



**Narrative Summary of Air Monitoring, Excursions and Corrective Actions:**

*In March 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
24	31	31	Noise monitoring for the month of March 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 at late night hours well above the threshold. This is noise exceeding limits at times when there are zero construction activities being performed. On top of the heavy traffic of pedestrians, and emergency service vehicles with sirens, Con Edison had work being performed right on Baxter Street directly next to our monitor. Trench excavation along with saw cutting pipes next to our monitor was a huge cause of exceedances. This work is not performed by us and therefore we cannot remediate the issue. After the excavation was done, we figured that this noise issue on Baxter would lessen. Unfortunately, this was not the case. The road plates that were installed on top of the trench were not installed in a manner that kept them from rattling around when vehicles drive over it. We continued to get noise exceedances and we had to go out and stand next to the monitor and wait for an alarm to see what the cause was. It turns out that every time a vehicle drives over the loose road plate, our monitor gets set off. We reached out to get this taken care of, but Con Edison has yet to resolve this issue. 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.
<b>Community Noise Monitoring Excursions and Corrective Actions</b>			
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
3/9/23 @ 1:51 PM	134.8 dBA	N/A	Investigation of this exceedance led to us finding the road plate issue. No corrective action feasible as this noise is unrelated to construction activity.
3/10/23 @ 1:45 PM	132.3 dBA	N/A	Investigation of this exceedance confirmed that the road plates are the issue. No corrective action feasible as this noise is unrelated to construction activity.
3/12/23 @ 5:55 PM (after working hours)	131.7 dBA	N/A	No corrective action feasible as this noise is unrelated to construction activity.
3/15/23 @ 4:16 PM (after working hours)	132.1 dBA	N/A	No corrective action feasible as this noise is unrelated to construction activity.
3/19/23 @ 2:57 AM (after working hours)	127.7 dBA	N/A	No corrective action feasible as this noise is unrelated to construction activity.
3/21/23 @ 7:00 PM (after working hours)	123.2 dBA	N/A	No corrective action feasible as this noise is unrelated to construction activity.
3/31/23 @ 5:24 PM (after working hours)	132.6 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 March, we experienced noise levels greater than the alert threshold AQS monitor #998. After investigation of the cause of these spikes in noise for this area it was noted that all of these alerts were not caused by construction activity. This monitor is located directly next to ongoing Con Edison work 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, the trench excavation and road plate installation by Con Edison. Because of how often the community activity along with the Con Edison work was setting off this monitor we made sure to watch this extra carefully to ensure that we were not the cause of these exceedances. As stated, every time we got an alert for this monitor, we made 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 specific times of day and night with exceedances during non-working hours to show that this area is exceeding noise levels whilst 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 March 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
24	31	1	Throughout the month of March there was 1 day where a vibration monitor was triggered. The monitor that had readings greater than the threshold limit was monitor R14. This is the same monitor that goes off once a month due to NYPD in the intake area either bumping into it or moving items around / near the monitor. No construction activity caused the spike in vibration. This was due to personnel setting off that work in this area. Vibration monitoring was continued throughout every day of the week even on weekends when no work was being performed. No further exceedances were noted.

**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
3/01/23 @ 10:44 AM	1.368 (in/sec)	0.003 (in/sec)	Reminded NYPD of the location of the monitor and asked to be diligent and aware of trying to not set it off when walking past it. Monitor was not set off for the rest of the month.
<p><i>Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions:</i></p> <p><i>During the Month of March 2023, there was 1 vibration warning/exceedances (Monitor R14). As stated in the monthly summary, this was a false alarm and NYPD officers were kindly reminded to be aware of the monitor near their work area. Vibration monitor R14 was not set off for the rest of the month. All other monitors showed results of vibration being under the warning limit of 0.5 (in/sec), so there was no need for corrective action at this time.</i></p>			

**ATTACHMENTS:**

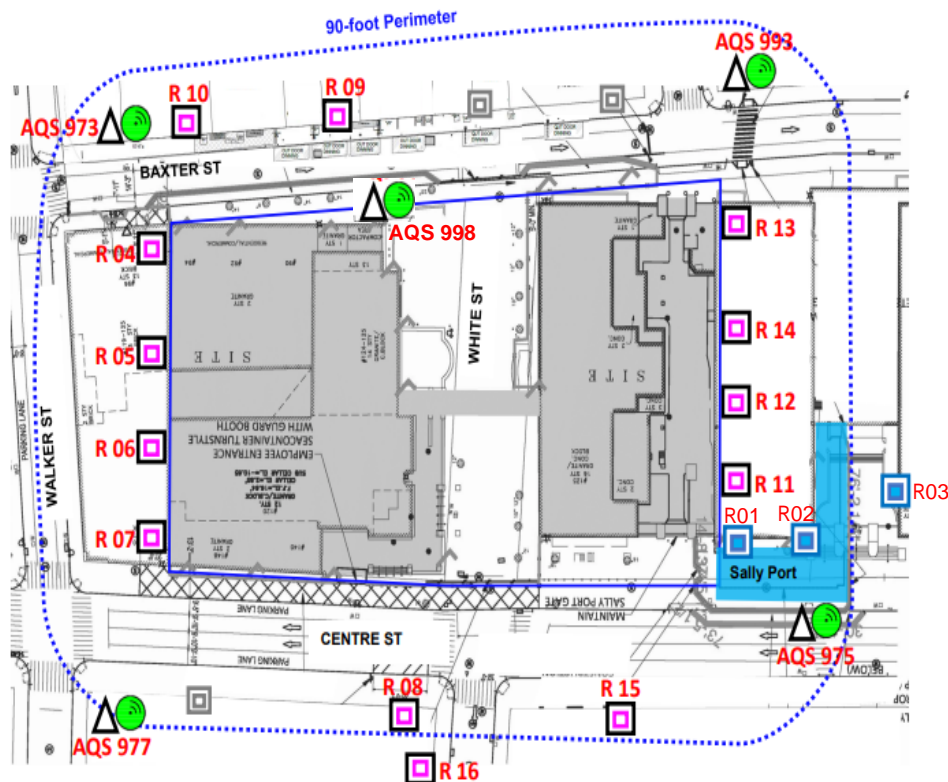
- 1 – Include one map of monitoring station/locations
- 2 – Include Data Plots
- 3 – Include Baseline Reference

## Map of Monitoring Locations:

Vibration Monitors R01 – R16

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

# Environmental Monitoring Manhattan

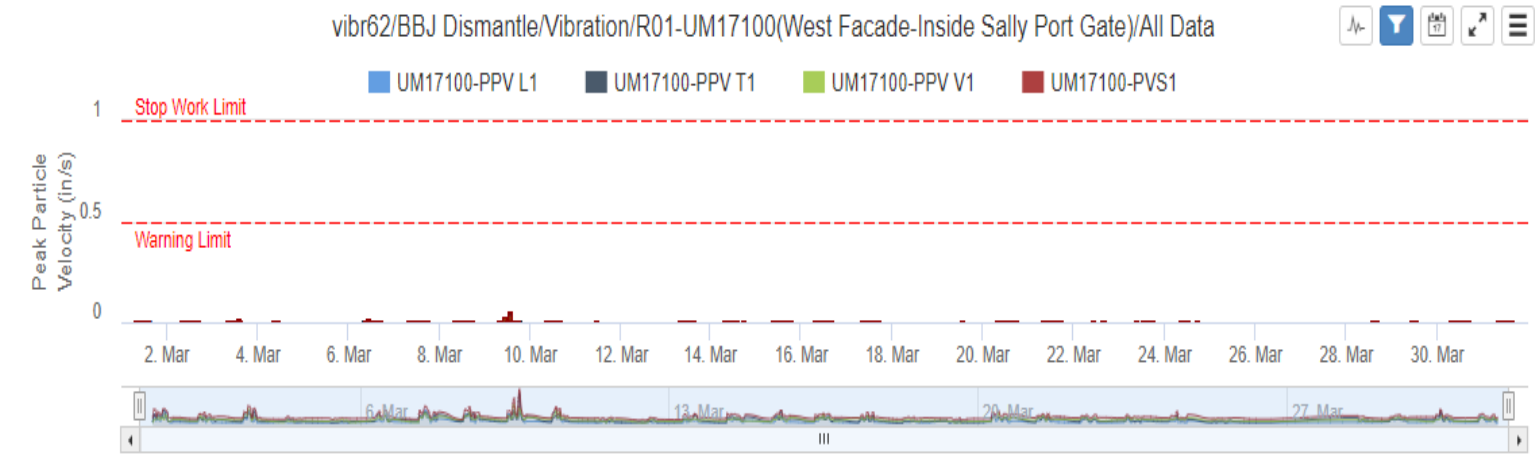


\* Dismantle project vibration, air and noise monitoring devices are installed by Design-Build team in Phase 2, after sally port construction. A vibration monitoring station was installed in the DCTV Fire house at 87 Lafayette St.

