

**AIR, NOISE AND VIBRATION
MONTHLY MONITORING REPORT
Number 006**

Prepared By:
Gramercy
Group Inc.

DDC. Project ID:	BBJ M DSS	Period Start: 1/01/23 End 1/31/23
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/m³- 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
22	31	0	Air monitoring was continued throughout everyday 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/m³ 15 minute TWA above background concentration
Stop Work Concentration = 150 ug/m³ 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 January 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
22	31	3	Noise monitoring for the month of January had 3 days that had readings greater than the threshold. As stated in the Community Monitoring Plan, "80 A-weighted decibels (dBA) as measured at 15 feet or more from the source on a public right-of-way, or an increase of 10 dBA above ambient (baseline), whichever is higher." After taking average readings from this area (AQS #993) the average reading came to be about 80 dBA from surrounding community noise. We then raised the threshold by 10 dBA to make the threshold 90 dBA to account for the noise that is unrelated to construction activities. Even with the threshold raised to 90 dBA, we are still experiencing readings greater than 90 dBA. It is noted that these high readings are not caused by construction activity, and they are from police sirens and horns from the heavy traffic in this area. Noise monitoring was continued throughout every day of the month including weekends even when not working. No further 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
1/04/23 @ 10:25 AM	98.2 dBA	86.6 dBA	No corrective action feasible as this noise is unrelated to construction activity.

1/16/23 @ 6:52 AM	95.1 dBA	84.6 dBA	No corrective action feasible as this noise is unrelated to construction activity.
1/30/23 @ 1:31 PM	108.9 dBA	81.4 dBA	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 January, we experienced some noise levels greater than the alert threshold AQS monitor #993. After investigation of the cause of these spikes in noise for this area it was noted that all three of these alerts were not caused by construction activity. This monitor is located directly next to the exiting sally port exit 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. Noise Monitoring for the other 3 AQS monitors for the month of January 2023 did not reach warning levels and no alarms were triggered. All construction related activities for the month of January 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
22	31	2	Throughout the month of January there were 2 days where vibration monitors were triggered. The two monitors that had readings greater than the threshold limit were monitors R13 and R14. R13 recorded a vibration level that exceeded the threshold on January 5 th . This was due to maintenance and was not caused by any construction activity. R14 was triggered on January 30 th and this was due to officers in the CJA area moving the monitor and was also not caused by any construction activity. Vibration monitoring was continued throughout every day of the week even on

			weekends when no work was being performed. No further exceedances were noted.
<p>Community Vibration Monitoring Excursions and Corrective Actions Action Level = 0.5 in/sec Stop Work Level = 1.0 in/sec</p>			
Date: Time	Maximum Vibration Level before Corrective Action (in/sec)	Maximum Vibration Level after Corrective Action (in/sec)	Corrective Action
1/30/23 @ 10:45AM	1.617 (in/sec)	0.021 (in/sec)	Re-sectioned off the area to avoid any accidental contact with the monitor. Spoke with officers in the area and made them aware of the monitor again to stop accidentally setting it off.
1/04/23 @ 2:38PM	0.824 (in/sec)	0.099 (in/sec)	No corrective action required this alarm was set off due to us performing maintenance the monitor and manually setting it off.
<p><i>Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions:</i></p> <p><i>During the Month of January 2023, there was 2 vibration warnings/exceedances. As stated in the monthly summary, these were all false alarms. One being on monitor R13 which was caused by maintenance to the monitor. The other alarm that went off was due to officers in this area accidentally making contact with the monitor while moving stuff around in this area. However, no alarm was triggered during or by any construction activity or by any construction activity. The corrective action for the accidental contact with the monitor was sectioning off that area and having a "Warning Monitoring In Progress" sign by this monitor. 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:

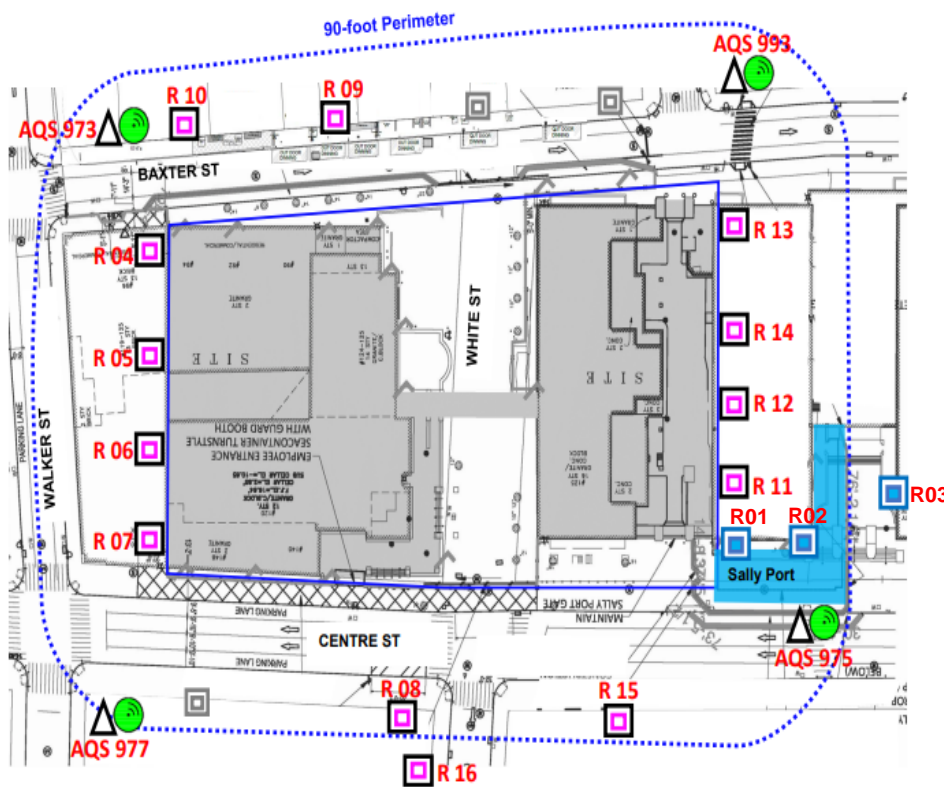
- 1 – Include one map of monitoring station/locations
- 2 – Include Data Plots
- 3 – Include Baseline Reference

Map of Monitoring Locations:

Vibration Monitors R01 – R16

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

Environmental Monitoring Manhattan

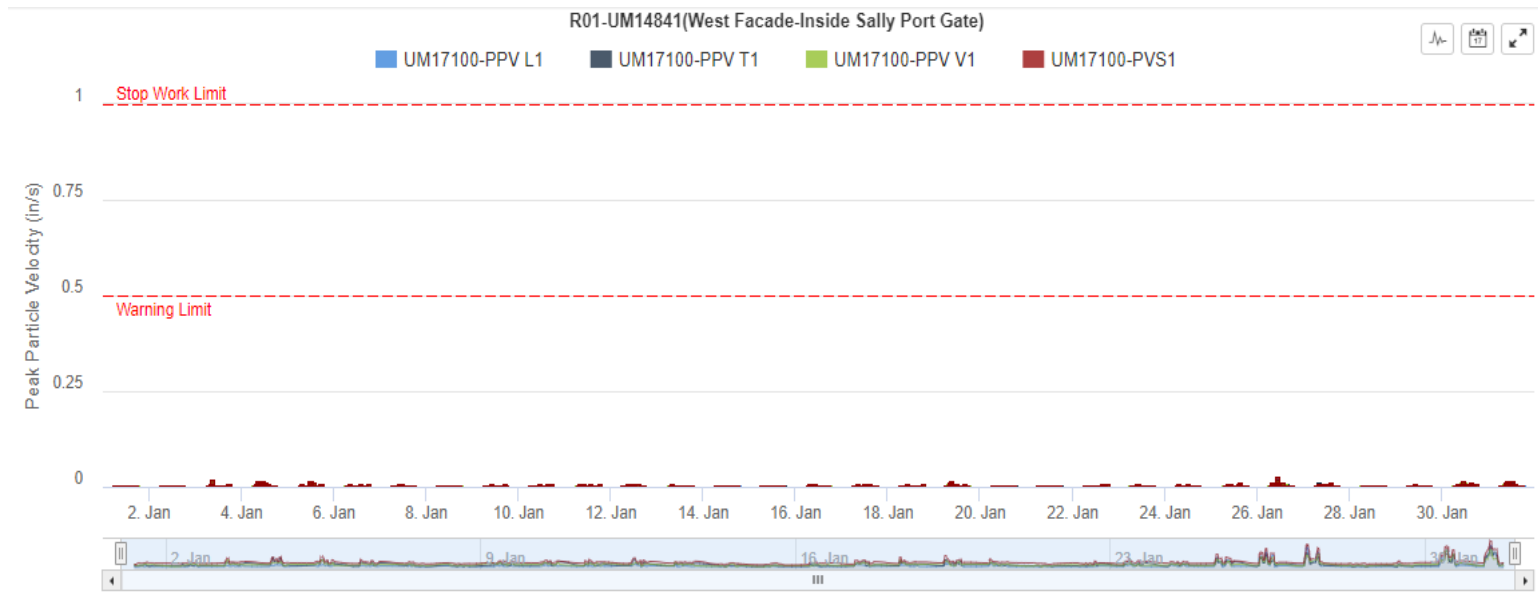


* Dismantle project vibration, air and noise monitoring devices are installed by Design-Build team in Phase 2, after sally port construction. A vibration monitoring station was installed in the DCTV Fire house at 87 Lafayette St.

