

| Project | Former A&A Brake Service Site | Report No. | 28 |
|------------|----------------------------------|-------------------|-----------------------|
| BCP Site | NYSDEC BCP SITE C224372 | Date | 8/1/2024 |
| Location | 558 Sackett Street | File No. | 0206384 |
| Client | Sackett Heights LLC | Temperature | H: 96°F L: 77°F |
| Contractor | Blue Sky Builders, International | Wind Direction | SW to NE, up to 8 mph |
| | Concrete | | |
| Weather | Clear | Personnel on Site | G. Poulton |
| Humidity | 54% | Time on Site | 6:30 am to 4:00 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:

- During excavation, a hydraulic lift was encountered in the central-eastern portion of the site.
 Upon visual inspection, no leaks were observed, and the lift contained approximately 15 gallons of residual liquid. The residual liquid was transferred into a drum pending future off-site disposal.
- Chris DiScafani from WSP, arrived on-Site to document field activities on behalf of the NYSDEC. No complaints were noted.
- Daily vibration monitoring data appended to this report.

Waste Disposal/Backfill Import Tracking:

Material Export:

- o None.
- Soil disposal is summarized below:

| | Facility: Posillico Materials, Farmingdale, NY (Non-Haz Soil) | | Total | ls: |
|---------------|---|-------------|-----------------|-------------|
| Today: | <u> 0 Loads</u> | <u>0 CY</u> | <u> 0 Loads</u> | <u>0 CY</u> |
| <u>Total:</u> | 13 Loads | 260 CY | 13 Loads | 260 CY |

^{*}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) | Total | ls: |
|---------------|-----------------|---|-----------------|-------------|
| Today: | <u> 0 Loads</u> | <u>0 CY</u> | <u> 0 Loads</u> | <u>0 CY</u> |
| <u>Total:</u> | 14 Loads | <u>280 CY</u> | 14 Loads | 280 CY |



Material Import:

- None.
- Material import is summarized below:

| | Facility: Stavola of Tinton Falls, NJ; Bound Brook Quarry, NJ | | | la of Tinton Falls, rook Quarry, NJ | Totals: | |
|---------------|---|--------------|----------------|--|----------------|-------------|
| | (1 ½ in Stone) | | (¾ ii | | | |
| 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> | 3 Loads | <u>60 CY</u> | 1 Load | 20 CY | 4 Loads | 80 CY |

^{*}Note, 1 truck estimated at 20 cubic yards. Final tonnages will be presented in the FER.

Samples Collected:

• No samples were collected.

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 3:00 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 excavation of soil/fill material.
- Contractor (Blue Sky) will continue support-of-excavation installation.



Site Photographs:



Photo 1: View of contractor draining hydraulic lift found on site, facing West.



Photo 2: View of Site conditions at shift end, facing Southwest.





