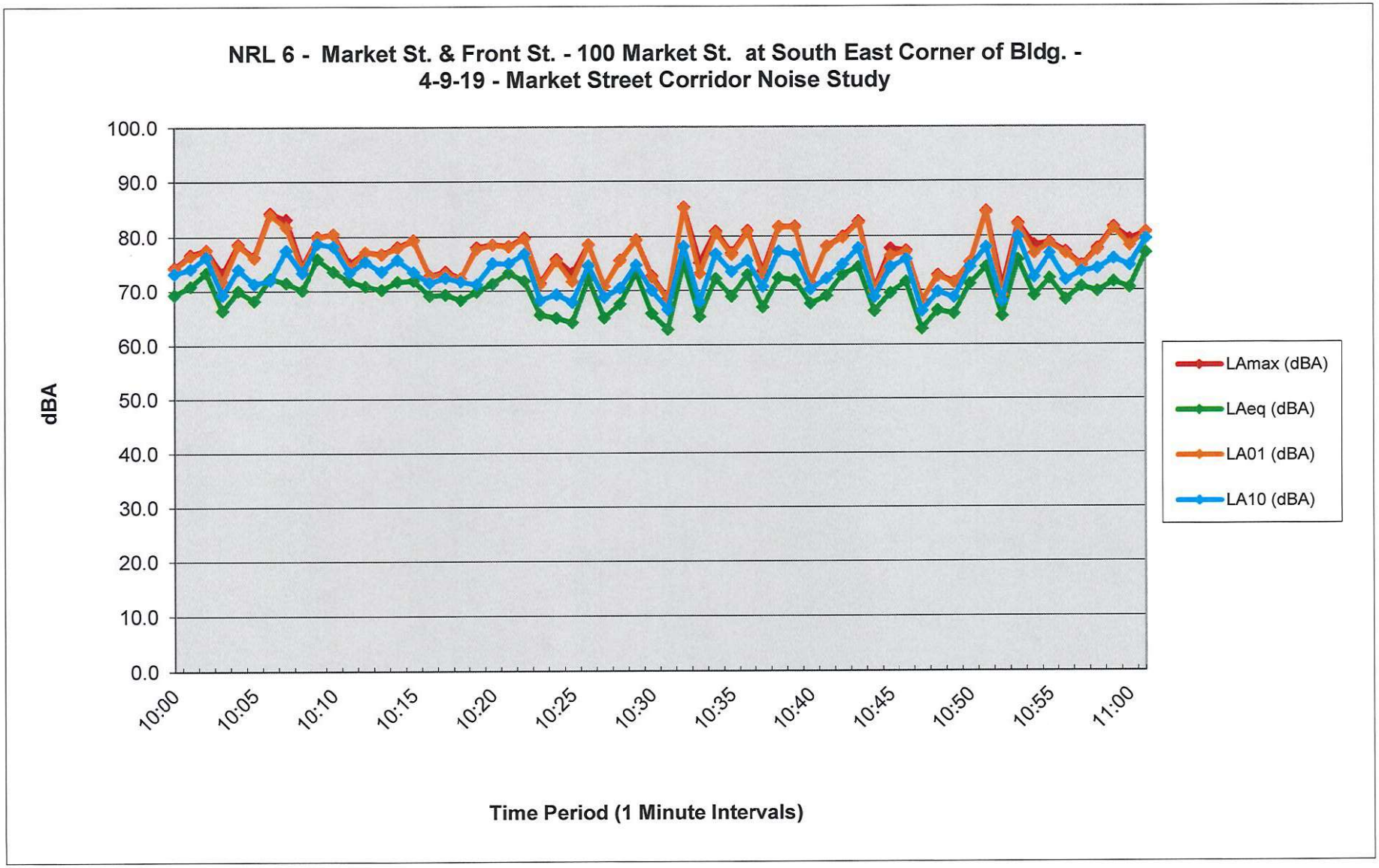
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	10:44	66.2	70.3	69.9	68.8	
46	4/9/19	10:45	69.5	77.7	76.4	74.3	
47	4/9/19	10:46	71.6	77.3	77.1	75.7	
48	4/9/19	10:47	62.9	68.1	68.1	66.2	
49	4/9/19	10:48	66.3	72.8	72.6	69.7	
50	4/9/19	10:49	65.7	71.5	71.4	68.7	
51	4/9/19	10:50	71.2	75.2	75.1	74.3	
52	4/9/19	10:51	74.3	84.5	84.3	77.9	3 passing trucks
53	4/9/19	10:52	65.3	70.5	69.0	68.0	
54	4/9/19	10:53	75.6	82.3	82.1	79.9	2 passing trucks, 1 idle truck Front St.
55	4/9/19	10:54	69.0	78.3	76.8	72.4	
56	4/9/19	10:55	72.2	78.8	78.6	76.8	
57	4/9/19	10:56	68.3	77.1	76.8	71.9	
58	4/9/19	10:57	70.7	74.6	74.5	73.5	
59	4/9/19	10:58	69.8	77.7	77.4	74.0	
60	4/9/19	10:59	71.6	81.6	81.4	75.8	
61	4/9/19	11:00	70.5	79.4	78.2	74.6	
62	4/9/19	11:01	76.9	80.7	80.6	79.5	



Daytime Sample

LAeq Average	70.0	dBA
LAmax Average	77.0	dBA
LAmax	85.3	dBA
LA01 Average	76.6	dBA
LA10 Average	73.3	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals


NRL 6 - Market St. & Front St. - 100 Market St. at South East Corner of Bldg. -
4-9-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
10:00
10:05
10:10
10:15
10:20
10:25
10:30
10:35
10:40
10:45
10:50
10:55
11:00
Time Period (1 Minute Intervals)
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 7 - Market St. & 3rd St. - Daisylace at South East Corner of Bldg.

