

Project	Former A&A Brake Service Site	Report No.	109
BCP Site	NYSDEC BCP SITE C224372	Date	1/27/2025
Location	558 Sackett Street	File No.	0206384
Client	Sackett Heights LLC	Temperature	H: 41 °F L: 33 °F
Contractor	Blue Sky Builders, International	Wind Direction	SW to NE, up to 18 mph
	Concrete		
Weather	Clear	Personnel on Site	George Poulton
Humidity	29%	Time on Site	6:30 am to 6:00 pm

H & A of New York Engineering and Geology, LLP (Haley & Aldrich) was present document implementation of the May 2024 NYSDEC-Approved Remedial Action Work Plan (RAWP) and Decision Document for the Former A&A Brake Service Site C224372, located at 558 Sackett Street, Brooklyn, NY. Site observations are summarized below.

## Daily Observations:

- Contractor (International Concrete) continued footing preparation in the central portion of the Site.
- Contractor (International Concrete) poured concrete into footing frames in the central portion of the Site.
- Contractor (International Concrete) chipped slab in the northern portion of the Site for removal.
- Contractor (International Concrete) continued rebar installation within footing frames.
- Tim Williams from WSP arrived on-Site to document field activities on behalf of the NYSDEC, no complaints were noted.

## Waste Disposal/Backfill Import Tracking:

## **Material Export:**

- o None.
- o Soil disposal is summarized below:

	Son disposar is summarized below.										
	Facility: Posillico		Facility: Clean		Facility: Clean		Facility: Clean				
Materials,		Earth of North		Earth of North		Earth of New					
	Farmingdale, NY		Jersey, Ko	Jersey, Kearny, NJ		Jersey, Kearny, NJ		Castle, New		Totals:	
	(Non-H	az Soil)	(Haz	Soil)	(Non-Haz Soil)		(Non-Haz Soil) Castle, DE (Non-		DE (Non-		
							Haz Soil)				
Today:	<u>0 Loads</u>	<u>0 CY</u>	<u>0 Loads</u>	<u>0 CY</u>	<u>0 Load</u>	<u>0 CY</u>	<u>0 Loads</u>	<u>0 CY</u>	<u>0 Loads</u>	<u>0 CY</u>	
<u>Total:</u>	33 Loads	660 CY	1 Load	<u>10 CY</u>	1 Load	<u>20 CY</u>	19 Loads	380 CY	54 Loads	1080 CY	

<sup>\*</sup>Note, 1 truck estimated at 20 cubic yards. Final tonnages will be presented in the FER



)	C&D	disposal	is	summarized	below:

	Recycling; S	South Shore taten Island, NY C&D)	Totals:		
Today:	<u>0 Load</u>	<u>0 CY</u>	<u>0 Load</u>	<u>0 CY</u>	
<u>Total:</u>	21 Loads	420 CY	21 Loads	420 CY	

## Material Import:

Material import is summarized below:

	Facility: Stavola of Tinton Falls, NJ; Bound Brook Quarry, NJ (1 ½ in Stone)		NJ; Bound B	la of Tinton Falls, rook Quarry, NJ 1 Stone)	Totals:	
Today:	<u>0 Loads</u>	<u>0 CY</u>	<u>0 Loads</u>	<u>0 CY</u>	<u> 0 Loads</u>	<u>0 CY</u>
<u>Total:</u>	25 Loads	<u>500 CY</u>	<u>4 Load</u>	<u>80 CY</u>	29 Loads	580 CY

<sup>\*</sup>Note, 1 truck estimated at 20 cubic yards. Final tonnages will be presented in the FER.

## Samples Collected:

None.

#### **CAMP Activities:**

- Air monitoring during ground-intrusive activities was performed at one upwind and one downwind location during ground intrusive work from 7:00 am to 5:15 pm.
- No 15-minute average concentration of volatiles organic compounds (VOCs) or particulate 15-minute average concentration of matter smaller than 10 microns in diameter (PM10) exceeded the action levels. No visible dust was observed leaving the site perimeter.

## Activities Planned for Coming Week:

- Contractor (Blue Sky) will continue footing installation.
- Contractor (Blue Sky) will prepare foundation elements.



# Site Photographs:



Photo 1: View of contractor installing vapor barrier in footing forms, facing Northeast.

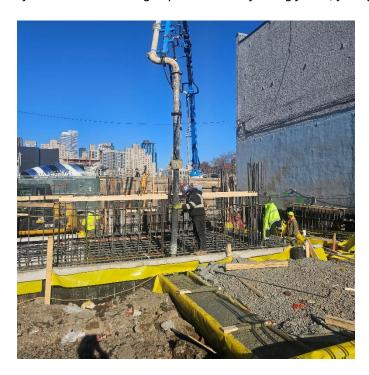
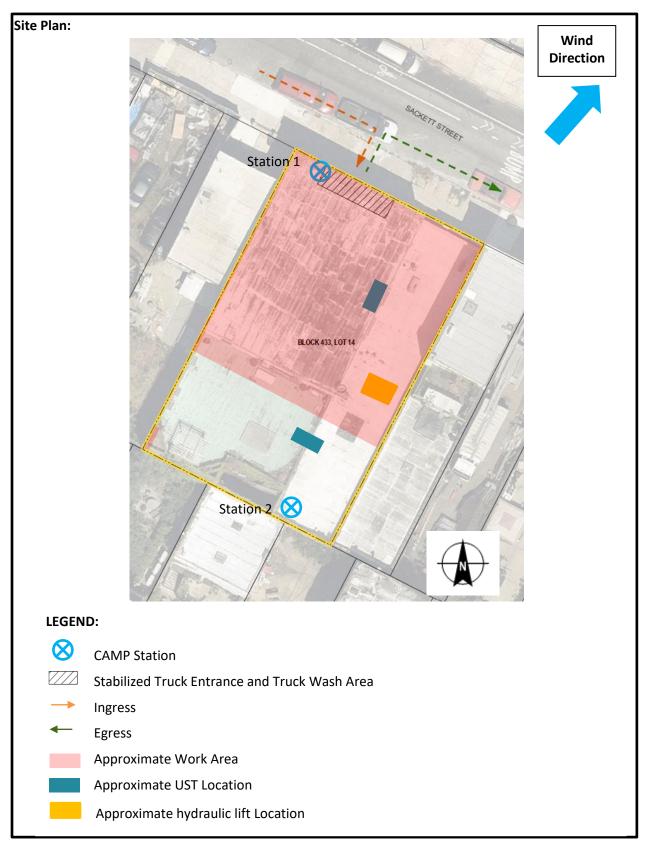


Photo 2: View of contractor pouring concrete footing, facing North.





#### 558 Sackett Street, Brooklyn NY

## Air Monitoring Log

Date: 2025-01-27

Personnel: G. Poulton

Weather: Clear
Humidity: 29%

Wind Direction: SW to NE, 18 mph

Particulate Background (ug/m3): 11.238

PID Background (ppm) : 0.0

Action Levels : <u>Downwind perimeter of work area above background levels</u>

PID (ppm): > 5 ppm for the 15-min average Dust (ug/m3): > 150 for the 15-min average

Minute of Time	Avg. PM10 (Station1)	Avg. PM10 (Station2)	Avg. VOC(Station1)	Avg. VOC(Station2)	Odors	Notes Activities/Additional Monitoring
07:00	19.724	11.238	0.0	0.0		
07:15	12.468	9.641	0.0	0.0		
07:30	15.013	14.704	0.0	0.0		
07:45	10.774	9.786	0.0	0.0		
08:00	7.829	7.079	0.0	0.0		
08:15	6.151	5.763	0.0	0.0		
08:30	4.594	5.049	0.0	0.0		
08:45	6.354	5.545	0.0	0.0		
09:00	10.628	10.782	0.0	0.0		
09:15	5.496	5.741	0.0	0.0		
09:30	4.806	5.957	0.0	0.0		
09:45	10.601	4.815	0.0	0.0		
10:00	28.307	9.971	0.1	0.0		
10:15	13.931	5.396	0.0	0.0		
10:30	2.221	4.444	0.0	0.0		
10:45	8.702	5.520	0.0	0.0		