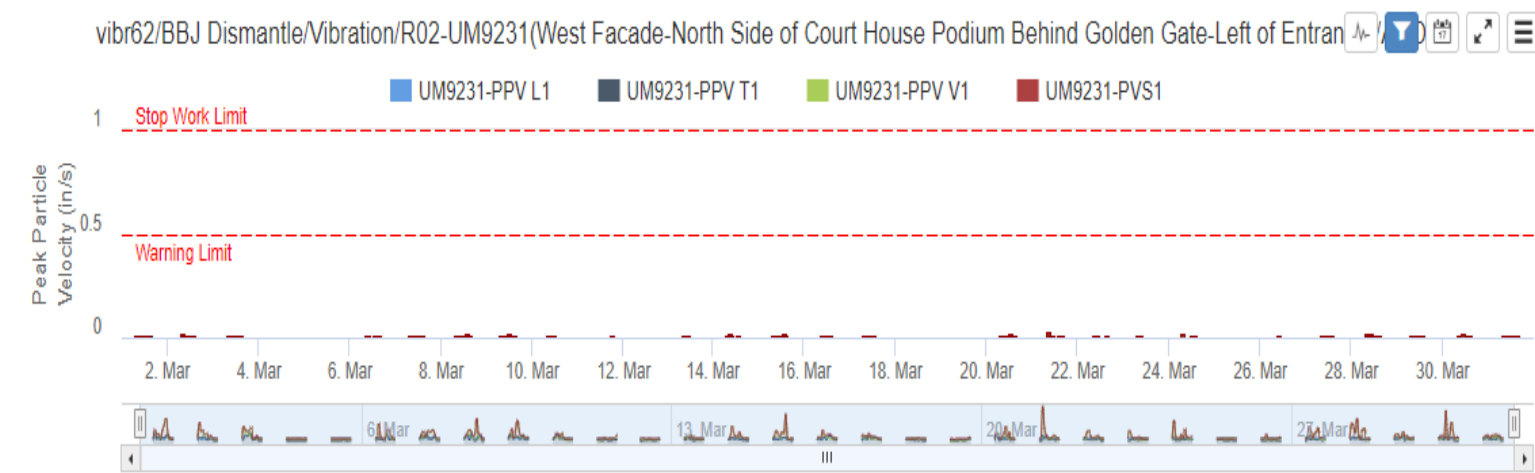
\* The location of monitoring stations presented is referential. Air/Noise Monitoring station located in Sally Port area will be relocated in Phase 2.