Daytime - 4-9-19 - 1 Minute Time Intervals

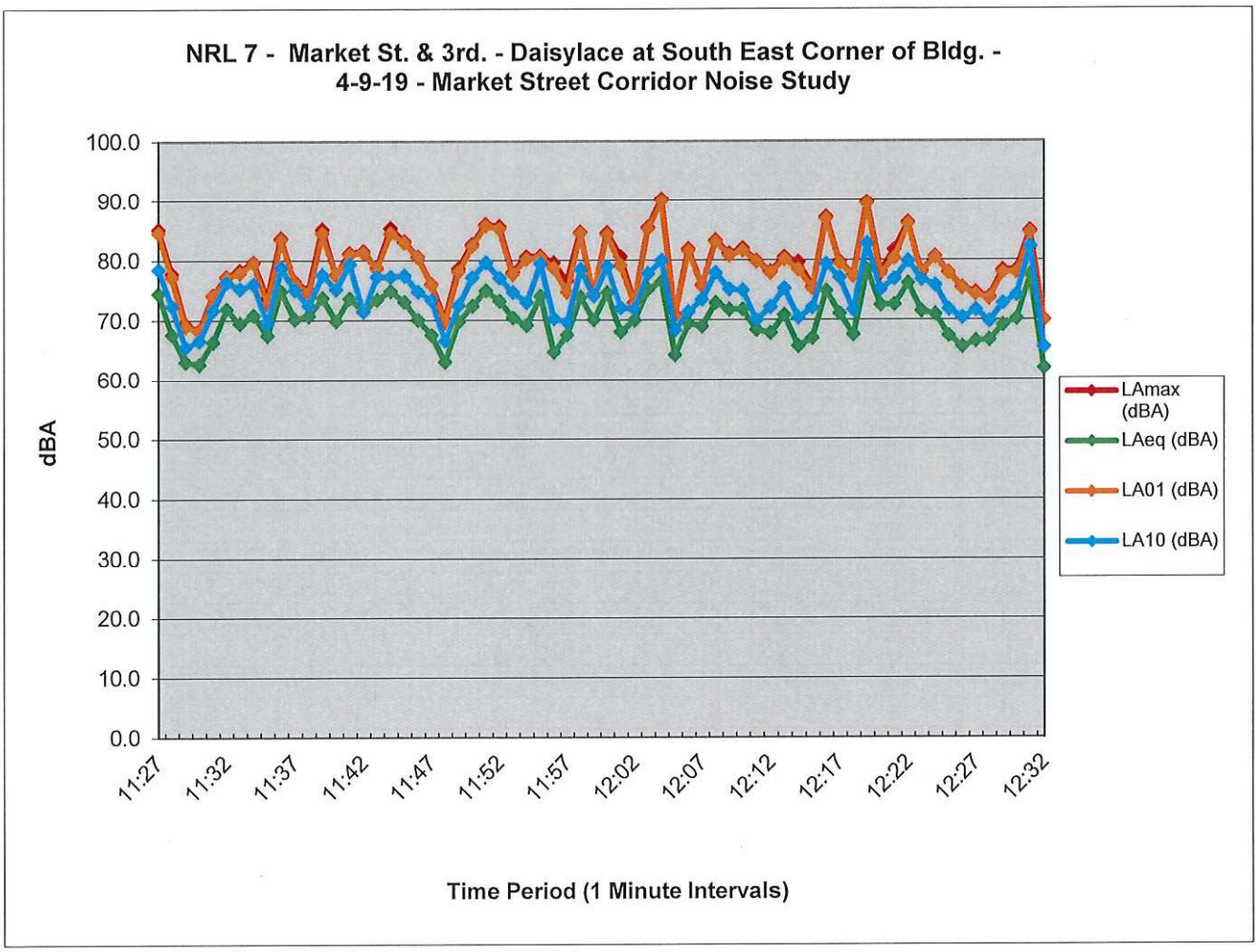
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	11:27	74.5	85.2	84.6	78.5	equip. maint.
2	4/9/19	11:28	67.7	77.8	77.2	72.4	
3	4/9/19	11:29	63.1	69.3	69.0	65.6	
4	4/9/19	11:30	62.7	68.3	68.2	66.6	
5	4/9/19	11:31	66.4	74.2	74.1	71.7	
6	4/9/19	11:32	71.9	77.3	77.2	76.4	
7	4/9/19	11:33	69.5	78.3	77.9	75.3	
8	4/9/19	11:34	70.9	79.7	79.6	76.1	
9	4/9/19	11:35	67.5	73.7	72.8	69.5	
10	4/9/19	11:36	74.9	83.7	83.5	78.8	
11	4/9/19	11:37	70.2	76.5	76.4	75.1	
12	4/9/19	11:38	70.8	75.0	74.6	72.5	
13	4/9/19	11:39	73.8	85.2	84.5	77.6	
14	4/9/19	11:40	69.9	77.6	77.5	75.2	
15	4/9/19	11:41	73.7	81.2	81.0	79.4	
16	4/9/19	11:42	71.6	81.5	81.3	71.5	
17	4/9/19	11:43	73.5	78.7	78.6	77.3	
18	4/9/19	11:44	74.9	85.4	84.5	77.3	truck idling
19	4/9/19	11:45	73.1	83.2	83.0	77.5	
20	4/9/19	11:46	70.1	80.6	80.5	74.8	
21	4/9/19	11:47	67.6	76.0	75.9	73.4	
22	4/9/19	11:48	63.1	70.1	69.7	66.6	
23	4/9/19	11:49	69.8	78.6	78.1	72.5	
24	4/9/19	11:50	72.4	82.7	82.4	77.2	
25	4/9/19	11:51	75.0	86.0	85.8	79.7	
26	4/9/19	11:52	73.3	85.7	85.3	77.1	
27	4/9/19	11:53	70.5	78.0	77.7	74.7	
28	4/9/19	11:54	69.2	80.6	80.2	73.0	
29	4/9/19	11:55	74.1	80.7	80.5	79.5	
30	4/9/19	11:56	64.7	79.6	78.7	70.3	
31	4/9/19	11:57	67.6	76.6	74.7	69.7	
32	4/9/19	11:58	73.9	84.7	84.5	78.5	
33	4/9/19	11:59	70.1	74.4	74.4	74.1	
34	4/9/19	12:00	74.6	84.6	84.3	79.0	
35	4/9/19	12:01	68.1	80.6	79.2	72.1	
36	4/9/19	12:02	70.0	72.9	72.8	71.9	
37	4/9/19	12:03	75.2	85.5	85.3	77.8	
38	4/9/19	12:04	76.5	90.3	90.0	80.0	
39	4/9/19	12:05	64.2	70.9	70.7	68.4	
40	4/9/19	12:06	69.5	81.9	81.6	71.4	
41	4/9/19	12:07	69.0	75.8	75.7	73.5	
42	4/9/19	12:08	72.9	83.3	83.1	77.9	
43	4/9/19	12:09	71.8	81.1	80.8	75.2	
44	4/9/19	12:10	71.8	82.0	81.6	75.0	

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 7 - Market St. & 3rd St. - Daisylace at South East Corner of Bldg.

Daytime - 4-9-19 - 1 Minute Time Intervals

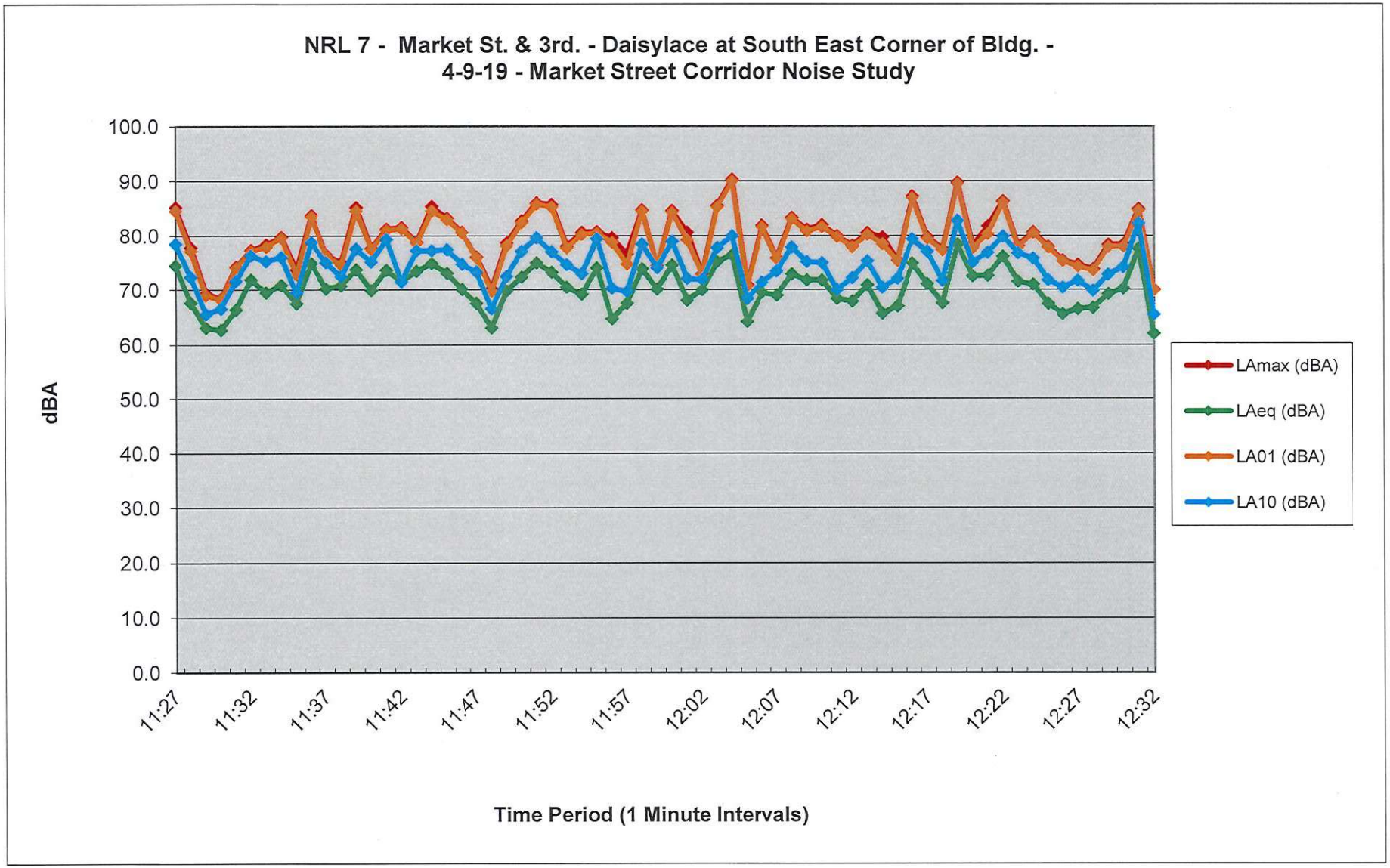
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	12:11	68.4	79.9	79.8	70.0	
46	4/9/19	12:12	67.9	78.1	77.9	72.2	
47	4/9/19	12:13	70.9	80.5	80.2	75.3	Mustang GT revs motor
48	4/9/19	12:14	65.7	79.7	78.4	70.4	
49	4/9/19	12:15	67.0	75.4	75.3	72.1	
50	4/9/19	12:16	74.9	87.2	86.9	79.4	
51	4/9/19	12:17	71.1	79.7	79.5	77.1	
52	4/9/19	12:18	67.6	77.5	77.3	71.7	
53	4/9/19	12:19	78.4	89.7	89.5	82.8	loud refuse truck
54	4/9/19	12:20	72.5	78.1	77.7	75.1	
55	4/9/19	12:21	72.6	81.7	80.3	76.9	
56	4/9/19	12:22	76.2	86.3	86.1	79.9	motorcycle with loud radio
57	4/9/19	12:23	71.5	78.1	77.9	76.8	
58	4/9/19	12:24	71.0	80.6	80.5	75.8	
59	4/9/19	12:25	67.4	77.9	77.8	71.8	
60	4/9/19	12:26	65.6	75.4	75.3	70.4	
61	4/9/19	12:27	66.5	74.6	74.3	71.7	
62	4/9/19	12:28	66.7	73.8	73.6	69.8	
63	4/9/19	12:29	69.2	78.3	77.9	72.8	
64	4/9/19	12:30	70.2	78.3	78.0	74.2	
65	4/9/19	12:31	77.6	84.9	84.7	82.3	
66	4/9/19	12:32	62.0	70.0	69.9	65.5	



