AIR, NOISE AND VIBRATION MONTHLY MONITORING REPORT
Number 010

Prepared By:
Gramercy
Group Inc.

DDC. Project ID:	BBJ M DSS	**Period Start:** 5/01/23 **End** 5/31/23
Project Name:	NYC Borough Based Jails System – Manhattan Dismantle and Swing Space	
DDC Pin No.:	8502021CR0004P-06P	

1) Community Air Monitoring Monthly Status Summary

TWA – Time Weighted Average
ug/m^3- micrograms per cubic meter

Number of Workdays in a Month	Number of Air Monitoring Days in a Month	Number of Days with Dust Concentrations above Action Concentrations by Month (100 ug/m^3 15 minute TWA)	Comments
23	31	0	Air monitoring was continued throughout every day of the month even on weekends when no work was being performed. No exceedances were noted.

Community Air Monitoring Excursions and Corrective Actions
Action Concentration =100 ug/m^3 15 minute TWA above background concentration
Stop Work Concentration = 150 ug/m^3 15 minute TWA above background concentration

Date: Time	Maximum Dust Reading Before Corrective Action 15 Minute TWA (ug/m^3)	Maximum Dust Reading After Corrective Action 15 Minute TWA (ug/m^3)	Corrective Action
N/A	N/A	N/A	N/A

Narrative Summary of Air Monitoring, Excursions and Corrective Actions:

In May 2023, construction-related levels of Particulate Matter (PM) PM10 did not surpass Daily Permissible Exposure Limits (PEL) as set by federal standards for the 24-hour Time Weighted Average (TWA), or daily value, and did not cause air quality concerns to the public or on-site workers.

The contractor, Gramercy Group Inc, in conjunction with the contractor's environmental specialist, has successfully implemented mitigation techniques at Action Level as well as Permissible Exposure Limits (15-Minute TWA) to suppress construction activity effects on air quality throughout the project work-zone.

2) Community Noise Monitoring Monthly Summary

Weighted decibels (dBA) level

Number of Workdays in a Month	Number of Noise Monitoring Days in a Month	Number of Days with Noise Levels above Action Levels by Month (dBA)	Comments
23	31	31	Noise monitoring for the month of May had 31 days that had readings greater than the threshold. AQS #998, located within our site positioned on Baxter Street. This monitor was able to determine that the baseline noise for this street is well above the threshold naturally without any construction activity. On the graphs below you will see screen shots of noise levels during the weekends of the month of May are well above the threshold. This is noise exceeding limits at times when there are zero construction activities being performed. It seems that the monitor is placed in a location along Baxter Street where there is an abundance of noise created from community activity as stated with traffic, horns, and sirens. We are still taking every alarm we get from AQS #998 seriously and investigate the cause and make sure it was not due to our construction procedures and operations. Noise monitoring was continued throughout every day of the month including weekends even when not working. No further construction related exceedances were noted.

Community Noise Monitoring Excursions and Corrective Actions

Action Level = 80 dBA
Stop Work Level = 90 dBA

Date: Time	Maximum Noise Reading before Corrective Action (dBA)	Maximum Noise Reading after Corrective Action (dBA)	Corrective Action

5/01/23 @ 5:00 PM (After hours)	101.6 dBA	N/A	No corrective action feasible as this noise is unrelated to construction activity.
5/03/23 @ 5:04 AM (Before hours)	102.1 dBA	N/A	No corrective action feasible as this noise is unrelated to construction activity.
5/05/23 @ 5:12 PM (After hours)	96.6 dBA	N/A	No corrective action feasible as this noise is unrelated to construction activity.
5/06/23 @ 11: AM (Weekend)	98.2 dBA	N/A	No corrective action feasible as this noise is unrelated to construction activity.
5/28/23 @ 7:00 PM (After hours)	105.4 dBA	N/A	No corrective action feasible as this noise is unrelated to construction activity.
5/29/23 @ 8:21 PM (Weekend)	101.2 dBA	N/A	No corrective action feasible as this noise is unrelated to construction activity.

Narrative Summary of Noise Monitoring, Excursions and Corrective Actions:

During the month of May, we experienced noise levels greater than the alert threshold AQS monitor #998 as we did in the month of April. After investigation of the cause of these spikes in noise in this area it was noted that all these alerts were not caused by construction activity. This monitor is located within our site fence on Baxter Street. Unfortunately, this area has a ton of traffic throughout the day including police sirens and horns from cars. It was found that the alerts were from sirens from emergency service vehicles. As stated, every time we get an alert for this monitor, we make sure to go investigate and confirm that the alarm was not set off by any of our ongoing construction activities. You will see examples below of weekend noise exceedances during non-working hours along with noise levels from after working hours during the work week to show that this area is exceeding noise levels while ZERO construction activity is being performed. Above are the most notable exceedances that were immediately investigated and found to be unrelated to our work. All construction-related activities for the month of May stayed below the warning limit of 80 dBA. No corrective actions needed to be taken as the noise levels did not exceed the limit.

3) Community Vibration Monitoring Monthly Summary

Inches per second (in/sec)

Number of Workdays in a Month	Number of Vibration Monitoring Days in a Month	Number of Days with Vibration Levels above Action Levels by Month (in/sec)	Comments
23	31	0	Vibration Monitoring was continued throughout the rest of the month including weekends.

Community Vibration Monitoring Excursions and Corrective Actions Action Level = 0.5 in/sec Stop Work Level = 1.0 in/sec			
Date: Time	Maximum Vibration Level before Corrective Action (in/sec)	Maximum Vibration Level after Corrective Action (in/sec)	Corrective Action
N/A	N/A	N/A	N/A
Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions: *During the Month of May 2023, there were Zero vibration monitor exceedances. All monitors showed results of vibration being under the warning limit of 0.5(in/sec) / stop work limit of 1.0(in/sec), so there was no need for corrective action at this time.*			

ATTACHMENTS:

1 – Include one map of monitoring station/locations

2 – Include Data Plots

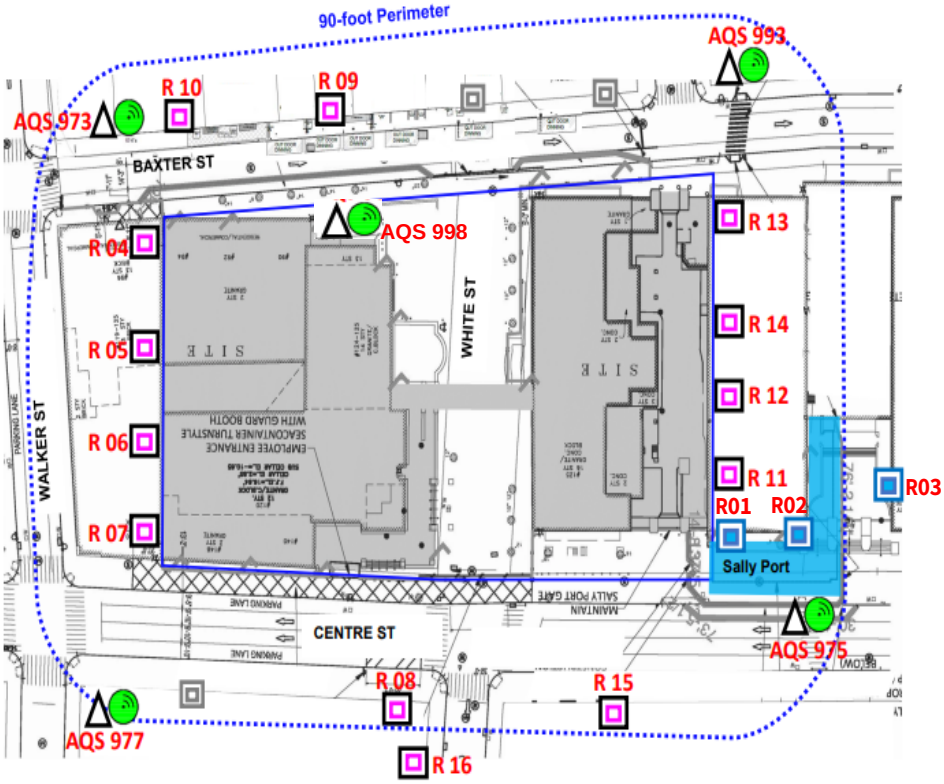
3 – Include Baseline Reference

Map of Monitoring Locations:

Vibration Monitors R01 – R16

Air Quality System (AQS) # 933, 973, 975, 977, & 998.

Environmental Monitoring Manhattan



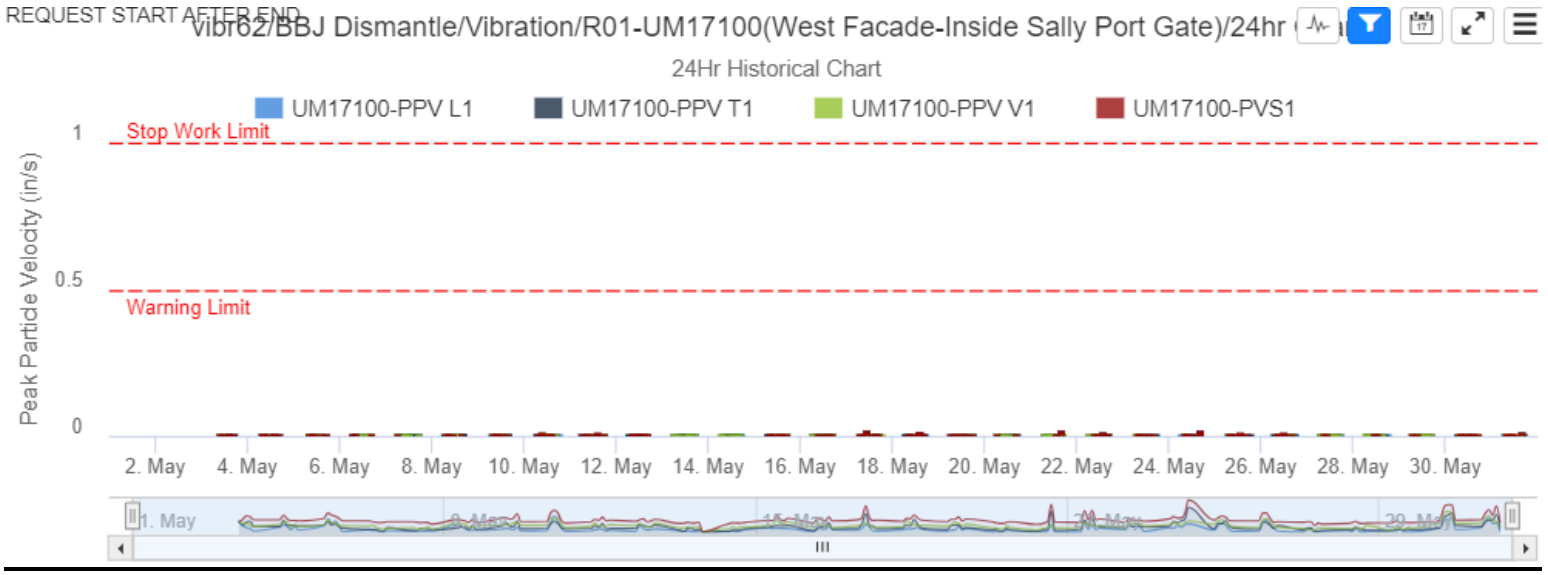
* Dismantle project vibration, air and noise monitoring devices are installed by Design-Build team in Phase 2, after sally port construction. A vibration monitoring station was installed in the DCTV Fire house at 87 Lafayette St.