# 558 Sackett Street, Brooklyn NY

# Air Monitoring Log

Minute of Time	Avg. PM10 (Station1)	Avg. PM10 (Station2)	Avg. VOC(Station1)	Avg. VOC(Station2)	Odors	Notes Activities/Additional Monitoring
11:00	6.365	4.571	0.2	0.0		
11:15	5.518	4.554	0.2	0.0		
11:30	12.543	4.258	0.2	0.0		
11:45	13.667	5.134	0.2	0.0		
12:00	5.174	8.003	0.1	0.0		
12:15	5.850	4.254	0.1	0.0		
12:30	3.843	2.982	0.1	0.0		
12:45	2.639	3.377	0.1	0.0		
13:00	2.990	3.676	0.1	0.0		
13:15	9.932	4.264	0.1	0.0		
13:30	7.445	5.145	0.1	0.0		
13:45	3.133	5.916	0.1	0.0		
14:00	7.045	6.412	0.1	0.0		
14:15	3.739	7.705	0.0	0.0		
14:30	3.718	5.499	0.1	0.0		
14:45	7.522	5.085	0.0	0.0		
15:00	44.804	4.232	0.0	0.0		
15:15	11.963	4.919	0.0	0.0		
15:30	5.987	5.251	0.0	0.0		
15:45	8.206	3.918	0.0	0.0		
16:00	6.762	3.979	0.0	0.0		
16:15	10.285	4.092	0.0	0.0		
16:30	29.811	8.004	0.0	0.0		
16:45	21.476	8.857	0.0	0.0		
17:00	6.028	4.717	0.0	0.0		
17:15	6.260	2.705	0.0	0.0		



**1** 212-897-9946

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# **WEEKLY MONITORING REPORT**



# **Prepared For:**

Blue Sky Builders

# **Prepared By:**

Anslem Valmont – Monitoring Specialist

# **Weekly Monitoring**

1/25/2025 - 1/27/2025

# **Project Address:**

558 Sackett Street, Brooklyn, Brooklyn NY 11215 BBL:/443/55

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Project Address: 558 Sackett Street, Brooklyn, Brooklyn NY 11215





# **RE: Blue Sky Builders**

,

Dear Mr. Hershy Silberstein,

I am delighted to share with you the Weekly Results of the Remote Vibration Monitoring, Optical Surveying Site Visits, and Crack Monitoring Site Visits, conducted this week at your construction site pursuant to the New York City DOB Building Code 3309 "Protection of Adjoining Properties".

This "Weekly Monitoring Report" contains the comprehensive results of the Vibration, Optical, and Crack Monitoring Services at your construction project located at , conducted by our professional team of Engineers, Surveyors, and filed personnel who performed site visits and inspections based on the outlined requirements detailed in the VMCP (Vibration Monitoring Control Plan) designed by our engineer based on the SOE Plans.

**Vibration Monitoring Reports** - are generated remotely by our Remote Monitoring Software and are being carefully reviewed by our Monitoring Specialists who oversee and report High Alerts in real time during the work.

**Optical Monitoring Results** - are documented by our Surveying Team who conducted site visits and inspection at your construction site using high-tech Survey instrumentation to document and record any movements in the optical Targets. The findings of the

**Crack Monitoring Results** - are also generated by the findings of our filed team during this week's site visits at your construction site. These results are documented by photographs of the installed Gauges. Such results are also entered in graph charts to simplify the results.

We greatly appreciate your business and the trust you placed in us to service your professional firm, and strive to continue servicing you with the utmost dedication and professionalism to your great satisfaction and to constantly improve our services.

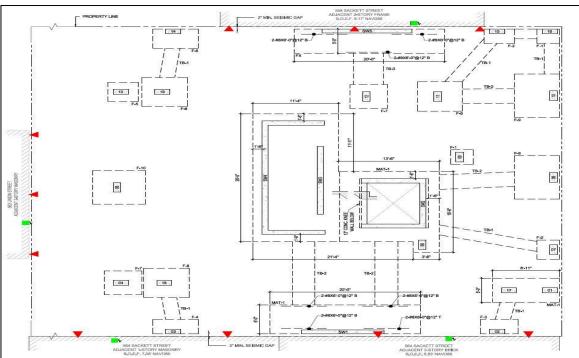
Please feel free to reach out to me with any questions or comments regarding this report.

Respectfully submitted,

Anslem Valmont – Director of Monitoring anslemv@quiverleague.com (212) 897-9947

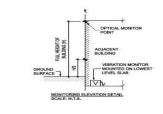








MON	ITORING LIMITS		
MONITORING LOCATION	THRESHO	OLD TYPE	
MONITORING LOCATION	REVIEW LEVEL	ACTION LEVEL	
	OPTICAL		
ADJACENT BUILDINGS	1/4 INCH	1/2 INCH	
NYCT STRUCTURES	1/4 INCH	1/2 INCH	
STREET AND SIDEWALK PAVEMENT	1/2 INCH	1 INCH	
Company of the state of the sta	VIBRATION		
ADJACENT BUILDINGS	1.0 INCH/SECOND	2.0 INCH/SECOND	
NYCT STRUCTURES	0.25 INCH/SECOND	0.5 INCH/SECONE	
CR	ACK GAUGES		









1	Initial	08/24/2024
No	Issue / Revision	Date



Blue Sky Builders

558 Sackett Street, Brooklyn Brooklyn NY 11215

MONITORING PLAN

YT Project#200605	Drawn By:R.P.				
Date:06/24/2024	Checked By:				
Drawing No: MO-100.00					
Scale: NOT TO SCALE	Sheet 01 of 1				

#### MONITORING GENERAL NOTE

- MONITORING CONTRACTOR IS TO BE NOTIFIED OF ANY AND ALL DESIRED ALTERATIONS TO THE MONITORING PLAN. NO MONITORING DEVICES MAY BE REMOVED OR ALTERATED IN ANY WAY UNLESS DIRECTED BY THE MONITORING CONTRACTOR.
  AN EXISTING CONDITION SURVEY OF THE ADJACENT BUILDINGS SHOULD BE PREFORMED PRIOR TO THE COMMENCEMENT OF WORK ON SITE.
  CRACK GAUGE MONITORS ARE TO BE INSTALLED OVER ALL STRUCTURAL CRACKS DISCOVERED BY THE EXISTING CONDITIONS SURVEY.
  MONITORING CONTRACTOR IS TO BE NOTIFICED IN EVEN BUILDING CRACKS AND ESCOVERED DIVING CONSTRUCTION AND ADDITIONAL CRACK GAUGES ARE TO BE INSTALLED.
  PERMISSION TO PLACE OR INSTALL MONITORING EQUIPMENT ON ANY BUILDING MUST BE OBTAINED FROM THE RESPECTIVE OWNER.
  MONITORING EQUIPMENT IS TO BE INSTALLED ONE WEEK PRIOR TO COMMENCEMENT OF WORK AND BASELINES DATA IS TO BE RECORDED.

# Optical Monitoring Point



NOTICE: this monitoring plan was drafted based on the SOE Plan of the subject property. This Monitoring Plans is intended for Monitoring Layout purpose only.