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

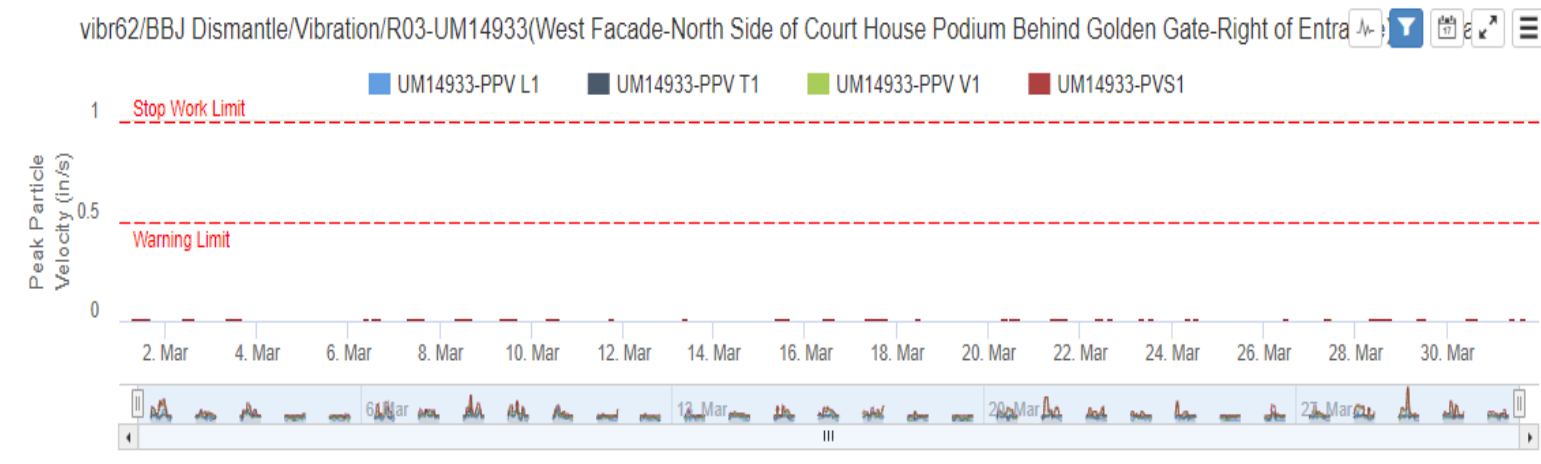
**Vibration Monitor – (R01) March 23:**



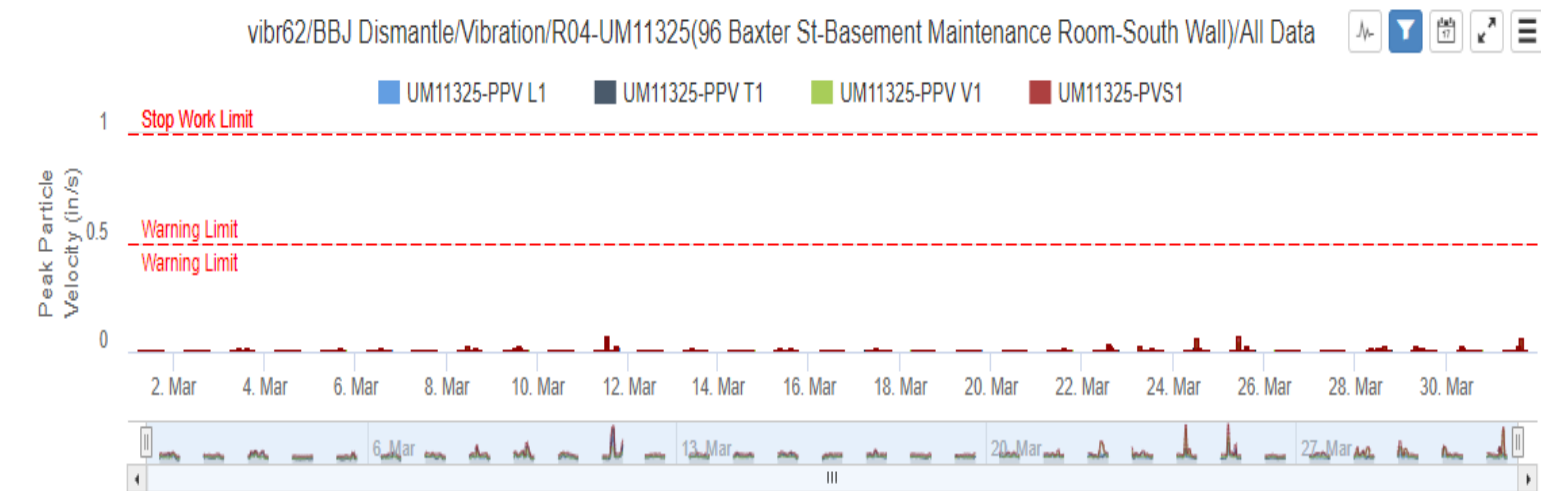
**Vibration Monitor – (R02) March 23:**



**Vibration Monitor – (R03) March 23:**

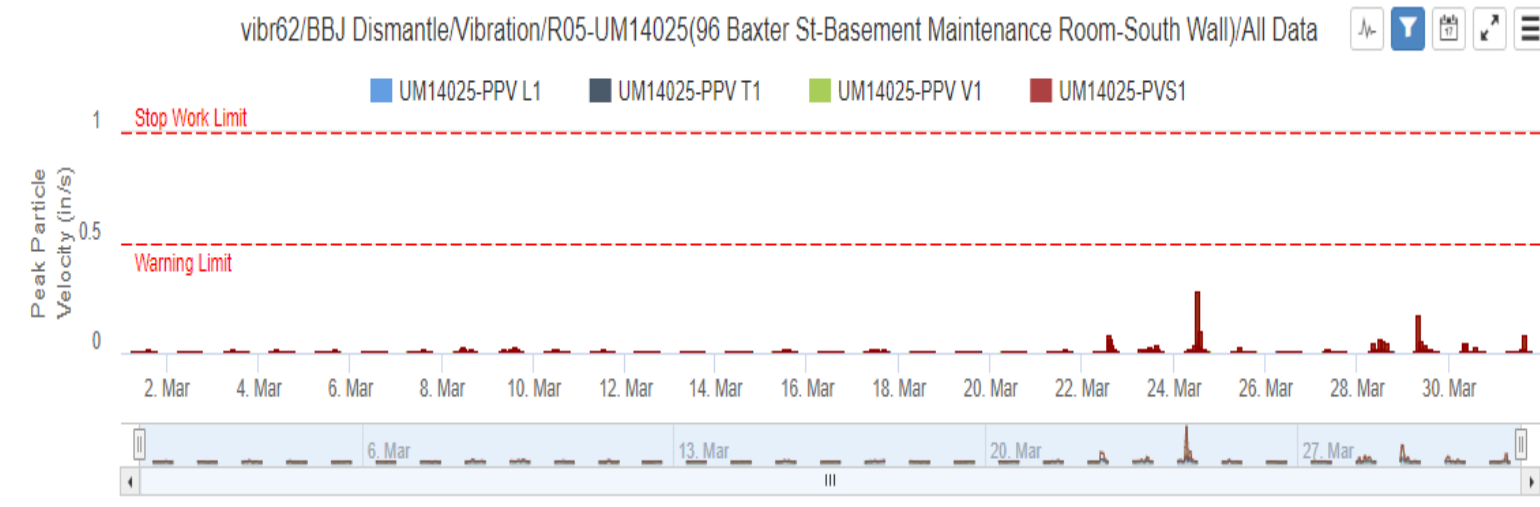


**Vibration Monitor – (R04) March 23:**

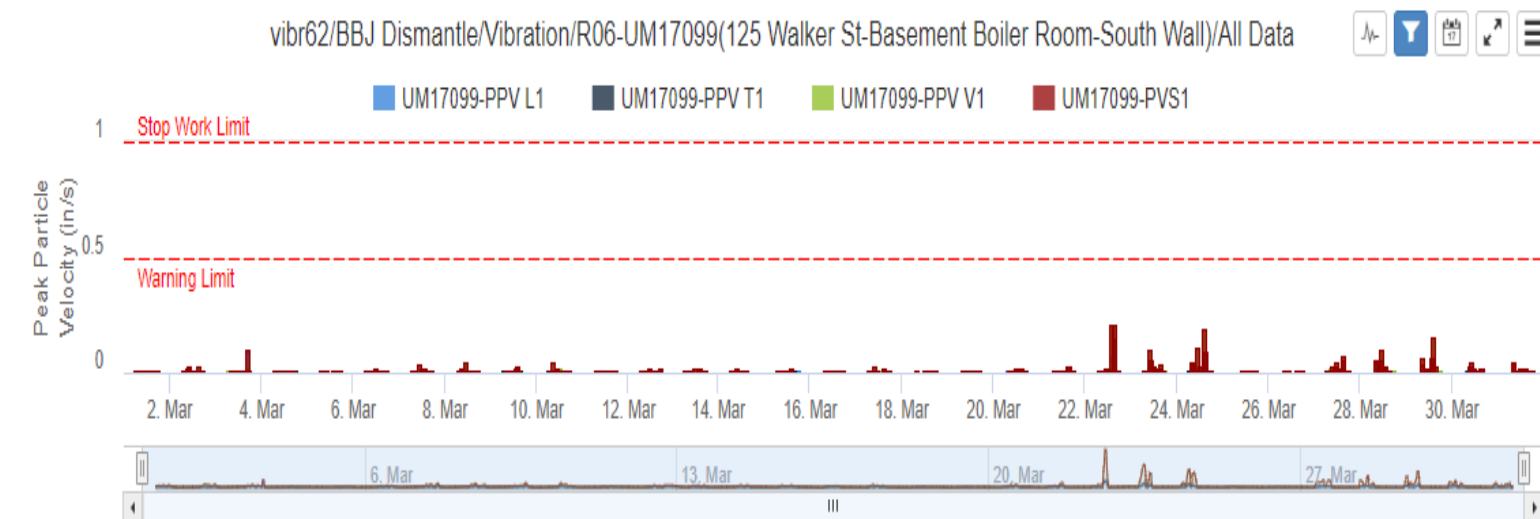