* The location of monitoring stations presented is referential. Air/Noise Monitoring station located in Sally Port area will be relocated in Phase 2.

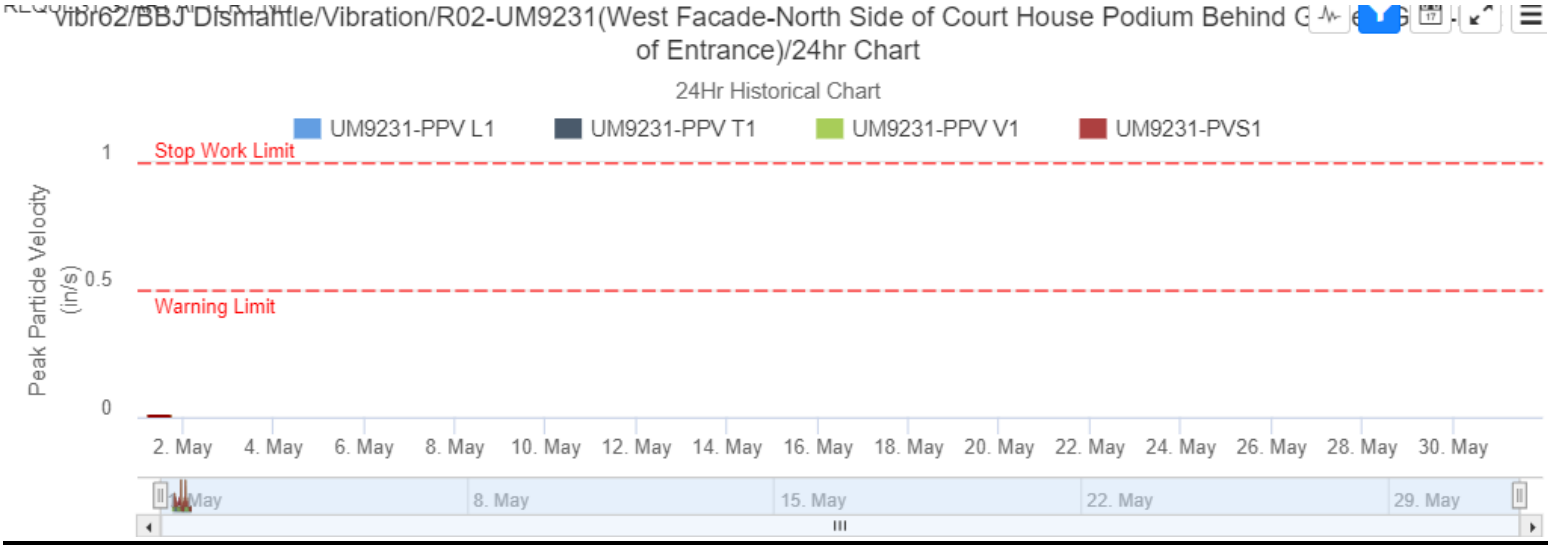
- Vibration Monitoring Dismantle
- Air Monitoring Station Dismantle
- Noise Monitoring Station Dismantle
- **Vibration Monitoring Sallyport construction (Installed)**
- Vibration Monitoring Not installed

1

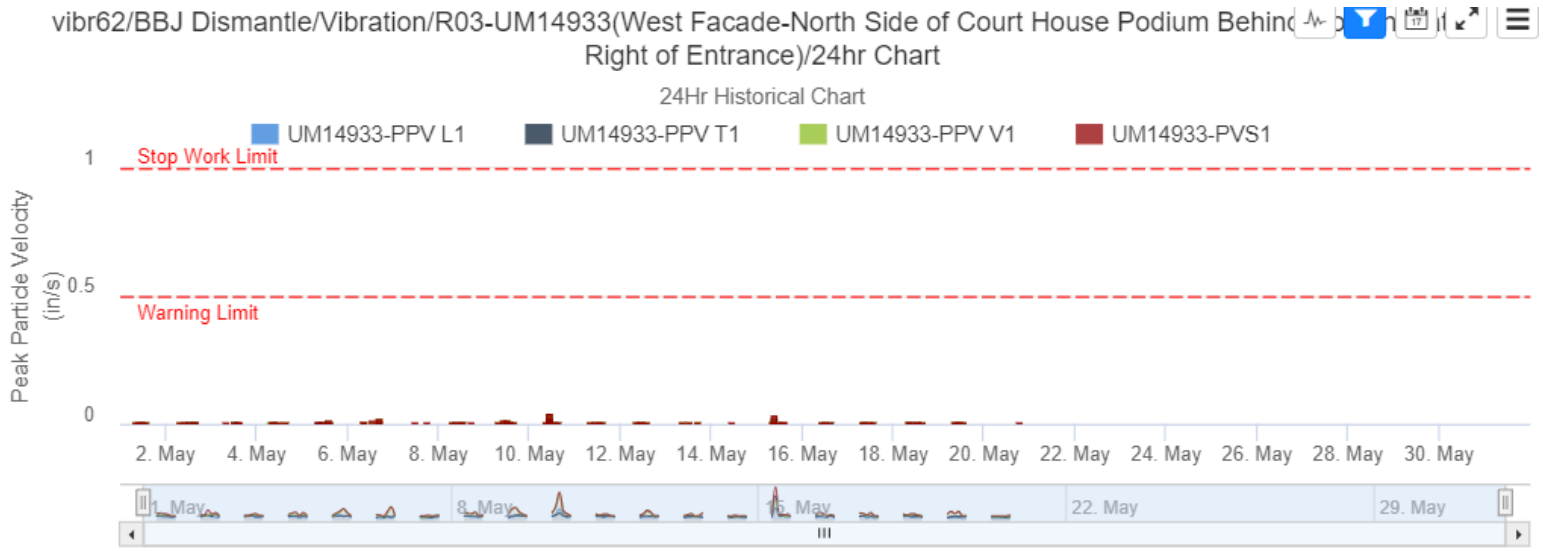
Vibration Monitor – (R01) May 23:



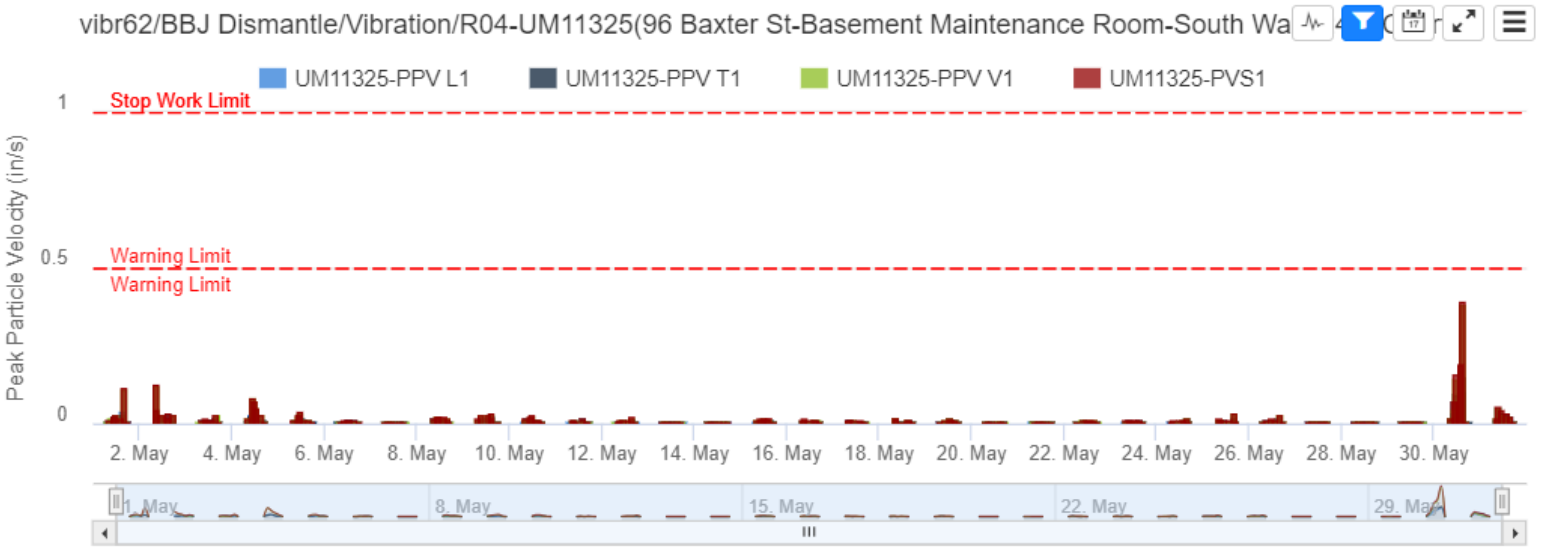
Vibration Monitor – (R02) May 23:



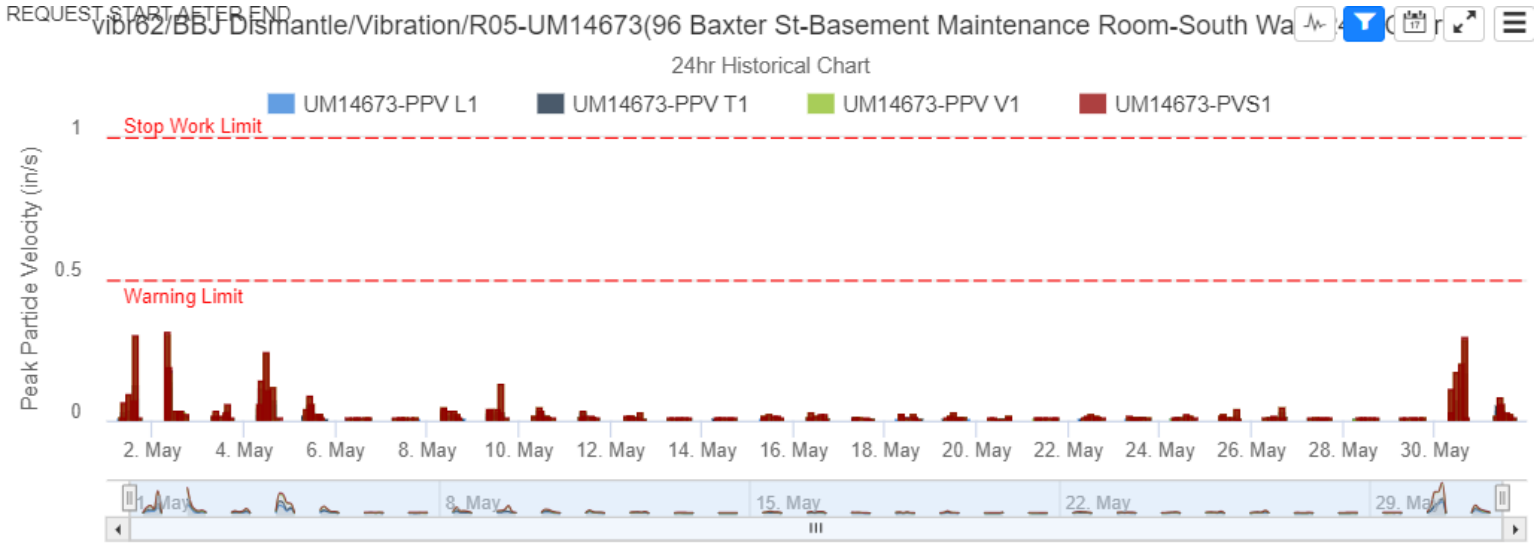
Vibration Monitor – (R03) May 23:



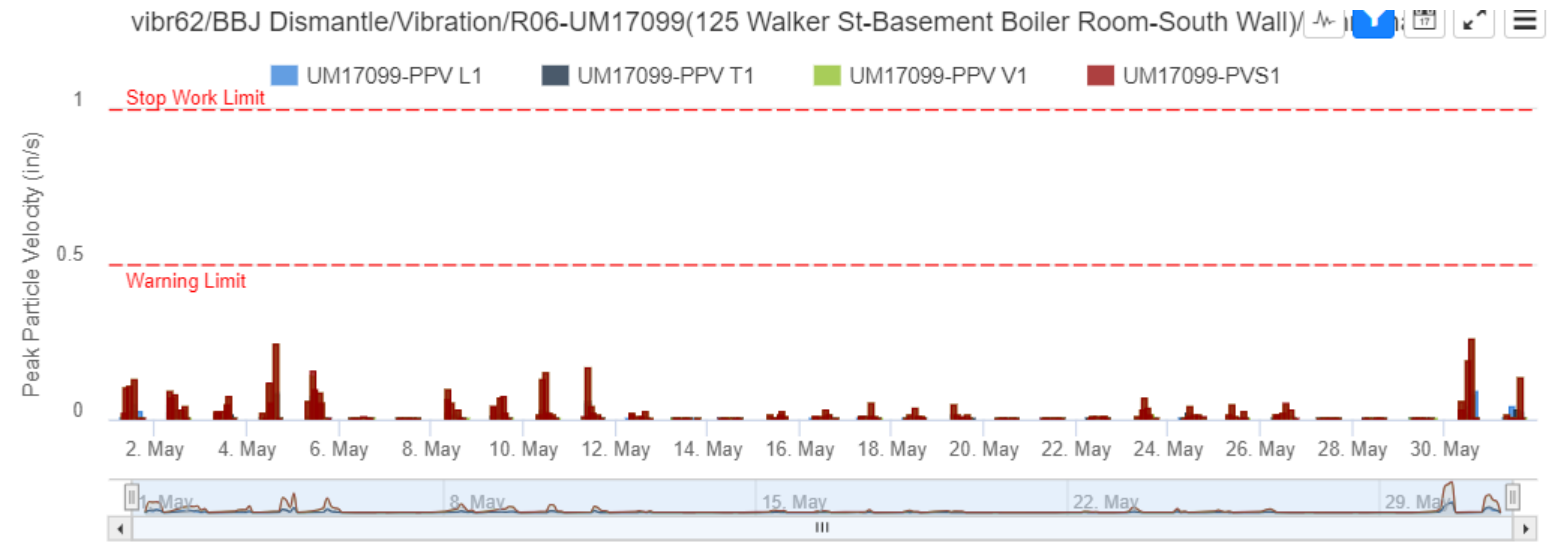
Vibration Monitor – (R04) May 23:



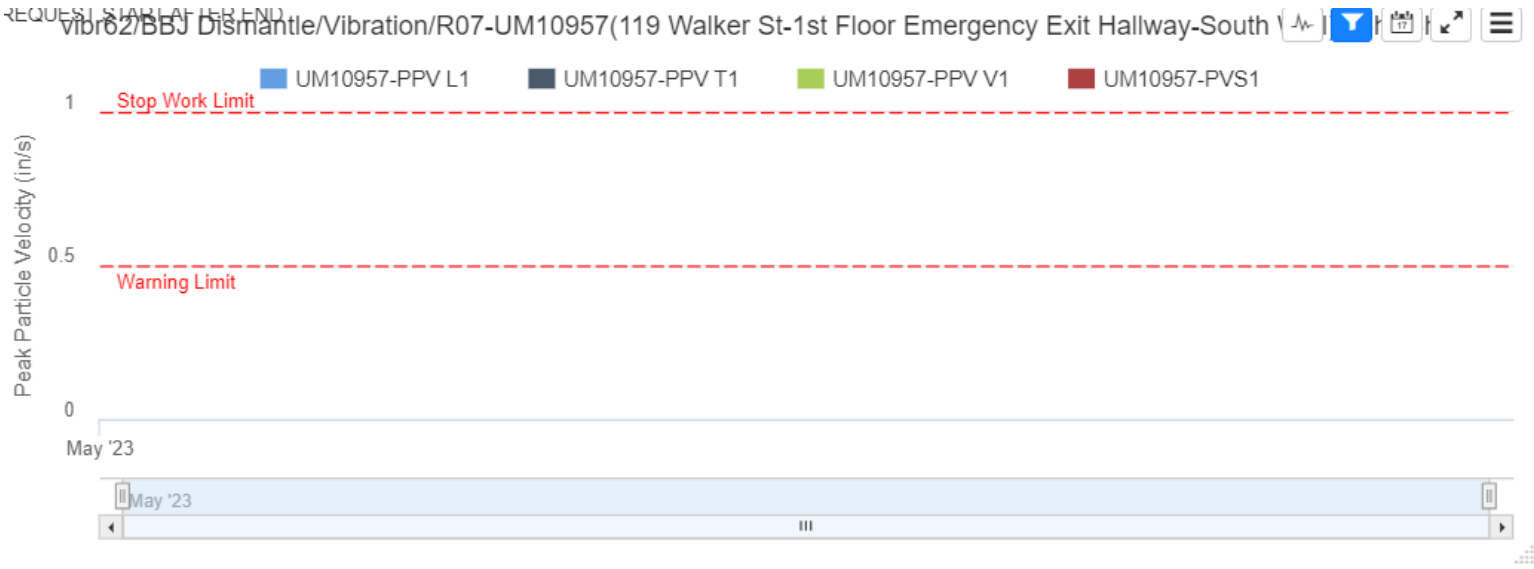
Vibration Monitor – (R05) May 23:



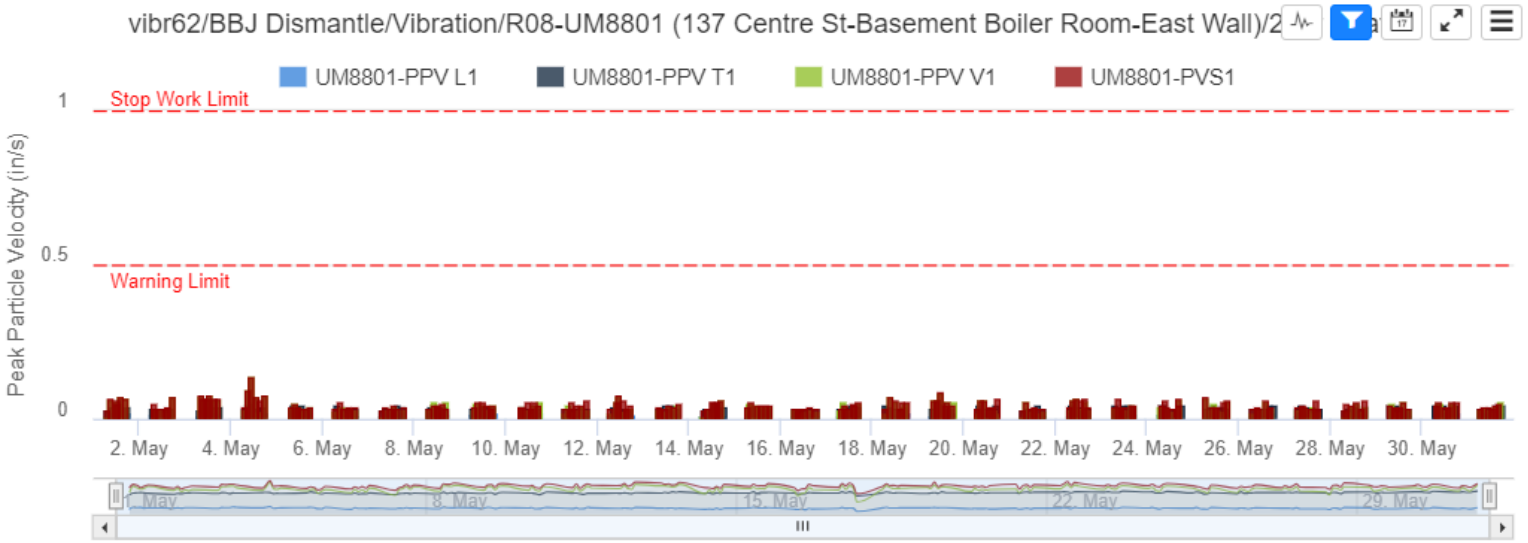
Vibration Monitor – (R06) May 23:



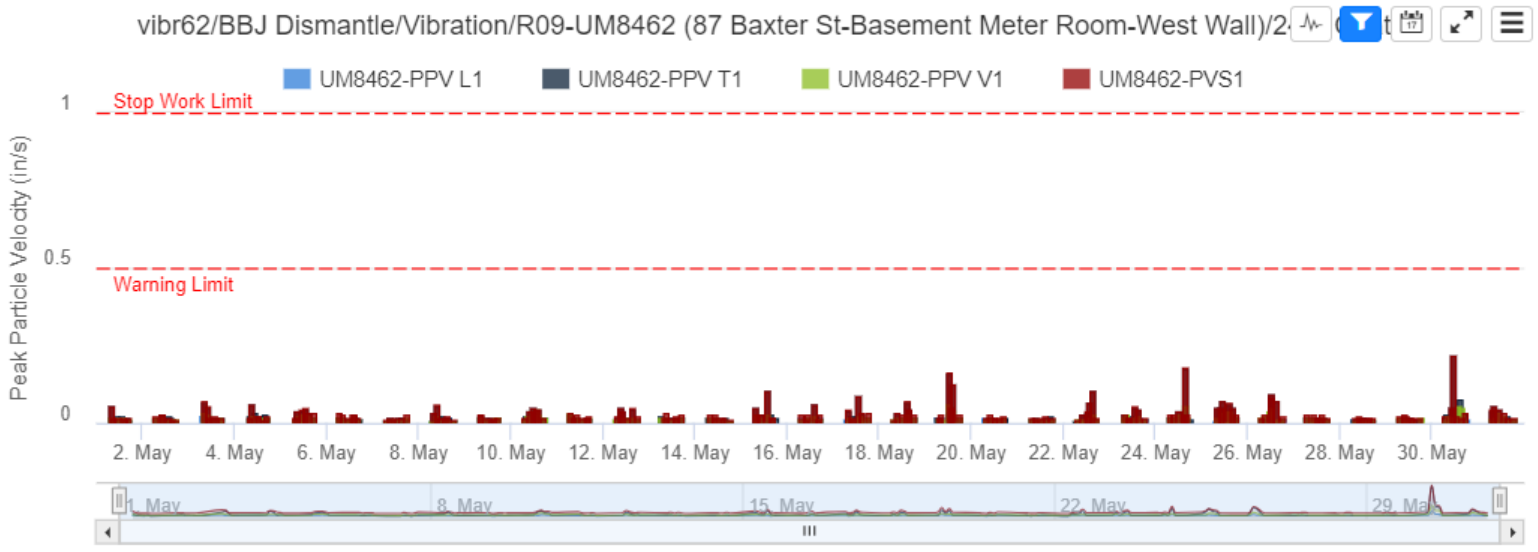
Vibration Monitor – (R07) May 23:



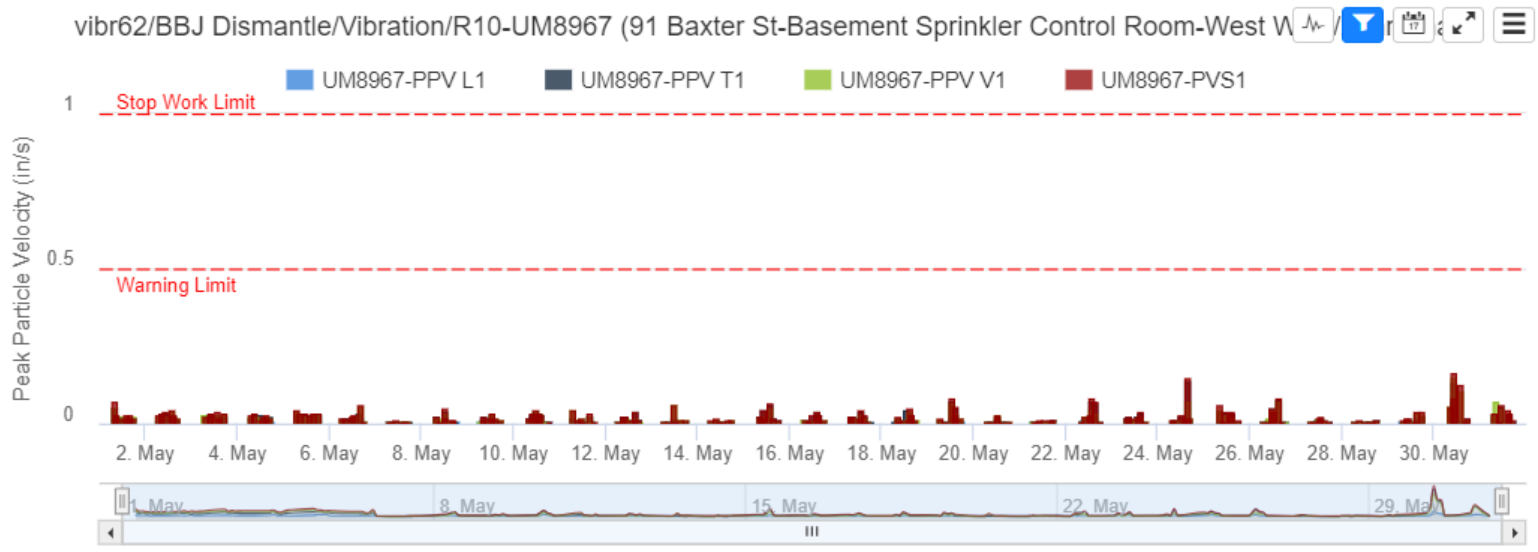
Vibration Monitor – (R08) May 23:



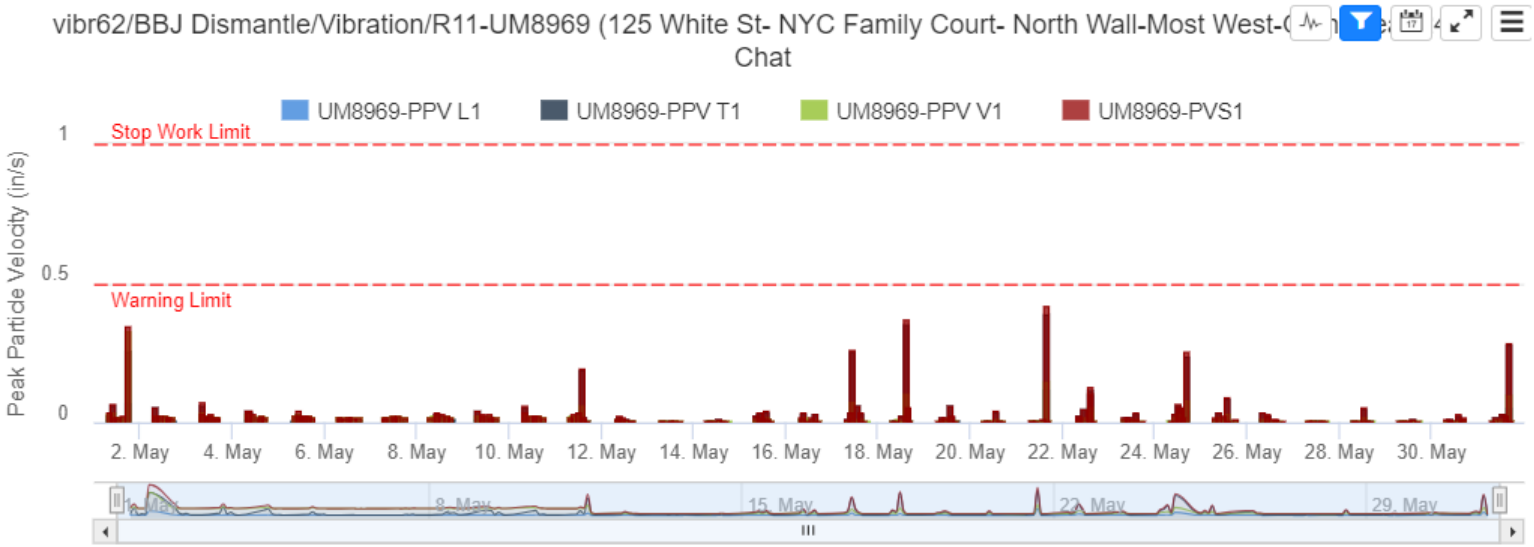
Vibration Monitor – (R09) May 23:



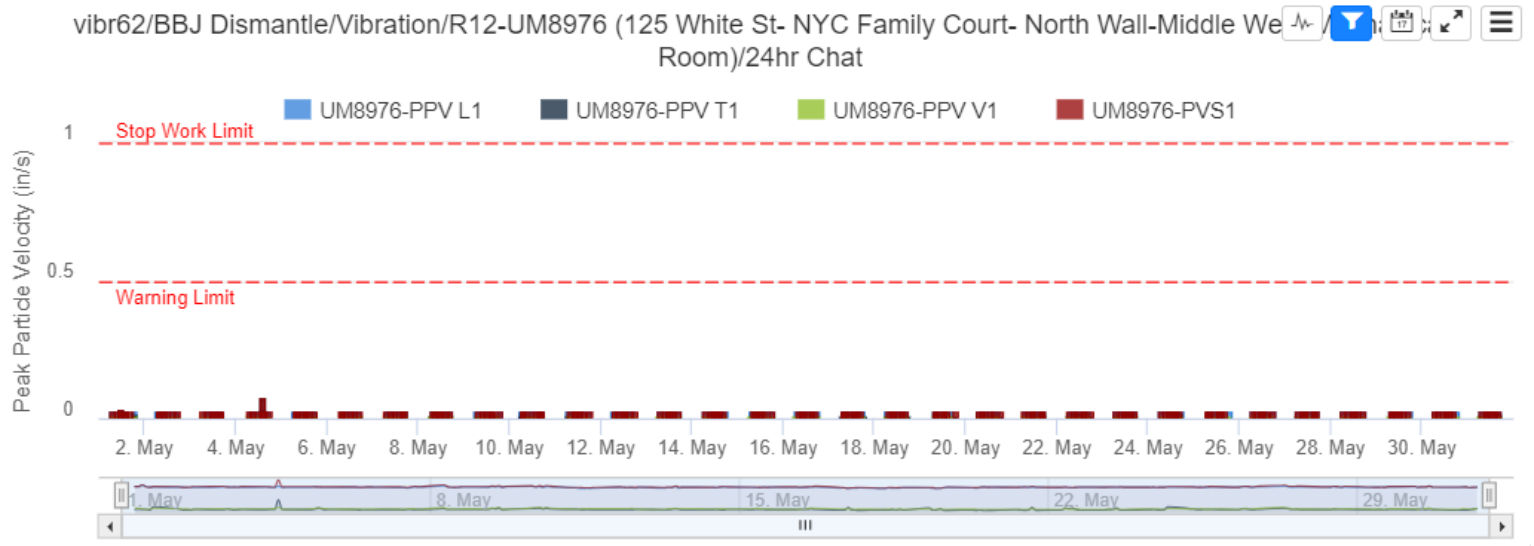
Vibration Monitor – (R10) May 23:



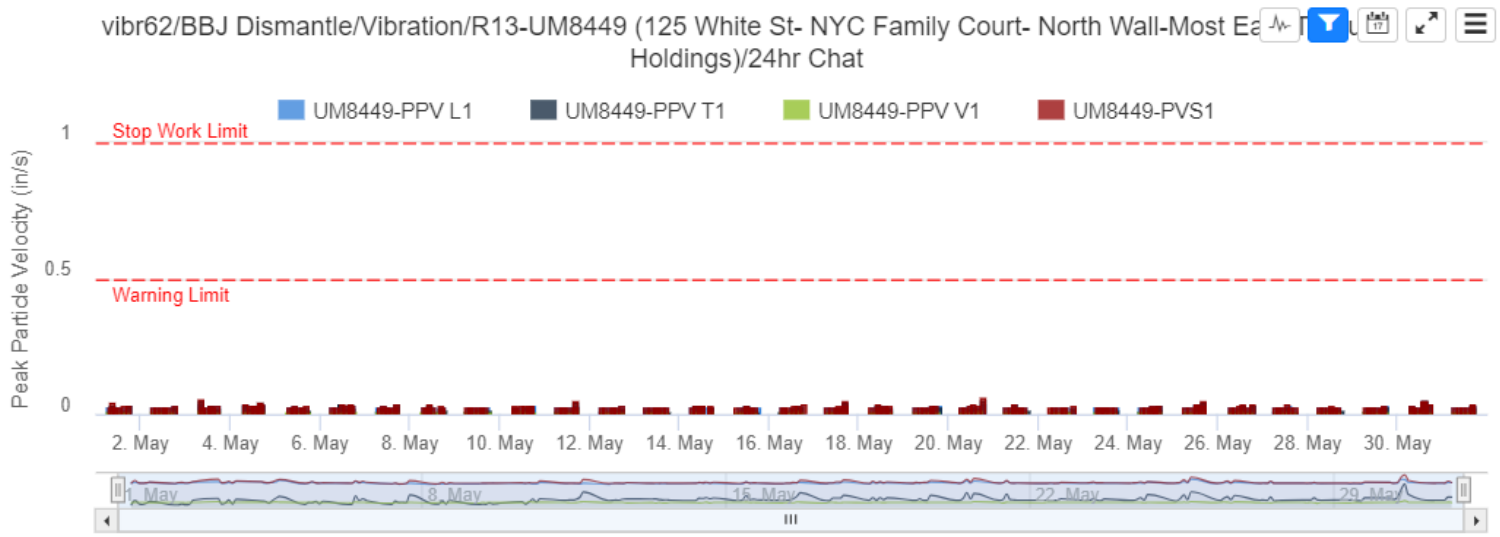
Vibration Monitor – (R11) May 23:



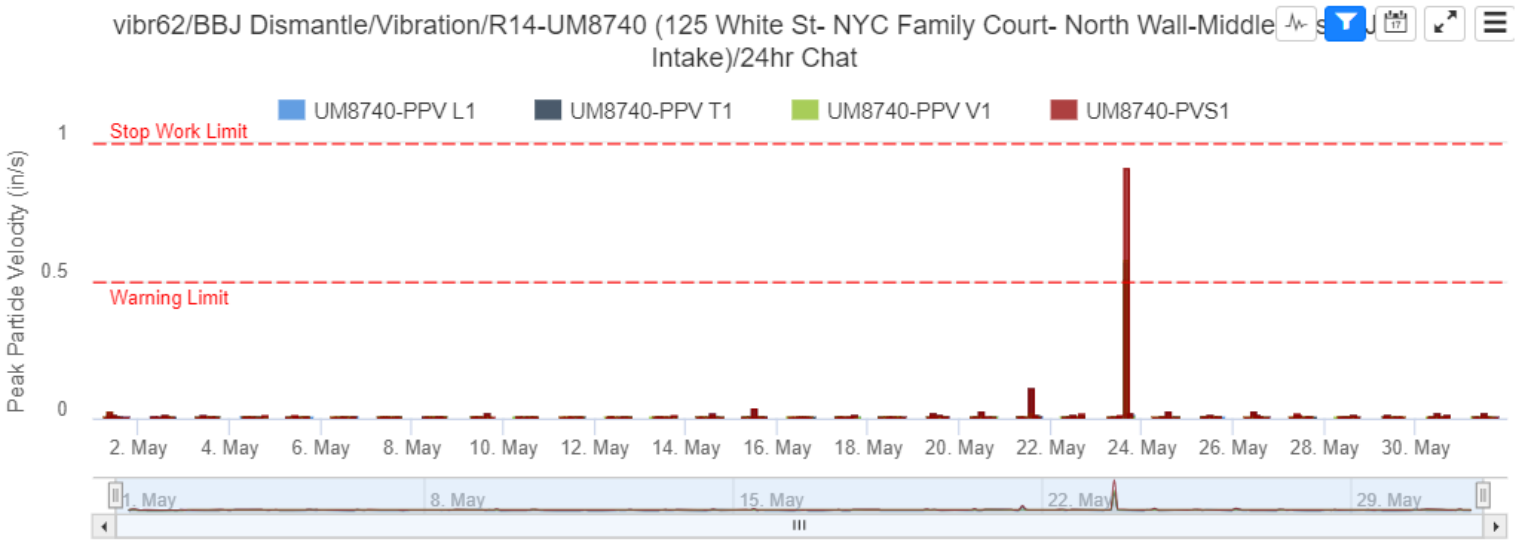
Vibration Monitor – (R12) May 23:



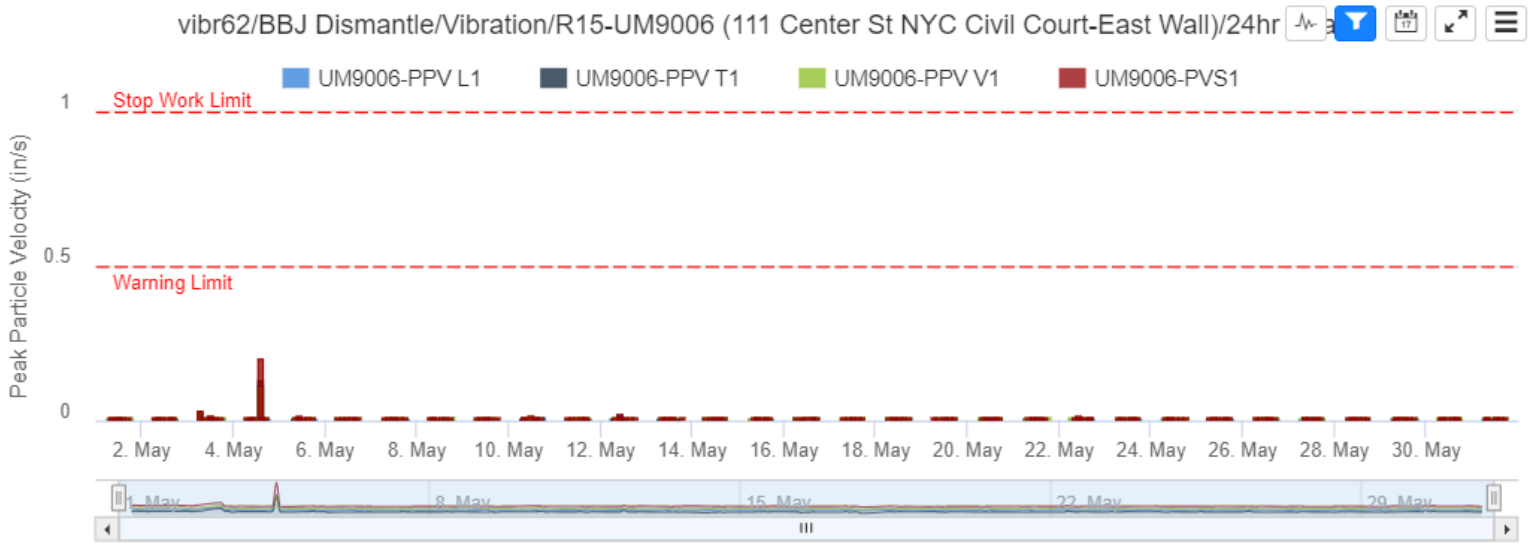
Vibration Monitor – (R13) May 23:



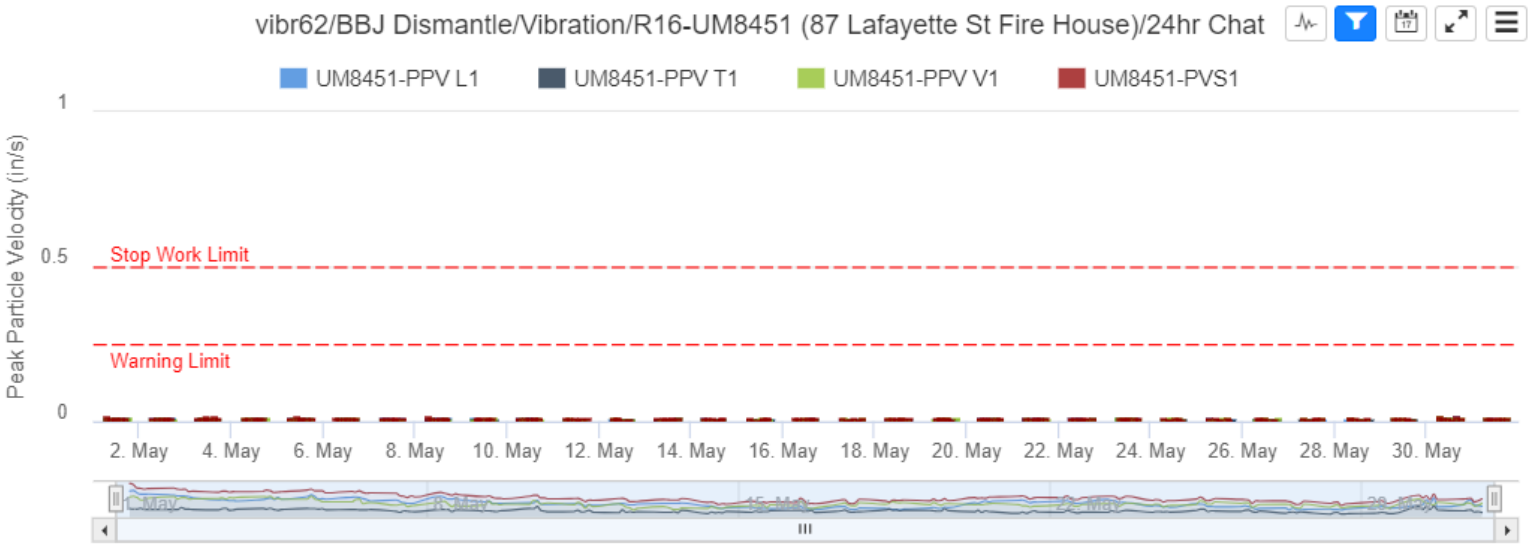
Vibration Monitor – (R14) May 23:



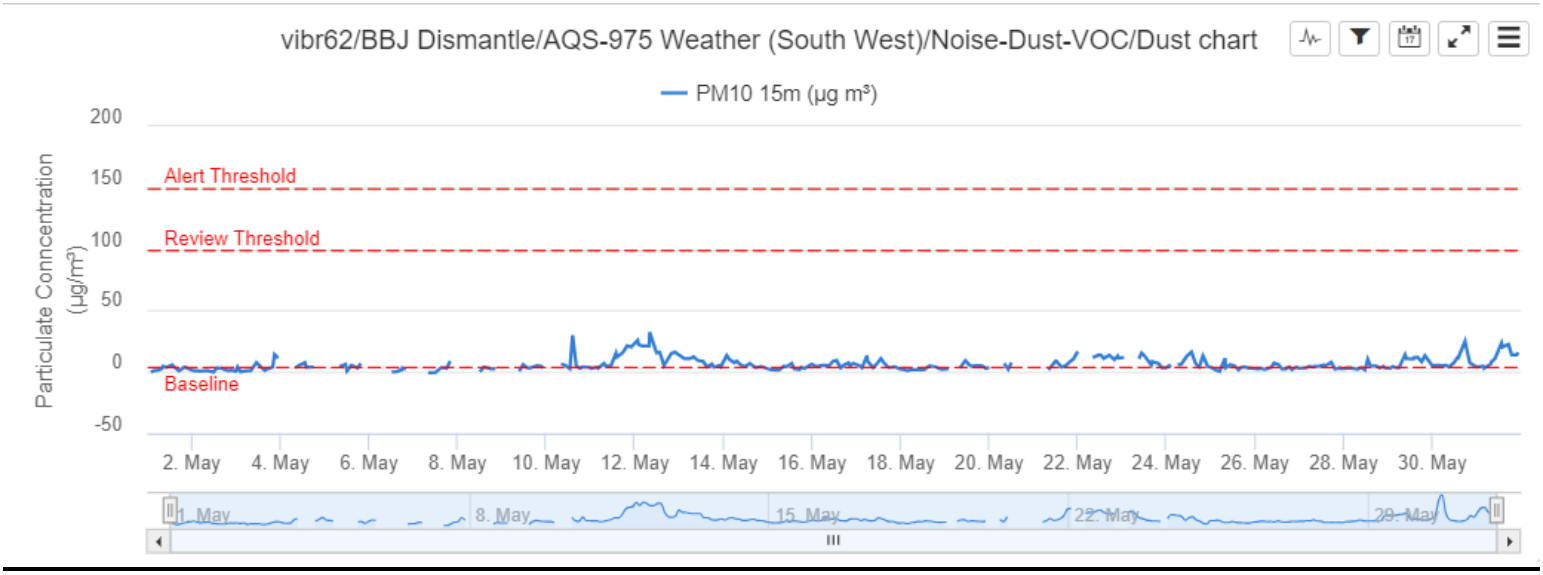
Vibration Monitor – (R15) May 23:



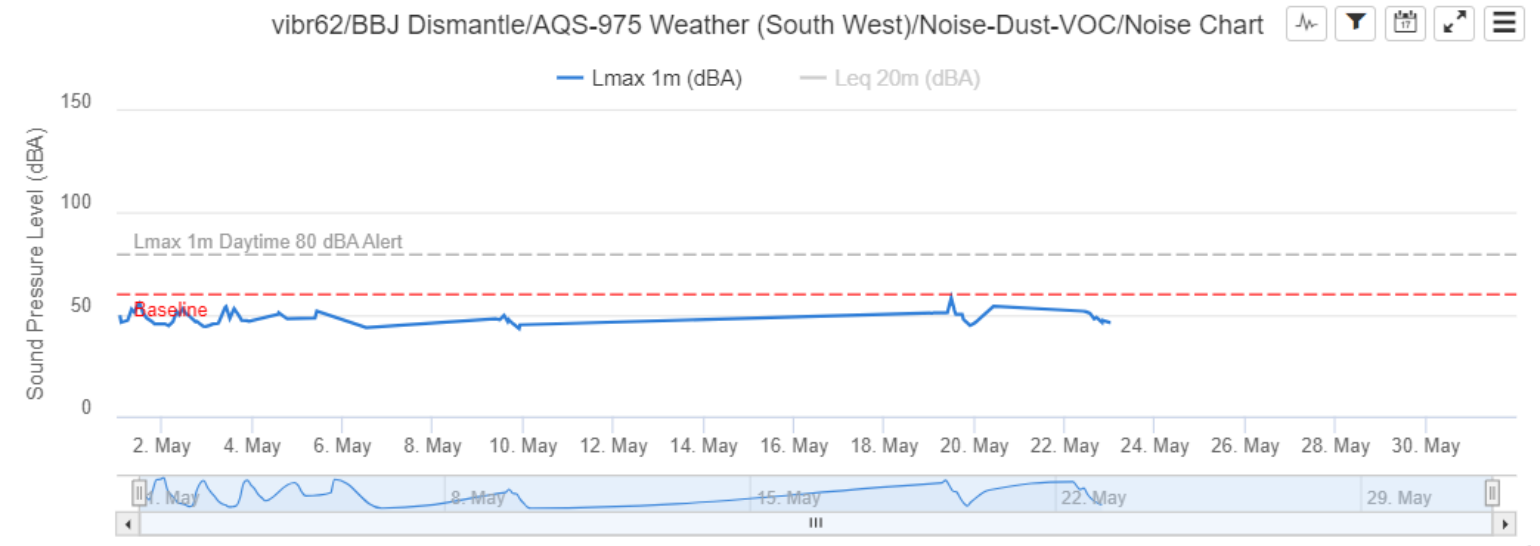
Vibration Monitor – (R16) May 23:



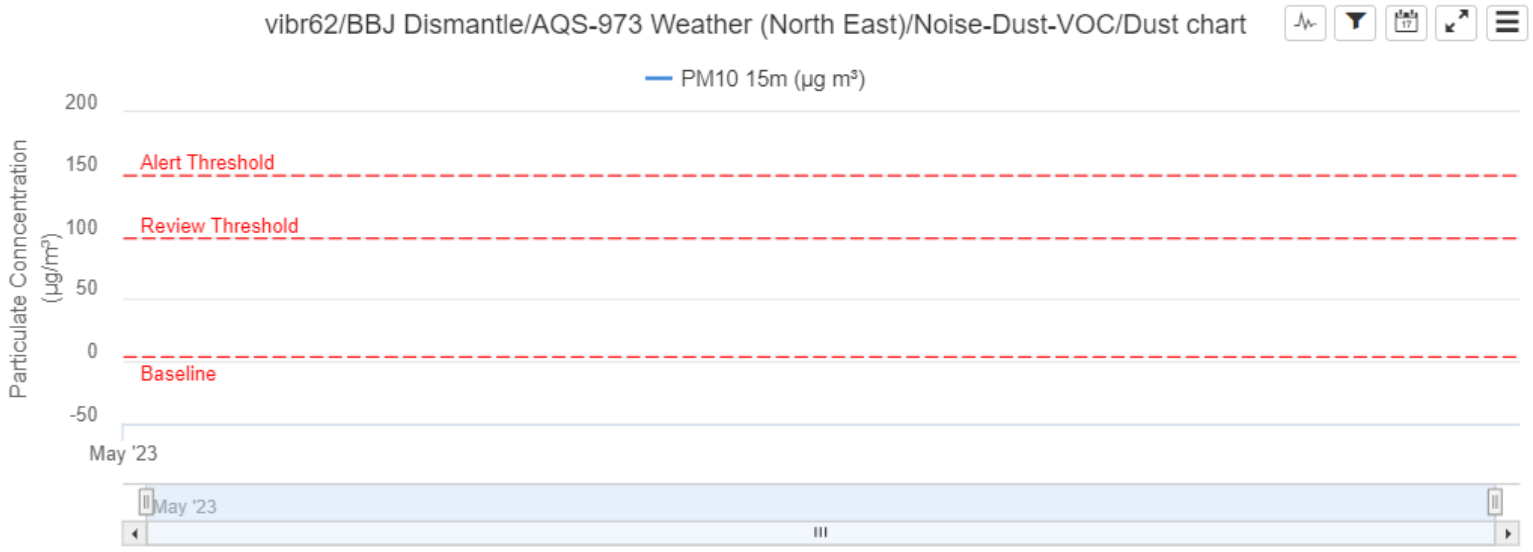
Air Quality Systems #975 – Dust Monitoring Station – May 23:



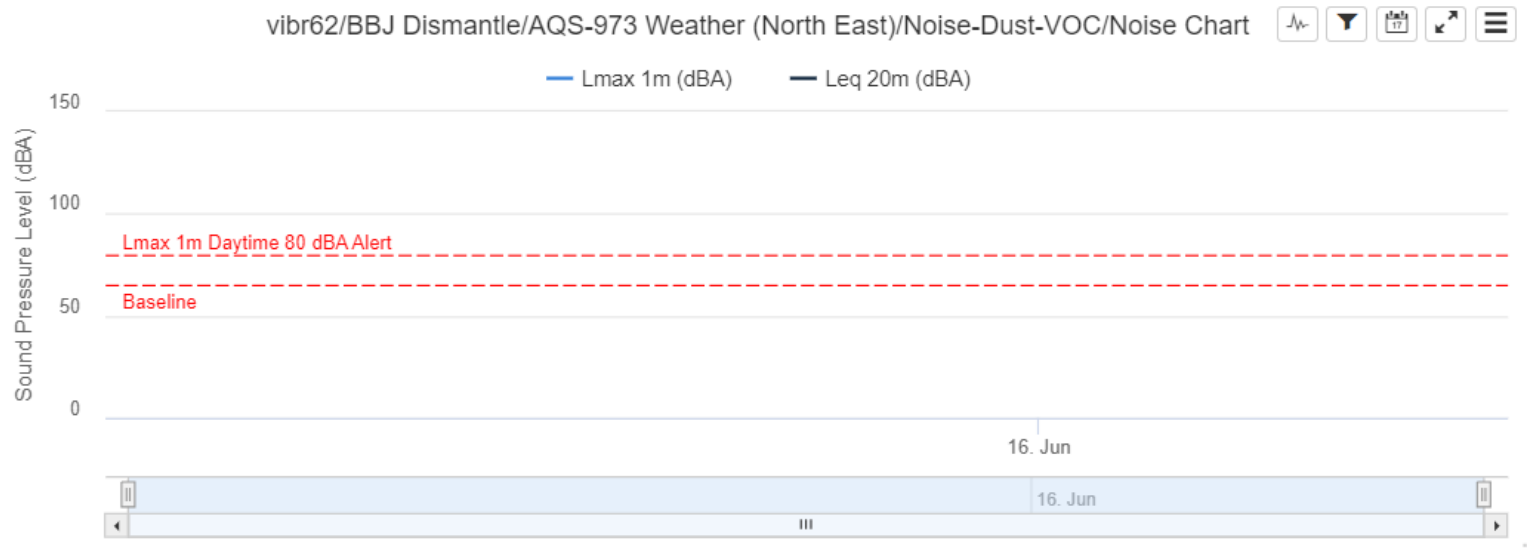
Air Quality Systems #975 – Noise Monitoring Station – May 23:



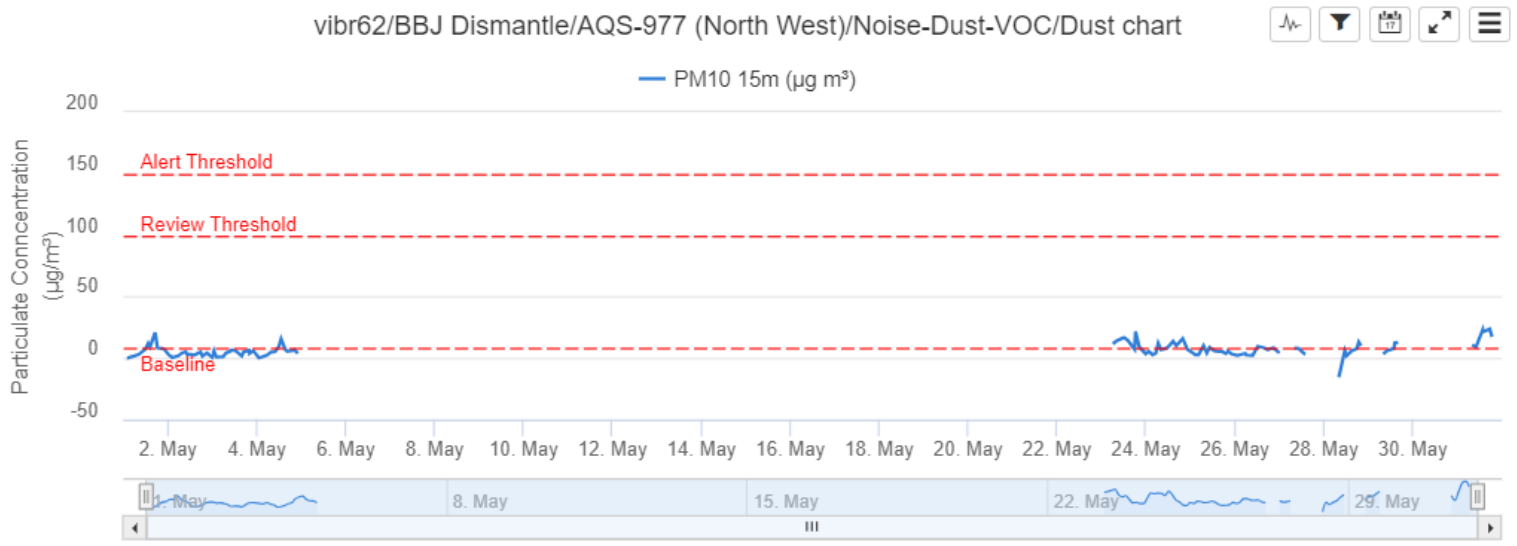
Air Quality Systems #973 – Dust Monitoring Station – May 23:



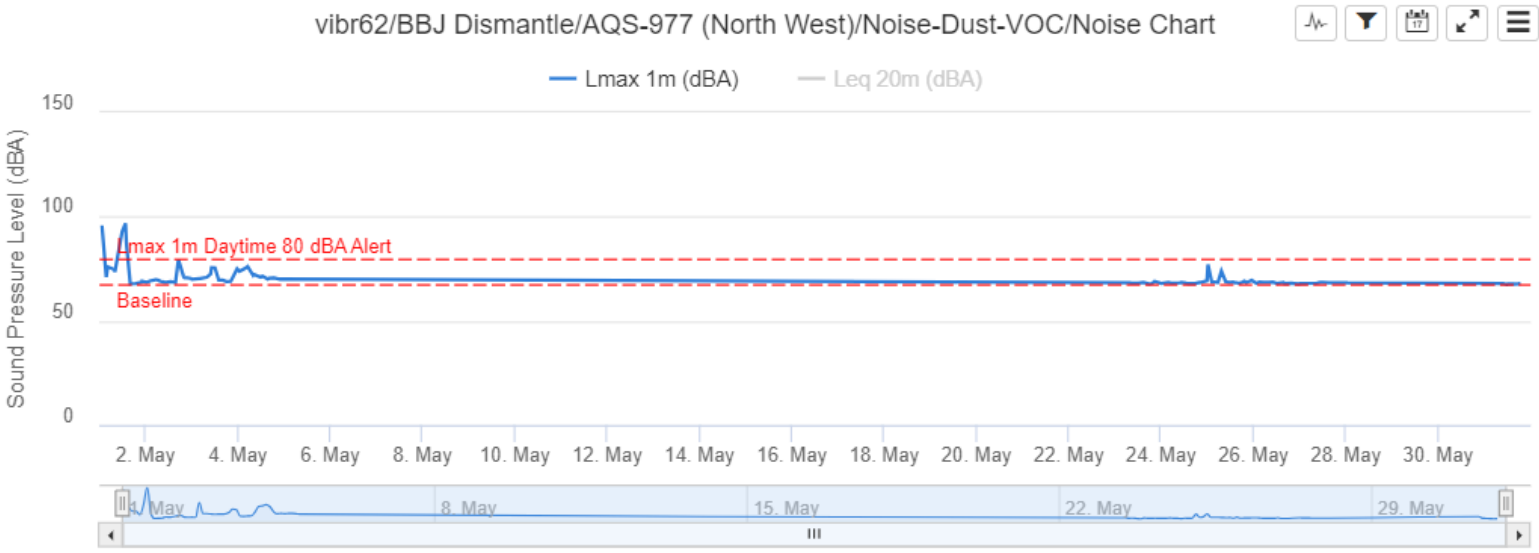
Air Quality Systems #973 – Noise Monitoring Station – May 23:



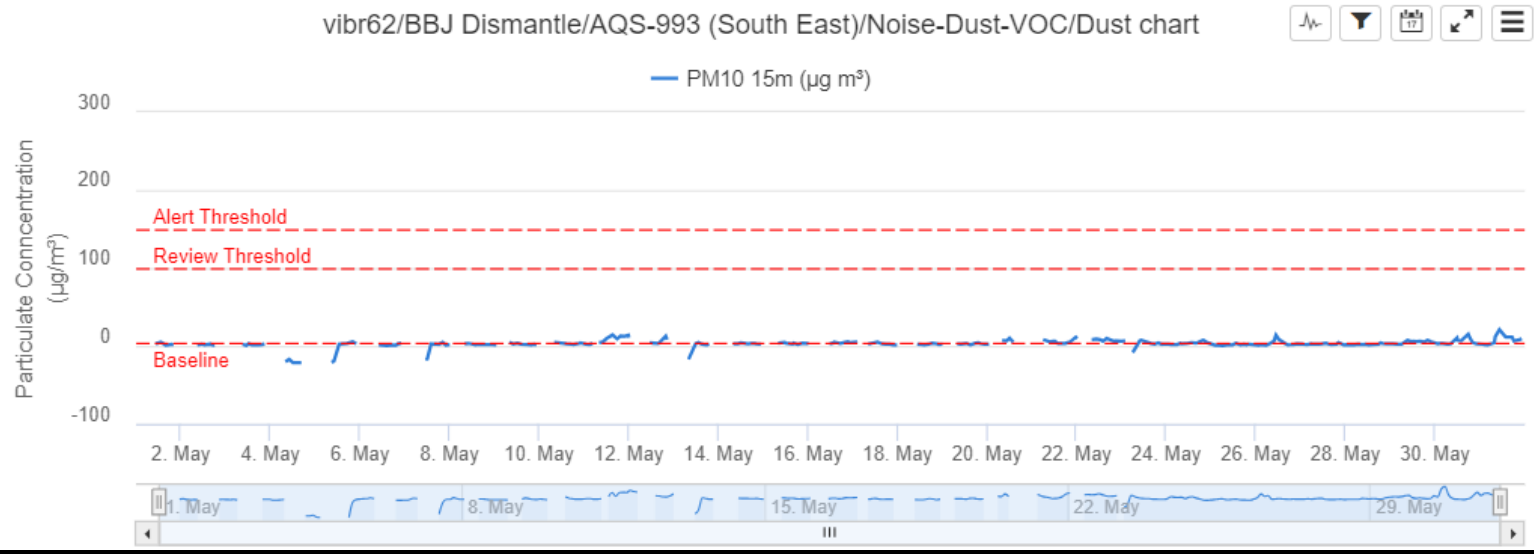
Air Quality Systems #977 – Dust Monitoring Station – May 23:



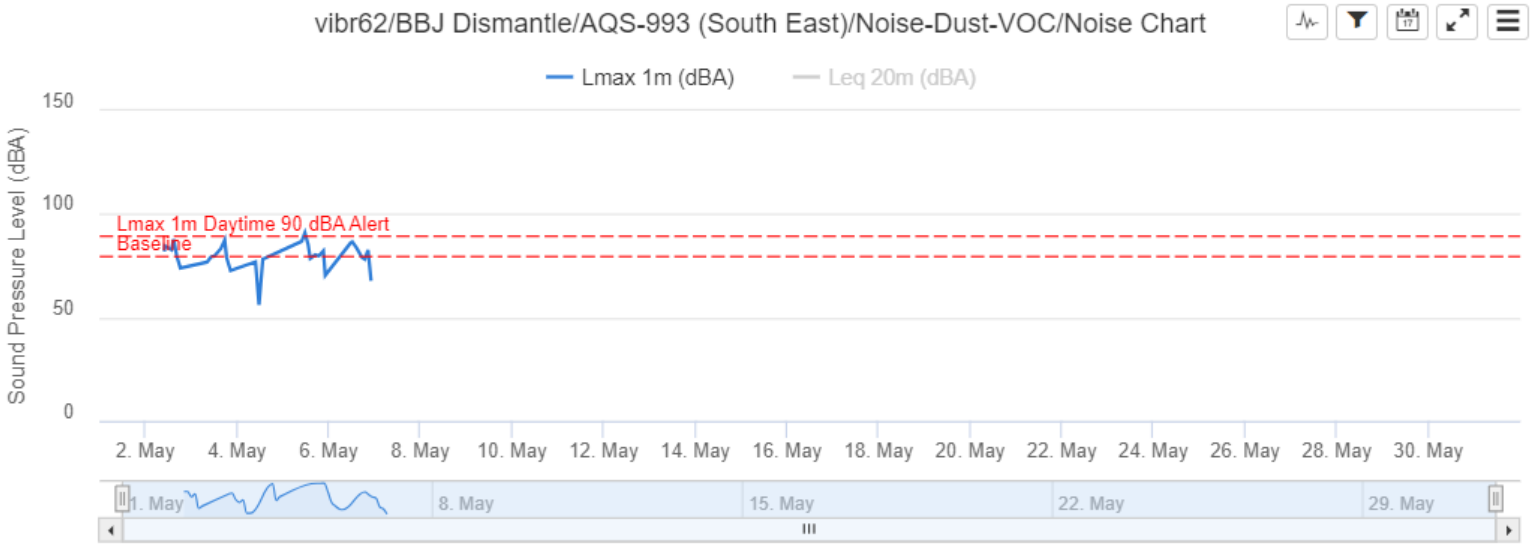
Air Quality Systems #977 – Noise Monitoring Station – May 23:



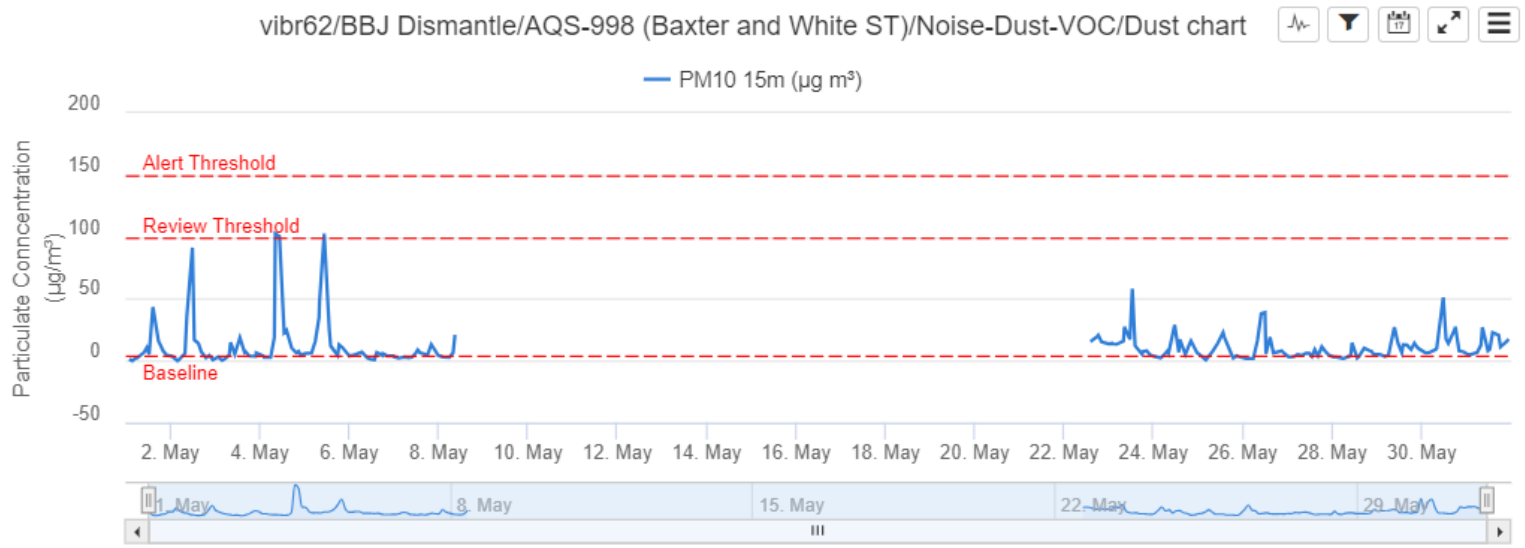
Air Quality Systems #993 – Dust Monitoring Station – May 23:



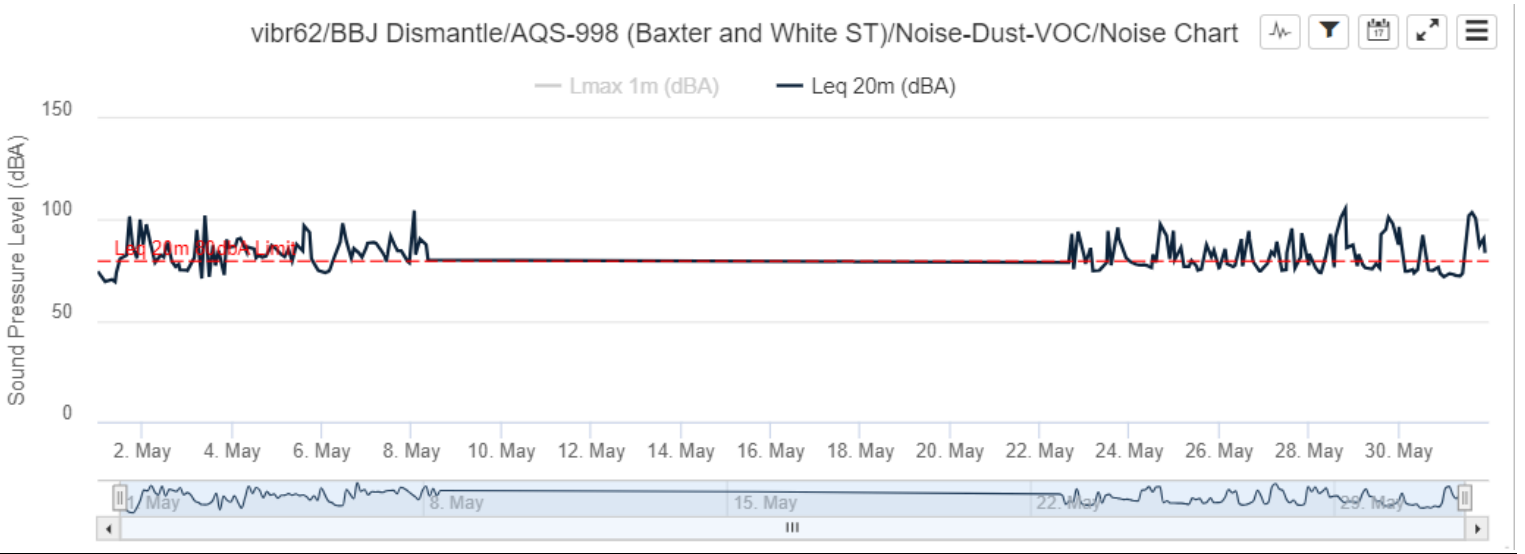
Air Quality Systems #993 – Noise Monitoring Station – May 23:



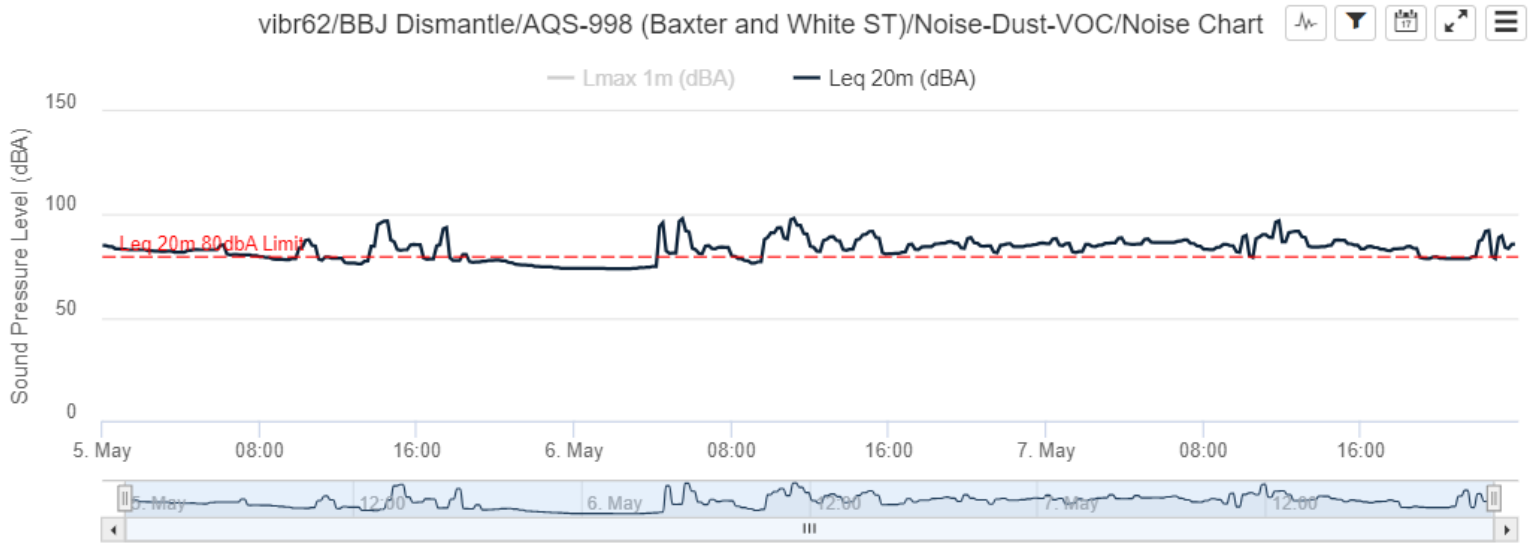
Air Quality Systems #998 – Dust Monitoring Station – May 23:



Air Quality Systems #998 – Noise Monitoring Station – May 23:



Air Quality Systems #998 – Noise Monitoring Station – May 5th – 7th Weekend Noise Levels (NO CONTSRUCTION ACTIVITY:



Air Quality Systems #998 – Noise Monitoring Station – May26th – 28th Weekend Noise Levels (NO CONSTRUCTION ACTIVITY: