

Project	Former A&A Brake Service Site	Report No.	102
BCP Site	NYSDEC BCP SITE C224372	Date	1/16/2025
Location	558 Sackett Street	File No.	0206384
Client	Sackett Heights LLC	Temperature	H: 28°F L: 23°F
Contractor	Blue Sky Builders, International	Wind Direction	N to S, up to 4 mph
	Concrete		
Weather	Sunny	Personnel on Site	Eddy Nunez
Humidity	50%	Time on Site	6:30 am to 3:00 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 backfill around the water tank.
- Contractor (International Concrete) continued rebar installation within footing frames.
- Contractor (International Concrete) continued footing preparation along the east boundary of site.
- Chris DiScafani 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.
- Soil disposal is summarized below:

	Facility: Posillico		Facility	: Clean	Facility: Clean		Facility: Clean			
	Materials,		Earth o	Earth of North Earth of North		Earth of New				
	Farmingdale, NY		Jersey, K	Jersey, Kearny, NJ Jersey, Kearny, NJ		earny, NJ	Castle, New		Totals:	
	(Non-Haz Soil)		(Haz	Soil) (Non-Ha		az Soil)	Castle, L	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>	<u>33 Loads</u>	<u>660 CY</u>	<u>1 Load</u>	<u>10 CY</u>	<u>1 Load</u>	<u>20 CY</u>	<u>10 Loads</u>	<u>200 CY</u>	45 Loads	<u>900 CY</u>

*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	<u>420 CY</u>	21 Loads	<u>420 CY</u>	



RICH Material Import:

	Facility: Stavo	la of Tinton Falls,	Facility: Stavo	la of Tinton Falls,		
	NJ; Bound Brook Quarry, NJ		NJ; Bound Brook Quarry, NJ		Totals:	
	(1 ½	in Stone)	(¾ in Stone)			
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>	<u>29 Loads</u>	<u>580 CY</u>

*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 2:45 pm.
- No 15-minute average concentration of volatiles organic compounds (VOCs) or particulate 15minute 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 water tank installation.
- Contractor (Blue Sky) will begin footing installation.
- Contractor (Blue Sky) will prepare foundation elements.



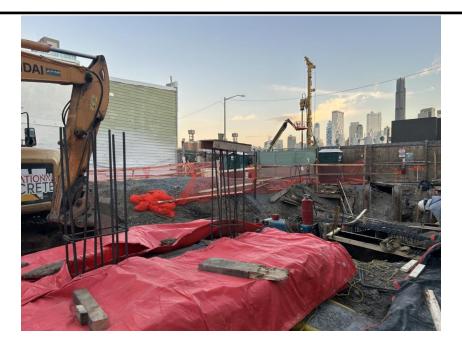
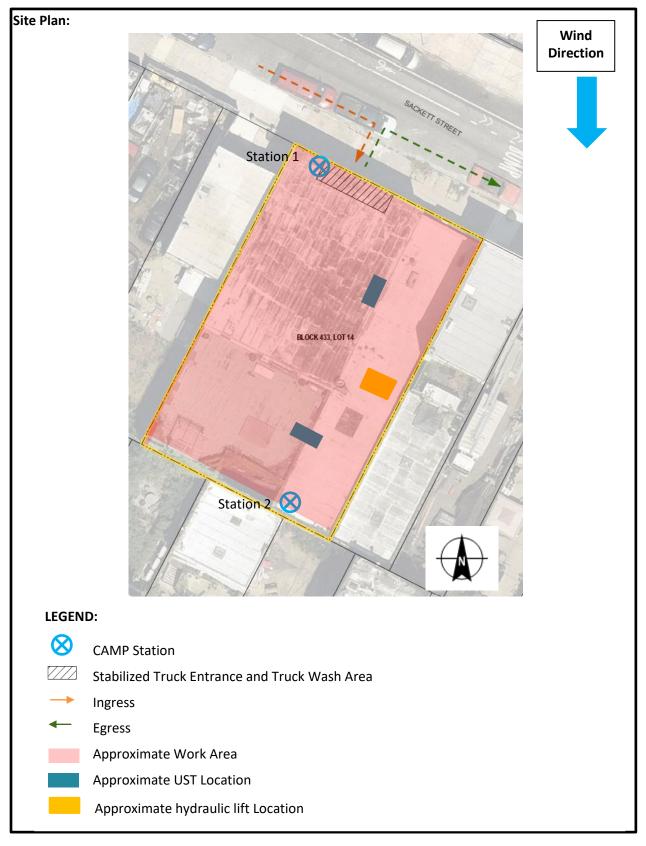


Photo 1: Overview of site conditions, facing Northwest.