	MONITORING SLAMMARY & PRIOTOCOL								
MONITORING TYPE	D DESCRIPTION PROQUENCY OF INSPETION SOFT LIMITS THRESHOLD REQUES ACTION IF THRESHOLD B EXCESSED		FREQUENCY OF REPORTS						
VIBRATION MONITORING	AUTOMATED REMOTE VIBRATION MONITORING WITH A THREE COMPONENT SEISMOGRAPHS	REMOTE VISRATION MONITORING DURING ALLOWANCE WORK HOURS, RECORDED EVENTS EXCEEDINGS THE THRESHOLD WILL BE UPLOADED TO A REMOTE SERVER AND AN EMAIL ALERY WILL BE SENT TO ALL RESPONDIBLE PAYTIES.	PEAK PRACTICE VELOCITY >1 INS FOR ADJACENT STRUCTURES	PEAK PRACTICE VELOCITY >2 INS FOR ADJACENT STRUCTURES	FYBRATIONS EXCEED 2 PFYOR ADACENT STRUCTURES STOP ALL PORK IMBEDATELY NO TIME ADDITIONAL OFFICE AND OWNO CAUGE REPRECIONS, ALL DATA MUST 66 REVENED BY THE COL AND MAN STRUCTURES STOP ALL DATA MUST 66 REVENED BY THE COL AND MAN STRUCTURES AND ALL DATA MAN AND ALL DATA MAN STRUCTURES AND ALL DATA MAN AND AND ALL DATA MAN AND AND AND AND AND AND AND AND AND A				
HORIZONTAL AND VERTICAL CONTROLS	MANUAL OPTICAL SURVEYING WITH ELECTRONIC TOTAL STATION	CONDUCT OFFICIAL MONITORING AT LEAST WEEKLY DURING ALL STAGES OF FOUNDATION CONSTRUCTION LINTIL COMPLETION OF FRIST FLOOR SLAB	0.25" DISPLACMENT IN ANY DIRECTION	0.5" DISPLACMENT IN ANY DIRECTION	F VERTICAL OR LATENAL BULDING MOVEMENT REACHES S.F. MARIDATELY MOTIFY THE CONSTRUCTION MANAGER, OWNER, ENGAGER AND STOP MORE. THE WORK SHALL RESUME LIFEM APPRION, BY THE CONSTRUCTION MANAGER, OWNER AND IDEASE OF APPRIONED PRINCESS. REQUIRES AND RESOURCE CONSTRUCTION PROCESSING.	A WRITTEN REPORT INCLIDING DATA FROM THE OPTICAL, CHACK AND VIBRATION MONITORING SHALL BE PROVIDED AT THE END OF EACH WEEK, SHOULD THE PREDICTIONANCE INFECTION OF THE OPTICAL DATA RECORDS AN INCLUDING ALL RECORDS DATA IN			
CRACK GAUGE MONITORING	MANUAL OBSERVATION AND RECORDING OF MEASUREMENT WITH TIME STAMPED DIGITAL PHOTOGRAPHY.	AT SAME FREQUENCY AS OPTICAL MONITORING INSPECTIONS	3mm DISPLACMENT IN ANY DIRECTION	6mm DISPLACMENT IN ANY DIRECTION	IF MOVEMENT REACHES INN, MARDATELY NOTRY THE CONSTRUCTION MANAGER, OWNER, ENGINEER AND STOP WORK. THE WORK SHALL RESIDE UPON APPROVAL BY THE CONSTRUCTION MANAGER, OWNER AND INCOMER OF APPROVED REMEDIAL MEASURES ANDORS MOOFED CONSTRUCTION PROCEDURES.				



# NEW YORK CITY DEPARTMENT OF BUILDINGS MONITORING CODES

Quiver Monitoring will refer to the following New York City DOB Building Codes:

Section 3309 "Protection of Adjoining Property":

- 3309.3 Physical Examination
- 3309.4 Soil or foundation work affecting adjoining property
- 3309.4.3 Pre construction Survey
- 3309.4.4 Monitoring
- 3309.16 Monitoring Plan

#### **Historic Structures:**

TPPN 10/88 (Technical Policy and Procedure Notice) Historic Structures

#### **NYC Transit / MTA Monitoring**

External Partner Program

#### 3309.3 Physical Examination

When permission to enter upon adjoining property has been obtained, a physical examination of such property shall be conducted by the person causing the construction or demolition operations prior to the commencement of the operations and at reasonable periods during the progress of the work. Observed conditions shall be recorded by the person causing the construction or demolition operations, and such records shall be made available to the department upon request.

# 3309.4 Soil or foundation work affecting adjoining property

Whenever soil or foundation work occurs, regardless of the depth of such, the person who causes such to be made shall, at all times during the course of such work and at his or her own expense, preserve and protect from damage any adjoining structures, including but not limited to footings and foundations,

provided such person is afforded a license in accordance with the requirements of Section 3309.2 to enter and inspect the adjoining buildings and property, and to perform such work thereon as may be necessary for such purpose. If the person who causes the soil or foundation work is not afforded a license, such duty to preserve and protect the p>adjacent property shall devolve to the owner of such adjoining property, who shall be afforded a similar license with respect to the property where the soil or foundation work is to be made.

#### 3309.4.3 Preconstruction Survey

No excavation work to a depth of 5 feet to 10 feet (1524 mm to 3048 mm) within 10 feet (3048 mm) of an adjacent building, or an excavation over 10 feet (3048 mm) anywhere on the site shall commence until the person causing an excavation to be made has documented the existing conditions of all adjacent buildings in a preconstruction survey.





#### 3309.4.4 Monitoring

During the course of excavation work the following shall be monitored in accordance with Section 3309.16:

- 1. Buildings that are within a distance from the edge of the excavation that is equal to or less than the maximum depth of the excavation.
- 2. Historic structures that are contiguous to or within a lateral distance of 90 feet (27 432 mm) from the edge of the lot where an excavation is occurring.

Exception: Monitoring is not required for excavations to a depth of five feet (1523 mm) or less, provided:

- 1. The excavation occurs more than 5 feet (1524 mm) from all footings and foundations; or
- 2. Where the excavation occurs within five feet (1524 mm) or less from a footing or foundation, such excavation does not occur below the level of the footing or foundation.

#### 3309.16 Monitoring Plan

Where monitoring is required by Section 3309, such monitoring shall be in accordance with a monitoring plan developed by a registered design professional and acceptable to the commissioner. The monitoring plan shall be specific to the structures to be monitored and operations to be undertaken, and shall specify the scope and frequency of monitoring, acceptable tolerances, and reporting criteria for when tolerances are exceeded.

# TPPN 10/88 (Technical Policy and Procedure Notice) Historic Structures

BC 3309 references New York City Department of Buildings Technical Policy and Procedure Notice #10/88 (TPPN 10/88) which outlines the documentation and monitoring requirements for adjacent structures located within Landmarks Preservation Commission (LPC) designated Historic Districts. TPPN 10/88 provides for monitoring of Landmark or Historic District buildings within 90 feet of any site with foundation construction or earthwork excavation.

# NYC Transit / MTA Monitoring / External Partner Program

Private property owners who are building within 200 feet of MTA property, are required to communicate and provide proposed building plans and monitoring procedures to the NYC Transit Adjacency Projects Team and to follow the External Partner Program.

The Adjacency Projects Team reviews and approves, or provides a determination of no impact, for residential, commercial, and other developments initiated by the private sector. We will help identify the best design and engineering solutions to mitigate potential impacts to our transit system and customers.





# **APPENDIX A**







# VIBRATION MONITORING

Remote Vibration Monitoring; Seismographs

## Seismograph

Quiver Monitoring recommends the installation and maintenance of (4) Instantel Micromate seismographs for the protection of the adjacent structures. These seismographs will have serial numbers and proof of calibration certificate.

The calibration certificates will be provided prior to the vibration monitoring fieldwork. The seismographs will continuously monitor the two horizontal and one vertical component of motion and visually display the maximum value on screen. The systems will be equipped with a cellular modem to provided automated reporting and notifications. The equipment will be installed on or near the closest foundation wall adjacent to the construction project based on accessibility and permission from the owner. In the event an exceedance is recorded an email or text message will be sent as a notification or alert to designated recipients. Weekly reports will be submitted electronically with a summary of daily vibrations per monitor for that week's duration.

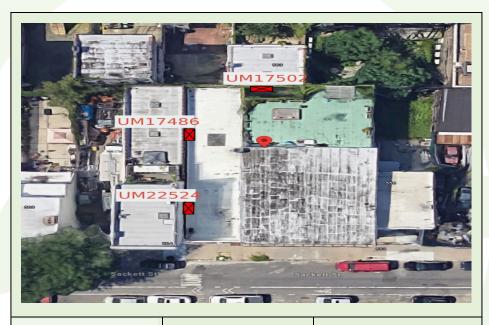
# VIBRATION MONITORING LOCATIONS

Quiver Monitoring recommends the following vibration monitoring layout.

- 1. **UM17486**: Is installed at the 564 Sackett Street Exterior, front.
- 2. **UM17502**: Is installed at the 563 Union Street Exterior.
- 3. UM22524: Is installed at the 564 Sackett Street Exterior, rear.









Vibration Monitoring Layout 558 Sackett Street, Brooklyn Brooklyn NY 11215 Date of Installation MM/DD/YY 06/24/24

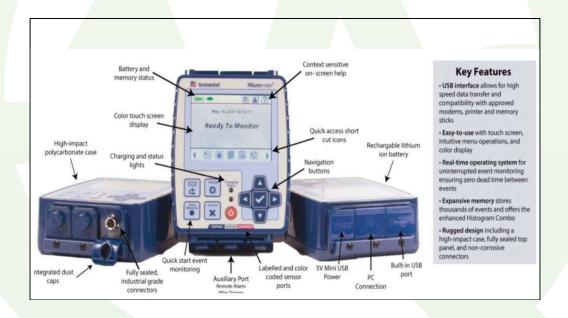




# VIBRATION COMPLIANCE

The following vibration protocol will be used by notifications to the client and contractor(s) as follows:

- 1. A verbal warning shall be given to the client, contractor and the site engineer if any measured vibration level exceeds 1.000 inches per second.
- 2. A written warning shall be given to client, contractor and the engineer if any measured vibration level exceeds 2.000 inches per second.
- 3. All vibration producing construction activities must stop if readings exceed 2.000 inches per second. Take additional optical control and telltale readings to be reviewed in conjunction with vibration produced waveform. Work may continue once construction methods and monitoring data is reviewed and approved by all parties.
- 4. The remote communication system will relay all exceedances to Quiver Monitoring's central office and generate waveform alerts in the form of e-mails immediately to any approved site personnel.





Client: Blue Sky Builders | 10



# GROUND VIBRATION AND AIR BLAST COMPLIANCE METHODS, UNITED STATES BUREAU OF MINES (USBM – RI8507)

It takes a considerable measure of vibration to harm surface structures, underground structures, pipelines, sewers and water wells. Surface structures, underground facilities and wells are dynamic in nature and in that capacity are dependent upon an assortment of internal and external forces, for example, settlement, weather, and changes in soil saturation, excavation and frost levels, etc.

The forces following up on the previously mentioned don't end upon the origin of vibration delivering activities in the territory. Damage is most effectively shown utilizing seismographic or other geophysical information developed during demolition / development processes.

Throughout the years much research has been given to deciding vibration levels capable for making harm to structures. These investigations were conducted by the United States Bureau of Mines, by the National Research Council of Canada, by insurance companies and by other geo technical consultants.

The consensus of these findings is that acceptable vibration levels is that of which a peak partial velocity (PPV) of 2.0 inches per second in any of the three components of movement is not surpassed by the ground motion at the structure of concern.

The PPV of 2.0 inches per second limit is generally deemed acceptable as a conservative safe limit for structures in many states for construction activities such as demolition and blasting activities as stated in the U.S Bureau of Mines RI- 8507.

The United States Bureau of Mines (USBM) & Office of Surface Mining (OSM) conducted further research in order to refine damage criteria based upon structure frequency response. The research by the USBM and OSM has established the following criteria relating the event of structural damage to certain frequencies and levels of ground motion.

The USBM report of investigation 8507 states that surface structures are most prone to damage as a result of vibration energy within the frequency range of 4-12hz. Within these parameters, a 0.5 inches per second maximum particle velocity is recommended to limit damage to mortar on wood strip inside parts of an older structure.

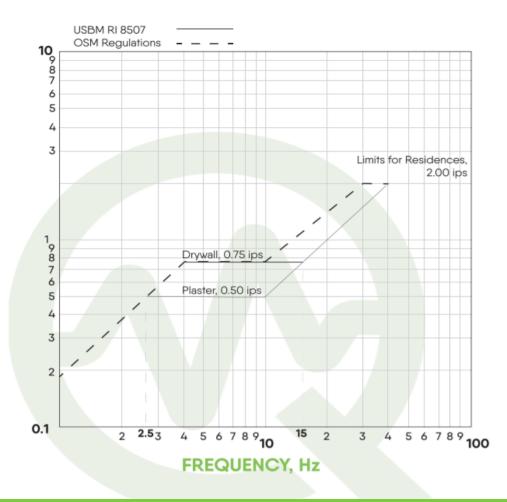
A limit of 0.75 inches per second maximum is recommended for the preservation of modern drywall interior construction. The damage threshold is regularly extensively higher for load bearing or other structural portions of a house





# **USBM REPORT OF INVESTIGATION 8507 DIAGRAM**





Classification	Description of Damage
Threshold	Loosening of paint, small plaster cracks of joints between elements, lengthening of old cracks.
Minor	Loosening and falling of plaster, hairline cracks in masonry around openings near partitions, falling of loose mortar.
Major Weakening	Cracks of several millimeter sin walls, structural fall of masonry, e.g. chimneys, and load support ability.



The Peak Particle Velocity of 2.0 in/sec is generally accepted as a conservative safe limit for structures states for construction activities such as demolition and blasting activities. USBM Report of Investigation 8507 states that surface structures are most prone to damage as a result of vibration energy within the frequency range of 4-12 hertz. Within this range, a 0.5 inches per second maximum particle velocity is recommended to preclude 'threshold' damage to plaster-on-wood lath interior portions of older structures. A maximum of 0.75 inches per second is recommended for the protection of modem drywall interior construction. The damage threshold is normally considerably higher for load bearing or other structural portions of a house.

The USBM Report of Investigation 8507 graph is shown on the following page. Above 12 hertz, the allowable vibration intensity Increases to 2.0 inches per second as the frequency increases up to 40 hertz. Above 40 hertz, a constant 2.0 inches per second level is recommended to protect

the interior walls and ceiling of structures, regardless of construction material. With respect to vibration induced soil settlement, and underground structure and utility damage, other research has shown that vibration levels in excess of 5.0 inches per second am required for this to occur.

# **Human Response to Vibrations**

Ground-borne vibration is not a phenomenon that most people experience every day. Human response to vibration in buildings is very complex. The degree of annoyance cannot always be explained by the magnitude of the vibration alone.

In some cases, the complaints are associated with measured vibration that is lower than the perception threshold. Other phenomena such as ground-borne noise, rattling, visual effects such as movement flanging objects, and time of day (e.g.. late at night) all play some role in the response of Individuals.

Response Level	Velocity (in./sec.)	Percent of 2.0 in./sec.
Perceptible	.04	2%
Troublesome	.20	10%
Severe	.70	35%

Device Number UM17486

Exterior, front 564 Sackett Street







January 25, 2025 06:00:09 January 25, 2025 17:59:59 143.97/300 sec 1024 sps 558 Sackett Street S4.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM17486 Micromate ISEE 10.90GC 3.8 volts March 22, 2023 by Instantel UM17486\_20250125060009.IDFH Disabled

Notes Location Client Company General Notes

564 Sackett St building front Bluesky builders Quiver League 558 Sackett Street Project

**Extended Note** 

0

06:05:09

07:15:09

08:25:09

09:35:09

10:45:09

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

Long <0.005 in/s 64.0 Hz Jan 25, 2025 09:50:09 X Check 1024.0 Hz Geophone Peak Particle Velocity Zero Crossing Frequency Tran <0.005 in/s >100 Hz Vert **USBM RI8507 And OSMRE** Vert <0.005 in/s 42.7 Hz Jan 25, 2025 11:00:09 X Check 1024.0 Hz Velocity versus Frequency (Zero Crossing) Jan 25, 2025 15:05:09 X Check 1024.0 Hz Date Time Sensor Check No velocity above 0.0394 in/s Frequency Overswing Ratio 0.0 0.0 0.0 Peak Vector Sum 0.0029 in/s at January 25, 2025 06:40:09 2 Velocity (in/s) 0.5 0.2 0.1 0.05 0.0394 10 50 100 20 Sensor Check Frequency (Hz) 0.003 0.0025 0.002 0.0015 0.001 X Check 0 06:05:09 07:15:09 08:25:09 09:35:09 10:45:09 11:55:09 13:05:09 14:15:09 15:25:09 16:35:09 17:45:09 0.003 0.0025 0.002 0.0015 0.001 0.0005 X Check 0 09:35:09 0.003 0.0025 

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11:55:09

13:05:09

14:15:09

15:25:09

16:35:09



X Check

17:45:09







January 25, 2025 18:02:10 January 25, 2025 19:59:59 23.57/300 sec 1024 sps 558 Sackett Street S4.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM17486 Micromate ISEE 10.90GC 3.8 volts March 22, 2023 by Instantel UM17486\_20250125180210.IDFH Disabled

Notes Location Client Company General Notes

564 Sackett St building front Bluesky builders Quiver League 558 Sackett Street Project

Extended Note IF VIBRATIONS REACH 0.25 IN/S ALERT

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

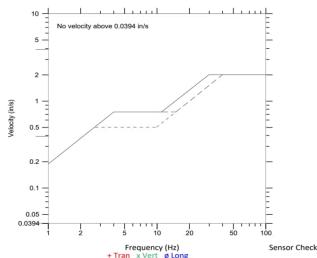
Geophone
Peak Particle Velocity
Zero Crossing Frequency
Date
Time
Sensor Check
Frequency
Overswing Ratio