558 Sackett Street, Brooklyn NY

Air Monitoring Log

Date: 2024-08-01

Personnel: G. Poulton

Weather: Clear
Humidity: 54%

Wind Direction: SW to NE, 8 mph

Particulate Background (ug/m3): 0.020

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 | 0.016 | 0.020 | 0.1 | 0.0 | | |
| 07:15 | 0.014 | 0.018 | 0.1 | 0.1 | | |
| 07:30 | 0.011 | 0.017 | 0.2 | 0.2 | | |
| 07:45 | 0.010 | 0.015 | 0.1 | 0.1 | | |
| 08:00 | 0.011 | 0.016 | 0.0 | 0.0 | | |
| 08:15 | 0.011 | 0.015 | 0.1 | 0.0 | | |
| 08:30 | 0.012 | 0.013 | 0.0 | 0.0 | | |
| 08:45 | 0.010 | 0.012 | 0.0 | 0.0 | | |
| 09:00 | 0.009 | 0.012 | 0.0 | 0.0 | | |
| 09:15 | 0.010 | 0.012 | 0.0 | 0.0 | | |
| 09:30 | 0.009 | 0.010 | 0.0 | 0.0 | | |
| 09:45 | 0.007 | 0.009 | 0.0 | 0.0 | | |
| 10:00 | 0.007 | 0.008 | 0.0 | 0.0 | | |
| 10:15 | 0.007 | 0.008 | 0.0 | 0.0 | | |
| 10:30 | 0.008 | 0.009 | 0.0 | 0.0 | | |
| 10:45 | 0.010 | 0.012 | 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 | 0.011 | 0.013 | 0.0 | 0.0 | | |
| 11:15 | 0.018 | 0.014 | 0.0 | 0.0 | | |
| 11:30 | 0.021 | 0.014 | 0.0 | 0.0 | | |
| 11:45 | 0.016 | 0.013 | 0.0 | 0.0 | | |
| 12:00 | 0.013 | 0.013 | 0.0 | 0.0 | | |
| 12:15 | 0.013 | 0.014 | 0.0 | 0.0 | | |
| 12:30 | 0.015 | 0.016 | 0.0 | 0.0 | | |
| 12:45 | 0.013 | 0.015 | 0.0 | 0.0 | | |
| 13:00 | 0.016 | 0.015 | 0.0 | 0.0 | | |
| 13:15 | 0.014 | 0.015 | 0.0 | 0.0 | | |
| 13:30 | 0.014 | 0.015 | 0.0 | 0.0 | | |
| 13:45 | 0.012 | 0.014 | 0.0 | 0.0 | | |
| 14:00 | 0.013 | 0.014 | 0.0 | 0.0 | | |
| 14:15 | 0.012 | 0.014 | 0.0 | 0.0 | | |
| 14:30 | 0.012 | 0.012 | 0.0 | 0.0 | | |
| 14:45 | 0.015 | 0.011 | 0.0 | 0.0 | | |
| 15:00 | 0.013 | 0.010 | 0.0 | 0.0 | | |



1 212-897-9946

Info@quivermonitoring.com

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WEEKLY MONITORING REPORT



Prepared For:

Blue Sky Builders

Prepared By:

Anslem Valmont – Monitoring Specialist

Weekly Monitoring

8/1/2024 - 8/1/2024

Project Address:

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

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| Department of Buildings Code | 5 |
| Vibration Monitoring | 8 |



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.

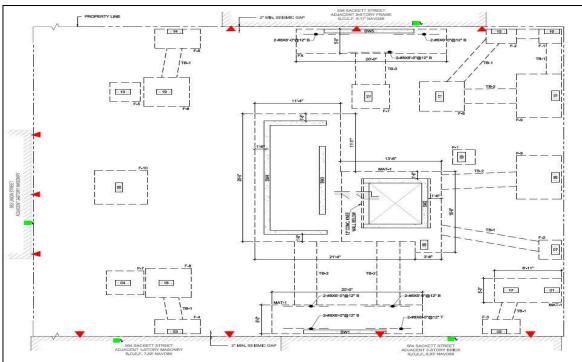
Please feel free to reach out to me with any questions or comments regarding this report.

Respectfully submitted,

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









MONITORING ELEVATION DETAIL SCALE: N.T.S.





| _ | | |
|----|------------------|------------|
| 1 | Initial | 06/24/2024 |
| | | |
| | | |
| | | |
| No | Issue / Revision | Date |
| | 1 No | |





558 Sackett Street, Brooklyn Brooklyn NY 11215

MONITORING PLAN

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

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.