Photo 2: View of completed footings, facing south.





558 Sackett Street, Brooklyn NY

Air Monitoring Log

Date : 2025-01-16

 Personnel :
 Eddy Nunez

 Weather :
 Sunny

 Humidity :
 50%

 Wind Direction :
 N to S, up to 4 mph

Particulate Background (ug/m3) : _____18.2____ PID Background (ppm) : ____0

Action Levels : Downwind perimeter of work area above background levels

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
07:15	18.209	18.577	0.0	0.0		
07:30	10.504	14.393	0.0	0.0		
07:45	6.344	13.629	0.0	0.0		
08:00	6.403	18.833	0.0	0.0		
08:15	12.505	12.095	0.0	0.0		
08:30	10.240	12.577	0.0	0.0		
08:45	9.008	12.763	0.0	0.0		
09:00	9.482	14.111	0.0	0.0		
09:15	9.570	12.752	0.0	0.0		
09:30	10.099	12.974	0.0	0.0		
09:45	11.101	15.738	0.0	0.0		
10:00	12.611	12.881	0.0	0.0		
10:15	9.485	11.066	0.0	0.0		
10:30	7.636	10.371	0.0	0.0		
10:45	8.298	11.014	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	11.835	14.004	0.0	0.0		
11:15	9.046	13.527	0.0	0.0		
11:30		12.195		0.0		
11:45		13.172		0.0		
12:00	13.657	11.668	0.0	0.0		
12:15	11.302	11.742	0.0	0.0		
12:30	9.044	9.999	0.0	0.0		
12:45	6.834	9.902	0.0	0.0		
13:00	7.349	7.745	0.0	0.0		
13:15	6.798	8.822	0.0	0.0		
13:30	8.307	10.612	0.0	0.0		
13:45	10.880	42.770	0.0	0.0		
14:00	6.249	16.370	0.0	0.1		
14:15	6.322	14.519	0.0	0.0		
14:30	5.838	11.279	0.0	0.0		
14:45	2.873	7.115	0.0	0.0		



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WEEKLY MONITORING REPORT



Prepared For: Blue Sky Builders

Prepared By: Anslem Valmont – Monitoring Specialist **Weekly Monitoring** 1/16/2025 - 1/16/2025

Project Address:

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

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Department of Buildings Code	5
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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.

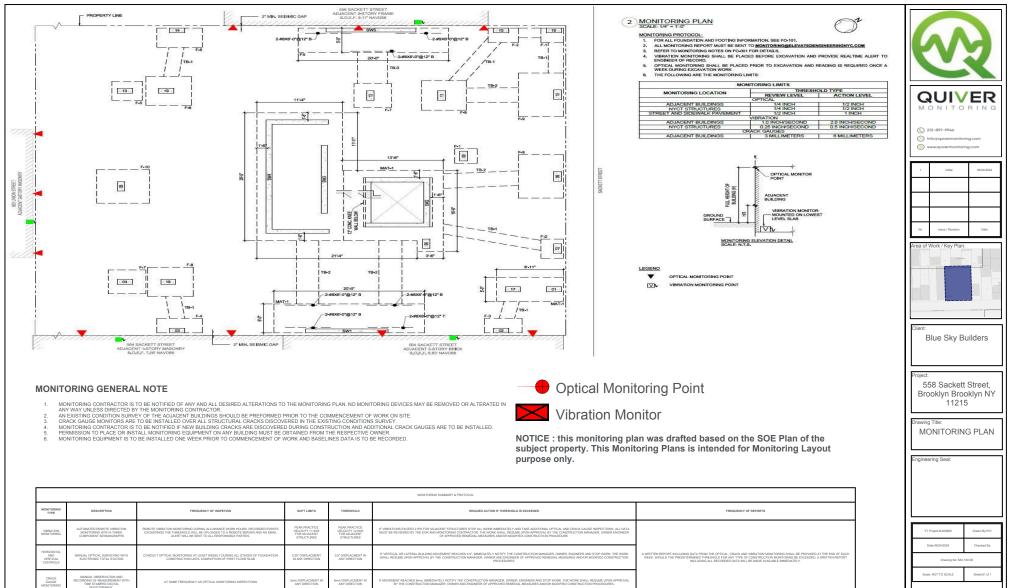
Please feel free to reach out to me with any questions or comments regarding this report.

Respectfully submitted,

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











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.