Peak Vector Sum

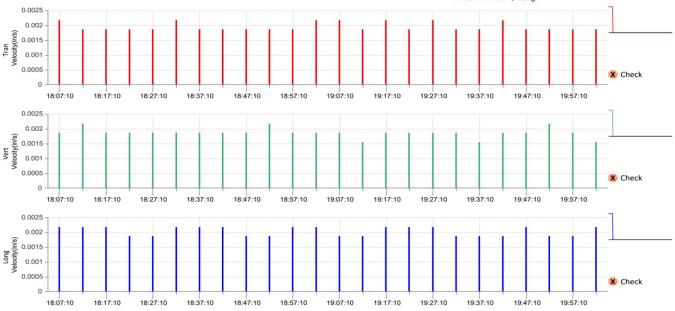
Tran <0.005 in/s 85.3 Hz Jan 25, 2025 18:07:10 X Check 1024.0 Hz 0.0 Vert <0.005 in/s >100 Hz Jan 25, 2025 18:12:10 X Check 1024.0 Hz 0.0

Long <0.005 in/s >100 Hz Jan 25, 2025 18:07:10 X Check 1024.0 Hz 0.0

0.0026 in/s at January 25, 2025 18:32:10



USBM RI8507 And OSMRE Velocity versus Frequency (Zero Crossing)











January 26, 2025 06:00:09 January 26, 2025 17:59:59 143.97/300 sec 1024 sps 558 Sackett Street S4.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM17486 Micromate ISEE 10.90GC 3.8 volts March 22, 2023 by Instantel UM17486\_20250126060009.IDFH Disabled

Notes Location Client Company General Notes

564 Sackett St building front Bluesky builders Quiver League 558 Sackett Street Project

**Extended Note** 

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

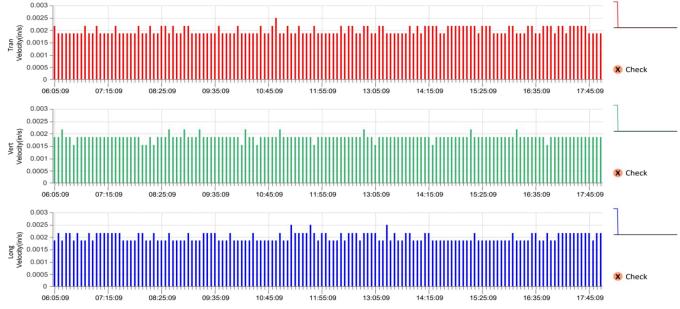
Geophone Peak Particle Velocity Zero Crossing Frequency Date Time Sensor Check Frequency Overswing Ratio Peak Vector Sum

**Tran** <0.005 in/s 32.0 Hz Vert <0.005 in/s >100 Hz Jan 26, 2025 06:15:09 X Check 1024.0 Hz Jan 26, 2025 10:55:09 X Check 1024.0 Hz 0.0 0.0 0.0026 in/s at January 26, 2025 11:30:09

Long <0.005 in/s 73.1 Hz Jan 26, 2025 11:15:09 X Check 1024.0 Hz 0.0

Velocity versus Frequency (Zero Crossing) No velocity above 0.0394 in/s 2 Velocity (in/s) 0.5 0.2 0.1 0.05 0.0394 100 1 10 50 20 Sensor Check Frequency (Hz)

**USBM RI8507 And OSMRE** 









January 26, 2025 18:02:10 January 26, 2025 19:59:59 23.57/300 sec 1024 sps 558 Sackett Street S4.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM17486 Micromate ISEE 10.90GC 3.8 volts March 22, 2023 by Instantel UM17486\_20250126180210.IDFH Disabled

Notes Location Client Company General Notes

564 Sackett St building front Bluesky builders Quiver League 558 Sackett Street Project

Extended Note IF VIBRA

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

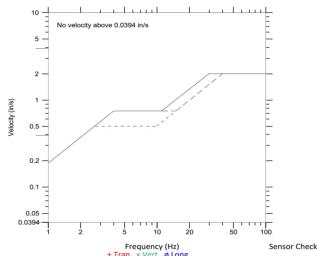
Geophone
Peak Particle Velocity
Zero Crossing Frequency
Date
Time
Sensor Check

Time
Sensor Check
Frequency
Overswing Ratio
Peak Vector Sum

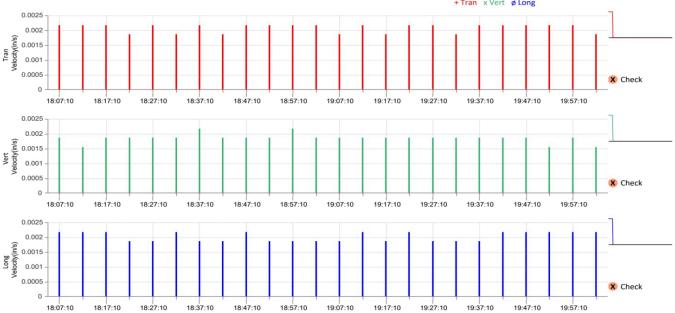
Tran <0.005 in/s 19.0 Hz Jan 26, 2025 18:07:10 X Check 1024.0 Hz 0.0 Vert <0.005 in/s >100 Hz Jan 26, 2025 18:37:10 X Check 1024.0 Hz 0.0

Long <0.005 in/s 73.1 Hz Jan 26, 2025 18:07:10 X Check 1024.0 Hz 0.0

0.0027 in/s at January 26, 2025 18:07:10



USBM RI8507 And OSMRE Velocity versus Frequency (Zero Crossing)









Number of Intervals/Interval

January 27, 2025 06:00:09 January 27, 2025 13:49:03 93.78/300 sec 1024 sps

93.78/300 sec Battery Level
1024 sps Unit Calibratio
558 Sackett Street S4.mmb Event File Nam
Quiver League USB Sensor Su

Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM17486 Micromate ISEE 10.90GC 3.8 volts March 22, 2023 by Instantel UM17486\_20250127060009.IDFH Disabled

**QUIVER** 

Notes Location Client Company General Notes

Sample Rate

Setup File Name Operator

> 564 Sackett St building front Bluesky builders Quiver League 558 Sackett Street Project

**Extended Note** 

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

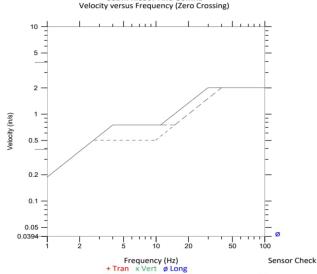
Geophone
Peak Particle Velocity
Zero Crossing Frequency
Date
Time
Sensor Check
Frequency
Overswing Ratio

Peak Vector Sum

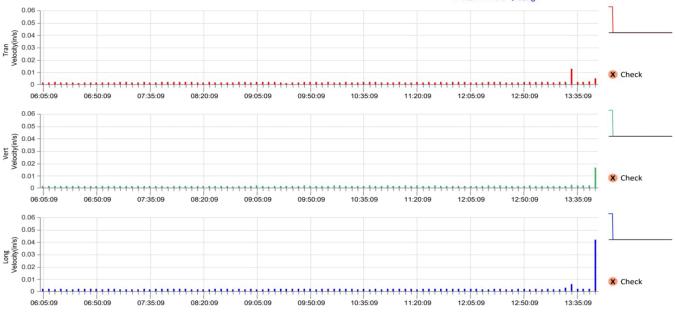
Tran 0.0130 in/s >100 Hz Jan 27, 2025 13:30:09 X Check 1024.0 Hz 0.0 Vert 0.0168 in/s 39.4 Hz Jan 27, 2025 13:49:03 X Check 1024.0 Hz 0.0

Long 0.0422 in/s >100 Hz Jan 27, 2025 13:49:03 X Check 1024.0 Hz 0.0

0.0423 in/s at January 27, 2025 13:50:09



**USBM RI8507 And OSMRE** 











January 27, 2025 13:56:09 January 27, 2025 17:59:59 48.77/300 sec 1024 sps 558 Sackett Street S4.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM17486 Micromate ISEE 10.90GC 3.8 volts March 22, 2023 by Instantel UM17486\_20250127135609.IDFH Disabled

Notes Location Client Company General Notes

564 Sackett St building front Bluesky builders Quiver League 558 Sackett Street Project

Extended Note IF VIBRATIONS REACH 0.25 IN/S ALERT T

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

Geophone
Peak Particle Velocity
Zero Crossing Frequency
Date
Time
Sensor Check
Frequency
Overswing Ratio
Peak Vector Sum