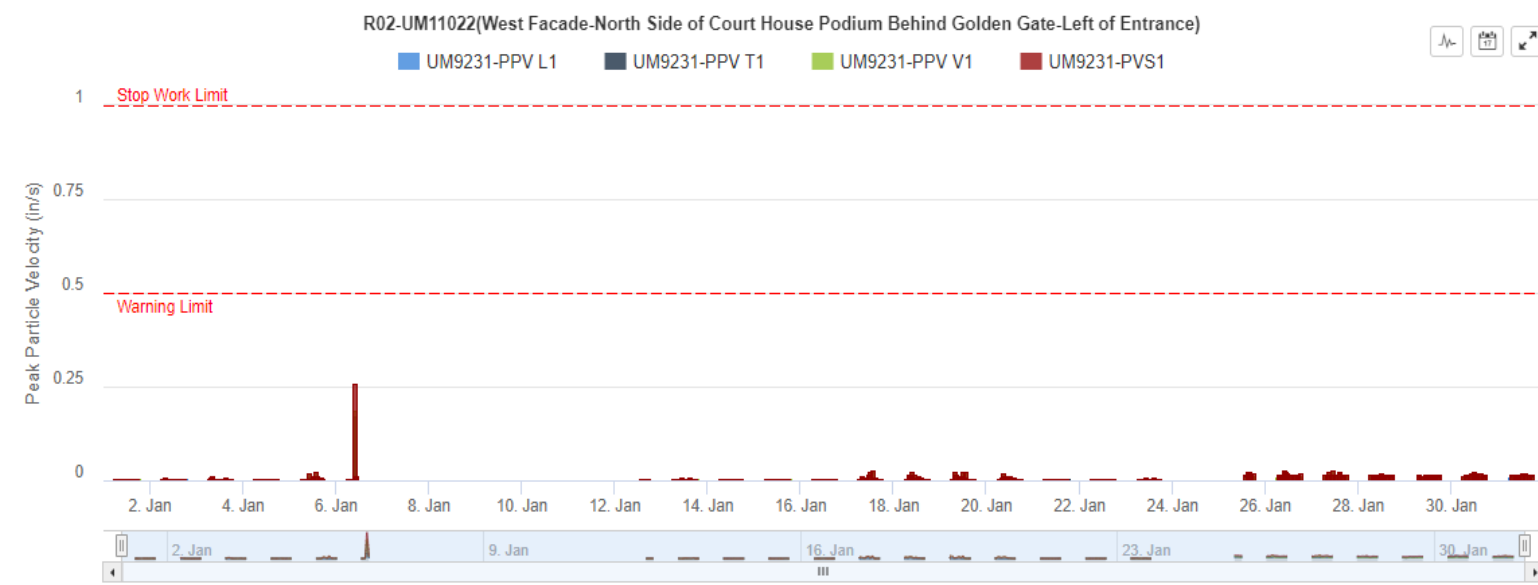
* The location of monitoring stations presented is referential. Air/Noise Monitoring station located in Sally Port area will be relocated in Phase 2.

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

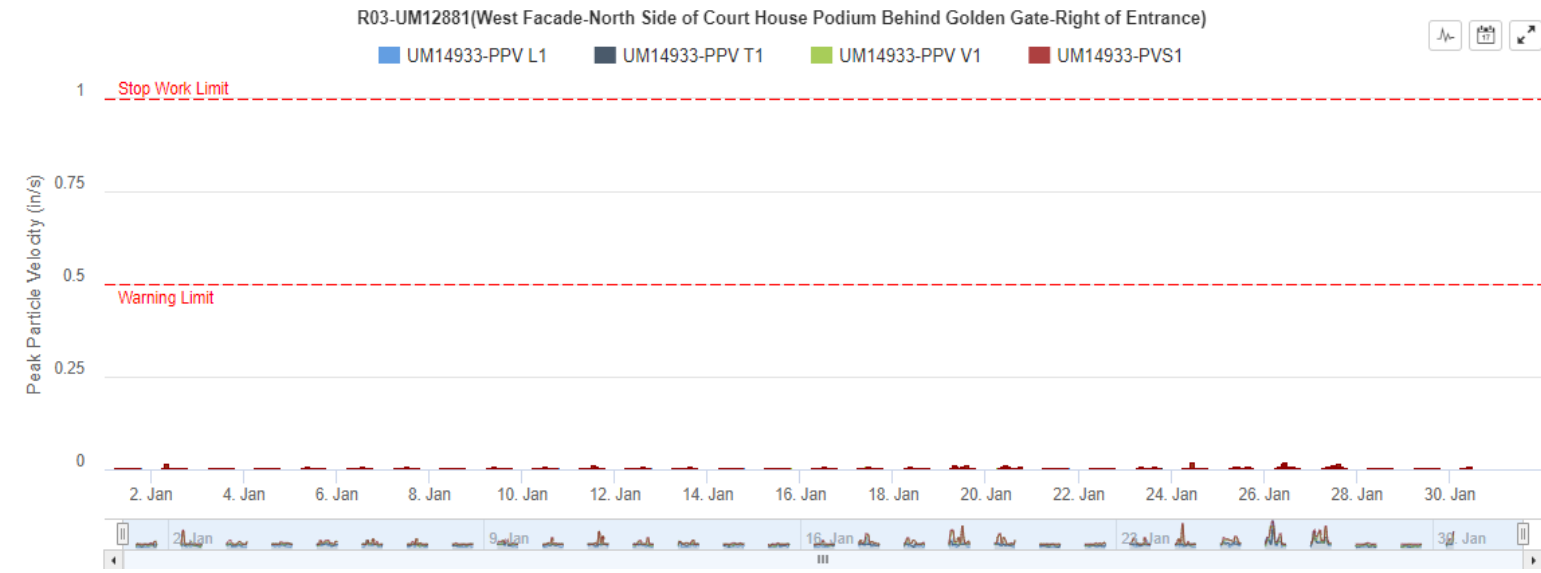
Vibration Monitor – (R01) January 23:



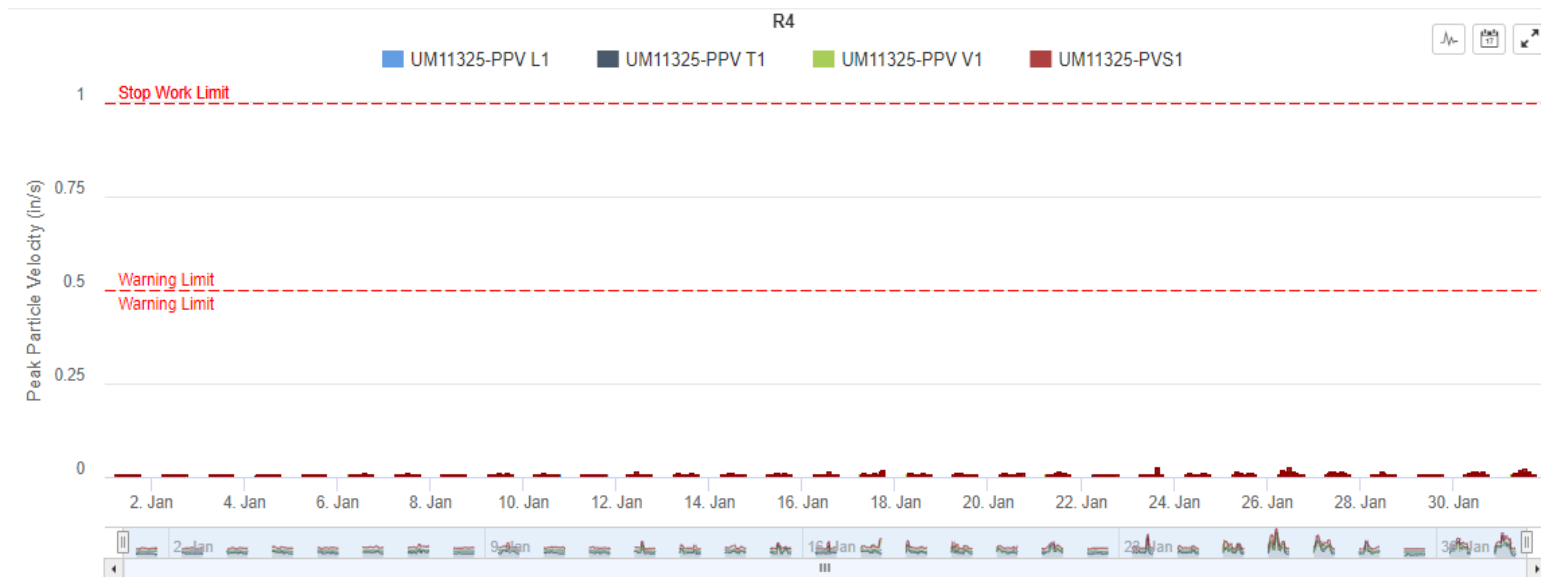
Vibration Monitor – (R02) January 23:



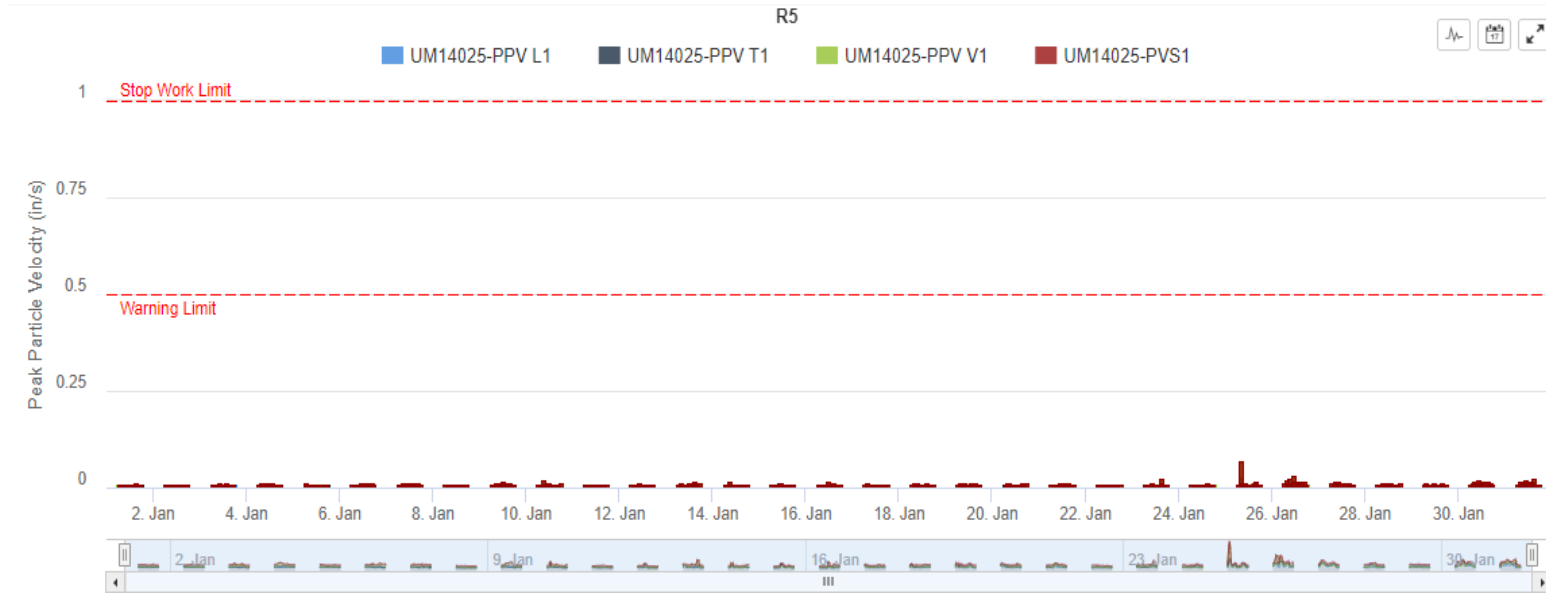
Vibration Monitor – (R03) January 23:



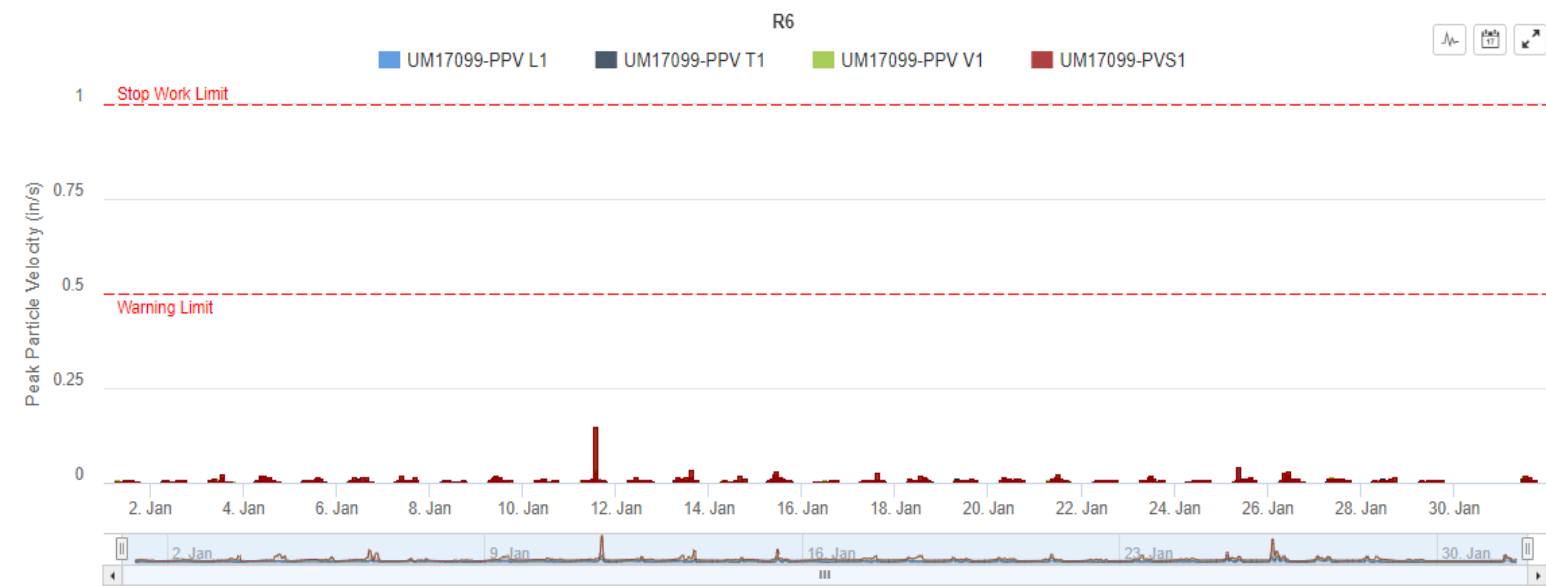
Vibration Monitor – (R04) January 23:



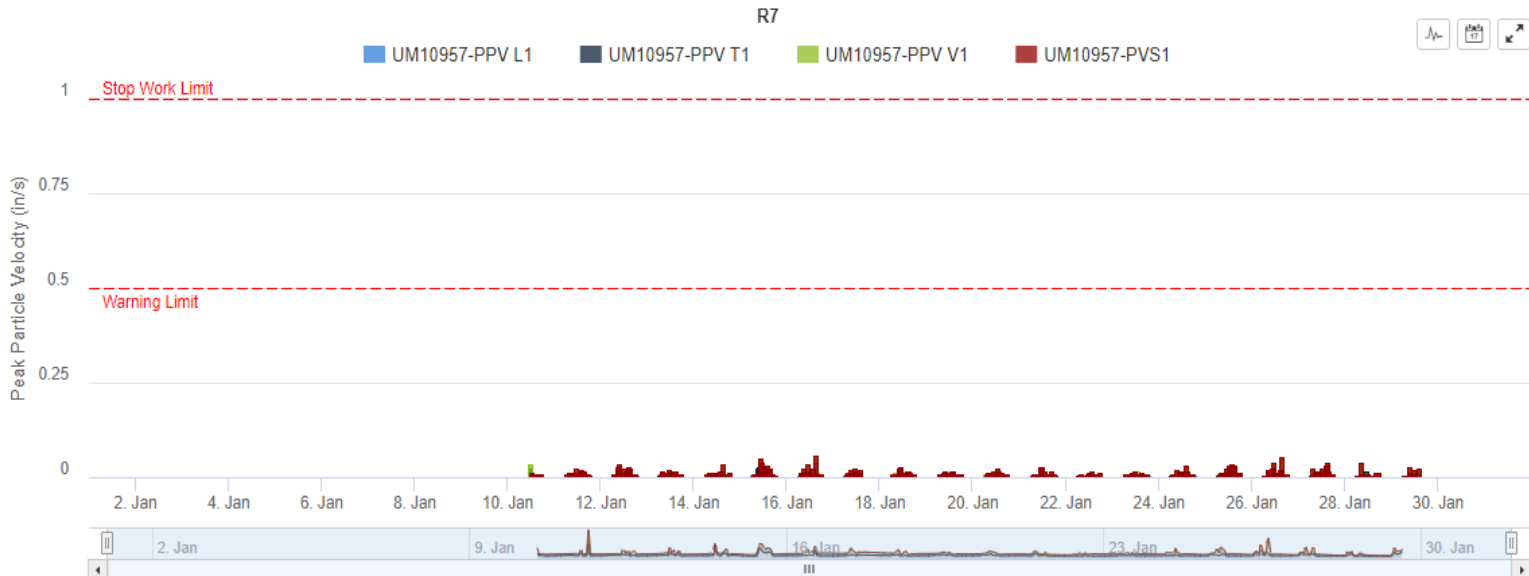
Vibration Monitor – (R05) January23:



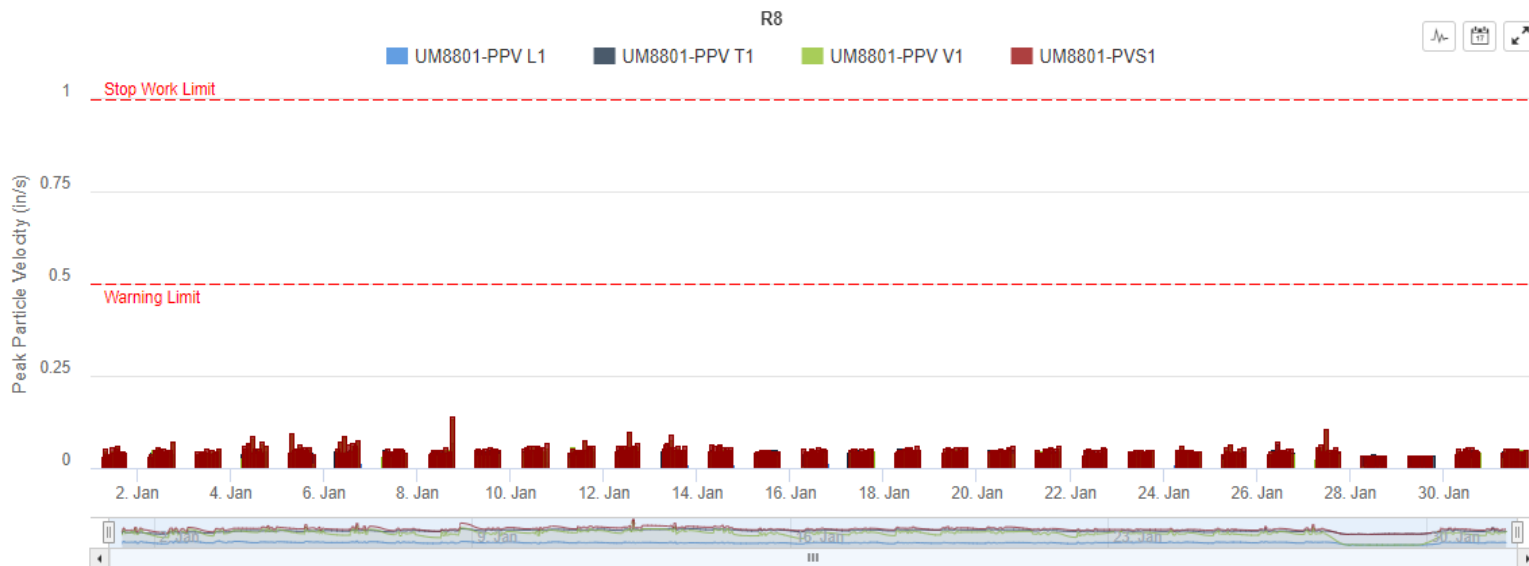
Vibration Monitor – (R06) January 23:



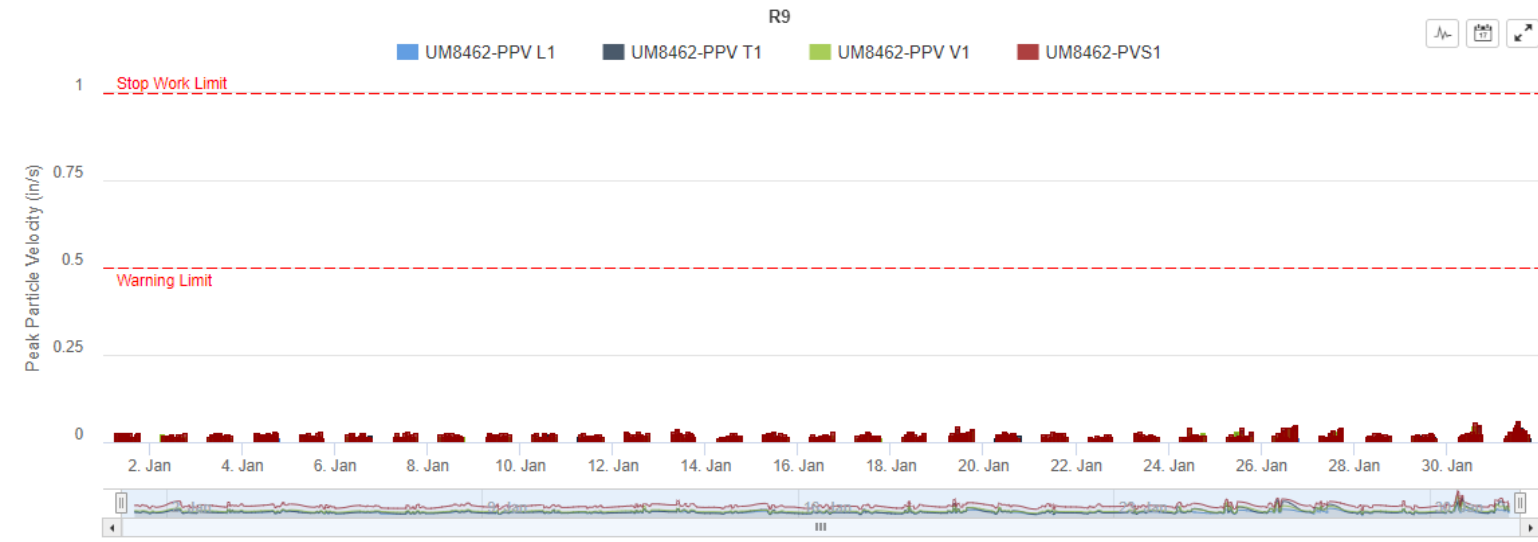
Vibration Monitor – (R07) January 23:



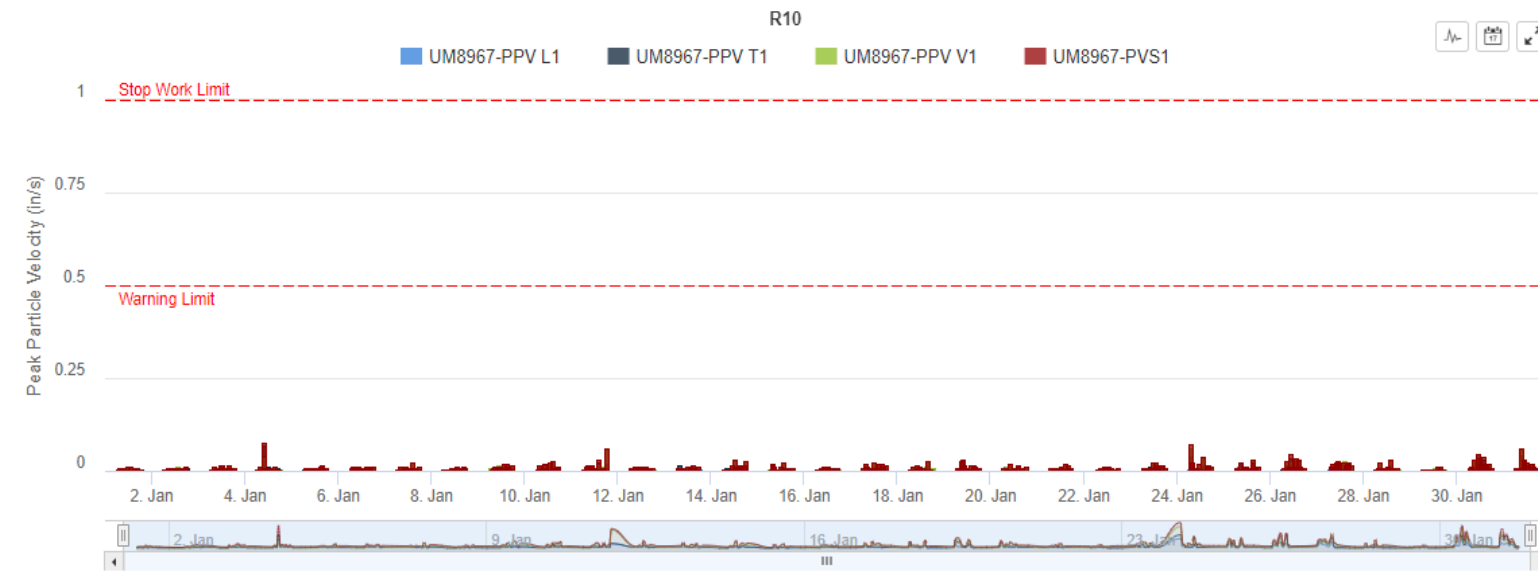
Vibration Monitor – (R08) January 23:



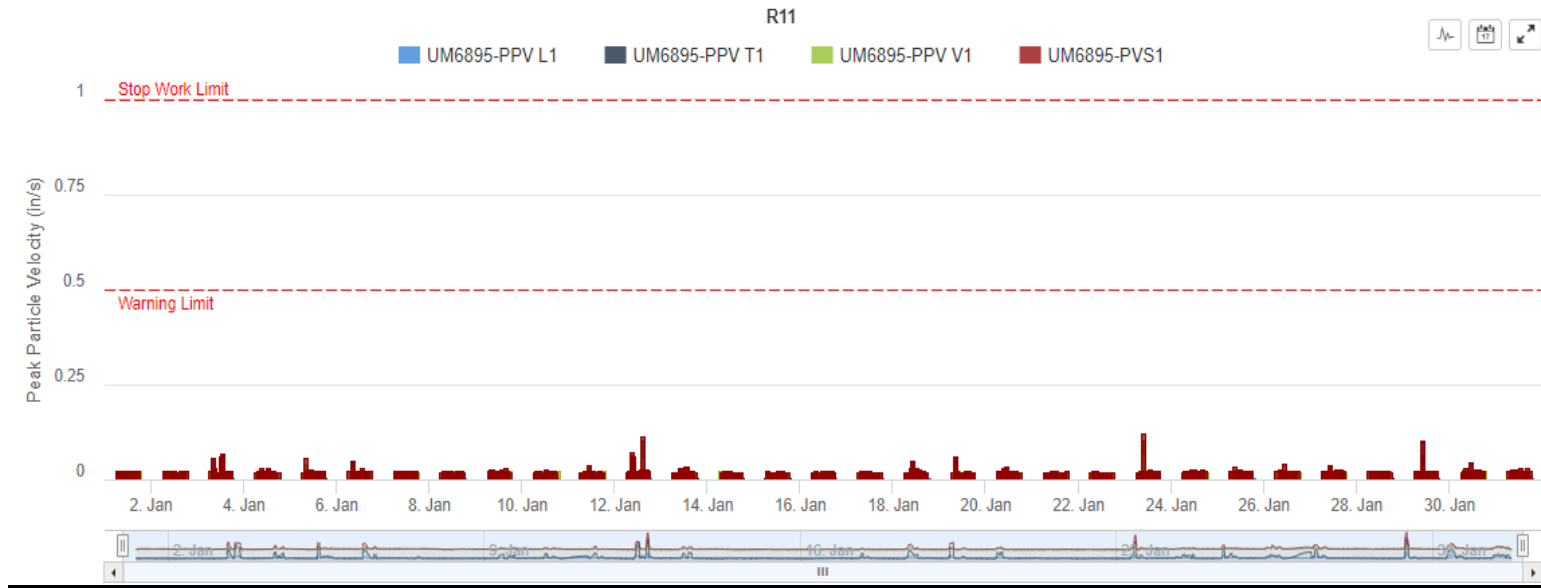
Vibration Monitor – (R09) January 23:



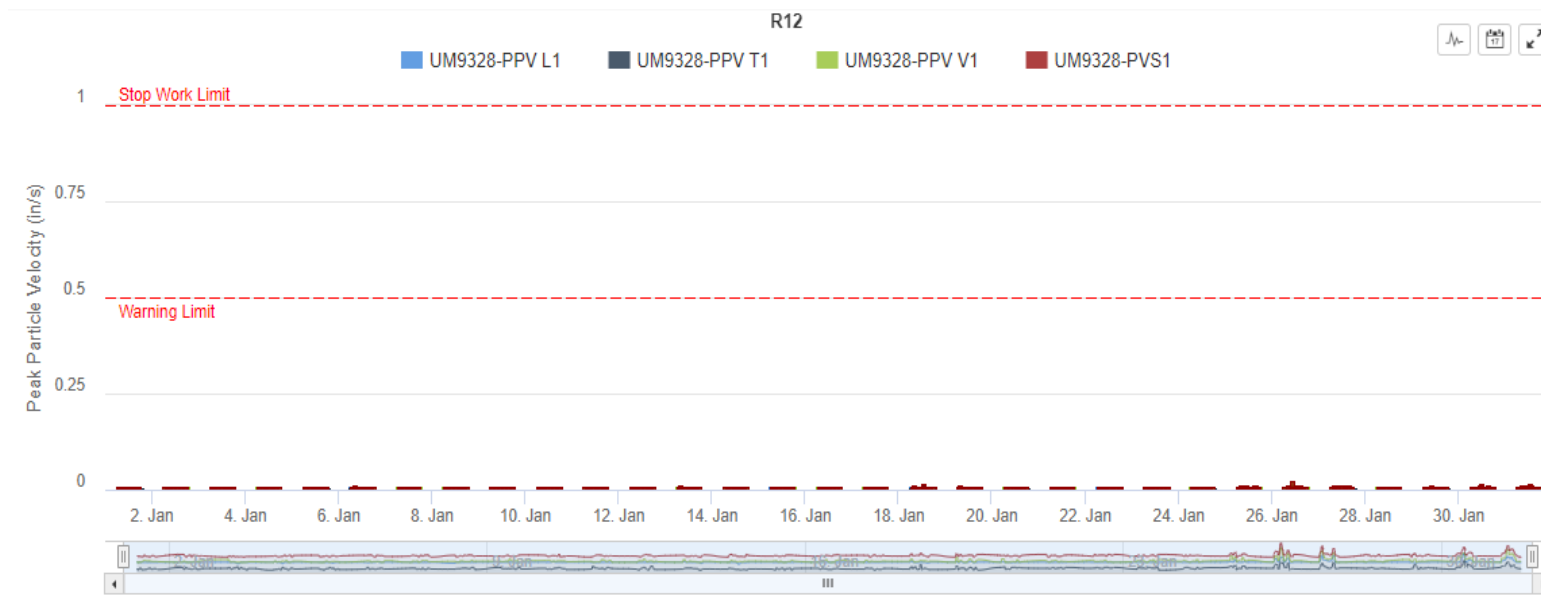
Vibration Monitor – (R10) January 23:



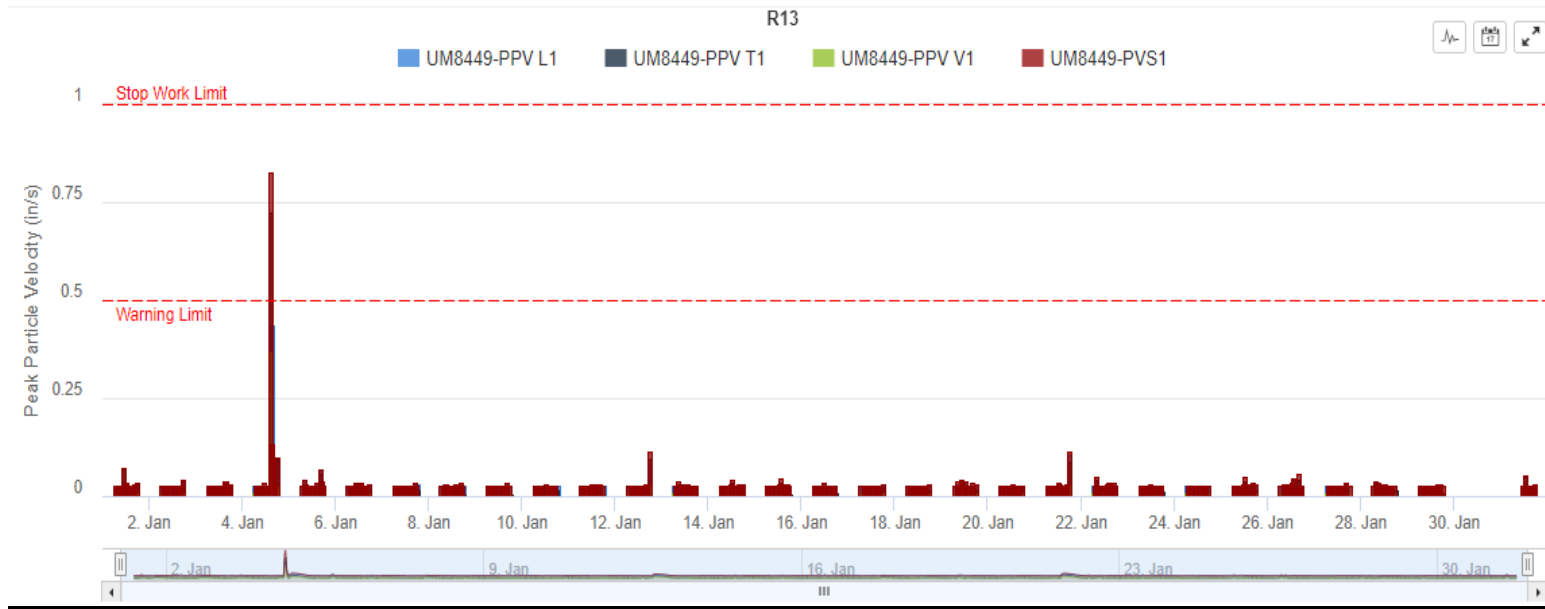
Vibration Monitor – (R11) January 23:



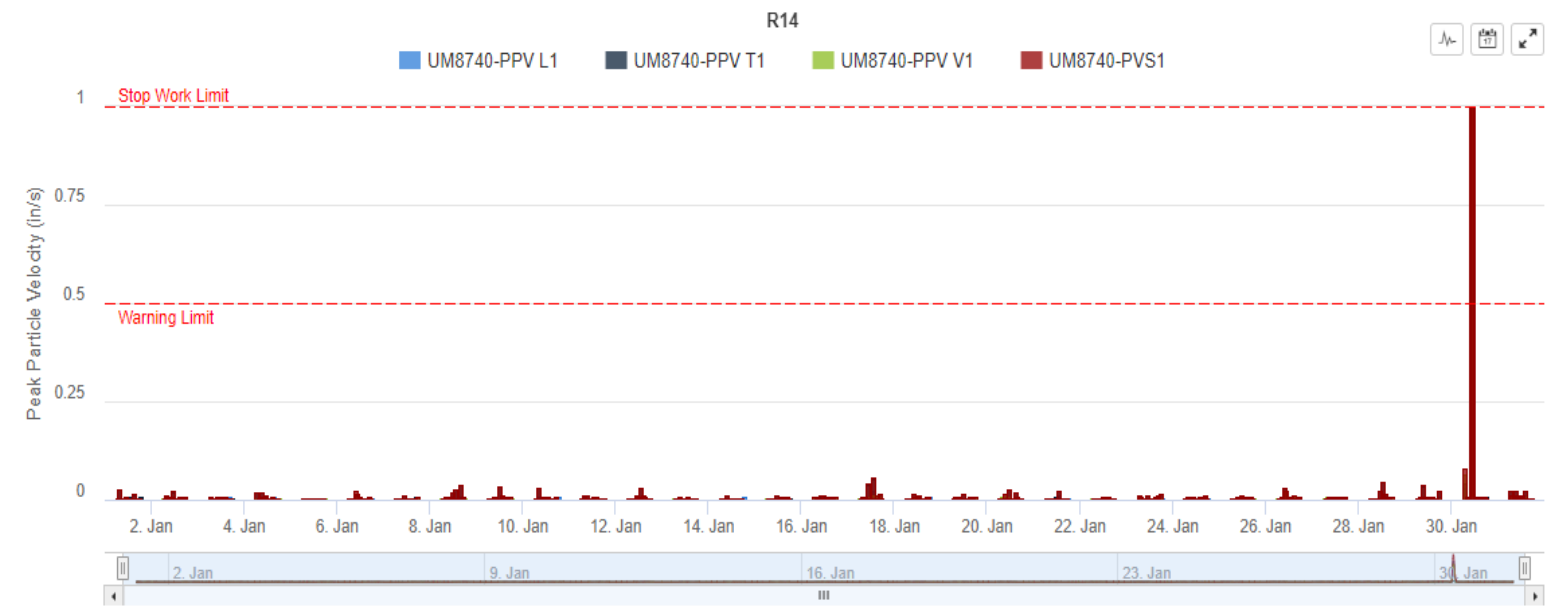
Vibration Monitor – (R12) January 23:



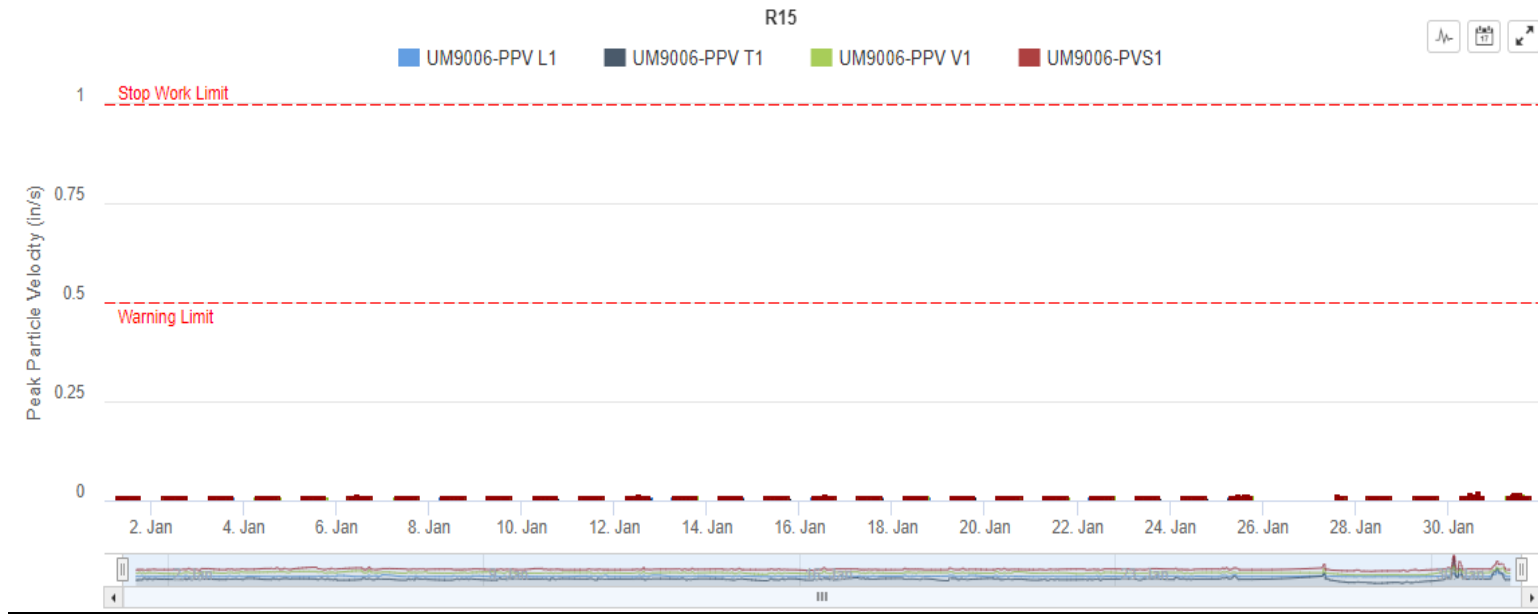
Vibration Monitor – (R13) January 23:



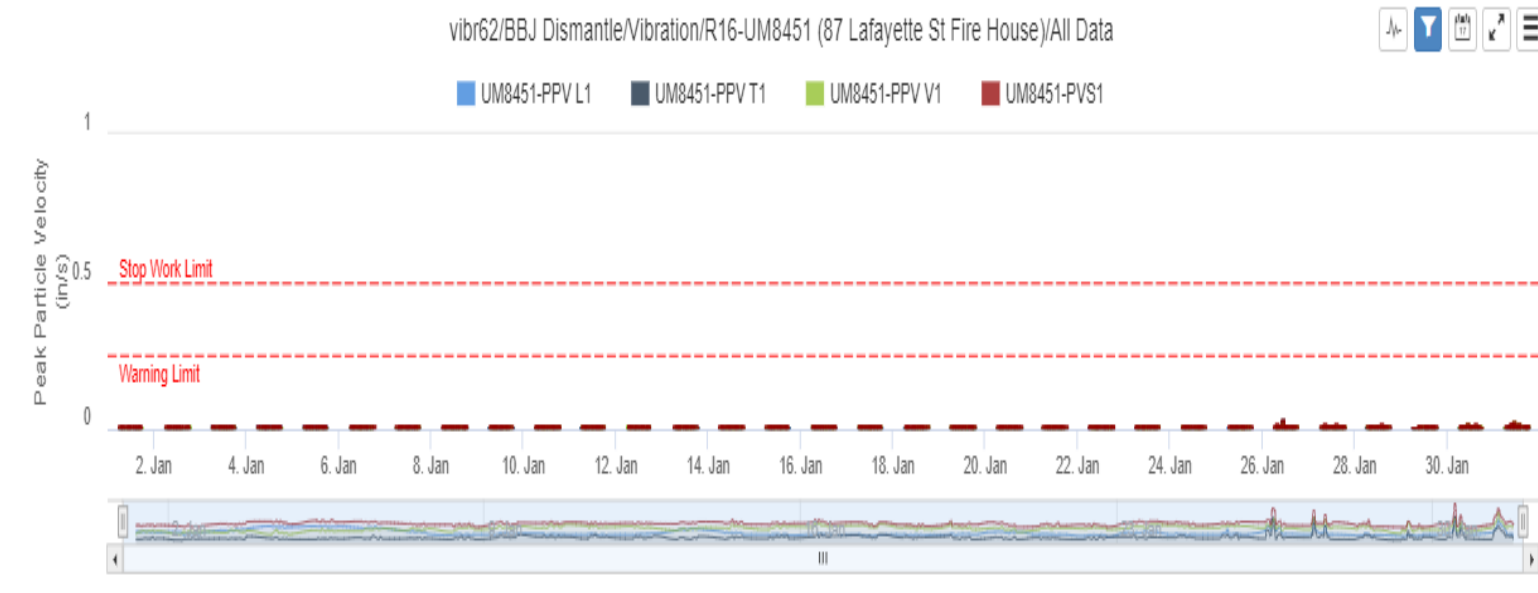
Vibration Monitor – (R14) January 23:



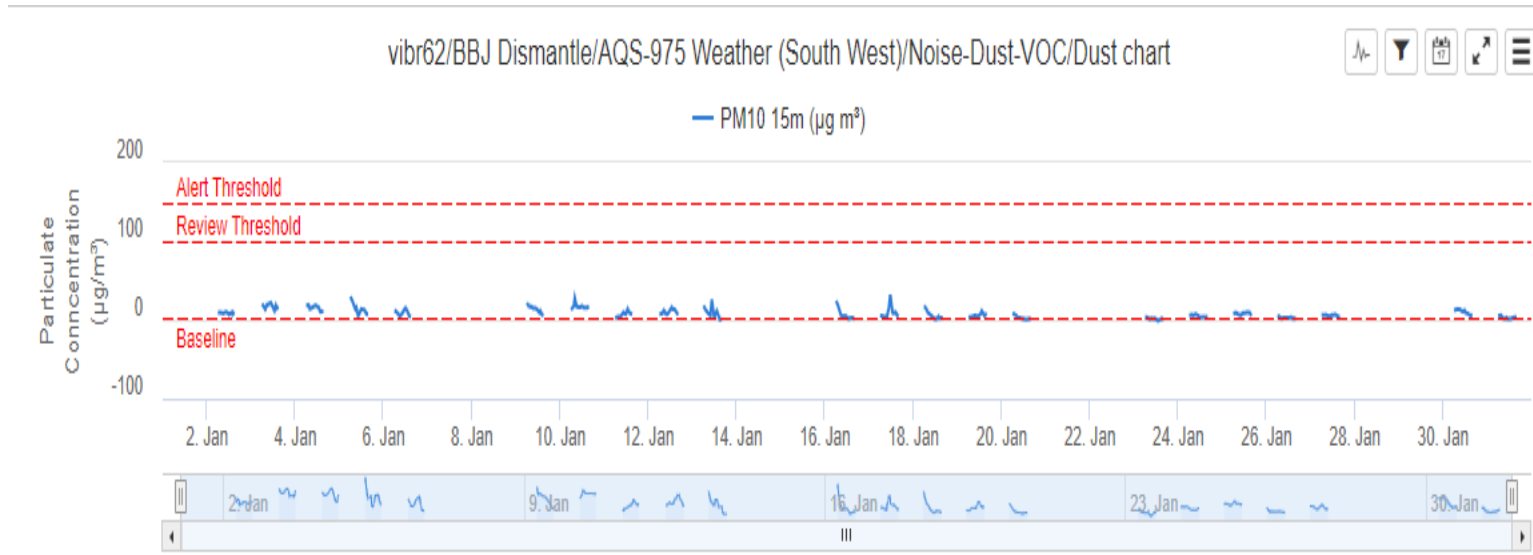
Vibration Monitor – (R15) January 23:



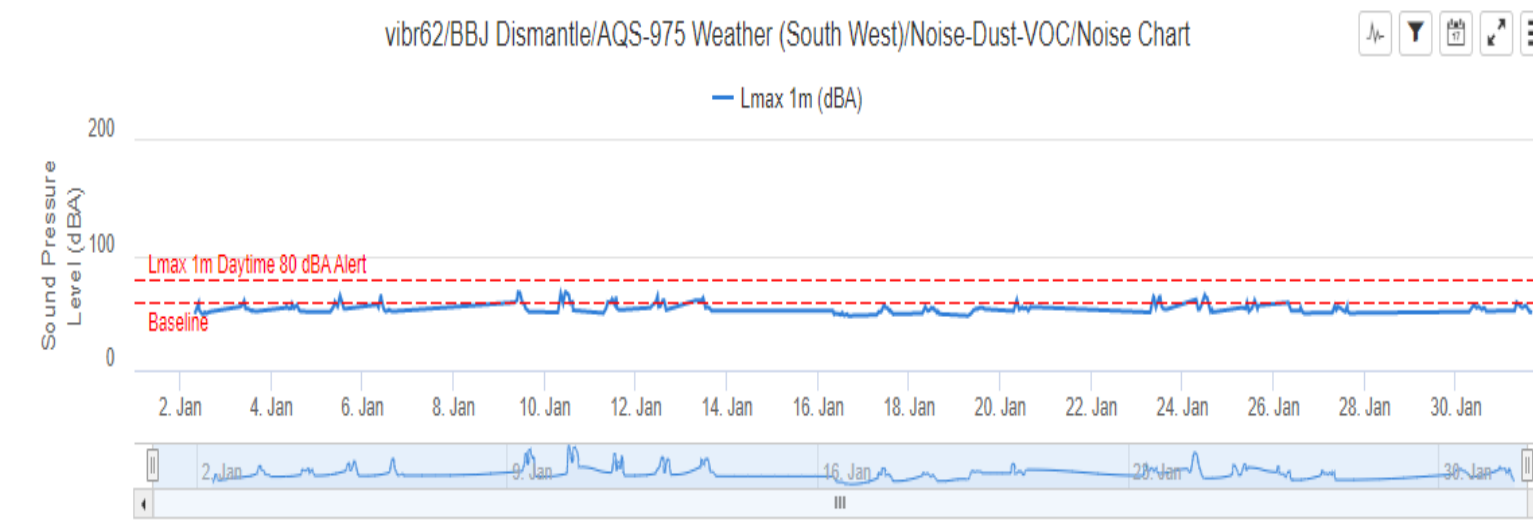
Vibration Monitor – (R16) January 23:



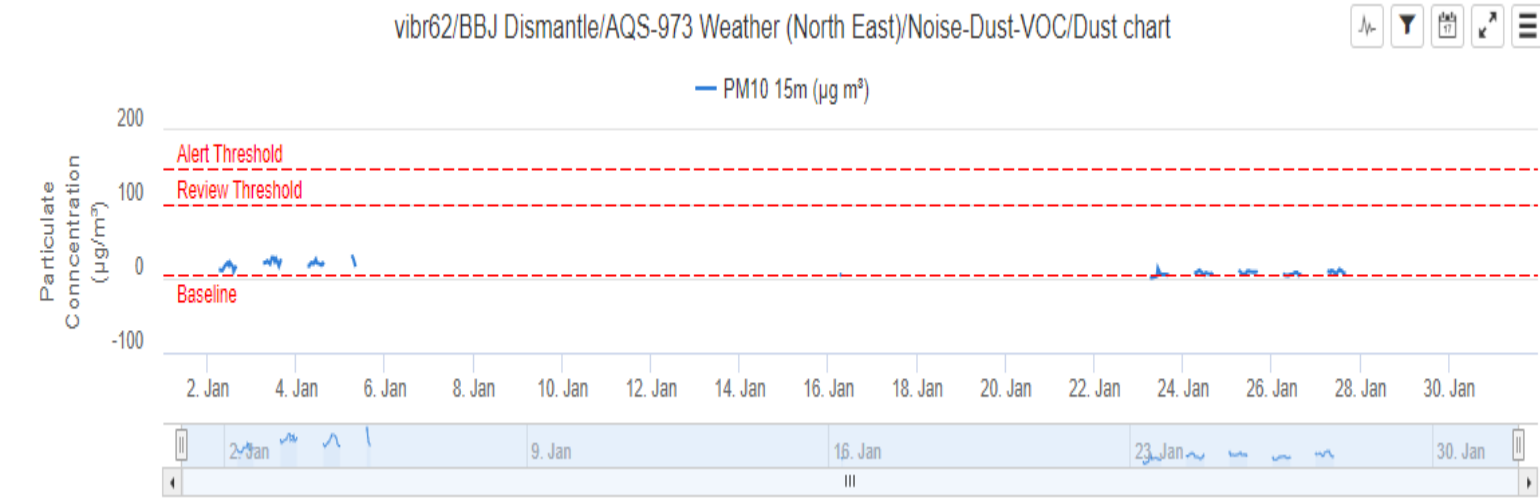
Air Quality Systems #975 – Dust Monitoring Station – January 23:



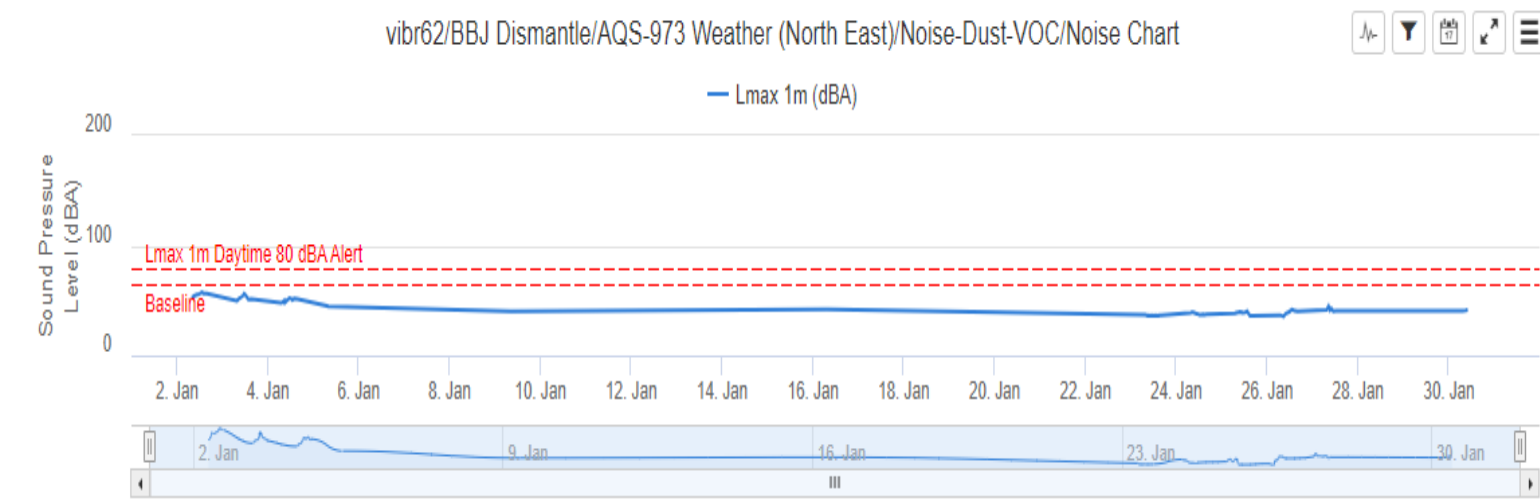
Air Quality Systems #975 – Noise Monitoring Station – January 23:



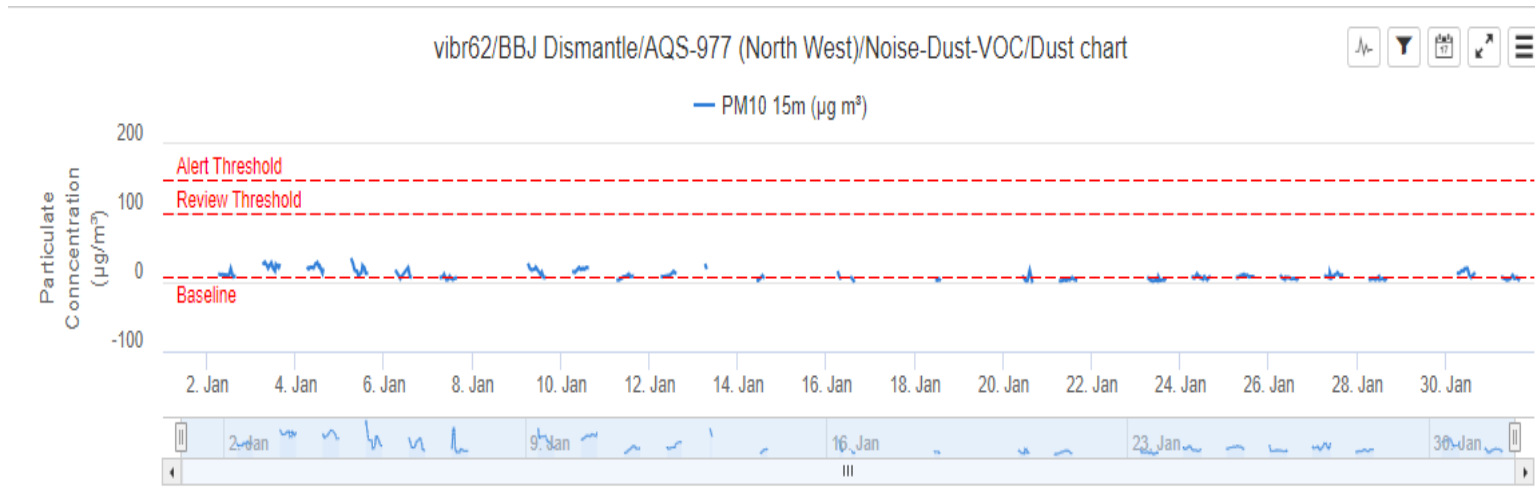
Air Quality Systems #973 – Dust Monitoring Station – January 23:



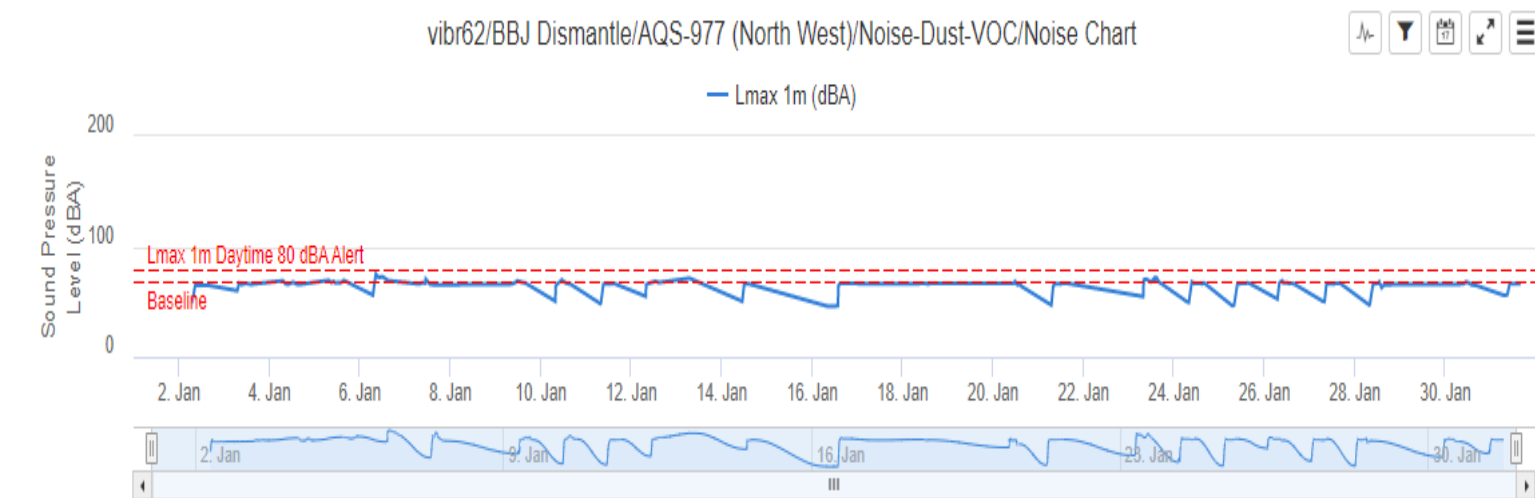
Air Quality Systems #973 – Noise Monitoring Station – January 23:



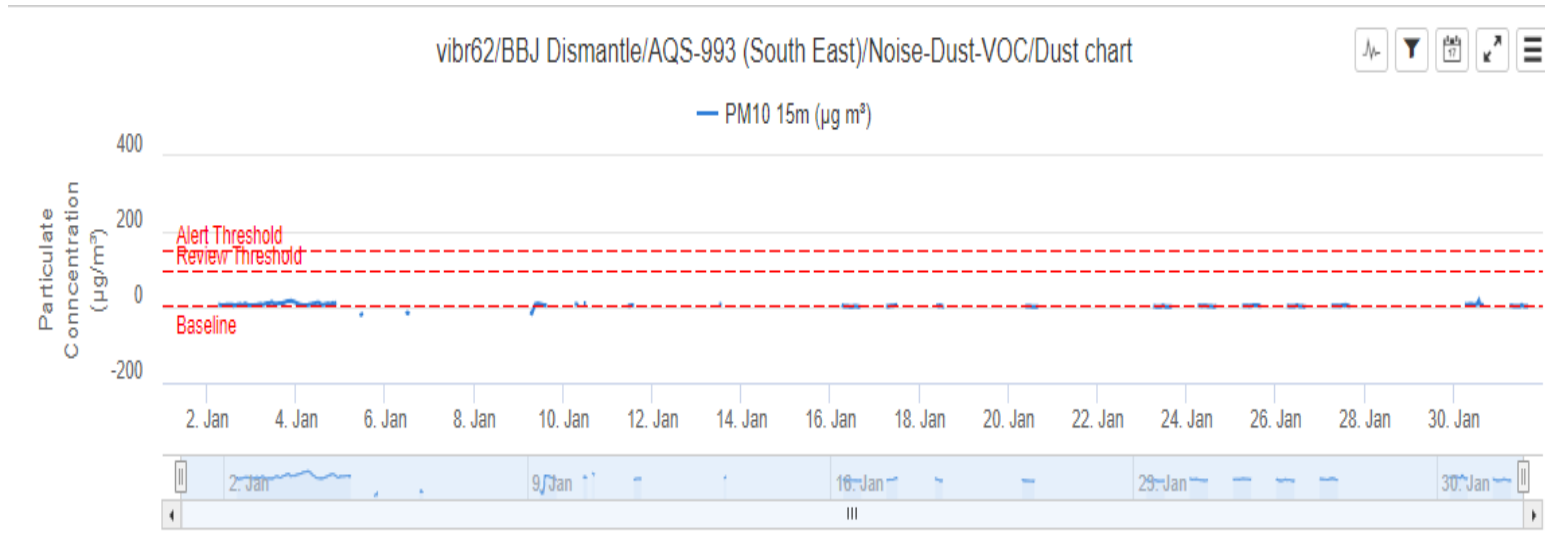
Air Quality Systems #977 – Dust Monitoring Station – January 23:



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



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



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