IVA

| | MONITORING SUMMANY A PROTOCOL. | | | | | |
|---|--|---|--|--|---|--|
| MONITORING TYPE | DESCRIPTION | FREQUENCY OF INSPETION | THRESHOLD | REQUIED ACTION IF THRESHOLD IS EXCEEDED | FREQUENCY OF REPORT | |
| VIBRATION MONITORING | AUTOMATED REMOTE VIBRATION MONITORING WITH A THIREE COMPONENT SEISMOGRAPHS | REMOTE VERIATION MONITORING ALLOWANCE WORK HOURS, RECORDED EVENTS EXCEEDINGS THE THRESHILD VIAL BE UNLOADED TO A REMOTE SERVER AND EMAIL ALERT WILL BE SENT TO ALL RESPONSIBLE PARTIES. | PEAK PRACTICE VELOCITY >2 INS FOR ADJACENT STRUCTURES | IF VIRIATIONE DICERCI PER FOR ADJUSCINT STRUCTURES STOP ALL WORK RIMEDIATE, VIRIATIONAL CHECK ACCIDENCE, COLLUGE REPECTIONS, ALL DATA MARTÉ ES NEWHOLD BY THE CON AND INCREMENT CONTINUES STORM AND AND ADJUSCING CONTINUES AND AND ADJUSCING CONTINUES AND ADJUSCING CONTINUE | | |
| HORIZONTAL AND VERTICAL CONTROLS | MANUAL OPTICAL SURVEYING WITH ELECTRONIC TOTAL STATION | CONDUCT OPTICAL MONITORING DMLY DURING UNDERPRINING AND AT LEAST Wesley DURING ALL OTHER STAGES OF FOUNDATION CONSTRUCTION UNTIL COMPLETION OF FIRST FLOOR SLAB | 0.5" DISPLACMENT IN ANY DIRECTION | IF VERTICAL OF LATERAL BALDING MOVEMENT READES SY IMBEDATELY NOTIFY THE CONSTRUCTION MANAGER, OWNER, BACKNER AND STOP WORK. THE WORK SHALL RESIARE LIVEN APPROVAL BY THE CONSTRUCTION MANAGER, OWNER AND ENCORER OF APPROVED REMEDIAL MEASURES ANDORS MODIFIED CONSTRUCTION PROCEDURES. | A METTER REPORT DELLANCE DATA FROM THE GETTINE. STOCK AND VIBRATION EXPERIENCE CHALL BY EXPONED AT THE BIS OF FACT WERK. SHOULD THE PRESETTIMANED THRESHOLD FOR ANY THE OF CONSTRUCTION EXCORPORAL BE EXCELLED AN WHITTEN REPORT INCLUDING ALL. RECORDED DATA VILL BE MADE ANALASE BANEDATES. | |
| CRACK GALIGE MONITORING | MANUAL OBSERVATION AND RECORDING OF MEASUREMENT WITH TIME-STAMPED DIGITAL PHOTOGRAPHY. | AT SAME FREQUENCY AS OPTICAL MONITORING INSPECTIONS | 6mm DISPLACMENT IN ANY DIRECTION | IF MOVEMENT REACHES OWN, SMEDATELY NOTIFY THE CONSTRUCTION MANAGER, OWNER, BIODNESS AND STOP WORK THE WORK SHALL RESIDENCE BY THE CONSTRUCTION MANAGER, OWNER AND BIODNESS OF APPROVAD PRINCIPLE MANAGERS AND DRIVEN THE 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

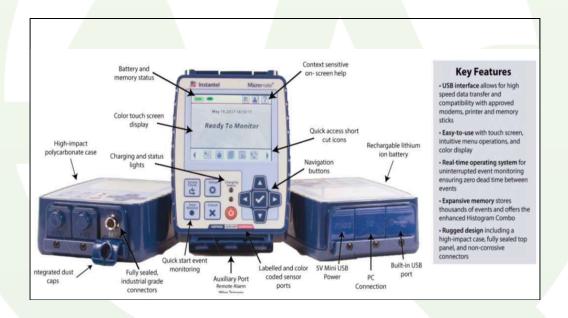




VIBRATION COMPLIANCE

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.

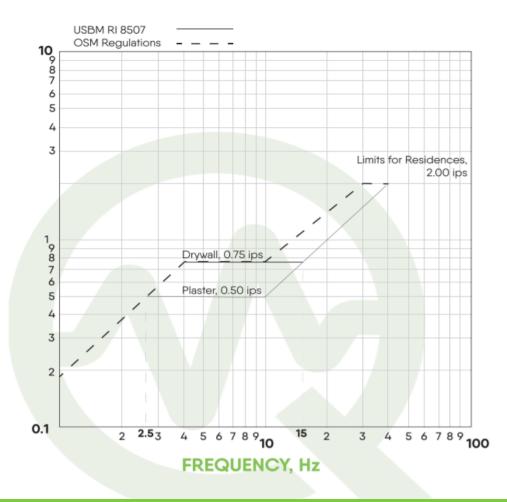
A limit of 0.75 inches per second maximum is recommended for the preservation of modern drywall interior construction. The damage threshold is regularly extensively higher for load bearing or other structural portions of a house





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
UM17502
Exterior 563 Union Street







Start Finish Number of Intervals/Interval Sample Rate Setup File Name Operator August 1, 2024 06:00:05 August 1, 2024 17:59:59 143:98/300 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_20240801060005.IDFH Disabled