 Tran
 Vert
 Long

 0.0137 in/s
 0.0313 in/s
 0.0360 in/s

 16.0 Hz
 8.8 Hz
 13.5 Hz

 Jan 27, 2025
 Jan 27, 2025
 Jan 27, 2025

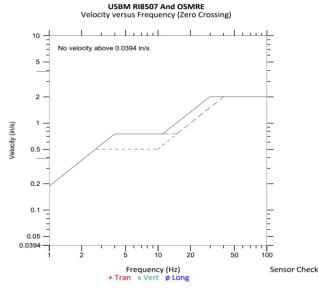
 16:46:09
 14:41:09
 15:51:09

 ✓ Passed
 ✓ Passed
 ✓ Passed

 7.5 Hz
 7.7 Hz
 7.3 Hz

 4.2
 3.9
 4.4

0.0361 in/s at January 27, 2025 15:51:09









QUIVER

Start Finish Number of Intervals/Interval Sample Rate Setup File Name Operator January 27, 2025 18:00:51 January 27, 2025 19:59:59 23.83/300 sec 1024 sps 558 Sackett Street S4.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM17486 Micromate ISEE 10.90GC 3.8 volts March 22, 2023 by Instantel UM17486\_20250127180051.IDFH Disabled

Notes Location Client Company General Notes

564 Sackett St building front Bluesky builders Quiver League 558 Sackett Street Project

General Notes 558 Sackett Stre

Extended Note IF VIBRATIONS REACH 0.25 IN/S ALERT THE

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

Geophone
Peak Particle Velocity
Zero Crossing Frequency
Date
Time
Sensor Check
Frequency
Overswing Ratio

Peak Vector Sum

 Tran
 Vert
 Long

 <0.005 in/s</td>
 <0.005 in/s</td>
 0.0208 in/s

 39.4 Hz
 64.0 Hz
 12.5 Hz

 Jan 27, 2025
 Jan 27, 2025
 Jan 27, 2025

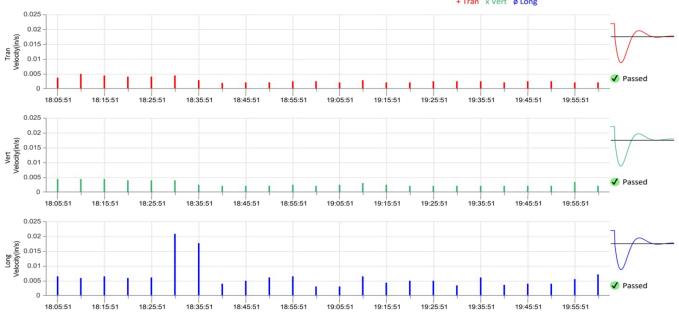
 18:10:51
 18:05:51
 18:30:51

 ✓ Passed
 ✓ Passed
 ✓ Passed

 7.5 Hz
 7.7 Hz
 7.3 Hz

 4.2
 4.0
 4.4

**USBM RI8507 And OSMRE** 





Device Number UM22524

Exterior, rear 564 Sackett Street







January 25, 2025 06:00:09 January 25, 2025 17:59:59 143.97/300 sec 1024 sps 558 Sackett Street S1.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM22524 Micromate ISEE 11.0AK 3.8 volts December 22, 2023 by Instantel UM22524\_20250125060009.IDFH Disabled

Notes Location Client Company General Notes

564 Sackett St building Bluesky builders Quiver League 558 Sackett Street Project

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING **Extended Note** ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

Geophone Peak Particle Velocity Zero Crossing Frequency Date Time Sensor Check Frequency Overswing Ratio Peak Vector Sum

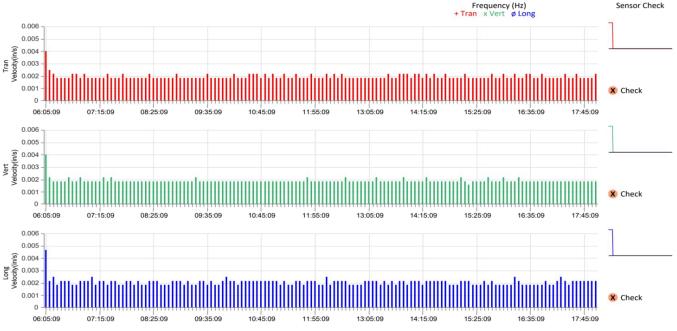
Tran <0.005 in/s N/A Jan 25, 2025 06:05:09 X Check 1024.0 Hz 0.0

Vert <0.005 in/s N/A Jan 25, 2025 06:05:09 X Check 1024.0 Hz 0.0 0.0066 in/s at January 25, 2025 06:05:09

Long <0.005 in/s N/A Jan 25, 2025 06:05:09 X Check 1024.0 Hz 0.0

Velocity versus Frequency (Zero Crossing) No velocity above 0.0394 in/s 2 Velocity (in/s) 0.5 0.2 0.1 0.05 0.0394 10 | 50 100 20 Frequency (Hz)

**USBM RI8507 And OSMRE** 









January 25, 2025 18:02:08 January 25, 2025 19:59:59 23.57/300 sec 1024 sps 558 Sackett Street S1.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM22524 Micromate ISEE 11.0AK 3.8 volts December 22, 2023 by Instantel UM22524\_20250125180208.IDFH Disabled

Notes Location Client Company General Notes

564 Sackett St building Bluesky builders Quiver League 558 Sackett Street Project

General Notes 558 Sackett Street

Extended Note IF VIBRATIONS REACH 0.25 IN/S ALERT THE

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

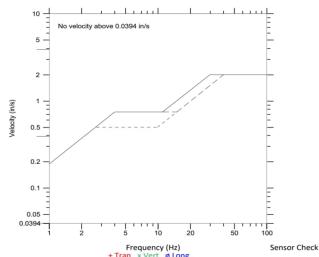
Geophone
Peak Particle Velocity
Zero Crossing Frequency
Date
Time
Sensor Check

Time
Sensor Check
Frequency
Overswing Ratio
Peak Vector Sum

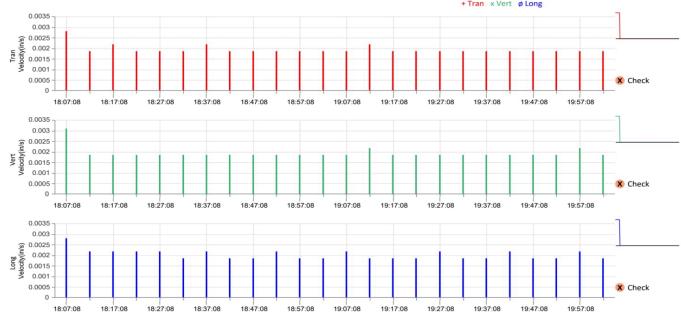
Tran <0.005 in/s 3.2 Hz Jan 25, 2025 18:07:08 X Check 1024.0 Hz 0.0 Vert <0.005 in/s N/A Jan 25, 2025 18:07:08 X Check 1024.0 Hz

Long <0.005 in/s N/A Jan 25, 2025 18:07:08 X Check 1024.0 Hz

0.0041 in/s at January 25, 2025 18:07:08



USBM RI8507 And OSMRE Velocity versus Frequency (Zero Crossing)









January 26, 2025 06:00:09 January 26, 2025 17:59:59 143:97/300 sec 1024 sps 558 Sackett Street S1.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM22524 Micromate ISEE 11.0AK 3.8 volts December 22, 2023 by Instantel UM22524\_20250126060009.IDFH Disabled

Notes Location Client Company General Notes

564 Sackett St building Bluesky builders Quiver League 558 Sackett Street Project

Extended Note IF VIBRATIONS REACH 0.25 IN/

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

Geophone
Peak Particle Velocity
Zero Crossing Frequency
Date
Time
Sensor Check
Frequency
Overswing Ratio
Peak Vector Sum

 Tran
 Vert
 Long

 <0.005 in/s</td>
 <0.005 in/s</td>
 <0.005 in/s</td>

 N/A
 N/A
 N/A

 Jan 26, 2025
 Jan 26, 2025
 Jan 26, 2025

 06:05:09
 06:05:09
 06:05:09

 X Check
 X Check
 X Check

 1024.0 Hz
 1024.0 Hz
 1024.0 Hz

 0.0
 0.0
 0.0

**USBM RI8507 And OSMRE** 









January 26, 2025 18:02:08 January 26, 2025 19:59:59 23.57/300 sec 1024 sps 558 Sackett Street S1.mmb Quiver League

Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support

**QUIVER** UM22524 Micromate ISEE 11.0AK

Number of Intervals/Interval Sample Rate Setup File Name Operator

Notes Location Client 564 Sackett St building Bluesky builders Company General Notes Quiver League 558 Sackett Street Project

3.8 volts December 22, 2023 by Instantel UM22524\_20250126180208.IDFH Disabled

**Extended Note** 

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

Geophone Peak Particle Velocity Zero Crossing Frequency Date Time Sensor Check

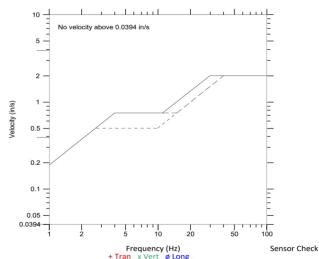
Frequency Overswing Ratio Peak Vector Sum Tran <0.005 in/s N/A Jan 26, 2025 18:07:08 X Check 1024.0 Hz 0.0

Vert <0.005 in/s N/A Jan 26, 2025 18:07:08 X Check 1024.0 Hz 0.0

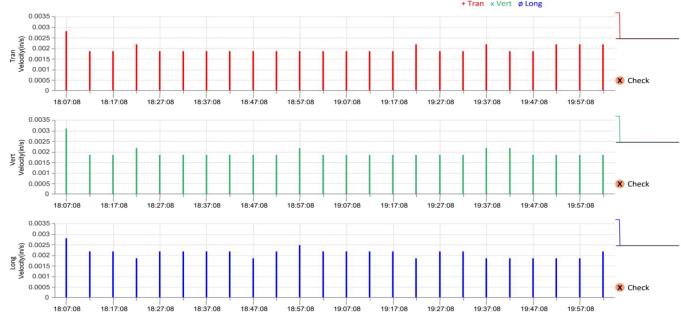
Long <0.005 in/s N/A Jan 26, 2025 18:07:08 X Check 1024.0 Hz

0.0

0.0047 in/s at January 26, 2025 18:07:08



**USBM RI8507 And OSMRE** Velocity versus Frequency (Zero Crossing)











January 27, 2025 06:00:09 January 27, 2025 13:40:26 92.06/300 sec 1024 sps 558 Sackett Street S1.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM22524 Micromate ISEE 11.0AK 3.7 volts December 22, 2023 by Instantel UM22524\_20250127060009.IDFH Disabled

Notes Location Client Company General Notes

564 Sackett St building Bluesky builders Quiver League 558 Sackett Street Project

**Extended Note** 

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

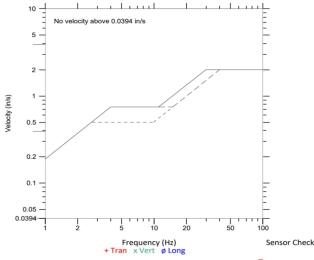
**Geophone**Peak Particle Velocity
Zero Crossing Frequency Date Time Sensor Check Frequency Overswing Ratio Peak Vector Sum

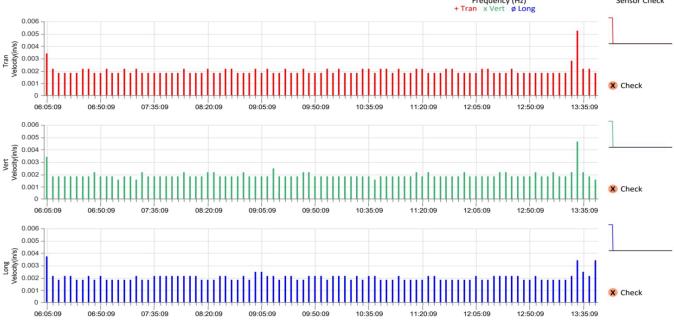
Tran 0.0053 in/s >100 Hz Jan 27, 2025 13:30:09 X Check 1024.0 Hz 0.0

Vert <0.005 in/s >100 Hz Jan 27, 2025 13:30:09 X Check 1024.0 Hz 0.0 0.0071 in/s at January 27, 2025 13:30:09

Long <0.005 in/s N/A Jan 27, 2025 06:05:09 X Check 1024.0 Hz 0.0

**USBM RI8507 And OSMRE** Velocity versus Frequency (Zero Crossing)











January 27, 2025 13:55:44 January 27, 2025 17:59:59 48.85/300 sec 1024 sps 558 Sackett Street S1.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM22524 Micromate ISEE 11.0AK 3.8 volts December 22, 2023 by Instantel UM22524\_20250127135544.IDFH Disabled

Notes Location Client Company General Notes

564 Sackett St building Bluesky builders Quiver League 558 Sackett Street Project

**Extended Note** 

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

**Geophone**Peak Particle Velocity
Zero Crossing Frequency Date Time Sensor Check Frequency Overswing Ratio

Peak Vector Sum

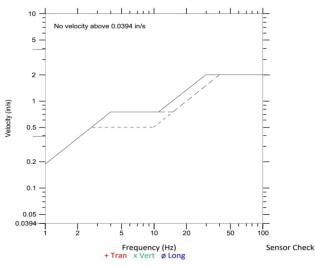
Tran
0.0106 in/s
10.7 Hz
Jan 27, 2025
16:40:44

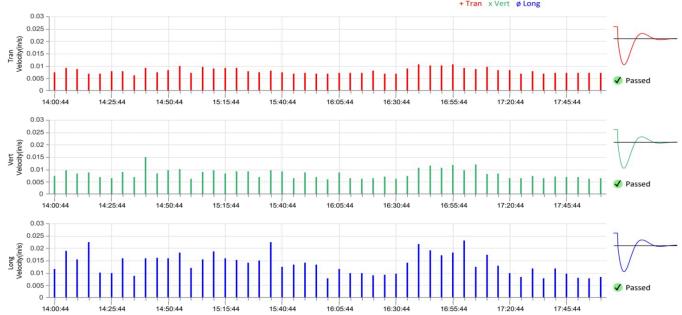
✓ Passed
7.3 Hz
4.9

Vert 0.0149 in/s 10.4 Hz Jan 27, 2025 14:40:44 ✓ Passed 7.5 Hz 0.0236 in/s at January 27, 2025 17:00:44

Long 0.0230 in/s 11.9 Hz Jan 27, 2025 17:00:44 ✓ Passed 7.3 Hz

USBM RI8507 And OSMRE Velocity versus Frequency (Zero Crossing)







Device Number
UM17502
Exterior 563 Union Street







January 25, 2025 06:00:05 January 25, 2025 17:59:58 143.98/300 sec 1024 sps 558 Sackett Street S2.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM17502 Micromate ISEE 11.0AK 3.8 volts April 25, 2024 by Instantel UM17502\_20250125060005.IDFH Disabled

Notes Location Client Company General Notes

563 union st building ( rear of site ) Bluesky builders Quiver League 558 Sackett Street Project

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING **Extended Note** ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

**Geophone**Peak Particle Velocity
Zero Crossing Frequency Date Time Sensor Check Frequency Overswing Ratio Peak Vector Sum

**Vert** 0.0071 in/s 8.7 Hz 0.0071 in/s 7.4 Hz Jan 25, 2025 Jan 25, 2025 07:55:05 Passed 7.3 Hz 07:55:05 ✓ Passed 7.3 Hz 4.9 0.0301 in/s at January 25, 2025 11:00:05

Long 0.0301 in/s 9.3 Hz Jan 25, 2025 11:00:05 ✓ Passed 7.3 Hz

Velocity versus Frequency (Zero Crossing) No velocity above 0.0394 in/s Velocity (in/s) 0.5 0.2 0.1 0.05 0.0394 1 10 100 Sensor Check Frequency (Hz)

USBM RI8507 And OSMRE











January 25, 2025 18:02:05 January 25, 2025 19:59:59 23.58/300 sec 1024 sps 558 Sackett Street S2.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM17502 Micromate ISEE 11.0AK 3.8 volts April 25, 2024 by Instantel UM17502\_20250125180205.IDFH Disabled

Notes Location Client

563 union st building ( rear of site ) Bluesky builders Quiver League 558 Sackett Street Project

Company Quiver League General Notes Sackett Street Project

Extended Note IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

Geophone
Peak Particle Velocity
Zero Crossing Frequency
Date
Time
Sensor Check
Frequency
Overswing Ratio

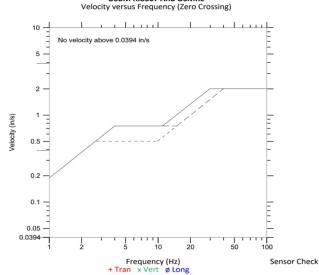
Peak Vector Sum

Tran
<0.005 in/s
14.6 Hz
Jan 25, 2025
19:22:05
✓ Passed
7.3 Hz
4.8

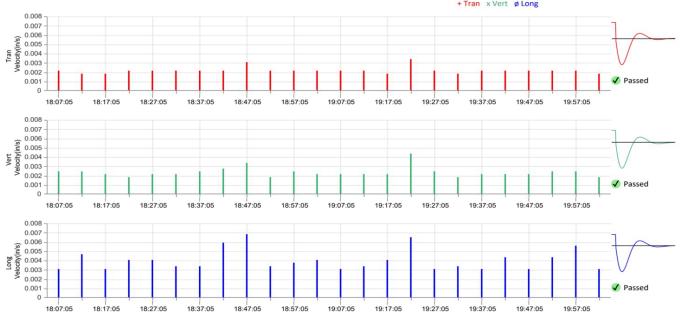
Vert <0.005 in/s 11.6 Hz Jan 25, 2025 19:22:05 ✓ Passed 7.3 Hz 5.0

Long 0.0068 in/s 6.6 Hz Jan 25, 2025 18:47:05 ✓ Passed 7.3 Hz 5.2

0.0069 in/s at January 25, 2025 19:22:05



**USBM RI8507 And OSMRE** 











100

Sensor Check

Start Finish Number of Intervals/Interval Sample Rate Setup File Name Operator January 26, 2025 06:00:05 January 26, 2025 17:59:58 143:98/300 sec 1024 sps 558 Sackett Street S2.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM17502 Micromate ISEE 11.0AK 3.8 volts April 25, 2024 by Instantel UM17502\_20250126060005.IDFH Disabled

Notes Location Client Company

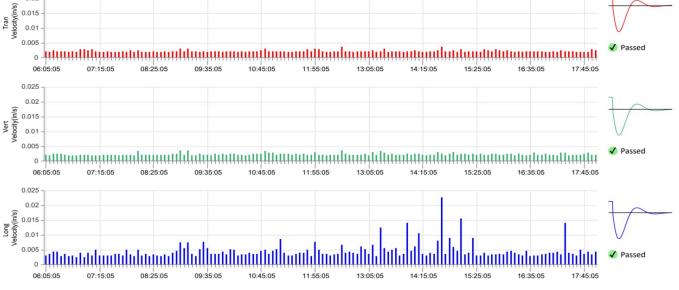
563 union st building ( rear of site ) Bluesky builders Quiver League 558 Sackett Street Project

Company Quiver League
General Notes 558 Sackett Street Project

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Post Event Notes No text to be displayed.

Geophone Peak Particle Velocity Zero Crossing Frequency Long 0.0227 in/s 4.8 Hz Vert USBM RI8507 And OSMRE <0.005 in/s 11.9 Hz <0.005 in/s 13.8 Hz Velocity versus Frequency (Zero Crossing) Jan 26, 2025 14:40:05 Passed 7.3 Hz Jan 26, 2025 09:00:05 ✓ Passed 7.3 Hz Date Jan 26, 2025 12:30:05 Passed 7.3 Hz Time Sensor Check No velocity above 0.0394 in/s Frequency 4.8 Overswing Ratio 5.0 Peak Vector Sum 0.0227 in/s at January 26, 2025 14:40:05 Velocity (in/s) 0.5 0.1 0.05 0.0394 Frequency (Hz) 0.025 0.02 0.015 0.01 0.005









January 26, 2025 18:02:05 January 26, 2025 19:59:59 23.58/300 sec 1024 sps 558 Sackett Street S2.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM17502 Micromate ISEE 11.0AK 3.7 volts April 25, 2024 by Instantel UM17502\_20250126180205.IDFH Disabled

Notes Location Client

563 union st building ( rear of site ) Bluesky builders Quiver League 558 Sackett Street Project

Company Quiver League
General Notes 558 Sackett Street Project

Extended Note IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed.

Geophone
Peak Particle Velocity
Zero Crossing Frequency
Date
Time
Sensor Check
Frequency
Overswing Ratio

Peak Vector Sum

 Tran
 Vert
 Long

 <0.005 in/s</td>
 <0.005 in/s</td>
 0.0084 in/s

 14.2 Hz
 10.2 Hz
 8.0 Hz

 Jan 26, 2025
 Jan 26, 2025
 Jan 26, 2025

 19:42:05
 19:17:05
 19:42:05

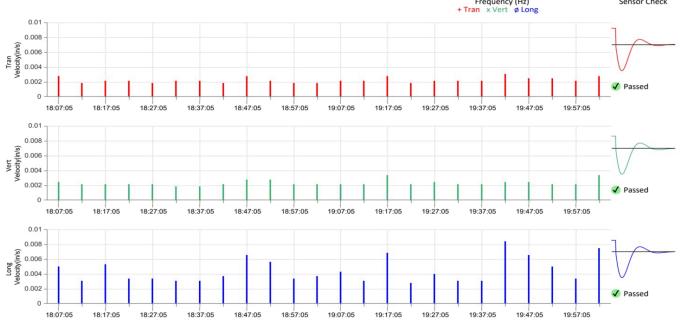
 ✓ Passed
 ✓ Passed
 ✓ Passed

 7.3 Hz
 7.3 Hz
 7.3 Hz

 5.0
 5.2
 5.2

 0.0084 in/s at January 26, 2025 19:42:05

**USBM RI8507 And OSMRE** 











January 27, 2025 06:00:05 January 27, 2025 17:59:58 143.98/300 sec 1024 sps 558 Sackett Street S2.mmb Quiver League Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support UM17502 Micromate ISEE 11.0AK 3.7 volts April 25, 2024 by Instantel UM17502\_20250127060005.IDFH Disabled

Notes Location Client

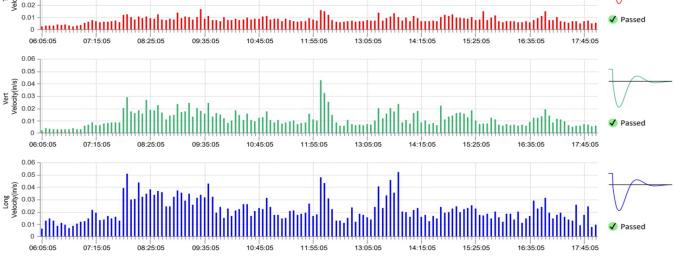
**Extended Note** 

563 union st building ( rear of site ) Bluesky builders Quiver League

Company General Notes 558 Sackett Street Project

IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT ENGINEER. WORK SHALL RESUME WHEN APPROVED BY CONSTRUCTION MANAGER AND ENGINEER.

Post Event Notes No text to be displayed. Long 0.0521 in/s 7.9 Hz Jan 27, 2025 13:45:05 ✓ Passed 7.3 Hz **Geophone**Peak Particle Velocity
Zero Crossing Frequency **Vert** 0.0431 in/s 12.8 Hz **USBM RI8507 And OSMRE** 0.0164 in/s 12.2 Hz Velocity versus Frequency (Zero Crossing) Jan 27, 2025 12:05:05 ✓ Passed 7.3 Hz Date Jan 27, 2025 09:30:05 ✓ Passed 7.3 Hz Time Sensor Check Frequency Overswing Ratio 4.8 5.0 Peak Vector Sum 0.0524 in/s at January 27, 2025 13:45:05 Velocity (in/s) 0.5 0.2 0.1 0.05 0.0394 100 Sensor Check Frequency (Hz) 0.06 0.05 0.04 0.03 0.02 0.01 Passed 06:05:05 07:15:05 08:25:05 09:35:05 10:45:05 11:55:05 13:05:05 14:15:05 15:25:05 16:35:05 17:45:05 0.06 0.05 0.04 0.03 0.02



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# **OUR SERVICES**





# Instrumantation & Monitoring





Remote Vibration Monitoring



Title Survey



**Monitoring Plan** 



**Architectural Survey** 



Weekly Monitoring Reports



Stakeout/Benchmark Survey



Crack Gauge Monitoring



Subdivision Survey



**Optical Monitoring** 



Axis/Grid Lines Survey



Pre/Construction Survey Report



Final Survey



Sound/Noise Monitroing



Environmental Easement Survey