Daytime Sample

LAeq Average	70.4	dBA
LAmax Average	79.4	dBA
LAmax	90.3	dBA
LA01 Average	79.1	dBA
LA10 Average	74.4	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals


NRL 7 - Market St. & 3rd. - Daisylace at South East Corner of Bldg. -
4-9-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
11:27
11:32
11:37
11:42
11:47
11:52
11:57
12:02
12:07
12:12
12:17
12:22
12:27
12:32
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (1 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 8 - Market St. & 6th. - 600 Market St at South East Corner of Bldg.

Daytime - 4-9-19 - 1 Minute Time Intervals

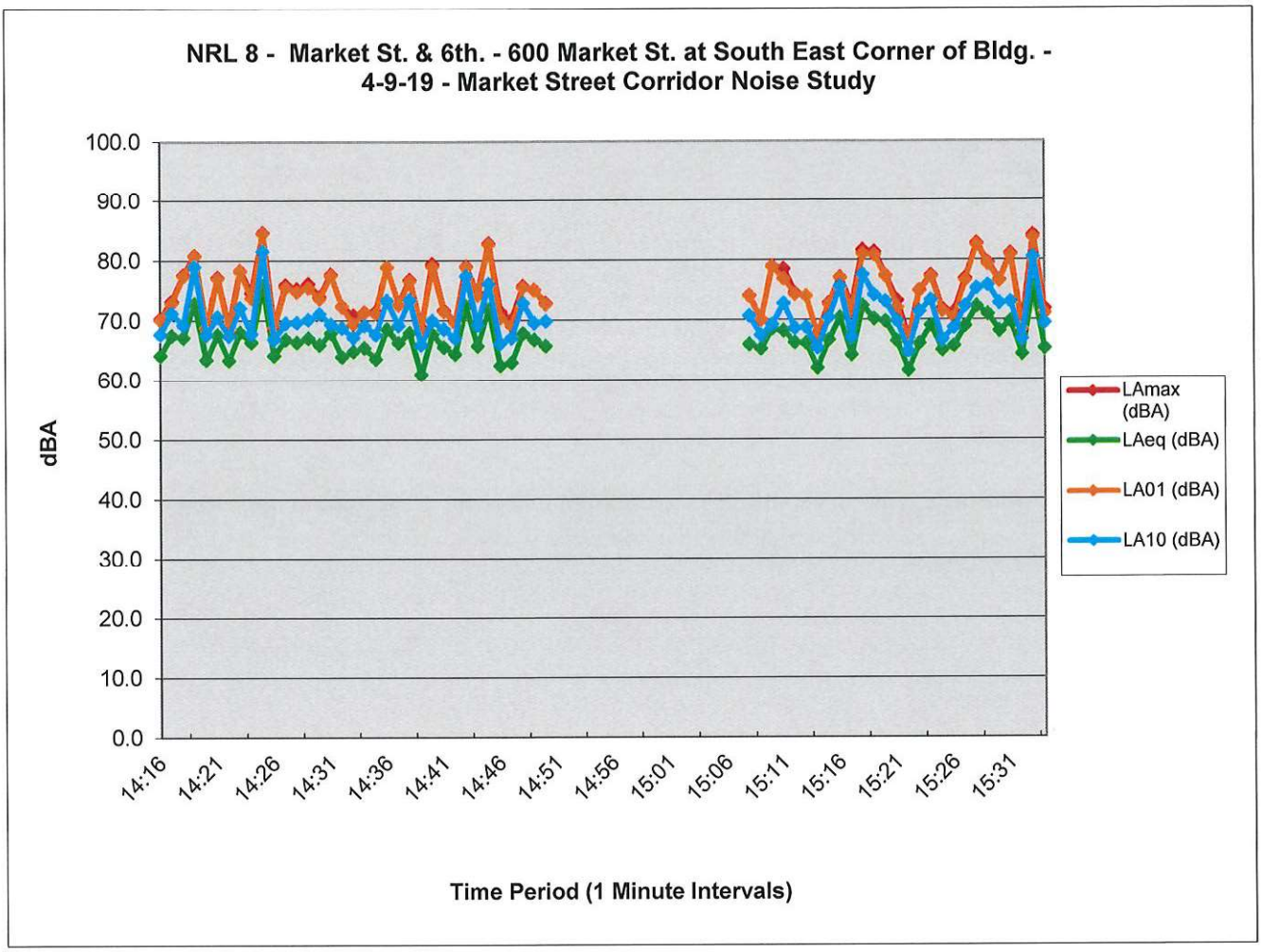
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	14:16	64.1	70.3	70.1	67.7	
2	4/9/19	14:17	67.4	73.2	72.9	71.2	
3	4/9/19	14:18	67.1	77.6	77.4	69.2	
4	4/9/19	14:19	72.8	80.8	80.7	79.0	noisy truck
5	4/9/19	14:20	63.4	68.8	68.7	67.6	
6	4/9/19	14:21	67.6	77.2	77.0	70.6	
7	4/9/19	14:22	63.3	68.9	68.4	67.4	
8	4/9/19	14:23	68.0	78.3	78.2	72.1	
9	4/9/19	14:24	66.3	74.6	73.8	67.8	
10	4/9/19	14:25	75.8	84.6	84.4	81.5	noisy truck
11	4/9/19	14:26	64.1	68.9	68.7	66.8	
12	4/9/19	14:27	66.8	75.9	75.5	69.5	
13	4/9/19	14:28	66.3	75.3	74.8	69.6	
14	4/9/19	14:29	67.0	76.2	75.5	70.1	
15	4/9/19	14:30	65.9	74.0	73.7	71.1	
16	4/9/19	14:31	67.9	77.7	77.5	69.3	
17	4/9/19	14:32	63.9	72.4	72.3	68.7	
18	4/9/19	14:33	64.8	70.9	69.4	67.1	
19	4/9/19	14:34	65.4	71.4	71.3	69.1	
20	4/9/19	14:35	63.5	71.5	71.2	67.6	
21	4/9/19	14:36	68.5	78.9	78.8	73.3	
22	4/9/19	14:37	66.2	72.8	72.6	69.1	
23	4/9/19	14:38	67.9	76.8	76.6	73.4	
24	4/9/19	14:39	60.9	68.8	68.5	65.9	
25	4/9/19	14:40	67.7	79.4	79.0	69.9	
26	4/9/19	14:41	65.5	71.7	71.5	68.5	
27	4/9/19	14:42	64.3	69.8	69.6	67.0	
28	4/9/19	14:43	72.4	79.0	78.8	77.4	
29	4/9/19	14:44	65.7	74.5	74.2	69.2	
30	4/9/19	14:45	71.8	82.8	82.6	76.1	noisy triaxle dump truck
31	4/9/19	14:46	62.4	71.5	70.5	66.1	
32	4/9/19	14:47	62.9	70.1	69.1	67.0	
33	4/9/19	14:48	67.8	75.7	75.5	72.8	
34	4/9/19	14:49	66.7	75.1	75.0	69.5	
35	4/9/19	14:50	65.7	72.9	72.7	69.8	
36	4/9/19	14:51					No Data Due to Equipment Maintenance
37	4/9/19	14:52					
38	4/9/19	14:53					
39	4/9/19	15:54					
40	4/9/19	14:55					
41	4/9/19	14:56					
42	4/9/19	14:57					
43	4/9/19	14:58					
44	4/9/19	14:59					

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 8 - Market St. & 6th. - 600 Market St at South East Corner of Bldg.