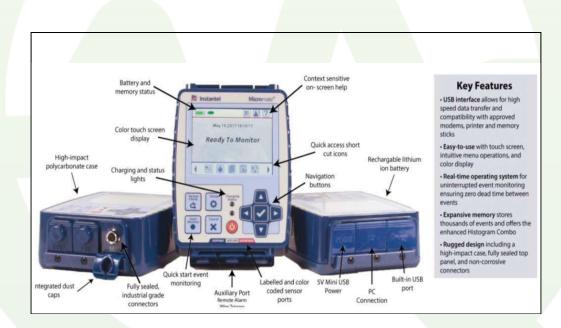




VIBRATION COMPLIANCE

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.
- 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.







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.

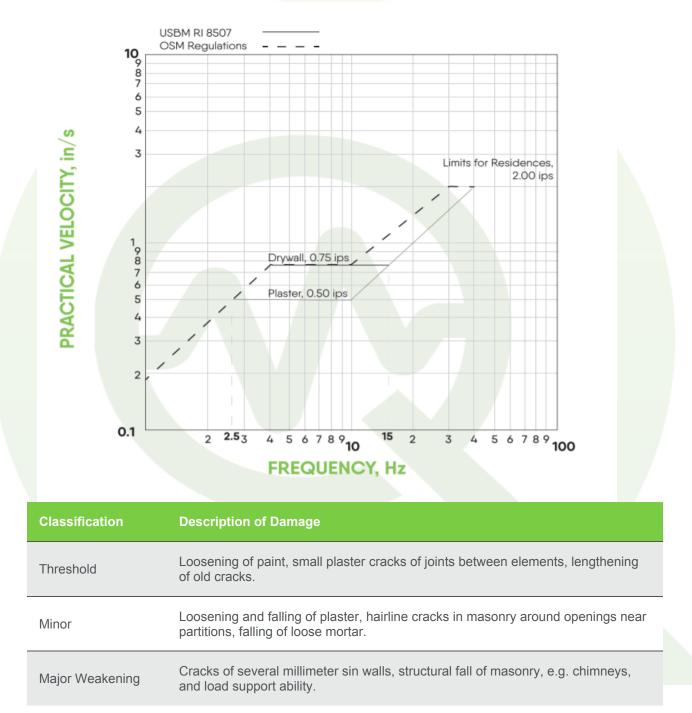
The USBM report of investigation 8507 states that surface structures are most prone to damage as a result of vibration energy within the frequency range of 4-12hz. Within these parameters, a 0.5 inches per second maximum particle velocity is recommended to limit damage to mortar on wood strip inside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







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 UM22524 Exterior, rear 564 Sackett Street



📂 Instantel

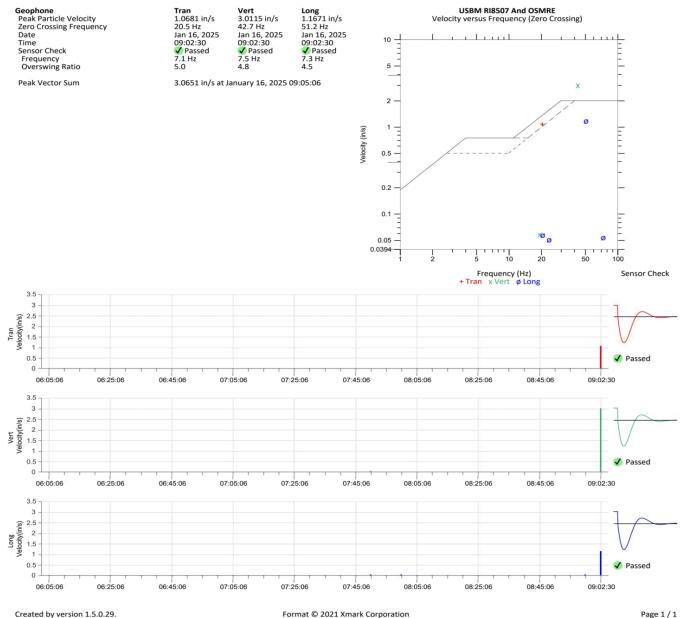
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Notes Location Client Company General Notes January 16, 2025 06:00:06 January 16, 2025 09:02:30 36.48/300 sec 1024 sps 558 Sackett Street S1.mmb Quiver League

564 Sackett St building Bluesky builders **Quiver** League 558 Sackett Street Project 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_20250116060006.IDFH Disabled