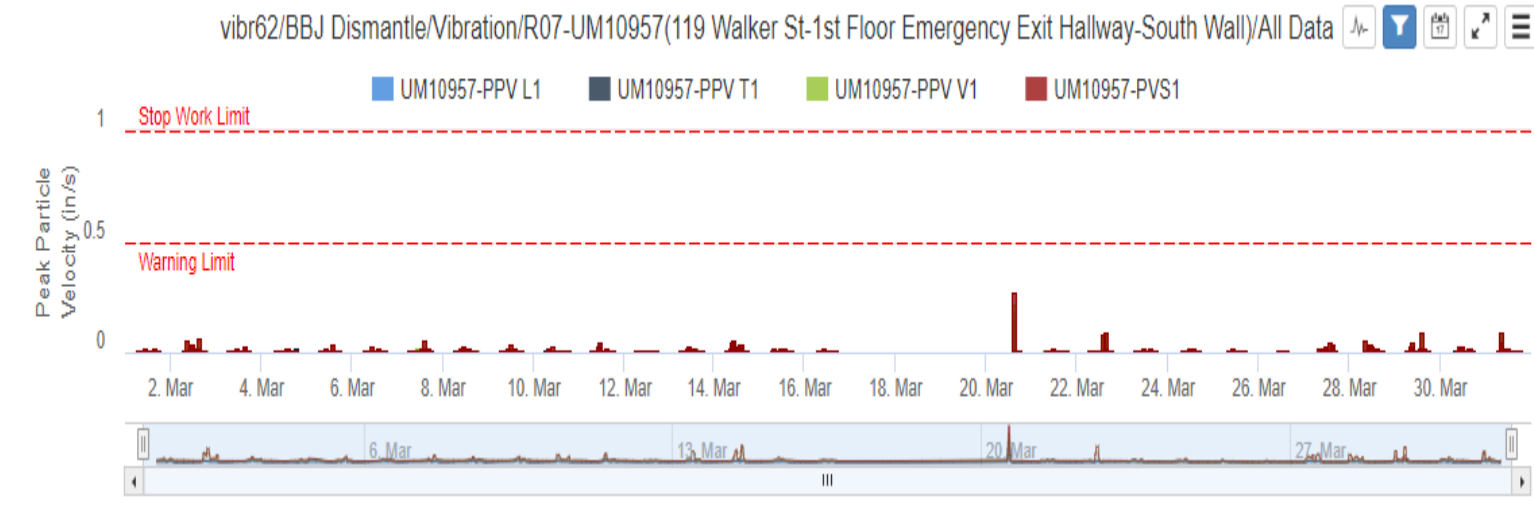
**Vibration Monitor – (R05) March 23:**



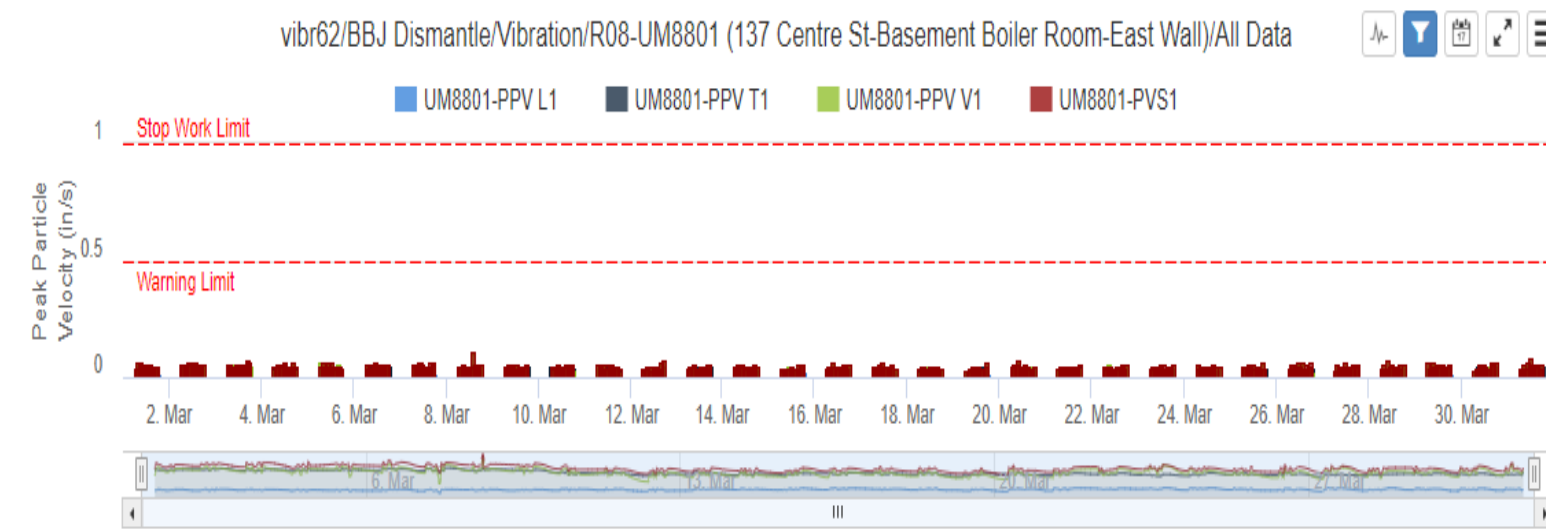
**Vibration Monitor – (R06) March 23:**



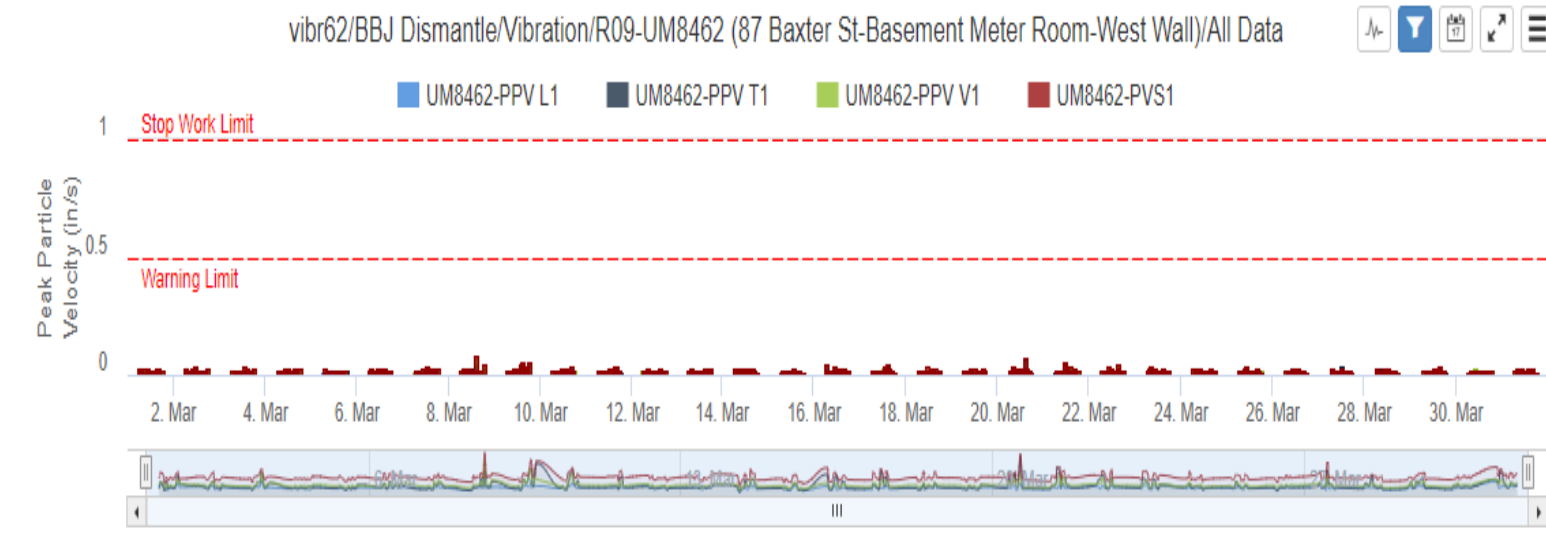
**Vibration Monitor – (R07) March 23:**



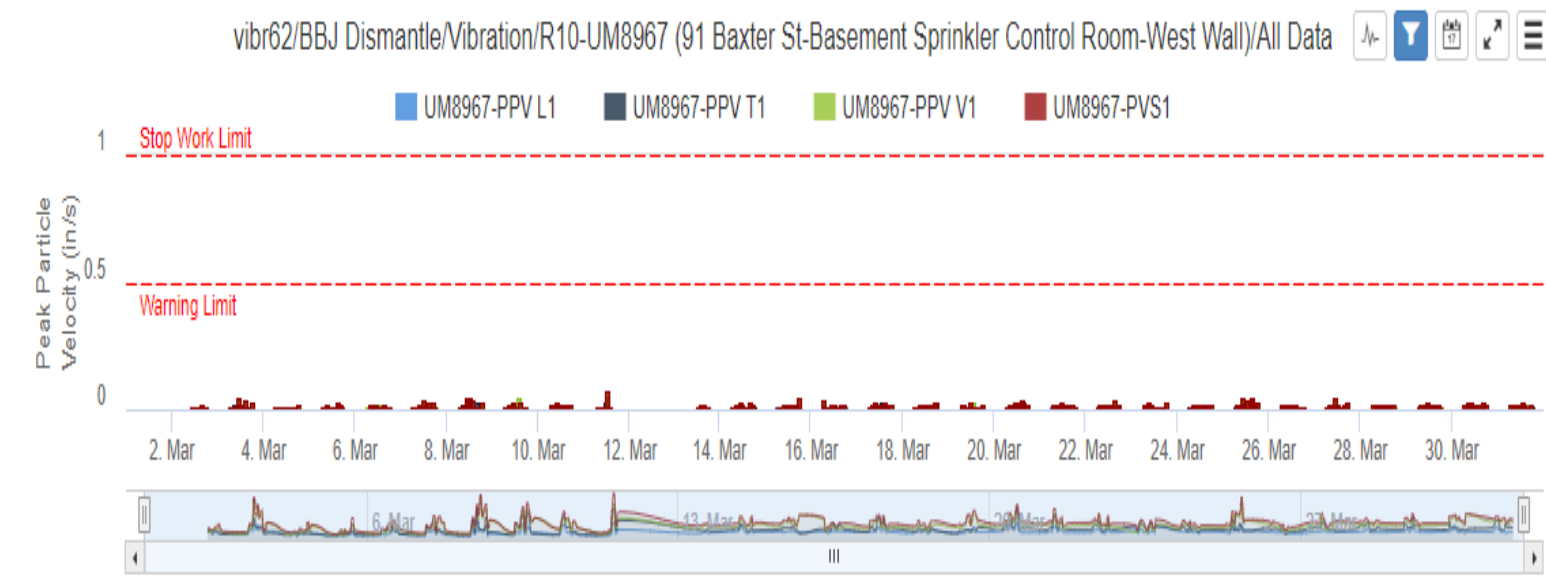
**Vibration Monitor – (R08) March 23:**



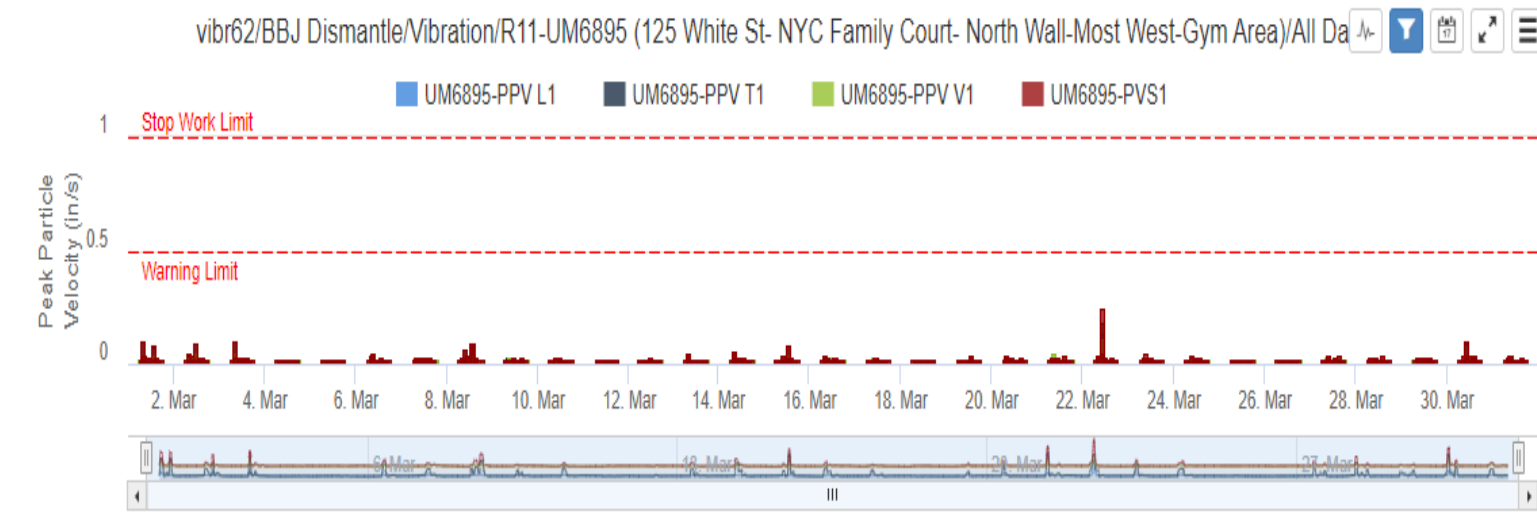
**Vibration Monitor – (R09) March 23:**



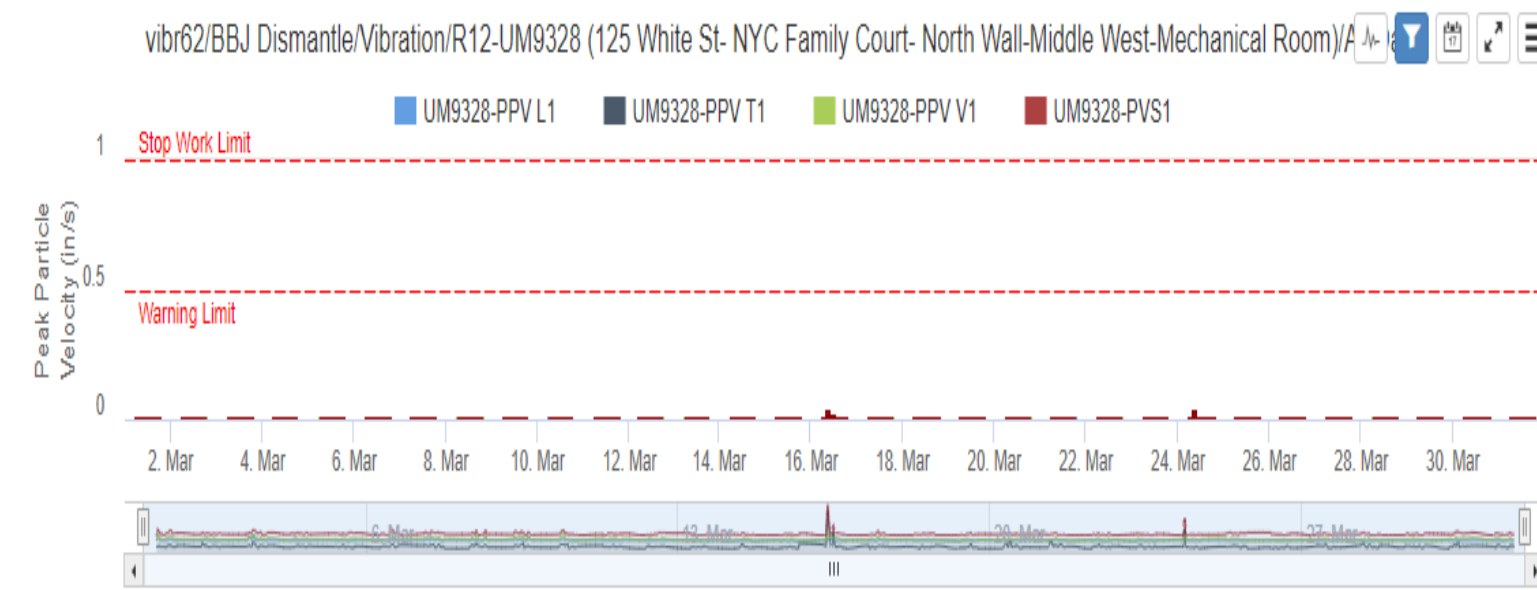
**Vibration Monitor – (R10) March 23:**



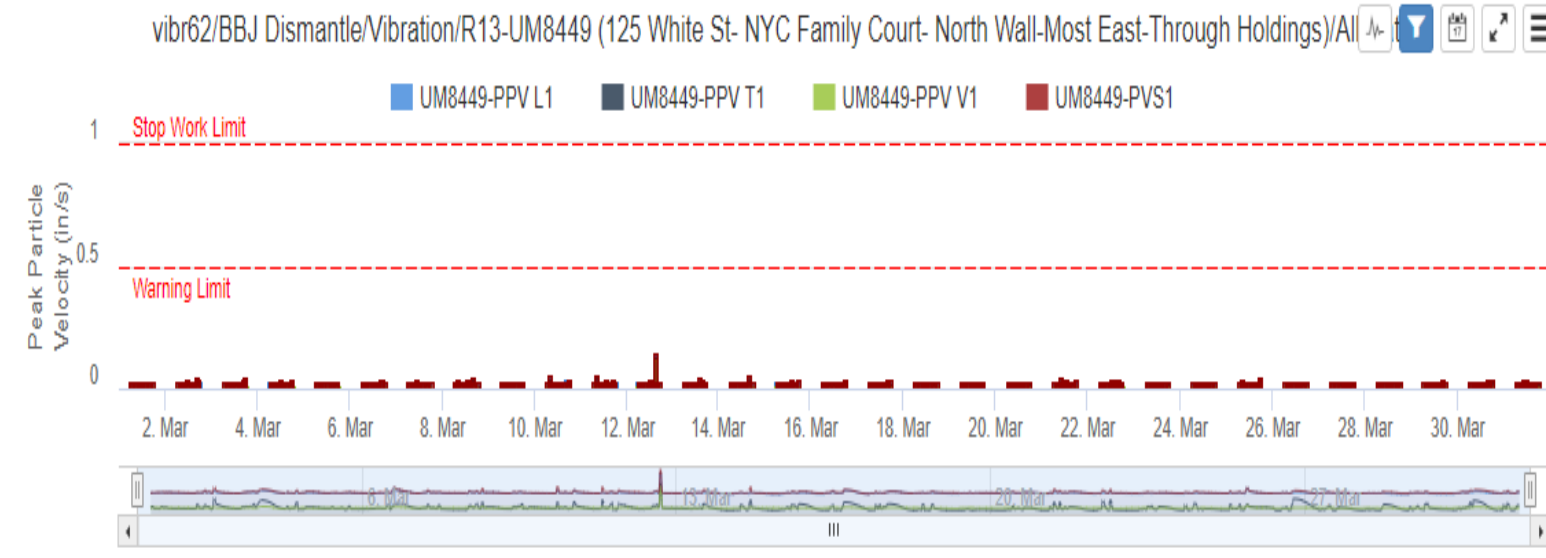
**Vibration Monitor – (R11) March 23:**



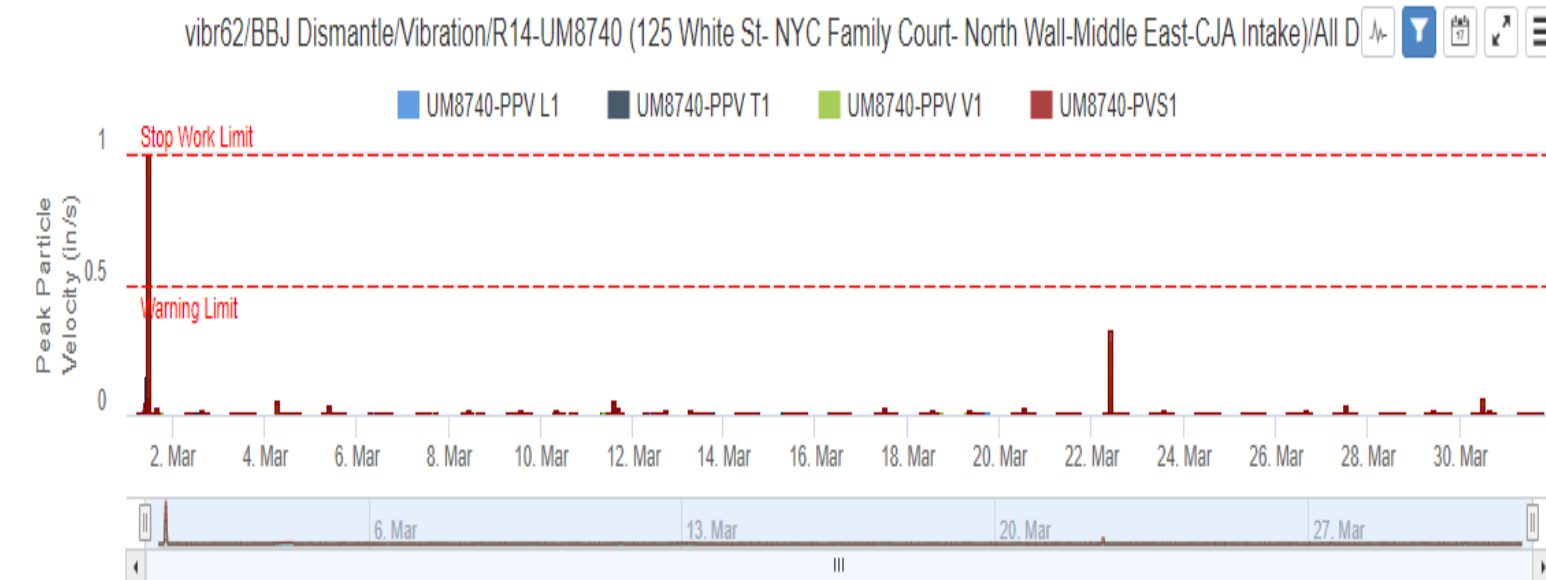
**Vibration Monitor – (R12) March 23:**



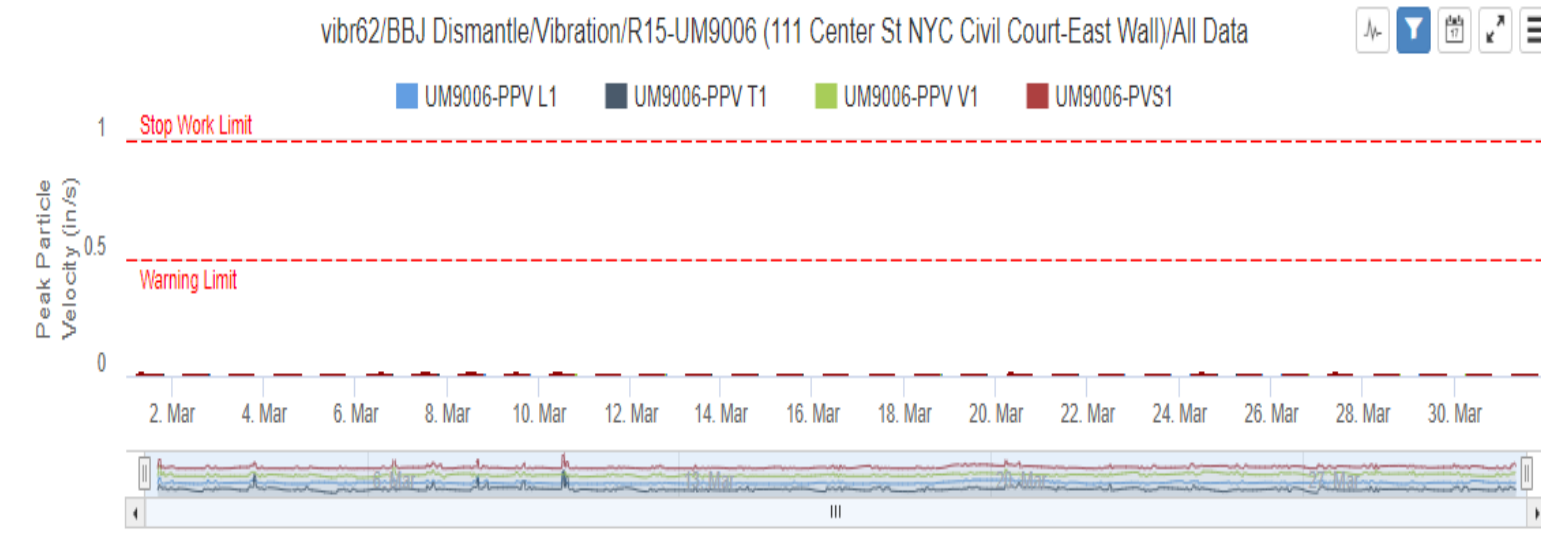
**Vibration Monitor – (R13) March 23:**



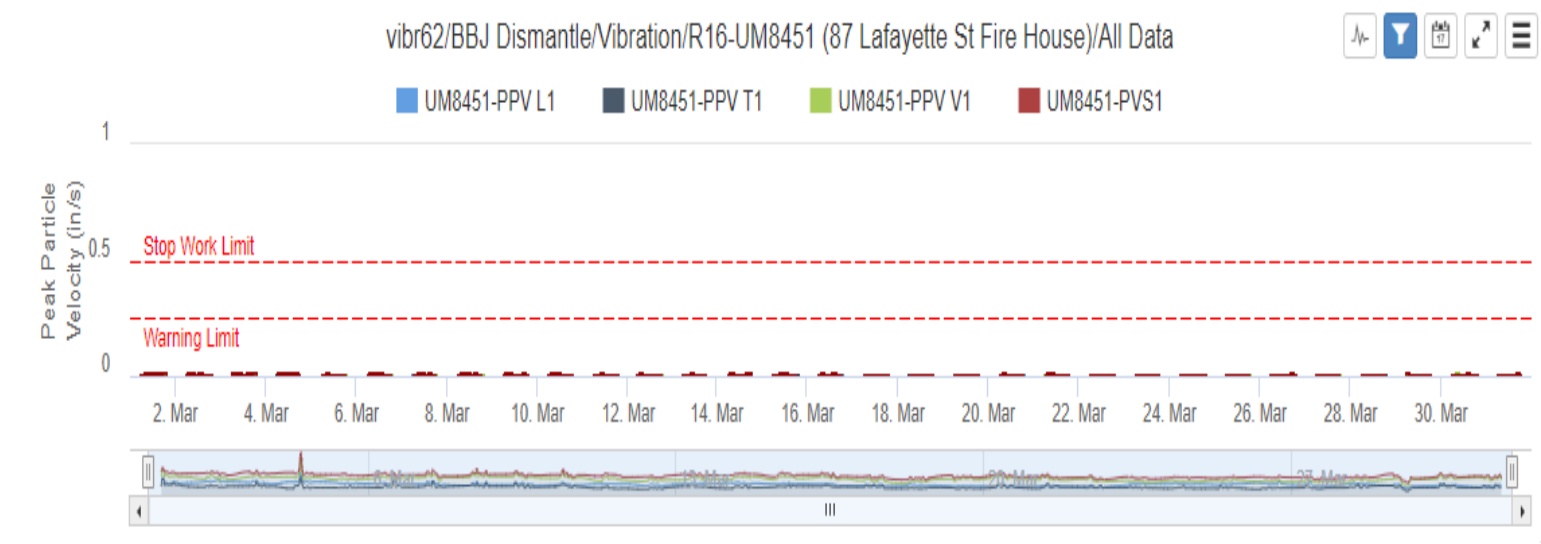
**Vibration Monitor – (R14) March 23:**



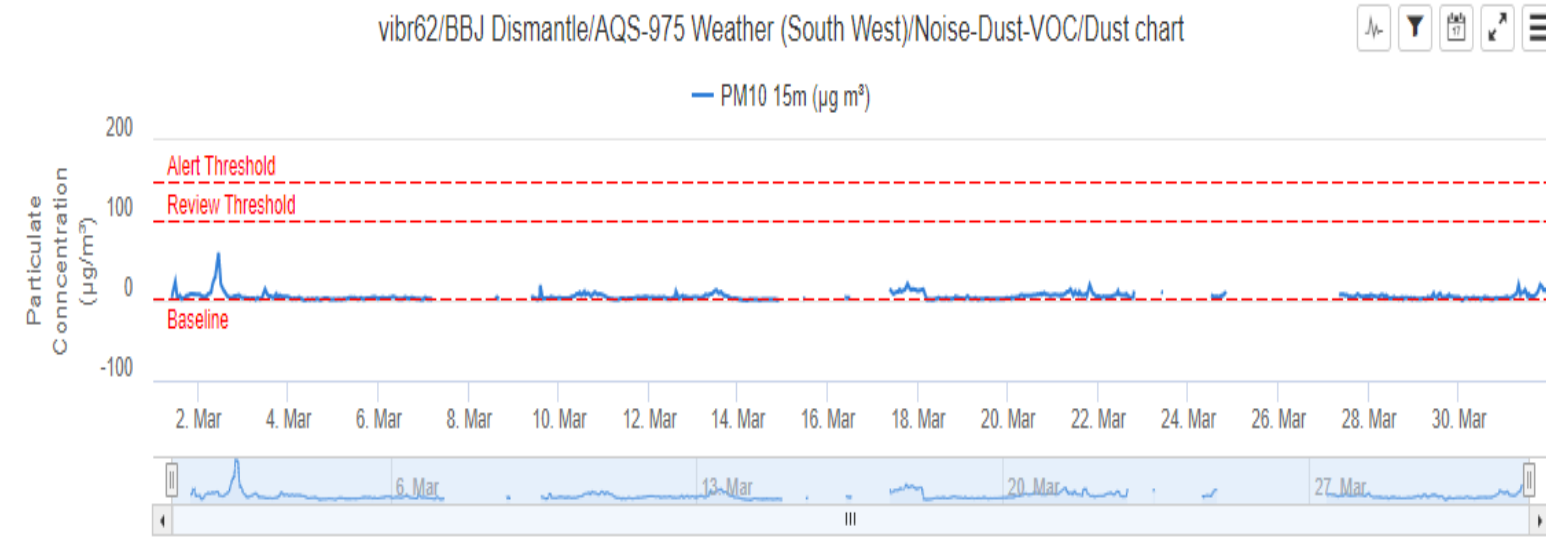
**Vibration Monitor – (R15) March 23:**



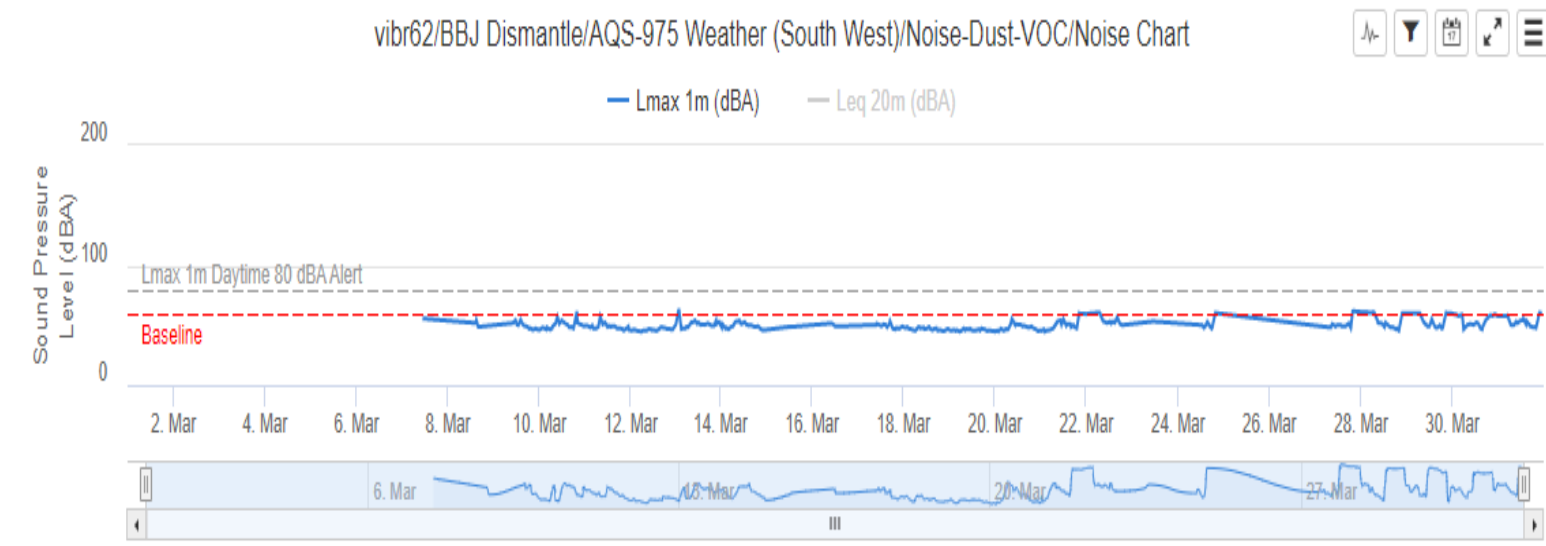
**Vibration Monitor – (R16) March 23:**



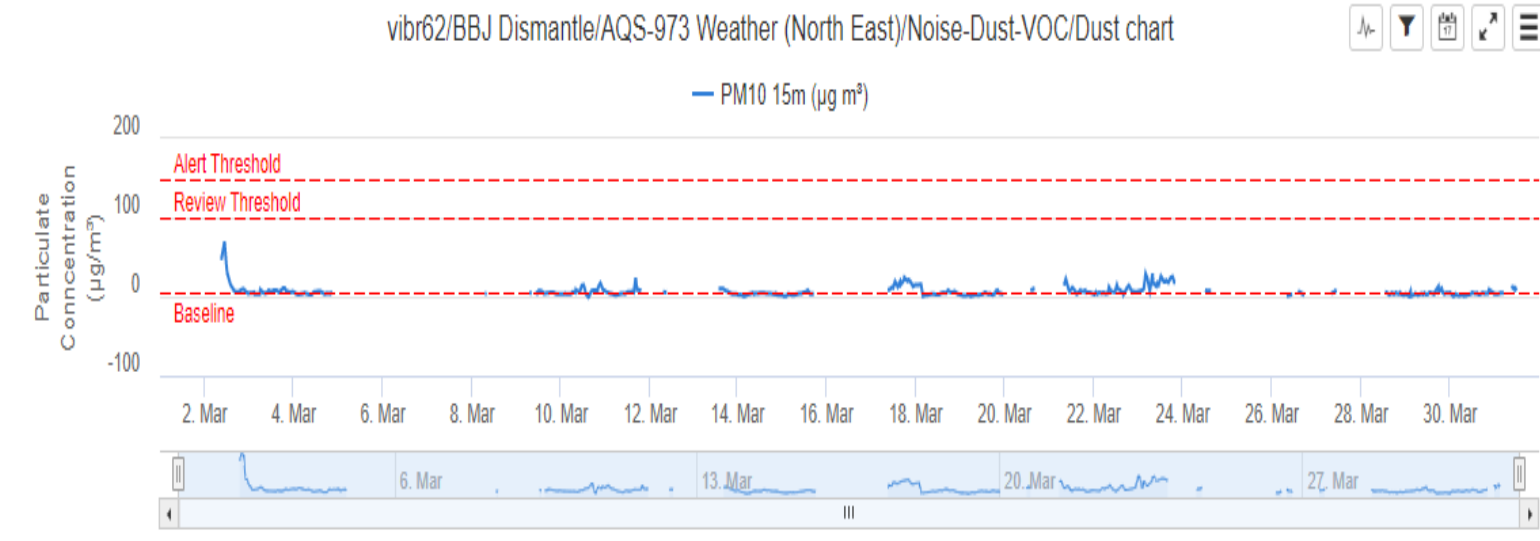
**Air Quality Systems #975 – Dust Monitoring Station – March 23:**



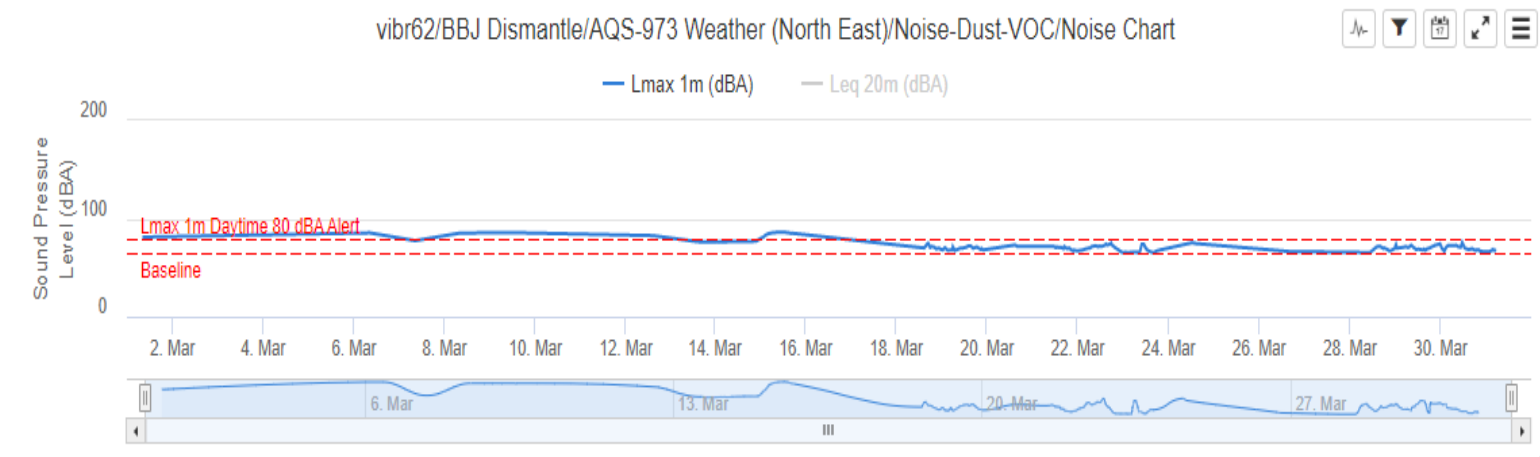
**Air Quality Systems #975 – Noise Monitoring Station – March 23:**



**Air Quality Systems #973 – Dust Monitoring Station – March 23:**

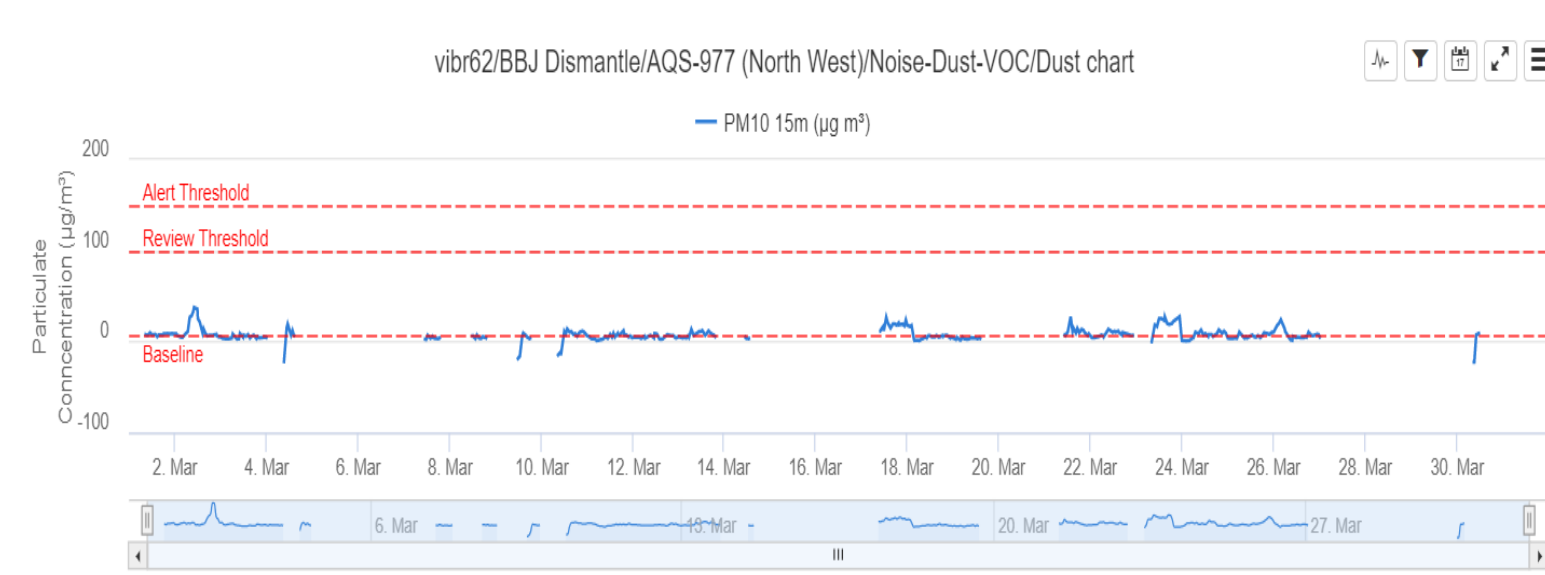


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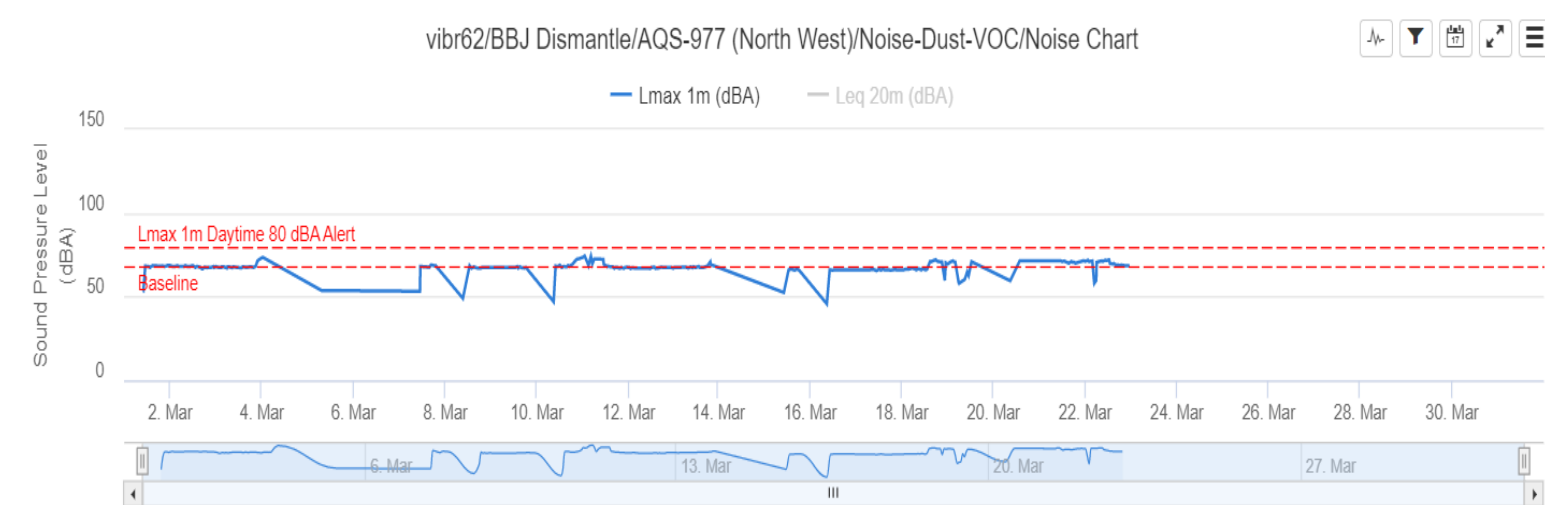




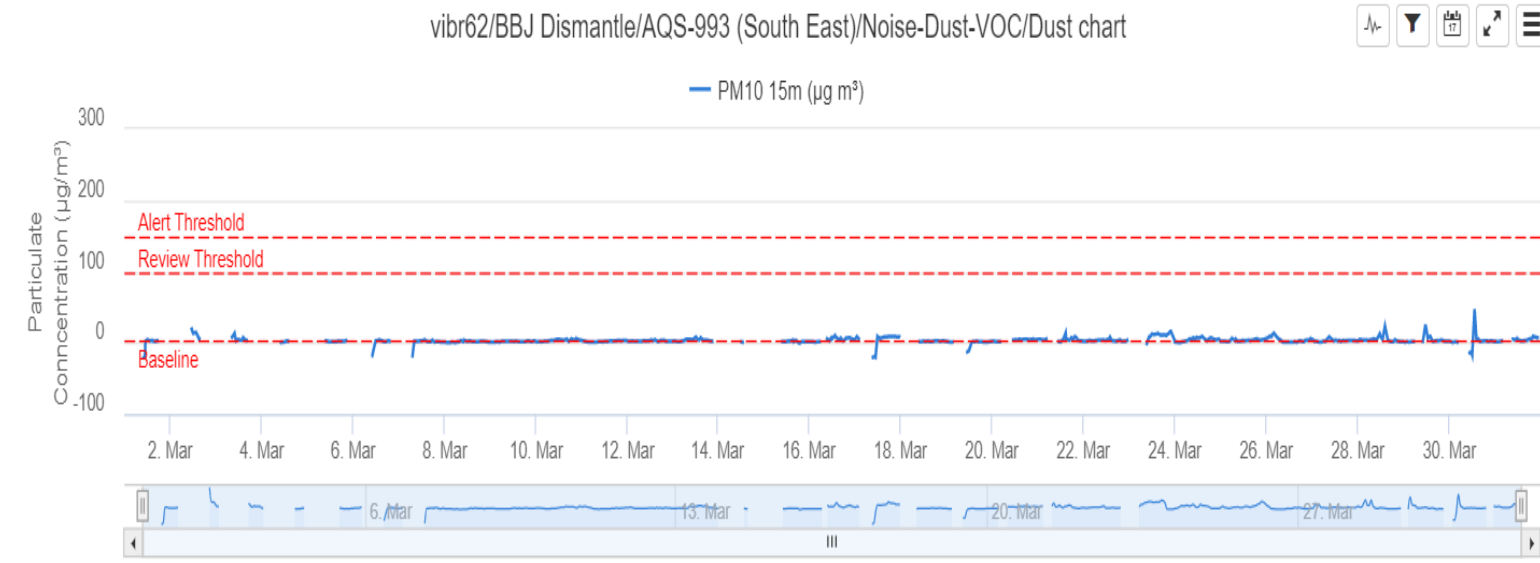
**Air Quality Systems #977 – Dust Monitoring Station – March 23:**



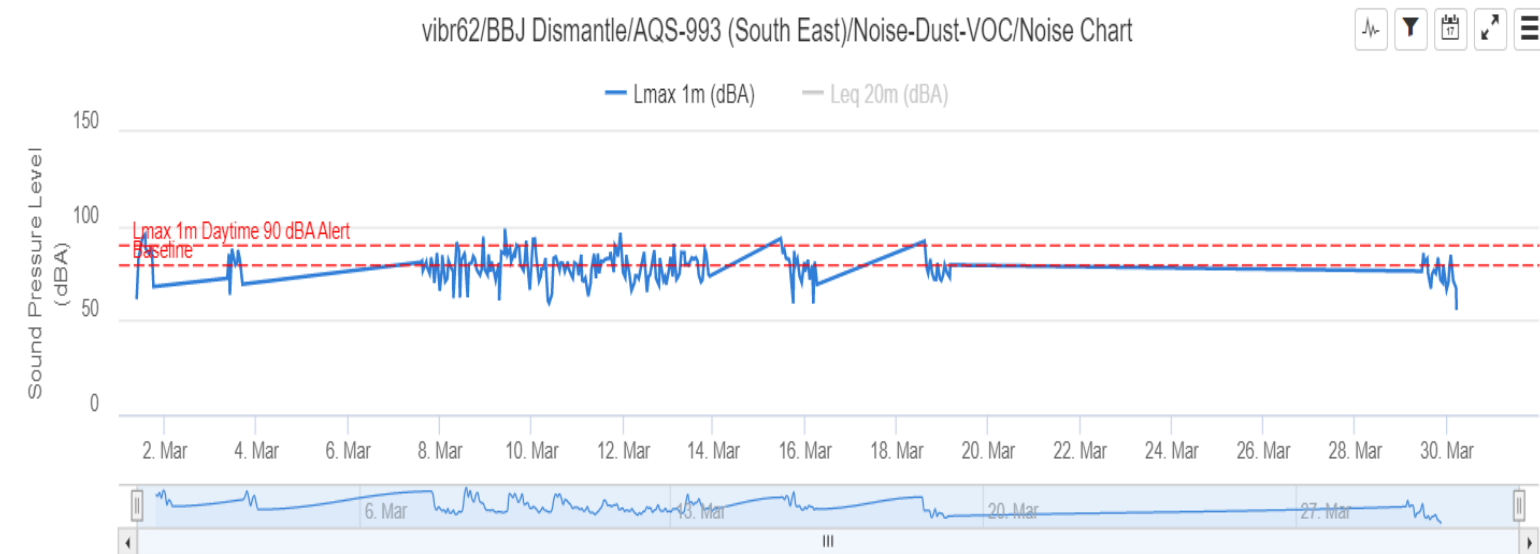
**Air Quality Systems #977 – Noise Monitoring Station – March 23:**



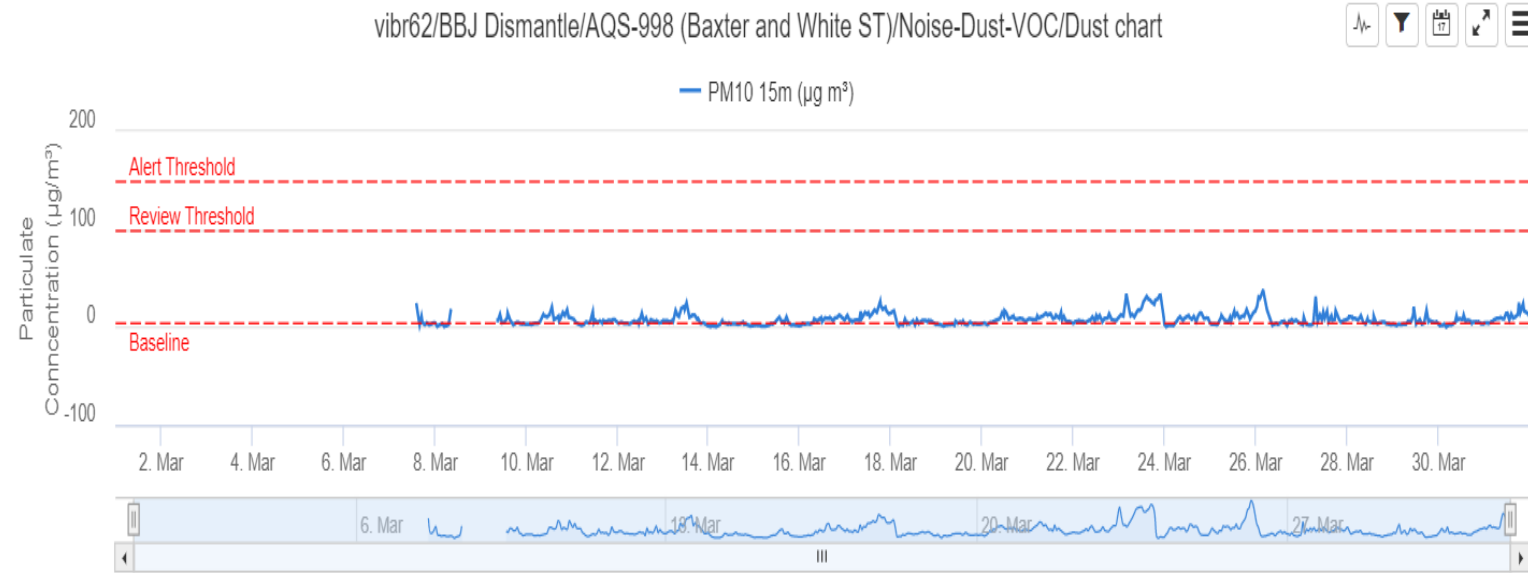
**Air Quality Systems #993 – Dust Monitoring Station – March 23:**



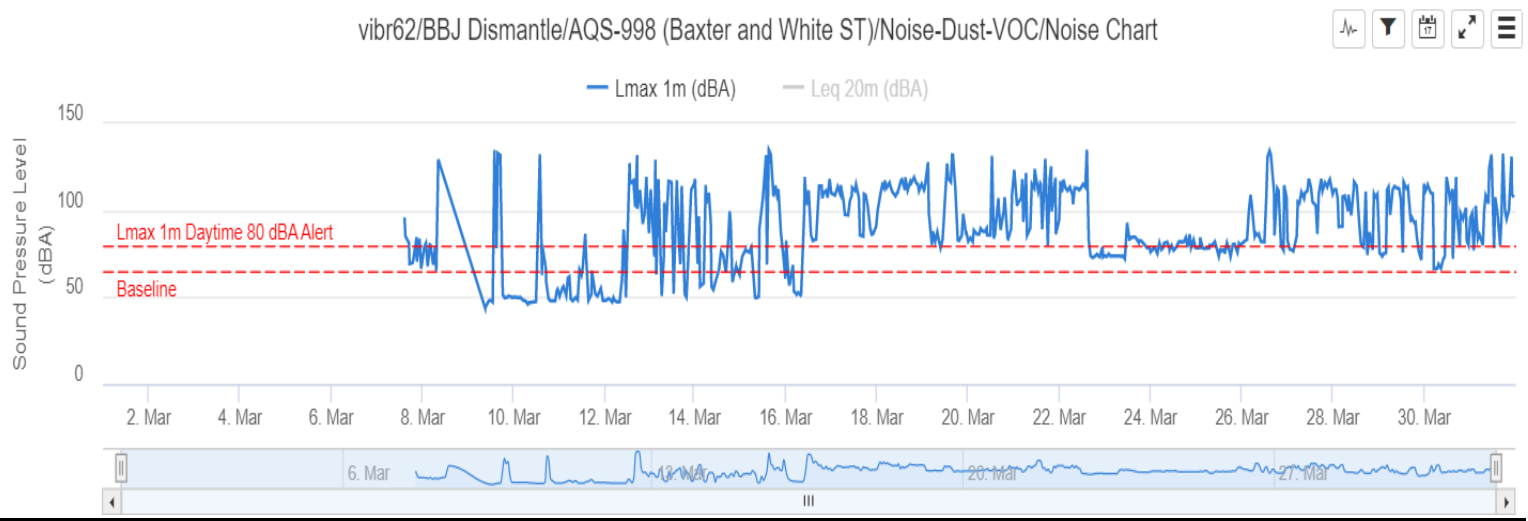
**Air Quality Systems #993 – Noise Monitoring Station – March 23:**



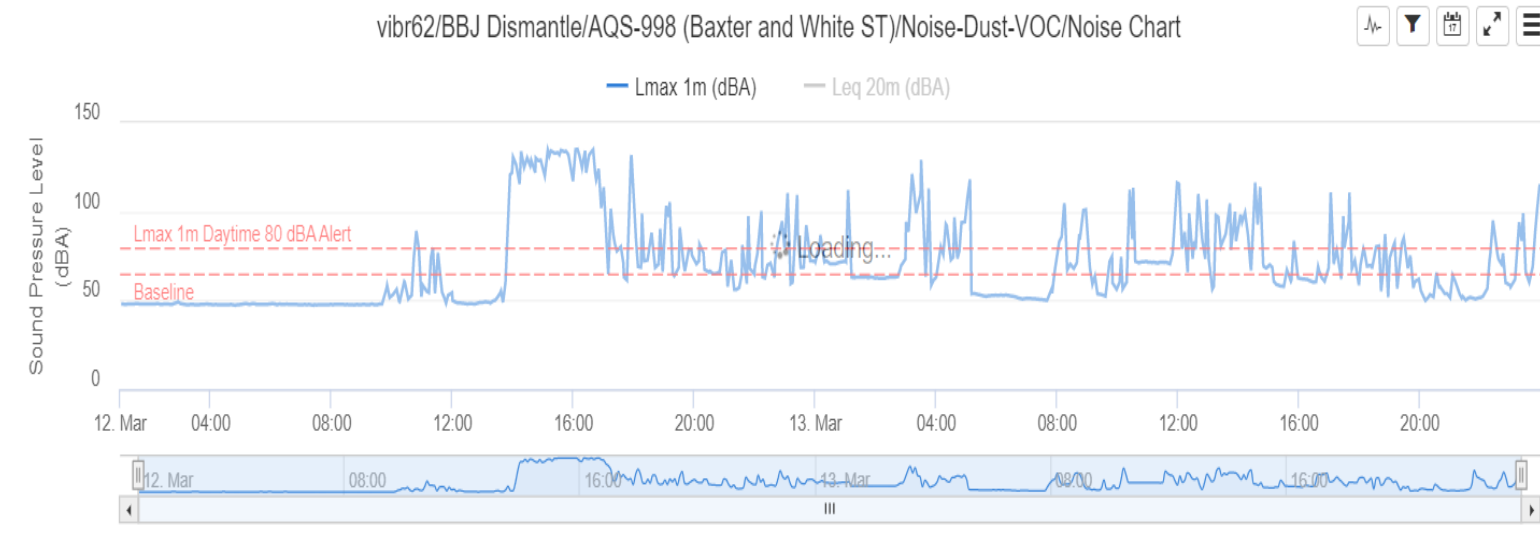
**Air Quality Systems #998 – Dust Monitoring Station – March 23:**



**Air Quality Systems #998 – Noise Monitoring Station – March 23:**



**Air Quality Systems #998 – Noise Monitoring Station – March 23, 3/12/23 Weekend Noise Levels (NO CONSTRUCTION ACTIVITY):**



**Air Quality Systems #998 – Noise Monitoring Station – March 23, 3/19/23 Weekend Noise Levels (NO CONSTRUCTION ACTIVITY):**