Daytime - 4-9-19 - 1 Minute Time Intervals

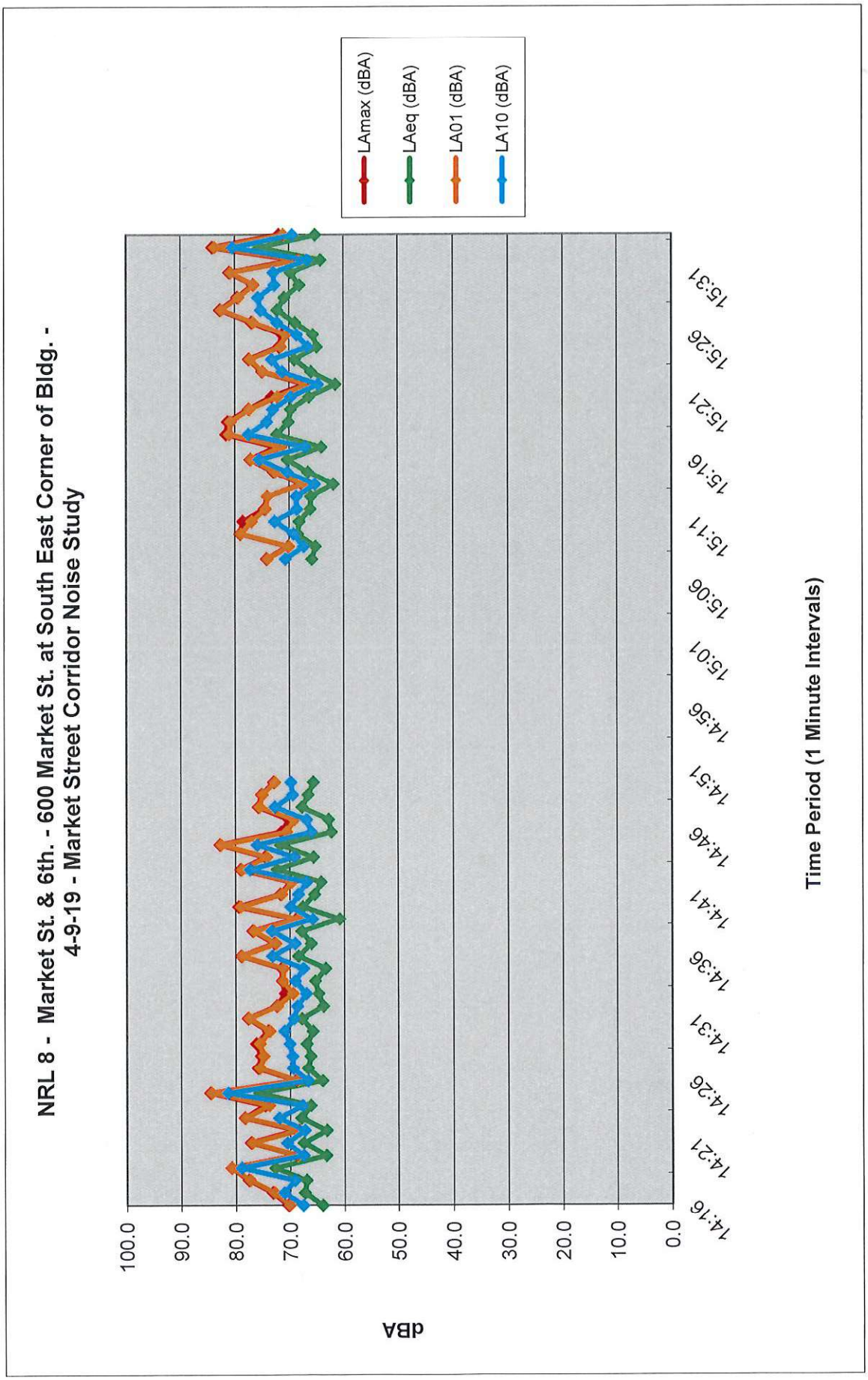
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	15:00					No Data Due to Equipment Maintenance
46	4/9/19	15:01					
47	4/9/19	15:02					
48	4/9/19	15:03					
49	4/9/19	15:04					
50	4/9/19	15:05					
51	4/9/19	15:06					
52	4/9/19	15:07					
53	4/9/19	15:08	65.9	74.1	74.0	70.7	
54	4/9/19	15:09	65.2	70.1	70.0	67.4	
55	4/9/19	15:10	68.5	79.0	78.9	69.2	
56	4/9/19	15:11	68.2	78.5	76.9	72.7	
57	4/9/19	15:12	66.2	74.5	74.3	68.6	
58	4/9/19	15:13	66.1	74.0	74.0	68.7	
59	4/9/19	15:14	61.9	67.6	67.4	65.3	
60	4/9/19	15:15	66.6	72.8	72.6	70.3	
61	4/9/19	15:16	70.3	77.1	77.0	75.5	
62	4/9/19	15:17	64.1	72.4	71.4	67.1	
63	4/9/19	15:18	72.3	81.6	81.0	77.5	
64	4/9/19	15:19	70.1	81.3	80.8	74.1	
65	4/9/19	15:20	69.7	77.4	77.3	73.0	
66	4/9/19	15:21	66.4	73.2	72.1	69.7	distant siren
67	4/9/19	15:22	61.5	66.9	66.5	64.7	
68	4/9/19	15:23	66.0	74.9	74.8	71.3	
69	4/9/19	15:24	69.0	77.4	77.2	73.2	
70	4/9/19	15:25	64.9	71.8	71.5	66.6	
71	4/9/19	15:26	65.6	71.3	70.5	68.6	
72	4/9/19	15:27	68.9	76.9	76.6	72.2	
73	4/9/19	15:28	72.2	82.7	82.5	75.2	noisy trucks
74	4/9/19	15:29	70.9	79.5	79.3	75.7	
75	4/9/19	15:30	68.1	76.6	76.5	72.7	
76	4/9/19	15:31	69.7	81.0	80.8	72.9	
77	4/9/19	15:32	64.2	68.9	68.3	66.7	
78	4/9/19	15:33	75.5	84.1	83.7	80.4	
79	4/9/19	15:34	65.2	71.9	71.1	69.4	



Daytime Sample

LAeq Average	67.0	dBA
LAmax Average	74.9	dBA
LAmax	84.6	dBA
LA01 Average	74.6	dBA
LA10 Average	70.6	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals


NRL 8 - Market St. & 6th. - 600 Market St. at South East Corner of Bldg. -
4-9-19 - Market Street Corridor Noise Study
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
14:16
14:21
14:26
14:31
14:36
14:41
14:46
14:51
14:56
15:01
15:06
15:11
15:16
15:21
15:26
15:31
Time Period (1 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 9 - Market St. & 7th St. - 702 Market St. at North West Corner of Bldg.