Notes Location Client

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

Company Quiver League 558 Sackett Street F

Extended Note IF VIBRATIONS REACH 0.25 IN/S ALERT THE CO

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
 Tran
 Vert
 Long

 Peak Particle Velocity
 0.0248 in/s
 0.0214 in/s
 0.0540 in/s

 Zero Crossing Frequency
 9.5 Hz
 6.7 Hz
 6.1 Hz

 Date
 Aug 1, 2024
 Aug 1, 2024
 Aug 1, 2024

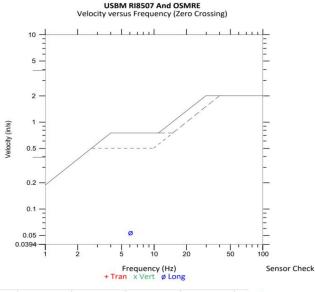
 Time
 17:45:05
 17:15:05
 17:15:05

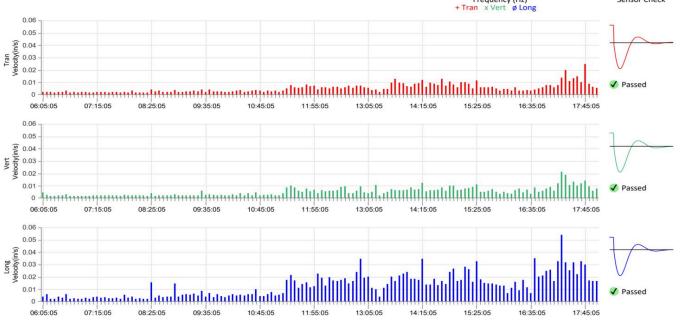
 Sensor Check
 ✓ Passed
 ✓ Passed
 ✓ Passed

 Frequency
 7.5 Hz
 7.3 Hz
 7.3 Hz

 Overswing Ratio
 4.4
 4.7
 4.9

 Peak Vector Sum
 0.0542 in/s at August 1, 2024 17:15:05





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Number of Intervals/Interval Sample Rate Setup File Name Operator

August 1, 2024 18:00:30 August 1, 2024 19:59:59 23.90/300 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_20240801180030.IDFH Disabled

Notes Location Client 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 **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.

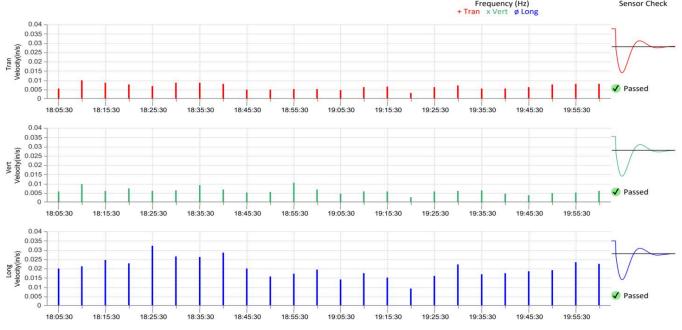
Post Event Notes No text to be displayed.

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

Peak Vector Sum

Long 0.0323 in/s 6.2 Hz Aug 1, 2024 18:25:30 ✓ Passed 7.3 Hz **Tran** 0.0099 in/s 4.2 Hz Vert 0.0106 in/s 10.2 Hz 4.2 Hz Aug 1, 2024 18:10:30 ✓ Passed 7.5 Hz 4.3 Aug 1, 2024 18:55:30 ✓ Passed 7.3 Hz 0.0324 in/s at August 1, 2024 18:25:30

USBM RI8507 And OSMRE Velocity versus Frequency (Zero Crossing) No velocity above 0.0394 in/s Velocity (in/s) 0.5 0.1 0.05 0.0394 10 50 100 20 Sensor Check Frequency (Hz)



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Device Number UM22524

Exterior, rear 564 Sackett Street







Start Finish Number of Intervals/Interval Sample Rate Setup File Name Operator August 1, 2024 06:00:05 August 1, 2024 17:59:58 143:98/300 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_20240801060005.IDFH Disabled

Notes Location Client Company General Notes

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

General Notes Carrett Street Projection Street Street Projection Country Street Project Street Project Street Project Street Street Project Street Street Street Project Street S

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

 0.0180 in/s
 0.0317 in/s
 0.0590 in/s

 6.2 Hz
 8.7 Hz
 10.2 Hz

 Aug 1, 2024
 Aug 1, 2024
 Aug 1, 2024

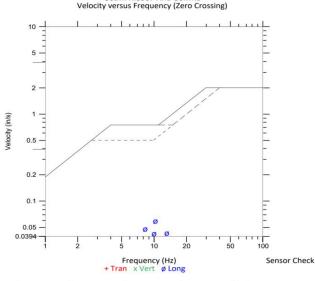
 13:20:05
 13:20:05
 13:20:05

 ✓ Passed
 ✓ Passed
 ✓ Passed

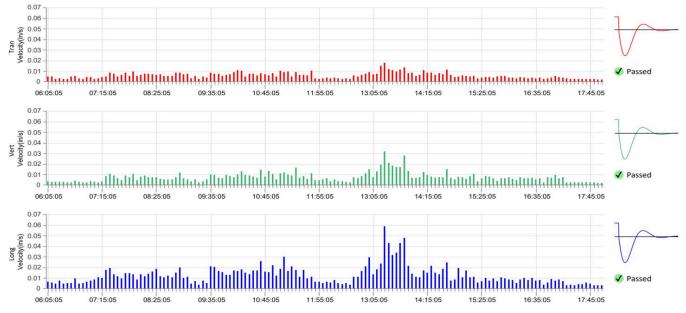
 7.3 Hz
 7.3 Hz
 7.3 Hz

 4.6
 4.4
 4.2

0.0668 in/s at August 1, 2024 13:20:05



USBM RI8507 And OSMRE



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Number of Intervals/Interval Sample Rate Setup File Name Operator

August 1, 2024 18:00:29 August 1, 2024 19:59:58 23.90/300 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_20240801180029.IDFH Disabled

Notes Location Client Company General Notes

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

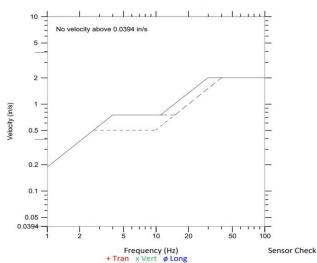
IF VIBRATIONS REACH 0.25 IN/S ALERT THE CONSTRUCTION MANAGER AND ENGINEER. IF VIBRATIONS EXCEEDED 0.50 IN/S STOP ALL VIBRATION PRODUCING **Extended Note** ACTIVITIES AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. FOLLOW UP WITH OPTICAL AND CRACK GAUGE MONITORS AND SUBMIT ALL RESULTS TO THE PROJECT 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 6.9 Hz Long 0.0062 in/s 11.9 Hz Vert <0.005 in/s 5.3 Hz 6.9 Hz Aug 1, 2024 19:50:29 ✓ Passed 7.3 Hz Aug 1, 2024 19:20:29 Passed 7.5 Hz Aug 1, 2024 18:50:29 Passed 7.3 Hz 4.0

0.0063 in/s at August 1, 2024 18:50:29



USBM RI8507 And OSMRE Velocity versus Frequency (Zero Crossing)



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Device Number UM17486

Exterior, front 564 Sackett Street







Start Finish Number of Intervals/Interval Sample Rate Setup File Name Operator August 1, 2024 06:00:06 August 1, 2024 17:59:59 143:98/300 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_20240801060006.IDFH Disabled

Notes Location Client Company General Notes

Extended Note

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

eneral Notes 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 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

 0.0164 in/s
 0.0323 in/s
 0.0618 in/s

 4.8 Hz
 7.8 Hz
 >100 Hz

 Aug 1, 2024
 Aug 1, 2024
 Aug 1, 2024

 12:15:06
 12:45:06
 12:25:06

 ✓ Passed
 ✓ Passed
 ✓ Passed

 7.3 Hz
 7.7 Hz
 7.3 Hz

 4.0
 3.7
 4.2

0.0621 in/s at August 1, 2024 12:25:06

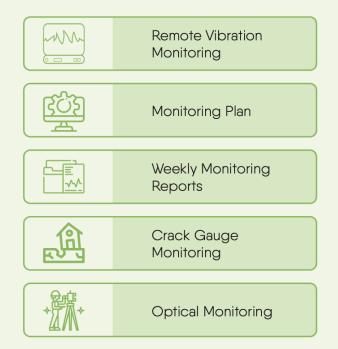
USBM RI8507 And OSMRE

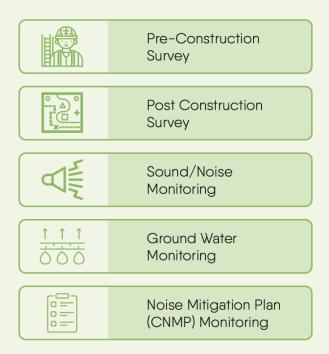
Velocity versus Frequency (Zero Crossing)



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