Instantel

Start Finish Number of Intervals/Interval Sample Rate Setup File Name Operator

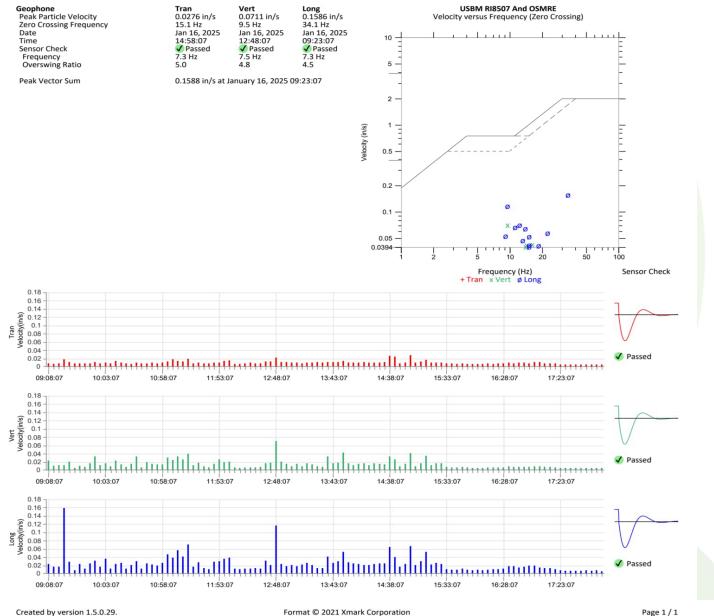
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564 Sackett St building Bluesky builders **Quiver** League 558 Sackett Street Project

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



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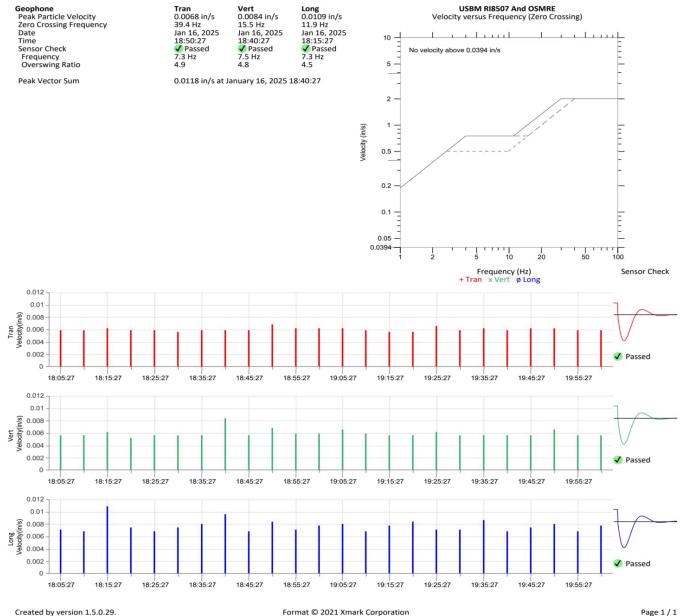
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564 Sackett St building Bluesky builders **Quiver** League 558 Sackett Street Project Serial Number Model Number Battery Level Unit Calibration Event File Name USB Sensor Support



UM22524 Micromate ISEE 11.0AK 3.8 volts December 22, 2023 by Instantel UM22524_20250116180027.IDFH Disabled



Device Number UM17486 Exterior, front 564 Sackett Street



📂 Instantel

Start Finish Number of Intervals/Interval Sample Rate Setup File Name Operator

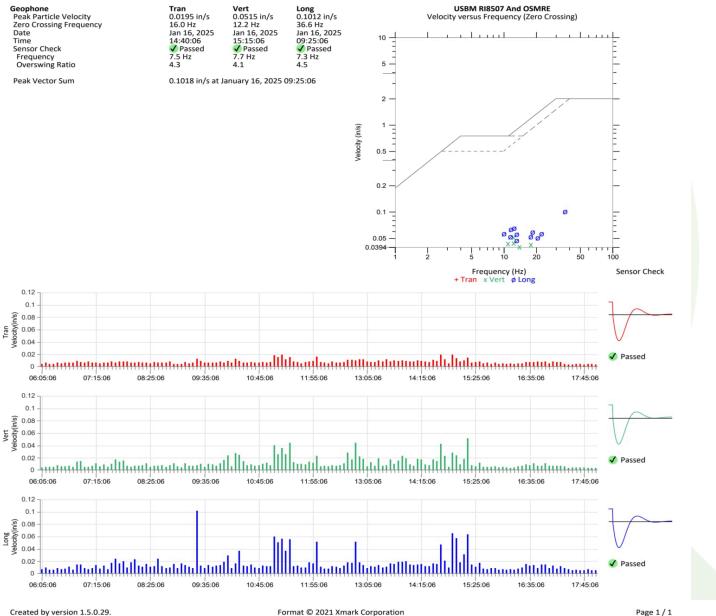
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564 Sackett St building front Bluesky builders **Quiver** League 558 Sackett Street Project