Daytime - 4-9-19 - 1 Minute Time Intervals

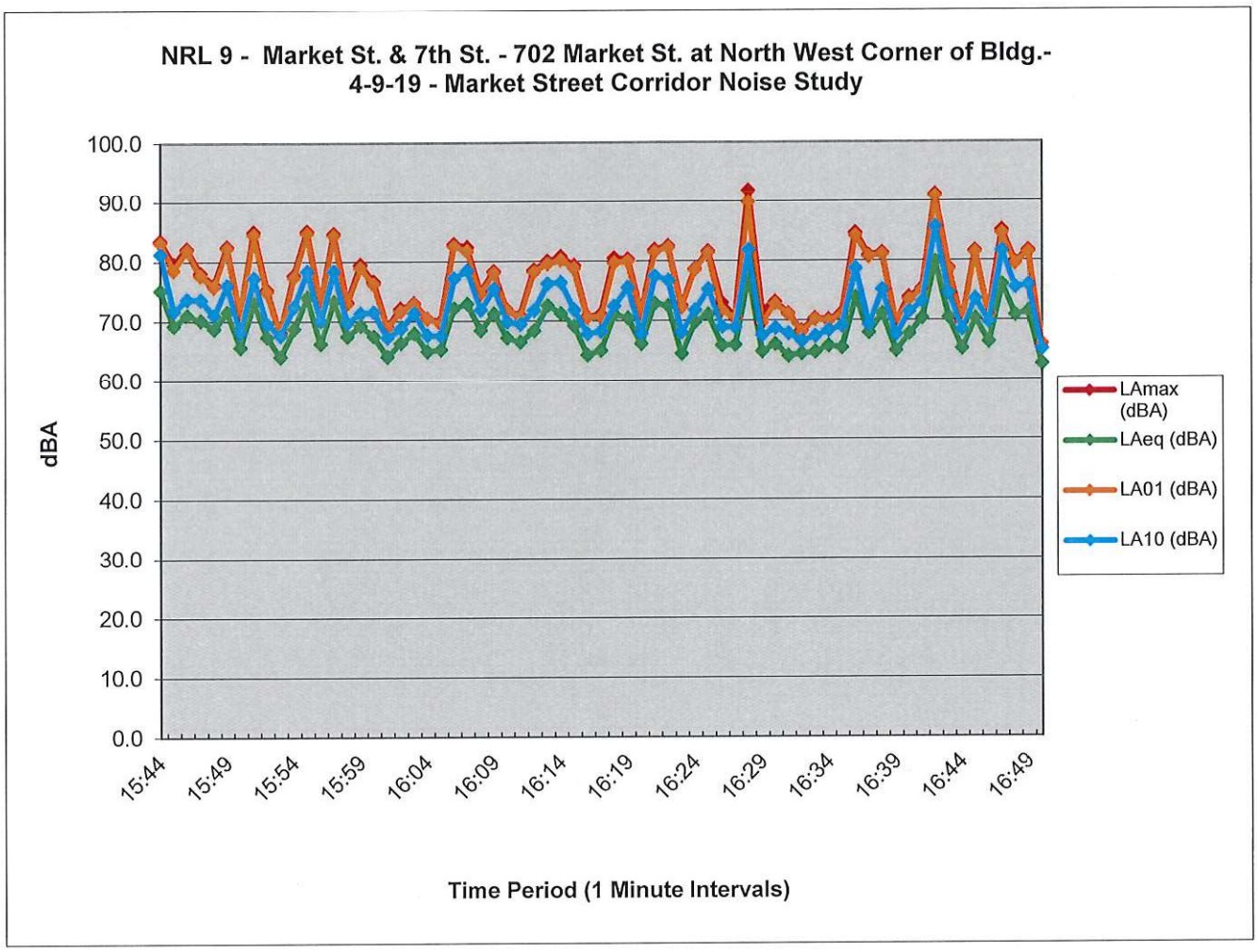
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	15:44	75.2	83.5	83.2	81.3	motorcycle
2	4/9/19	15:45	69.3	79.7	78.6	71.8	
3	4/9/19	15:46	71.1	82.2	82.0	73.8	
4	4/9/19	15:47	70.2	78.1	77.7	73.7	
5	4/9/19	15:48	68.8	76.2	75.8	71.1	
6	4/9/19	15:49	71.6	82.5	82.3	76.1	dump truck accelerates from light
7	4/9/19	15:50	65.7	71.3	71.2	68.2	
8	4/9/19	15:51	73.1	85.0	84.5	77.3	
9	4/9/19	15:52	67.4	75.3	75.0	69.6	
10	4/9/19	15:53	64.1	68.1	68.0	67.7	
11	4/9/19	15:54	68.8	77.7	77.4	72.5	
12	4/9/19	15:55	74.1	85.1	84.8	78.4	
13	4/9/19	15:56	66.3	73.0	72.8	70.1	
14	4/9/19	15:57	73.4	84.7	84.4	78.4	
15	4/9/19	15:58	67.5	73.2	73.0	69.8	
16	4/9/19	15:59	69.3	79.5	79.0	71.4	
17	4/9/19	16:00	67.5	76.7	76.3	71.6	
18	4/9/19	16:01	64.1	69.1	68.9	67.3	
19	4/9/19	16:02	66.4	72.1	71.7	68.8	
20	4/9/19	16:03	68.0	73.0	72.9	71.4	
21	4/9/19	16:04	65.0	70.5	70.4	67.7	
22	4/9/19	16:05	65.3	69.9	69.6	67.6	
23	4/9/19	16:06	72.2	82.9	82.6	77.2	young child next to SLM
24	4/9/19	16:07	72.9	82.4	81.7	78.5	
25	4/9/19	16:08	68.5	74.9	74.6	71.9	
26	4/9/19	16:09	71.3	78.3	78.1	75.4	
27	4/9/19	16:10	67.2	71.9	71.8	69.9	
28	4/9/19	16:11	66.5	70.9	70.7	69.5	
29	4/9/19	16:12	68.4	78.5	78.2	71.8	
30	4/9/19	16:13	72.6	80.0	79.6	76.3	
31	4/9/19	16:14	71.3	80.8	80.2	76.5	
32	4/9/19	16:15	69.2	79.3	78.8	71.9	
33	4/9/19	16:16	64.3	70.7	70.6	67.9	
34	4/9/19	16:17	65.1	71.1	70.7	68.3	
35	4/9/19	16:18	71.1	80.5	79.7	72.5	
36	4/9/19	16:19	70.5	80.3	80.0	75.6	
37	4/9/19	16:20	66.2	71.3	71.0	67.9	
38	4/9/19	16:21	72.9	81.9	81.5	77.5	
39	4/9/19	16:22	72.5	82.5	82.3	76.8	child next to SLM
40	4/9/19	16:23	64.5	72.5	72.2	68.1	
41	4/9/19	16:24	69.8	78.6	78.5	71.8	
42	4/9/19	16:25	71.1	81.6	81.4	75.3	truck jake brake
43	4/9/19	16:26	65.9	73.0	71.7	69.0	
44	4/9/19	16:27	66.0	70.7	70.4	68.9	

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 9 - Market St. & 7th St. - 702 Market St. at North West Corner of Bldg.

Daytime - 4-9-19 - 1 Minute Time Intervals

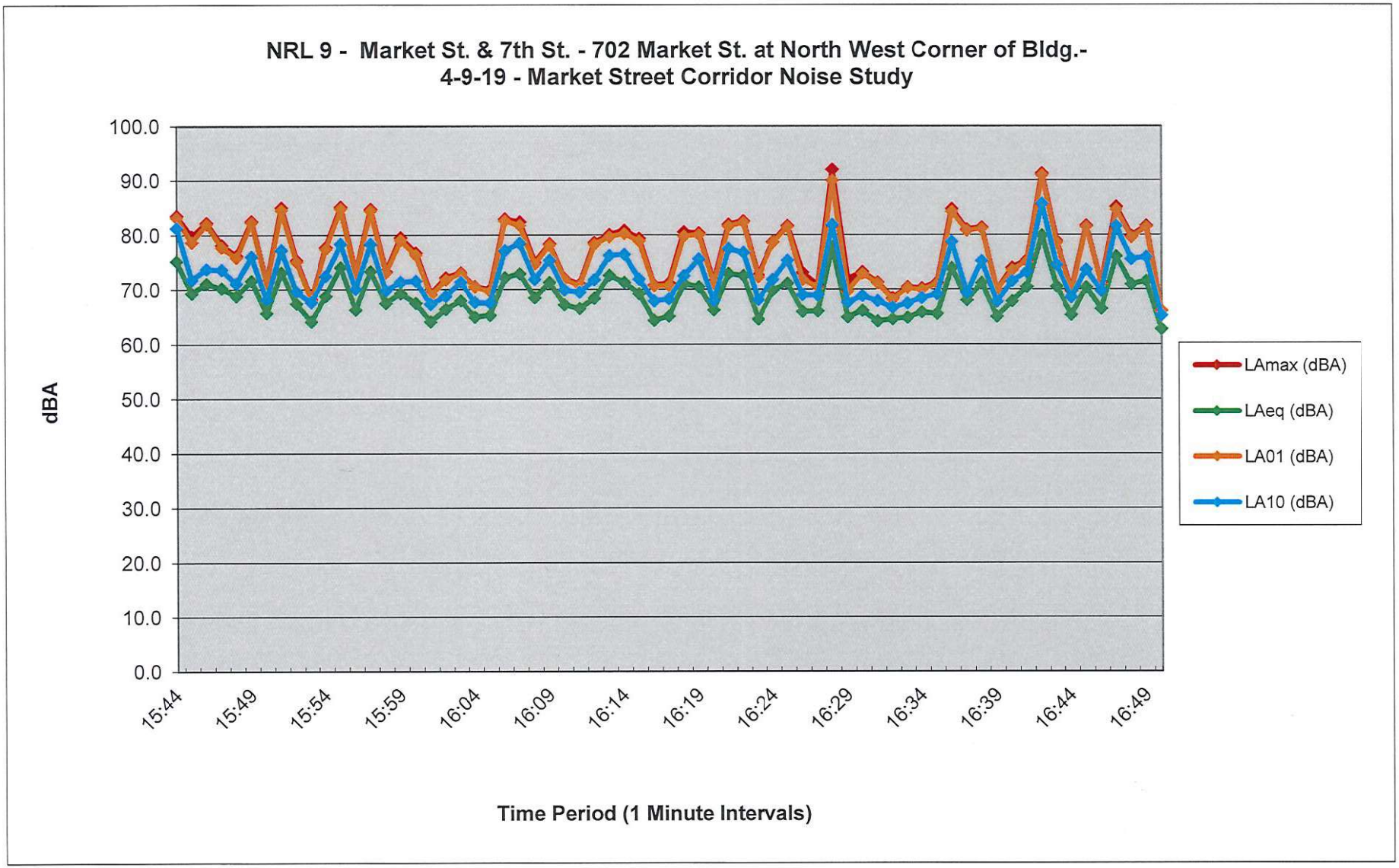
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	16:28	77.8	91.9	89.9	81.9	truck stop then accelerates
46	4/9/19	16:29	64.9	71.8	69.6	67.6	
47	4/9/19	16:30	66.1	73.1	72.8	68.8	
48	4/9/19	16:31	64.1	71.2	71.1	67.9	
49	4/9/19	16:32	64.5	68.3	68.1	66.6	
50	4/9/19	16:33	64.8	70.3	70.2	67.4	
51	4/9/19	16:34	65.8	70.1	69.9	68.4	
52	4/9/19	16:35	65.5	71.2	71.0	69.1	
53	4/9/19	16:36	73.9	84.7	84.2	78.7	
54	4/9/19	16:37	68.0	80.9	80.7	69.3	
55	4/9/19	16:38	71.2	81.3	81.1	75.2	
56	4/9/19	16:39	65.0	69.8	69.8	67.7	
57	4/9/19	16:40	67.8	73.9	73.5	71.5	
58	4/9/19	16:41	70.4	75.3	75.1	73.1	
59	4/9/19	16:42	79.9	91.2	90.9	85.7	
60	4/9/19	16:43	70.5	78.7	78.5	74.5	
61	4/9/19	16:44	65.3	69.7	69.5	68.5	
62	4/9/19	16:45	70.3	81.6	81.4	73.6	
63	4/9/19	16:46	66.4	71.1	71.0	69.7	
64	4/9/19	16:47	76.0	85.1	84.6	81.6	
65	4/9/19	16:48	70.9	79.7	79.5	75.5	
66	4/9/19	16:49	71.5	81.6	81.4	75.9	
67	4/9/19	16:48	62.7	66.0	66.0	65.2	



Daytime Sample

LAeq Average	68.9	dBA
LAmax Average	76.7	dBA
LAmax	91.9	dBA
LA01 Average	76.4	dBA
LA10 Average	72.4	dBA

Note: Averages are calculated by determining the arithmetic average for each specified range of time intervals


NRL 9 - Market St. & 7th St. - 702 Market St. at North West Corner of Bldg.-
4-9-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
15:44
15:49
15:54
15:59
16:04
16:09
16:14
16:19
16:24
16:29
16:34
16:39
16:44
16:49
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (1 Minute Intervals)

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 10 - Market St. & SR 15. -838 Market St. at South West Corner of Bldg.

Daytime - 4-9-19 - 1 Minute Time Intervals

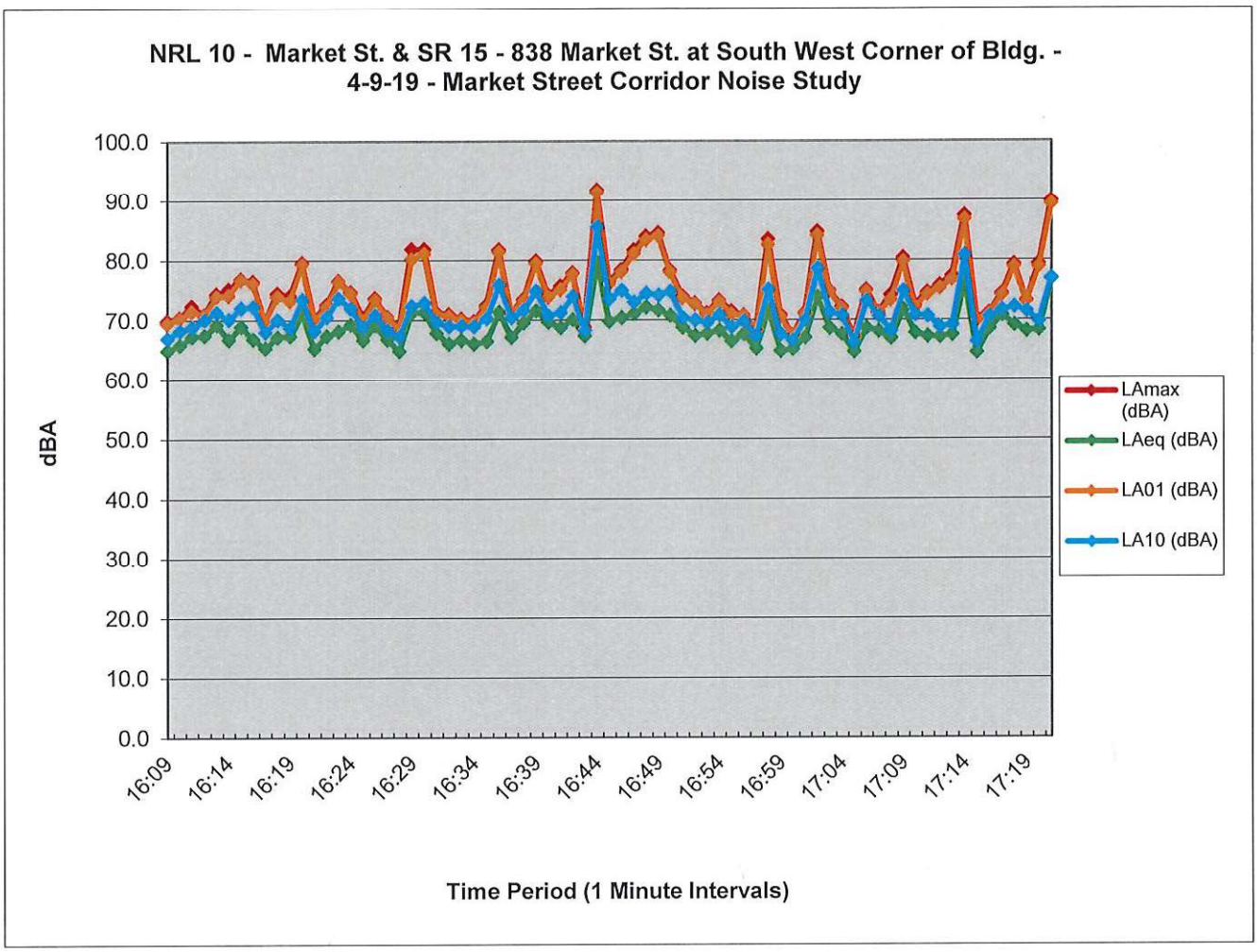
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
1	4/9/19	16:09	65.0	69.9	69.5	67.0	
2	4/9/19	16:10	65.9	70.4	70.3	68.3	
3	4/9/19	16:11	67.3	72.4	71.5	68.9	
4	4/9/19	16:12	67.5	71.0	70.9	70.1	
5	4/9/19	16:13	69.3	74.4	74.0	71.4	
6	4/9/19	16:14	66.8	75.2	74.2	70.2	
7	4/9/19	16:15	69.0	76.9	76.8	72.1	
8	4/9/19	16:16	66.9	76.5	76.2	72.3	
9	4/9/19	16:17	65.4	69.9	69.8	68.1	
10	4/9/19	16:18	67.2	74.5	74.0	70.1	
11	4/9/19	16:19	67.4	74.1	73.3	68.8	
12	4/9/19	16:20	71.1	79.6	79.4	73.5	
13	4/9/19	16:21	65.3	70.3	70.0	68.3	
14	4/9/19	16:22	67.4	72.6	72.3	70.6	
15	4/9/19	16:23	68.2	76.6	76.5	73.7	
16	4/9/19	16:24	69.3	74.7	74.5	72.0	
17	4/9/19	16:25	66.7	70.5	69.9	68.9	
18	4/9/19	16:26	69.2	73.7	73.5	70.9	
19	4/9/19	16:27	66.8	70.6	70.4	68.4	
20	4/9/19	16:28	64.9	68.8	68.6	67.3	
21	4/9/19	16:29	71.3	81.9	80.2	72.4	
22	4/9/19	16:30	71.4	81.9	81.1	72.9	
23	4/9/19	16:31	67.9	71.3	71.1	69.7	
24	4/9/19	16:32	66.1	71.0	70.7	69.0	
25	4/9/19	16:33	66.7	70.2	70.0	69.1	
26	4/9/19	16:34	66.1	69.8	69.6	69.0	
27	4/9/19	16:35	66.5	72.5	72.2	70.3	
28	4/9/19	16:36	71.4	81.8	81.4	75.9	
29	4/9/19	16:37	67.2	71.4	71.3	70.5	
30	4/9/19	16:38	69.6	73.5	73.3	71.7	
31	4/9/19	16:39	71.6	79.9	79.5	74.9	
32	4/9/19	16:40	69.7	74.2	73.9	70.8	
33	4/9/19	16:41	68.8	75.7	75.1	71.3	
34	4/9/19	16:42	70.1	77.9	77.7	74.0	
35	4/9/19	16:43	67.4	68.9	68.7	68.3	
36	4/9/19	16:44	79.7	91.8	91.4	85.6	
37	4/9/19	16:45	69.8	76.5	76.1	73.6	
38	4/9/19	16:46	70.4	78.4	78.1	75.0	
39	4/9/19	16:47	71.1	81.7	81.1	73.0	
40	4/9/19	16:48	72.2	84.0	83.4	74.5	
41	4/9/19	16:49	71.7	84.6	84.1	74.2	
42	4/9/19	16:50	70.8	78.3	78.0	74.8	
43	4/9/19	16:51	68.8	74.0	73.7	70.4	
44	4/9/19	16:52	67.4	72.8	72.7	70.0	

Market Street Corridor Noise Study - Lewisburg Pennsylvania

NRL 10 - Market St. & SR 15. - 838 Market St. at South West Corner of Bldg.

Daytime - 4-9-19 - 1 Minute Time Intervals

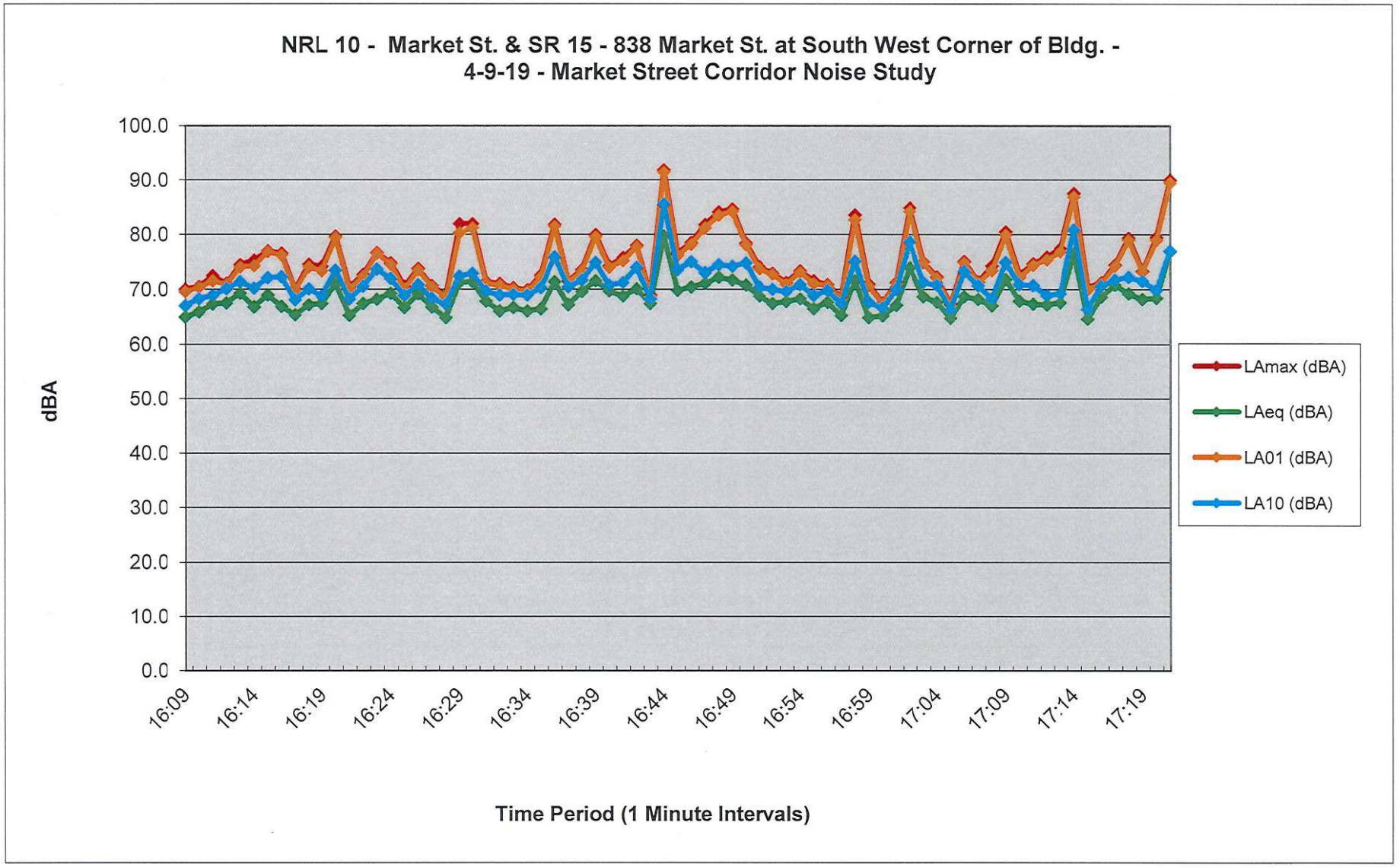
Test Increment #	Date	Time	LAeq (dBA)	LAmax (dBA)	LA01 (dBA)	LA10 (dBA)	Comments
45	4/9/19	16:53	67.8	71.2	70.9	69.6	
46	4/9/19	16:54	68.3	73.3	73.1	70.9	
47	4/9/19	16:55	66.5	71.5	71.0	68.9	
48	4/9/19	16:56	67.7	70.8	70.7	69.8	
49	4/9/19	16:57	65.3	68.5	68.4	67.4	
50	4/9/19	16:58	71.6	83.5	82.6	75.1	
51	4/9/19	16:59	64.9	70.9	70.6	67.7	
52	4/9/19	17:00	65.2	67.4	67.3	66.6	
53	4/9/19	17:01	67.1	71.2	71.1	70.0	
54	4/9/19	17:02	73.9	84.8	84.1	78.6	
55	4/9/19	17:03	68.7	74.9	74.8	71.3	
56	4/9/19	17:04	67.7	72.2	72.0	70.8	
57	4/9/19	17:05	64.8	67.2	67.1	66.3	
58	4/9/19	17:06	68.7	75.0	74.8	73.2	
59	4/9/19	17:07	68.2	71.3	71.2	70.7	
60	4/9/19	17:08	67.0	74.2	73.4	68.3	
61	4/9/19	17:09	71.8	80.4	79.8	74.9	
62	4/9/19	17:10	67.9	72.5	72.1	70.9	
63	4/9/19	17:11	67.3	74.6	74.3	70.7	
64	4/9/19	17:12	67.2	75.8	75.3	68.9	
65	4/9/19	17:13	67.6	77.4	76.8	69.2	
66	4/9/19	17:14	76.5	87.5	86.8	80.8	
67	4/9/19	17:15	64.6	70.2	69.9	66.4	
68	4/9/19	17:16	68.6	71.2	71.1	70.6	
69	4/9/19	17:17	70.8	74.4	74.2	71.7	
70	4/9/19	17:18	69.2	79.3	78.9	72.2	
71	4/9/19	17:19	68.2	73.2	73.1	71.5	
72	4/9/19	17:20	68.4	79.4	78.9	69.8	
73	4/9/19	17:21	76.9	89.9	89.4	77.0	



Daytime Sample

LAeq Average	68.6	dBA
LAmax Average	75.1	dBA
LAmax	91.8	dBA
LA01 Average	74.7	dBA
LA10 Average	71.3	dBA

Note: Averages are calculated by determining the arithmatic average for each specified range of time intervals


NRL 10 - Market St. & SR 15 - 838 Market St. at South West Corner of Bldg. - 4-9-19 - Market Street Corridor Noise Study
dBA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
16:09
16:14
16:19
16:24
16:29
16:34
16:39
16:44
16:49
16:54
16:59
17:04
17:09
17:14
17:19
LAmax (dBA)
LAeq (dBA)
LA01 (dBA)
LA10 (dBA)
Time Period (1 Minute Intervals)

APPENDIX C

Noise Recording Locations (NRL) – Sketch/Plans
(4 Sheets)

Figure 2

Sound Level Monitoring Station NRL- 1, 2, 6

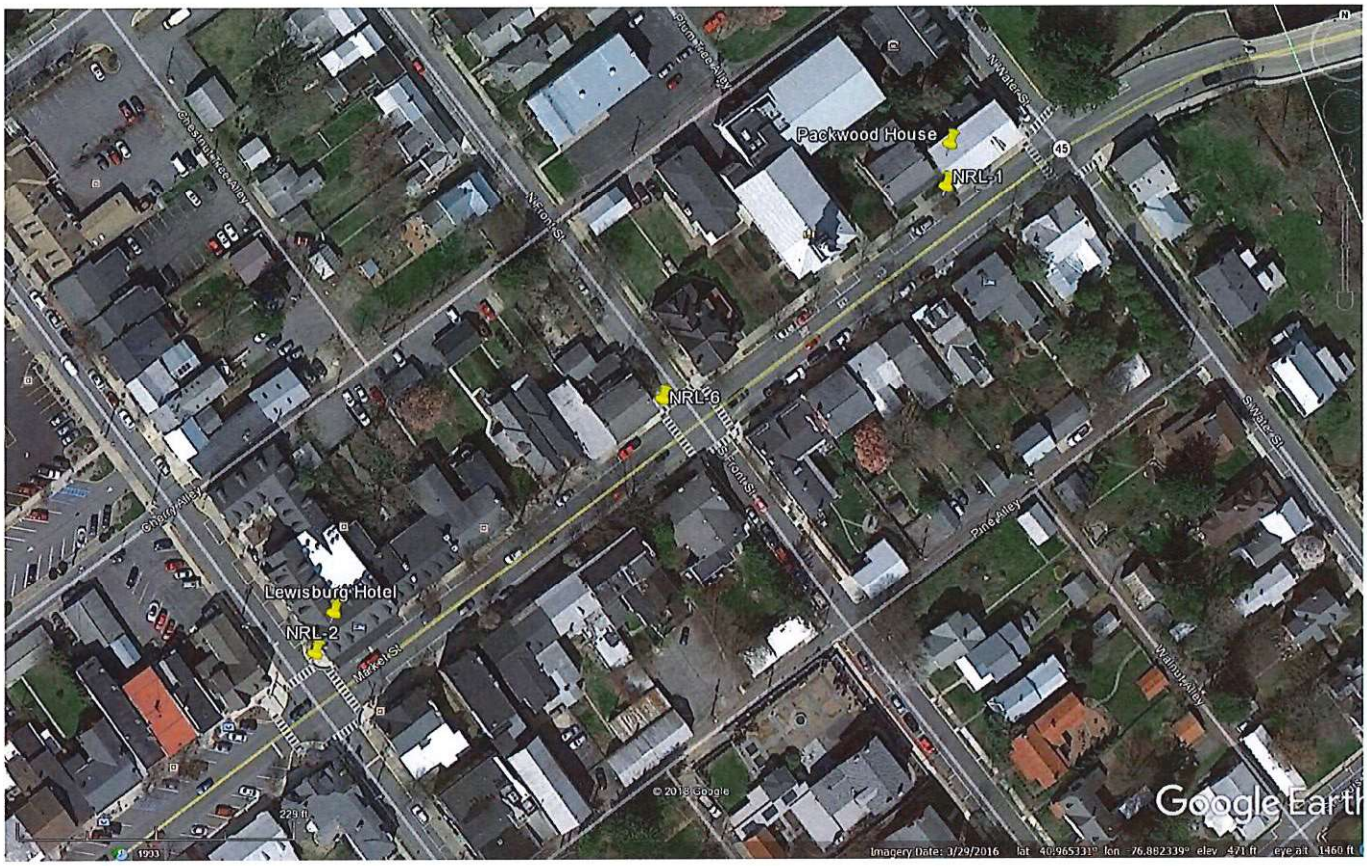


Figure 3

Sound Level Monitoring Station NRL- 3, 4, 7



Figure 4

Sound Level Monitoring Station NRL- 5, 8, 9

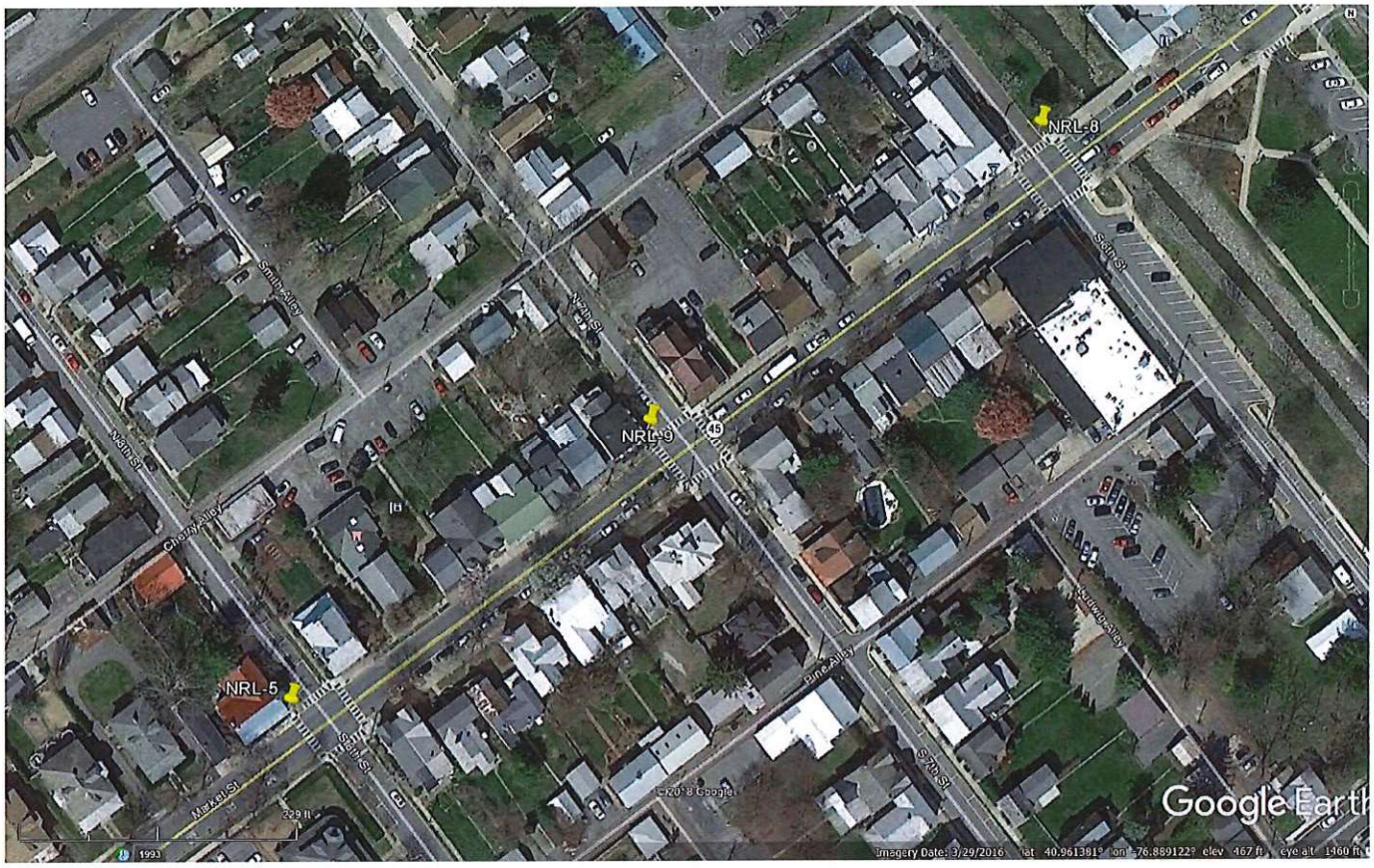


Figure 5

Sound Level Monitoring Station NRL- 10