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_20250116060006.IDFH Disabled





Device Number **UM17502** Exterior 563 Union Street



Instantel

Start Finish Number of Intervals/Interval Sample Rate Setup File Name Operator

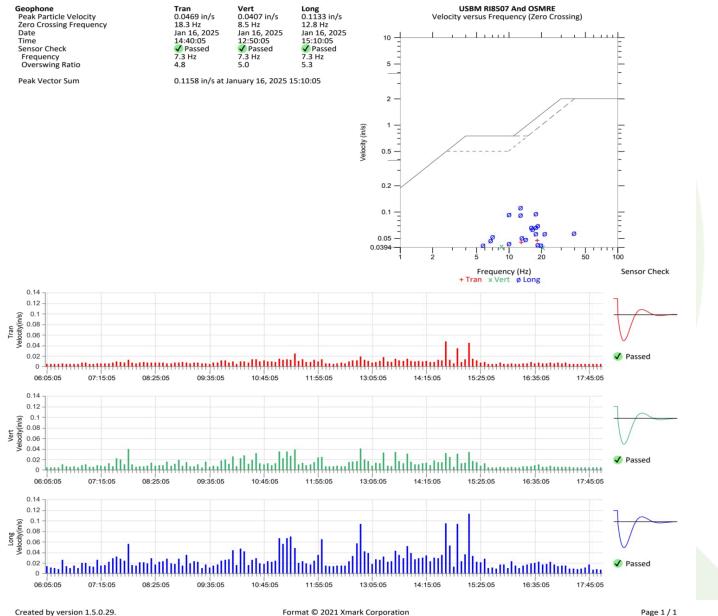
Notes Location Client Company General Notes January 16, 2025 06:00:05 January 16, 2025 17:59:58 143.98/300 sec 1024 sps 558 Sackett Street S2.mmb Quiver League

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

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_20250116060005.IDFH Disabled







Instantel

Start Finish Number of Intervals/Interval Sample Rate Setup File Name Operator

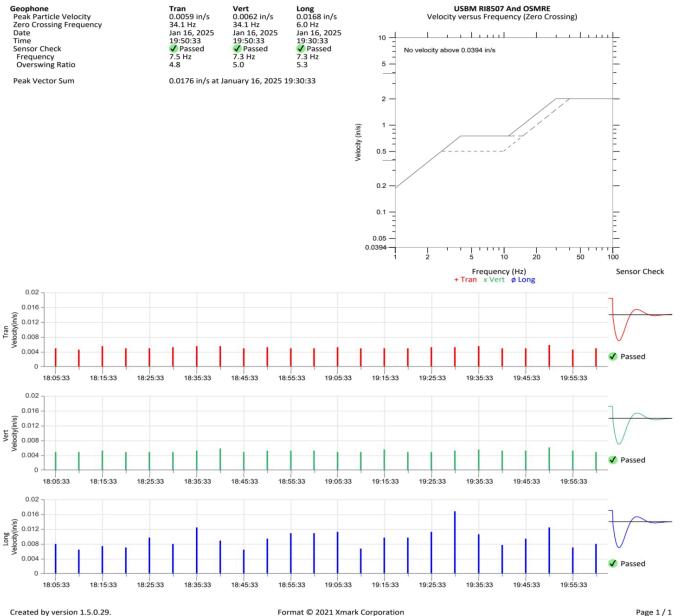
Notes Location Client Company General Notes January 16, 2025 18:00:33 January 16, 2025 19:59:59 23.89/300 sec 1024 sps 558 Sackett Street S2.mmb Quiver League

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

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_20250116180033.IDFH Disabled



OUR SERVICES



	nstrumantation & Monitoring	2	Land Surveying
	Remote Vibration Monitoring		Title Survey
रिटेरे म्	Monitoring Plan		Architectural Survey
	Weekly Monitoring Reports		Stakeout/Benchmark Survey
E	Crack Gauge Monitoring		Subdivision Survey
Ţ.	Optical Monitoring	- テ 不	Axis/Grid Lines Survey
	Pre/Construction Survey Report	\$ -	Final Survey
С.	Sound/Noise Monitroing	L.	Environmental Easement Survey

