

PROJECT NAME: NYC BOROUGH BASED JAILS SYSTEM, MANHATTAN
FACILITY PROJECT

AGREEMENT NUMBER: 20258806440

PROJECT OWNER: NYC DEPARTMENT OF DESIGN & CONSTRUCTION

PREPARED BY: TUTOR PERINI CORPORATION/O&G



Plan History					
Rev.	SR	Issue Date	Description	TPC Approval	DDC Approval
00		6/11/26	Environmental Monitoring Report – May 2026		
01		6/25/26	Environmental Monitoring Report – May 2026		

NOISE, VIBRATION & DUST MONITORING REPORT Number 004

DDC. Project ID:		BBJ-MN-FAC		Period Start: 05/01/26 End: 05/31/26	
Project Name:		Manhattan Borough-Based Jail Facility			
DDC Pin No.:		85025I8006KXL			
1) Community Noise Monitoring Monthly Summary					
Units to be determined (TBD) typically a 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	
25		31		7	
Noise monitoring devices are active 24/7. During work hours noise levels are compared against the applicable action levels as noted below.					
Community Noise Monitoring Excursions and Corrective Actions					
Mondays - Fridays 7:00 am – 6:00pm: 85 dBA Leq					
Mondays - Fridays 6:00 pm – 7am: 75 dBA Leq					
Saturdays and Sundays: 75 dBA Leq					
Device-Date		Leq 1hr Noise Reading before Corrective Action (DBA)		Leq 1hr Noise Reading after Corrective Action (DBA)	
972 - MAY-06-NIGHT		86.9		N/A	
972 - MAY-11-DAY		105.4		71.6	
Based on a review of site operations, construction activities were not identified as the dominant contributor to the noise exceedance. Instead, the exceedance was primarily attributed to background urban noise sources, including vehicular traffic and other off-site ambient conditions. During this period, early support of excavation activities were in progress, consisting of excavation, installation of bracing systems, and removal of existing foundations. These activities were in progress on the north side of the site, near noise monitor 998 which did not have any exceedance at this time.					

972 - MAY-12-NIGHT	78.6	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.
972 - MAY-16-NIGHT	76.1	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.
991 - MAY-06-NIGHT	91.8	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.
991 - MAY-07-NIGHT	89.6	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.
991 - MAY-07-NIGHT	89.5	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.
991 - MAY-07-NIGHT	87.6	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.
991 - MAY-09-DAY	86.1	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.
991 - MAY-09-DAY	87.1	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.
991 - MAY-09-DAY	87.9	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.
991 - MAY-09-NIGHT	79.7	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.
991 - MAY-11-DAY	90.4	74.4	Based on a review of site operations, construction activities were not identified as the dominant contributor to the noise exceedance. Instead, the exceedance was primarily attributed to background urban noise sources, including vehicular traffic and other off-site ambient conditions. During this period, early support of excavation activities were in progress, consisting of excavation, installation of bracing systems, and removal of existing foundations.
991 - MAY-18-NIGHT	76.2	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.

991 - MAY-20-NIGHT	78.2	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.
998 - MAY-06-NIGHT	78	N/A	TPOG was not on site at the time, and the exceedance was not related to construction activities.

Narrative Summary of Noise Monitoring, Excursions and Corrective Actions:

During May 2026, four noise monitoring devices were operational at the project site, continuously recording construction-related noise levels in decibels (dBA). During this period, the Design-Build Team (DBT) conducted demolition of remnant pile caps, pile extraction, secant guide wall construction, secant pile drilling, placement of secant piles, and utility capping activities along Baxter Street.

To mitigate construction noise, the DBT installed sound blankets along the perimeter construction fencing and utilized movable secondary noise barriers during drilling operations. These measures have contributed to measurable improvements in overall noise monitoring trends.

Recorded exceedances during this period recorded during construction activities were isolated, instantaneous noise peaks rather than sustained elevated noise levels. These spikes are consistent with background urban noise sources, including vehicular traffic and other off-site ambient conditions, which can contribute to temporary exceedances unrelated to construction activities.

Periods where the monitoring graphs display a constant flat or horizontal line represent times when the monitors experienced power loss or inactivity. All noise monitoring devices are inspected daily and calibrated weekly to maintain accuracy. Between Friday, May 23 and Tuesday, May 26, several sensors experienced power loss due to inactivity during the Memorial Day weekend. Upon returning to the site on Tuesday, May 26, all batteries were replaced, and the sensors were restored to full operational status.

The DBT has implemented additional measures to improve data continuity and equipment reliability, including increasing the frequency of daily inspections, maintaining fully charged backup batteries on-site for quick replacement, and expanding battery capacity within the monitoring units. DBT will continue to refine these processes and has already observed improvements in monitoring performance.

2) Community Vibration Monitoring Monthly Summary

Units inches per second (in/sec)

Number of Workdays in a Month	Number of Vibration Monitoring Days in a Month	Number of Days with Construction Vibration Levels above Stop Work Levels by Month	Comments
25	31	3	No action required. Vibration caused by exercise equipment and free weights.

Community Vibration Monitoring Excursions and Corrective Actions

Action Level = 0.25 in/sec

Stop Work Level = 0.5 in/sec

Date-Device-Location	Maximum Vibration Level before Corrective Action (in/sec)	Maximum Vibration Level after Corrective Action (in/sec)	Corrective Action
MAY 07 - R10 – 87 Baxter St	0.86	N/A	No action required. Data indicates movement did not occur.
MAY 18 - R19 – 100 Centre St	5.478	N/A	No action required. Exceedance caused by routine maintenance of equipment.
MAY 20 - R19 – 100 Centre St	8.453	N/A	No action required. Exceedance caused by routine maintenance of equipment.

Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions:

During the month of May 2026, fifteen out of sixteen vibration monitoring devices were in continuous operation at the project site recording construction-related vibration levels in units of (in/sec).

Three stop work exceedances occurred in May.

- The R17 vibration monitor at 100 Centre Street was temporarily offline due to a modem failure. The modem was replaced on May 21, 2026. A Vibranalysis site representative was present during the outage and collected raw data directly at the device location. Review of the raw data indicates that no vibration exceedances occurred during this period for the month.
- The R19 vibration monitor was initially installed in an area prone to elevated vibration levels. On May 18, a technician performed routine service and maintenance in preparation for relocating the unit; this activity triggered a limit reading. On May 20, the technician relocated the monitor, which also resulted in a limit reading.
- The vibration monitor R10 showed exceedance on May 7th may have been caused by non-construction-related external factors within the property.

3) Community Dust Monitoring Monthly Summary

TWA – Time Weighted Average

ug/m³ – micrograms per cubic meter

Number of Workdays in a Month	Number of Dust Monitoring Days in a Month	Number of Days with Dust Concentrations above Action Concentrations by Month	Comments
25	31	0	Dust Monitoring was performed during work hours.

Community Air Monitoring Excursions and Corrective ActionsAction Concentration = 100 ug/m³ 15 minute TWA above background concentrationStop 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 Dust Monitoring, Excursions and Corrective Actions:

During the month of May 2026, a total of Six (6) dust monitoring devices were in continuous operation at the project site recording construction-related levels of Particulate Matter (PM10)

From May 1 through May 31, the monitoring devices were operational; however, data was not recorded on a few days due to battery depletion in certain units. The equipment was promptly restored to service following battery replacement and resumed normal operation thereafter.

The DBT has implemented additional measures to improve data continuity and equipment reliability, including increasing the frequency of daily inspections, maintaining fully charged backup batteries on-site for quick replacement, and expanding battery capacity within the monitoring units. DBT will continue to refine these processes and has already observed improvements in monitoring performance.

No stop work level exceedances took place this month.

4) Monitoring Well Monthly Summary

Unit is measured in 'feet'

Number of Workdays in a Month	Number of Monitoring Days in a Month	Number of Days with Exceedances above Action Concentrations by Month	Comments
25	0	0	Monitoring wells are not installed on site. Therefore, there are no readings

Community Monitoring Well Excursions and Corrective Actions

Alert Level = 2.0 Feet

Stop Work Level = 5.0 Feet

Date: Time	Maximum Level before Corrective Action (feet)	Maximum Level after Corrective Action (feet)	Corrective Action
N/A	N/A	N/A	N/A

Narrative Summary of Monitoring Well, Excursions and Corrective Actions:

Groundwater monitoring wells are not required at this time and have not been installed to date; therefore, no monitoring data is currently available.

Monitoring Reports:

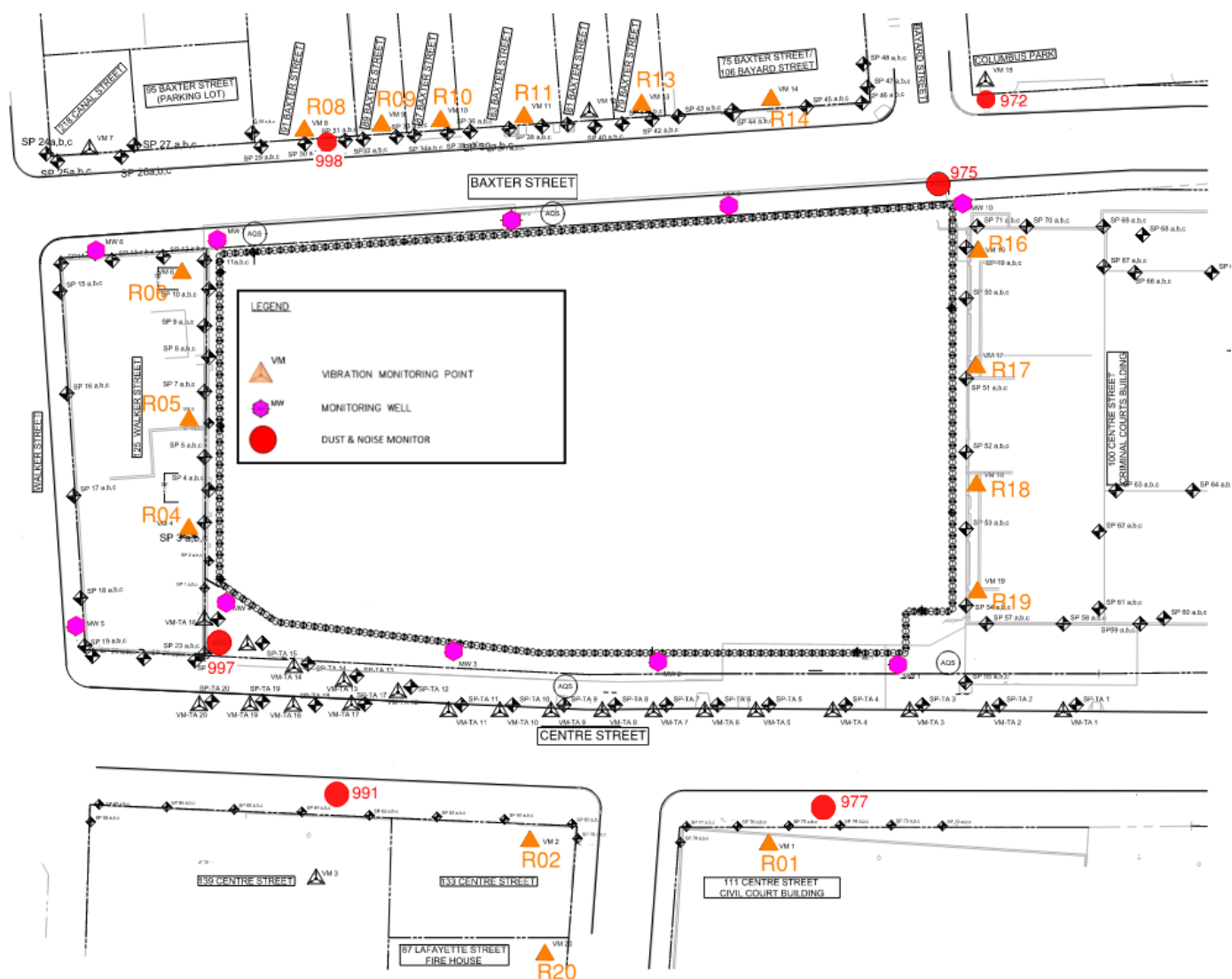
ATTACHMENTS:

1 – Map of monitoring station/locations

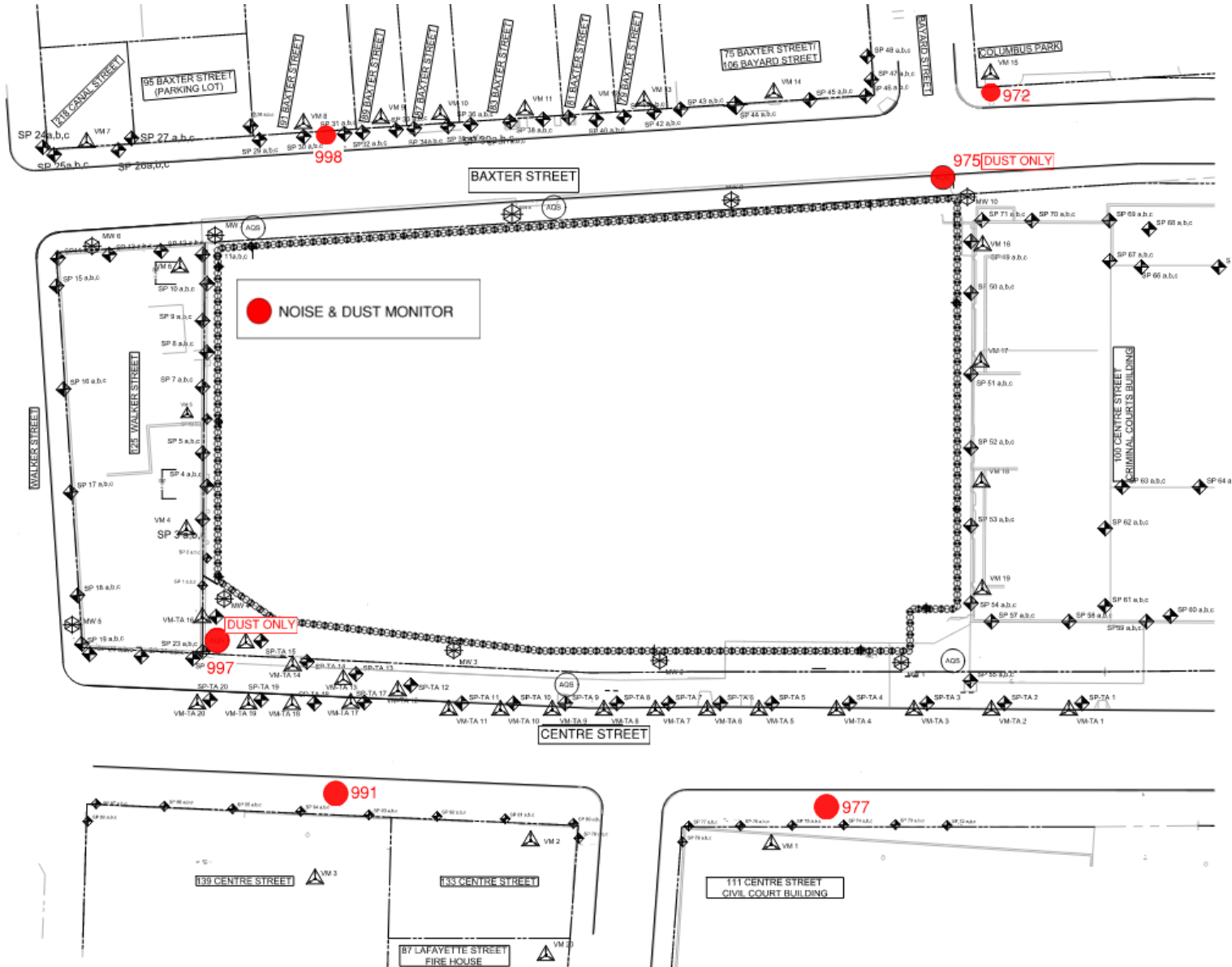
2 – Data Plots

- Dust Monitor Data Graphs
- Noise Monitor Data Graphs
- Vibration Monitor Data Graphs

3 – Baseline Reference



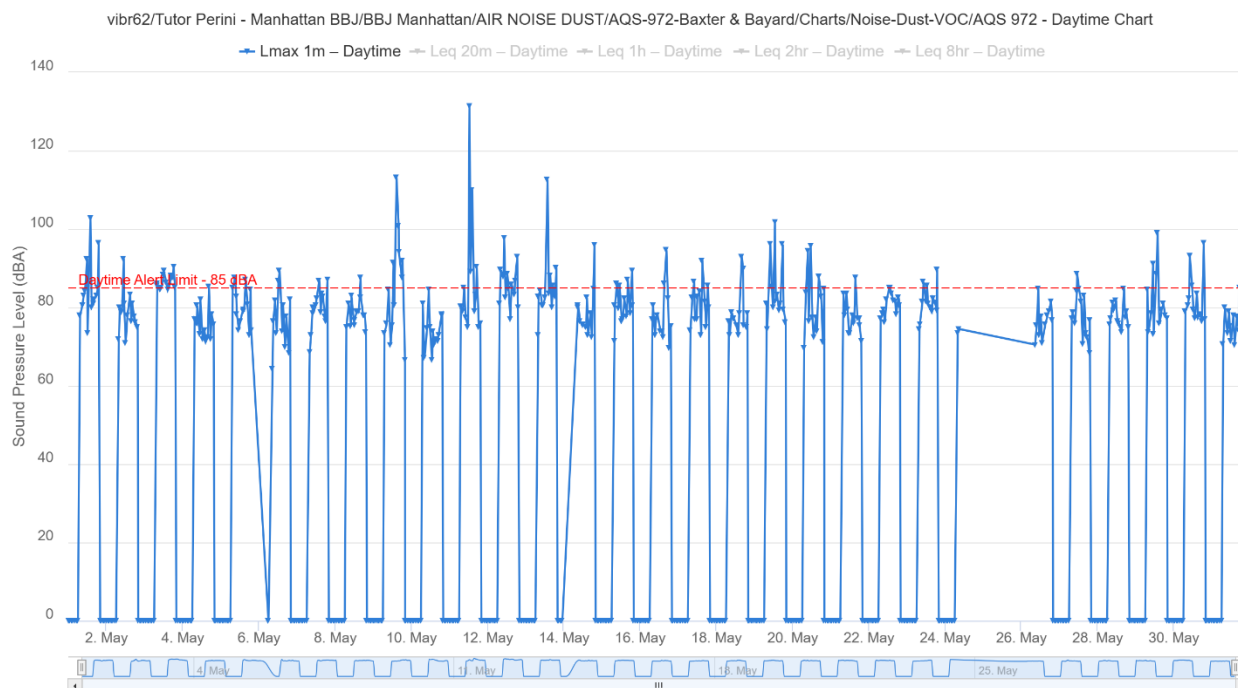
NOISE METER LOCATIONS



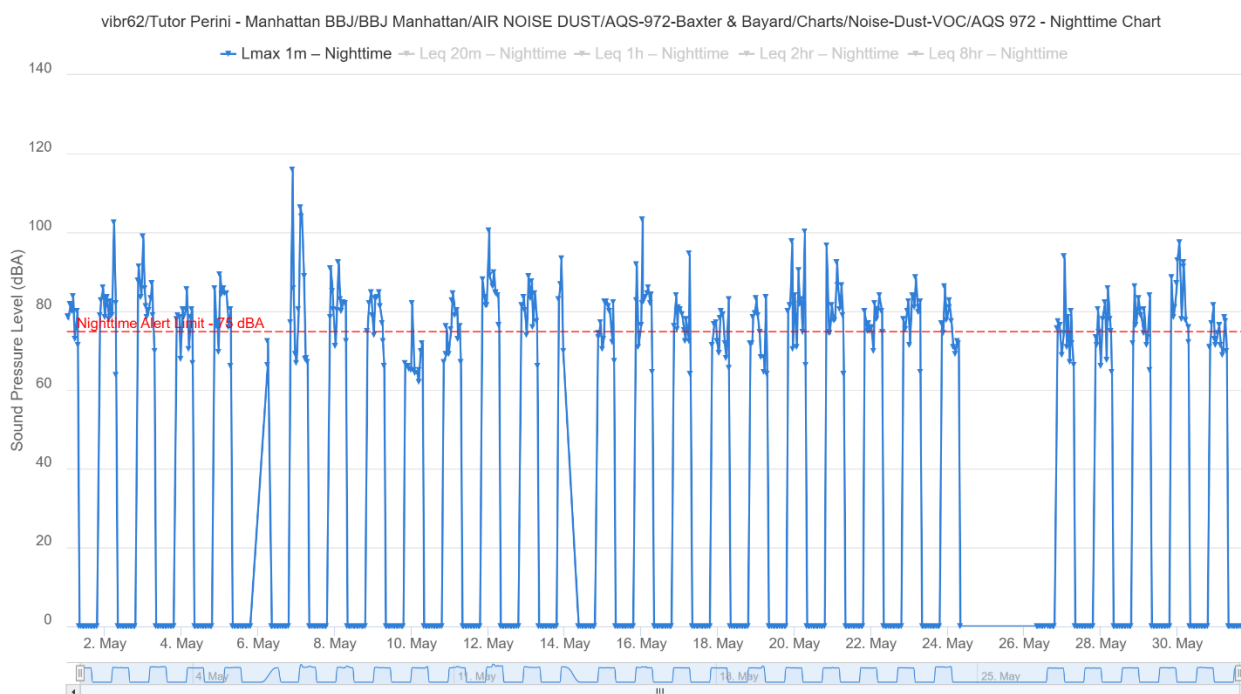
NOISE GRAPHS

Device #972 – Noise Monitoring Station

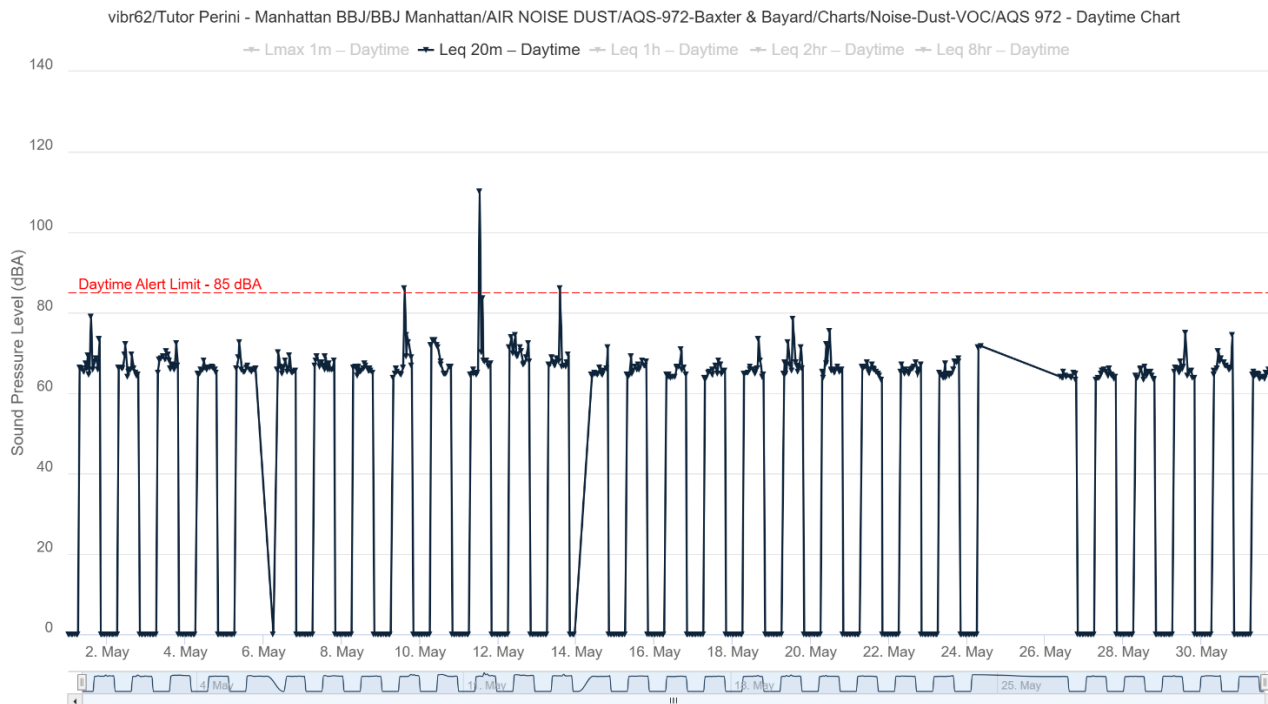
Noise Monitoring Station #972 Lmax – Daytime



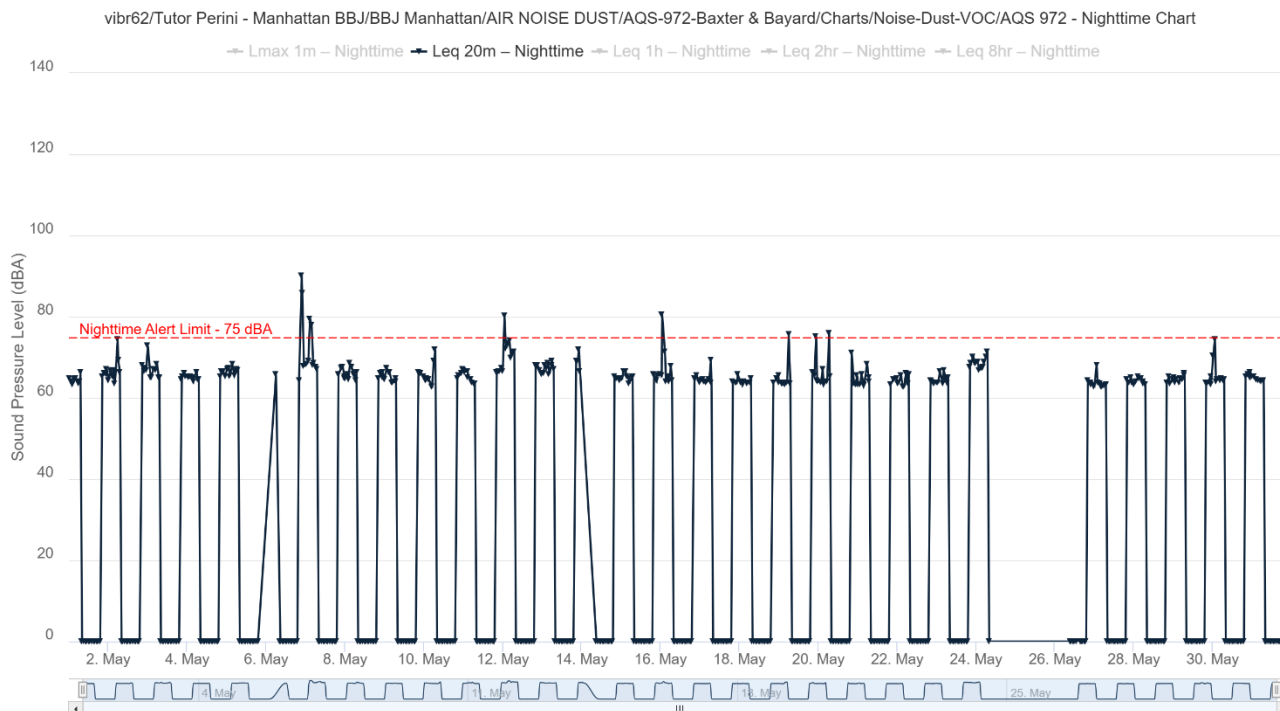
Noise Monitoring Station #972 Lmax – Nighttime



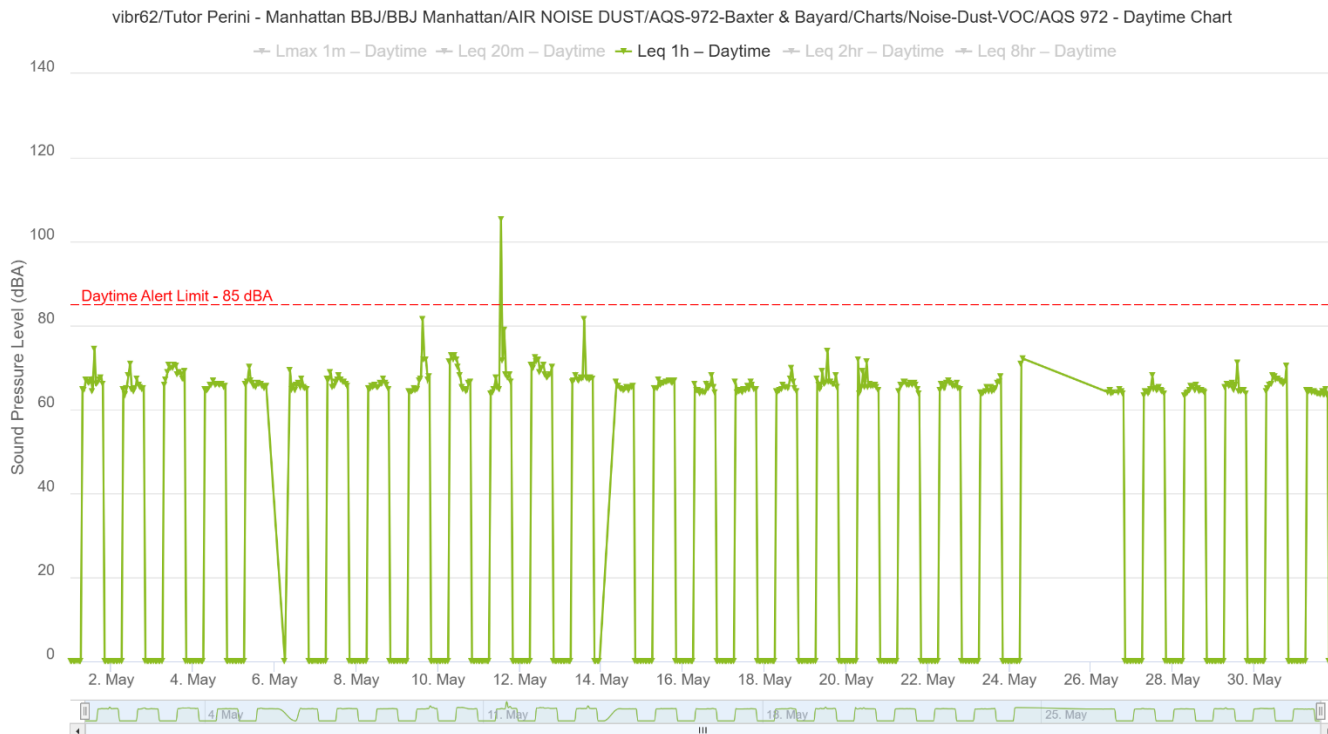
Noise Monitoring Station #972 Leq – 20 minute - Daytime



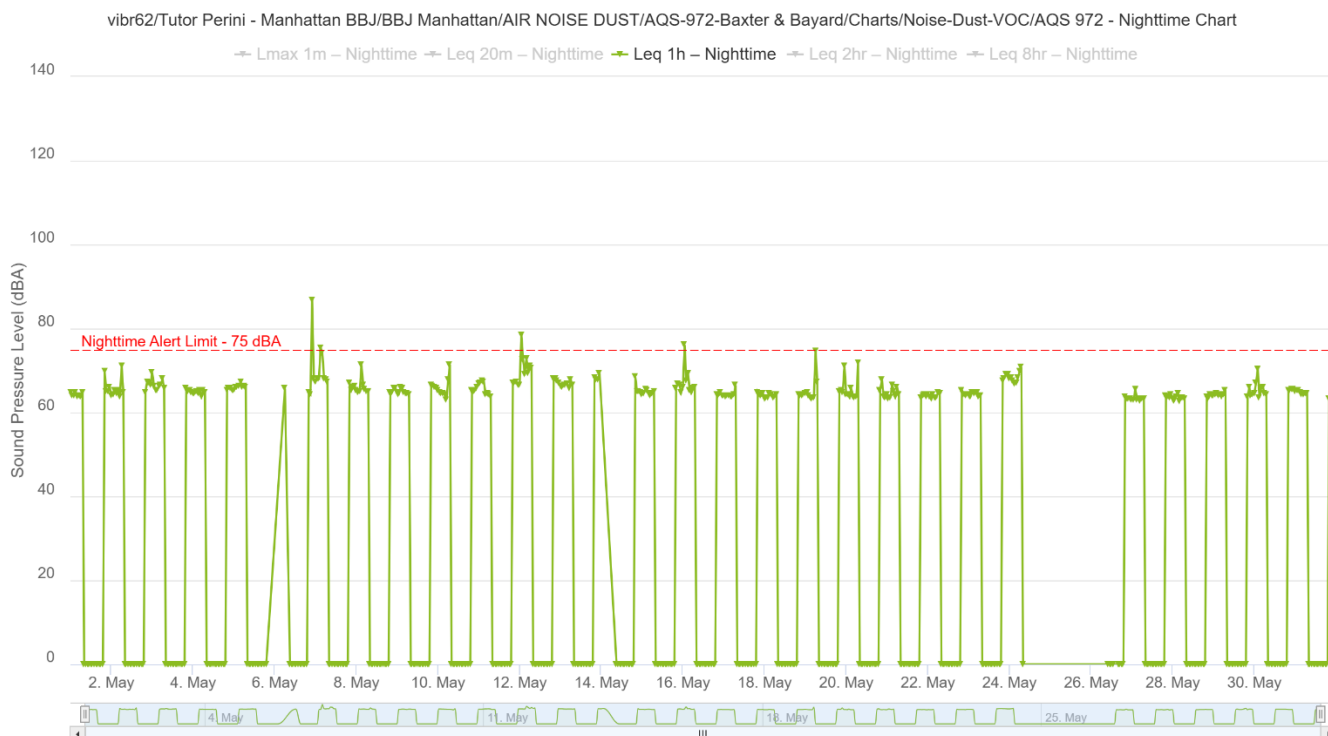
Noise Monitoring Station #972 Leq – 20 minute - Nighttime



Noise Monitoring Station #972 Leq – 1 hour - Daytime

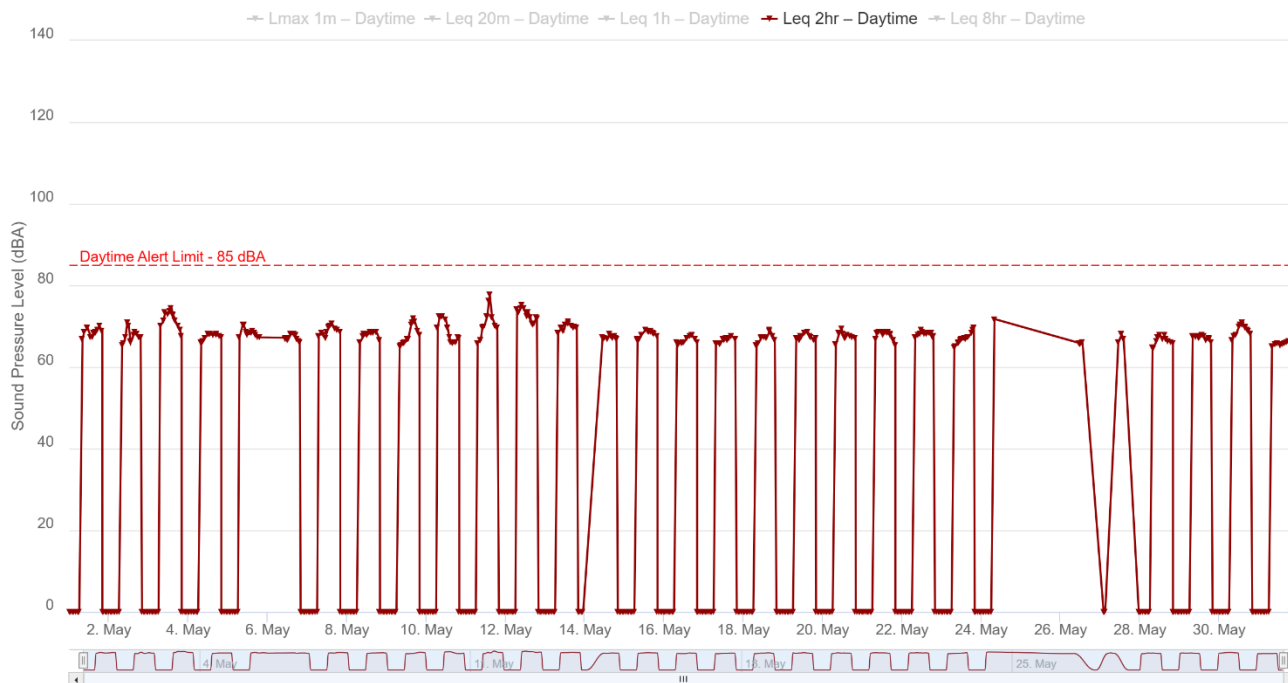


Noise Monitoring Station #972 Leq – 1 hour - Nighttime



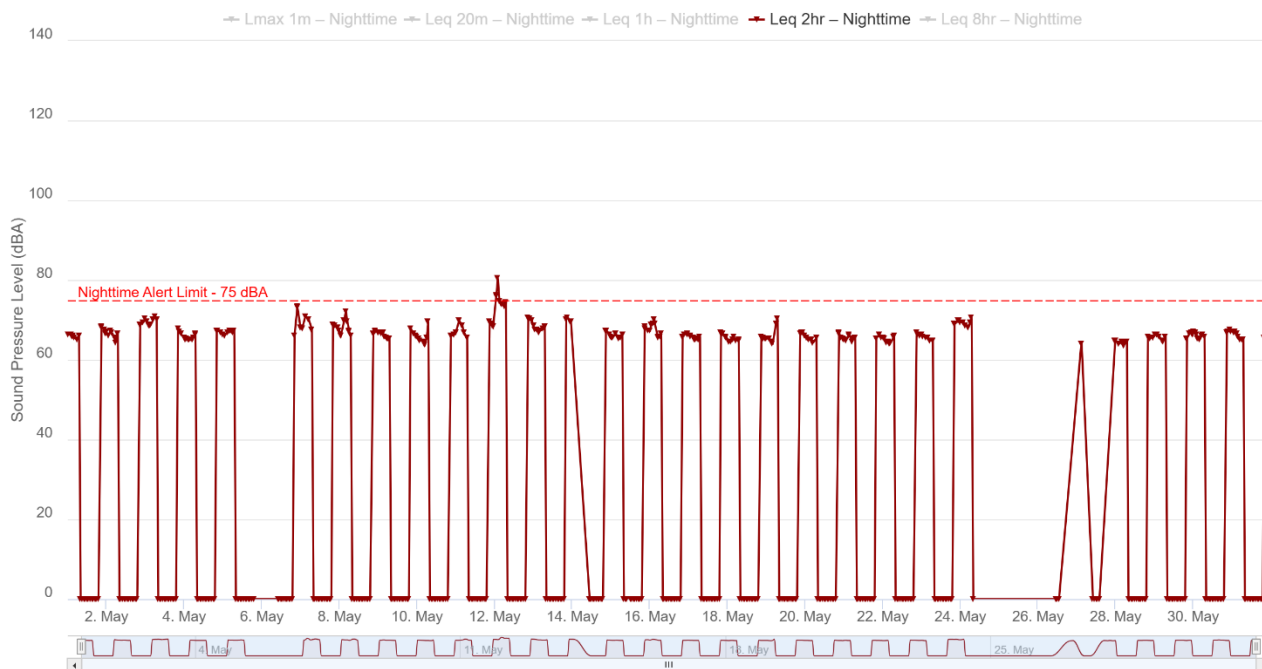
Noise Monitoring Station #972 Leq – 2 hour - Daytime

vibr62/Tutor Perini - Manhattan BBJ/BBJ Manhattan/AIR NOISE DUST/AQS-972-Baxter & Bayard/Charts/Noise-Dust-VOC/AQS 972 - Daytime Chart

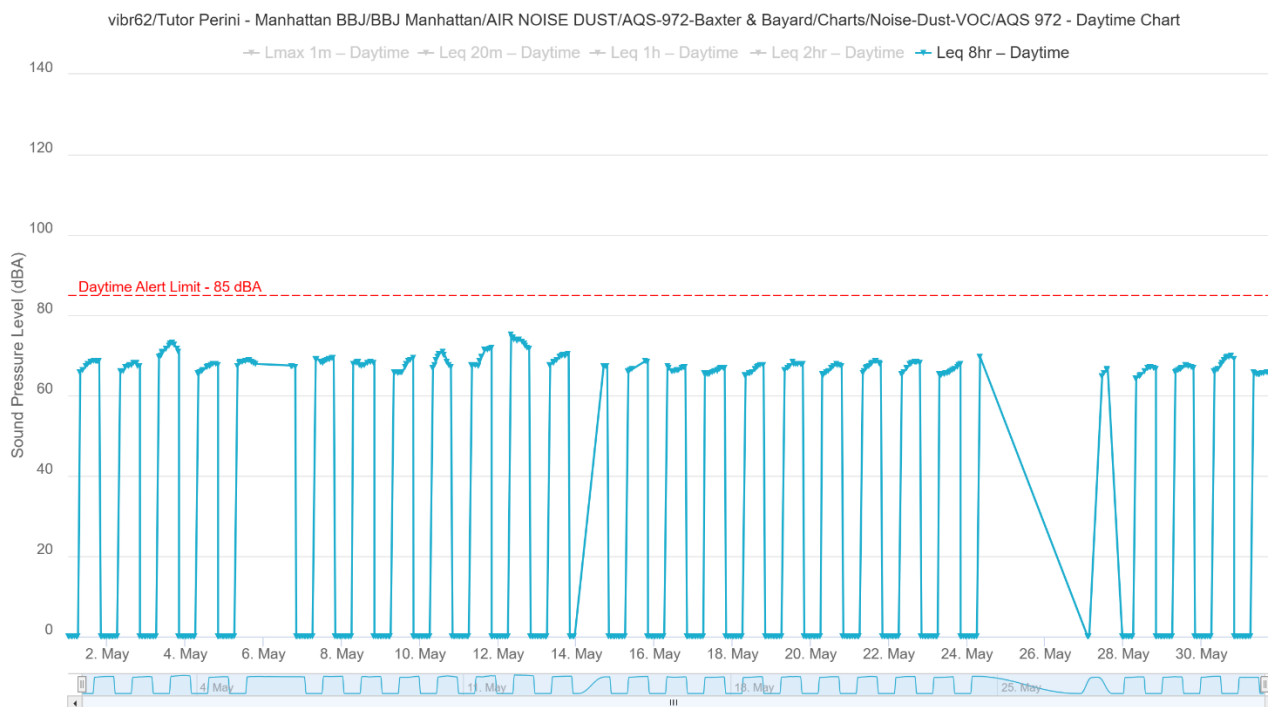


Noise Monitoring Station #972 Leq – 2 hour – Nighttime

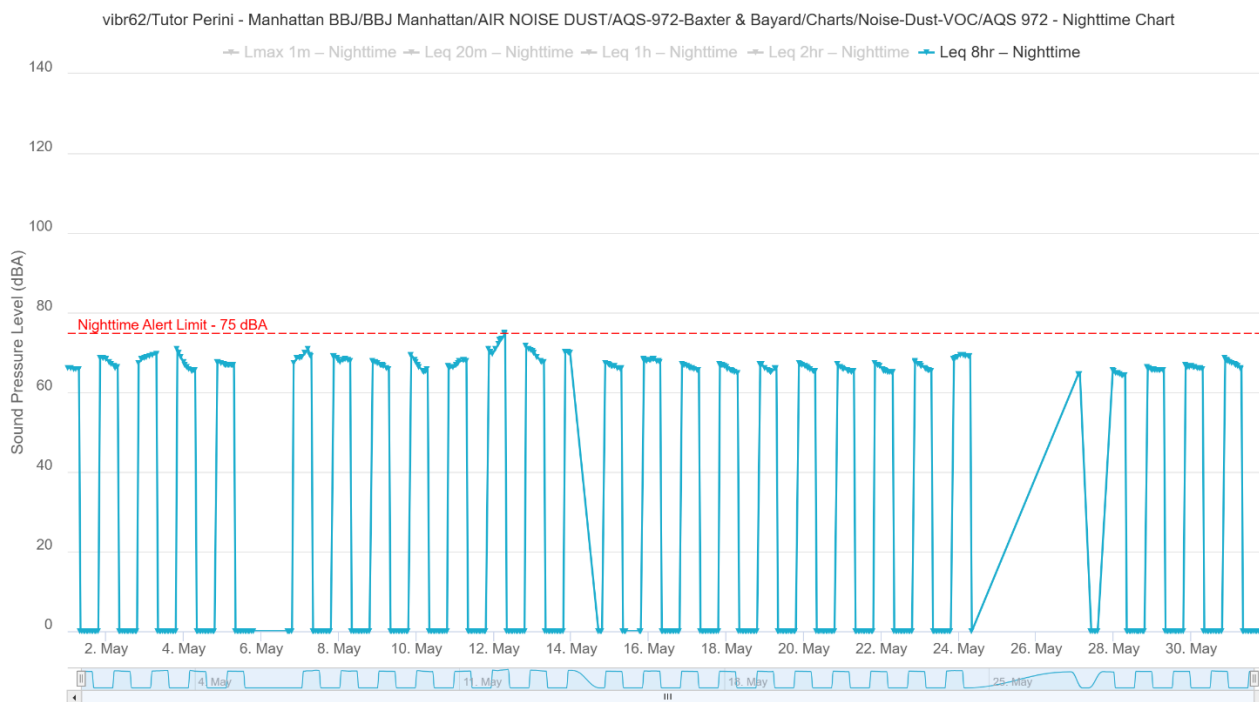
vibr62/Tutor Perini - Manhattan BBJ/BBJ Manhattan/AIR NOISE DUST/AQS-972-Baxter & Bayard/Charts/Noise-Dust-VOC/AQS 972 - Nighttime Chart

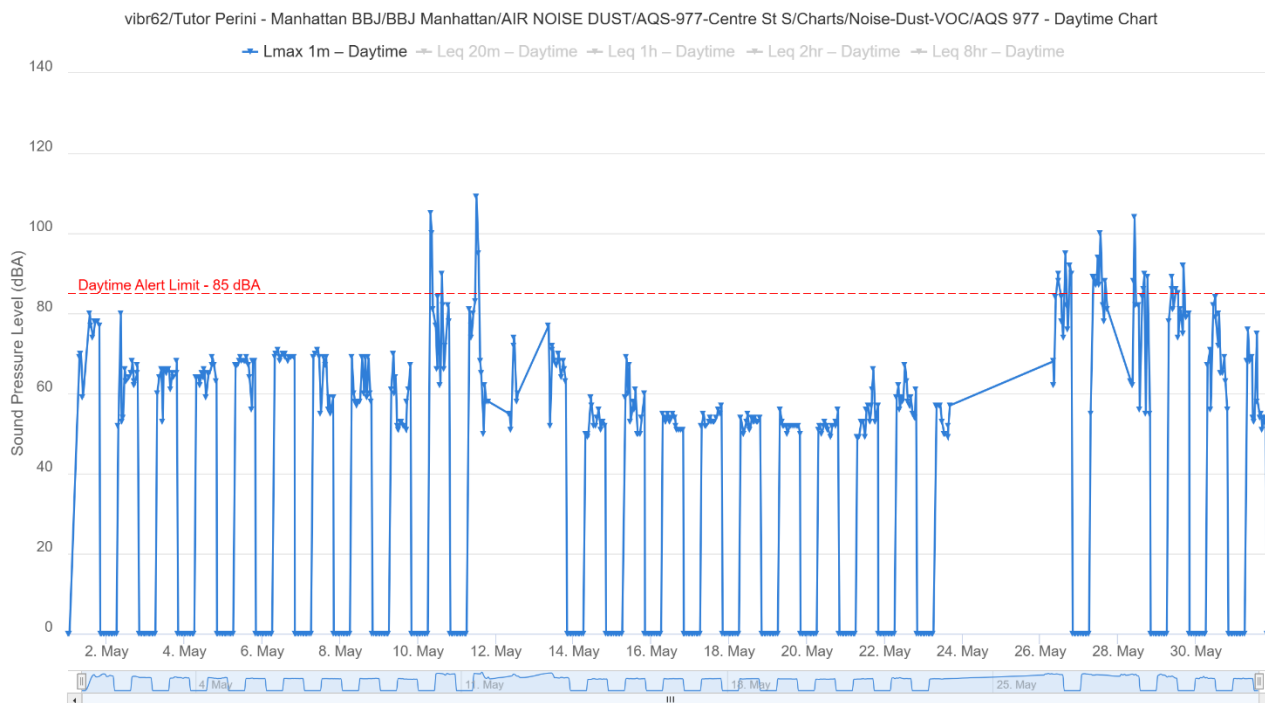
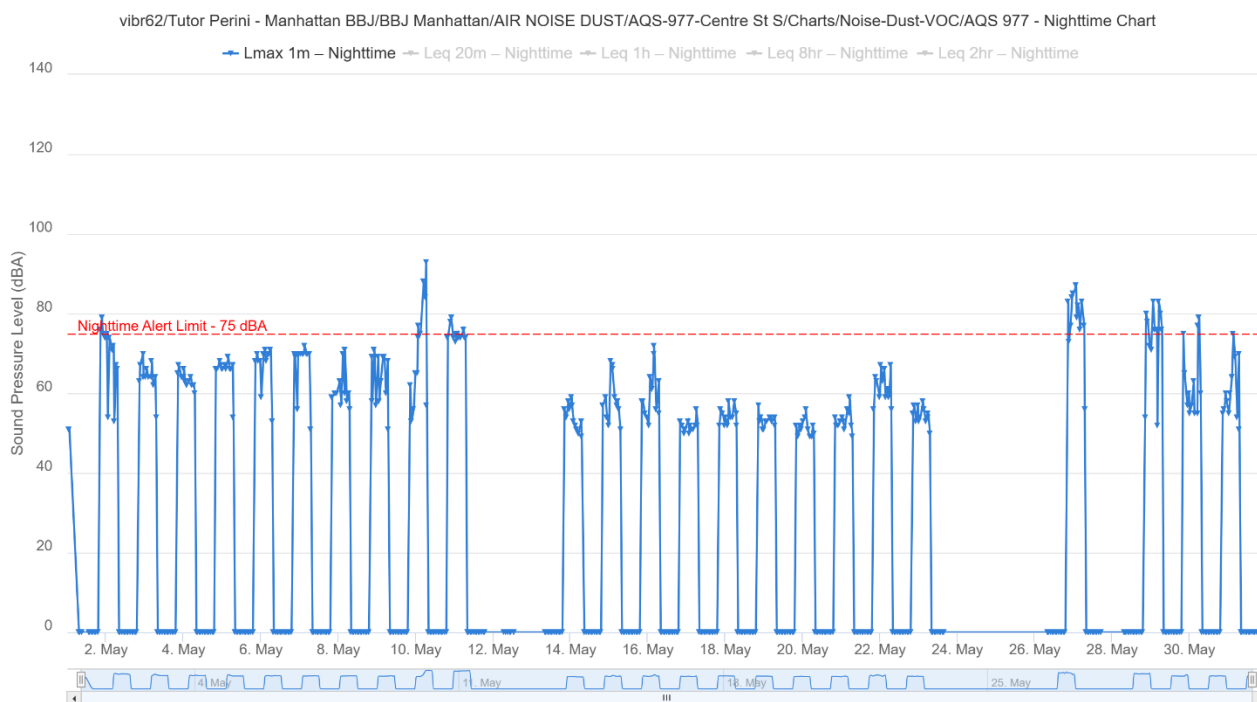


Noise Monitoring Station #972 Leq – 8 hour - Daytime

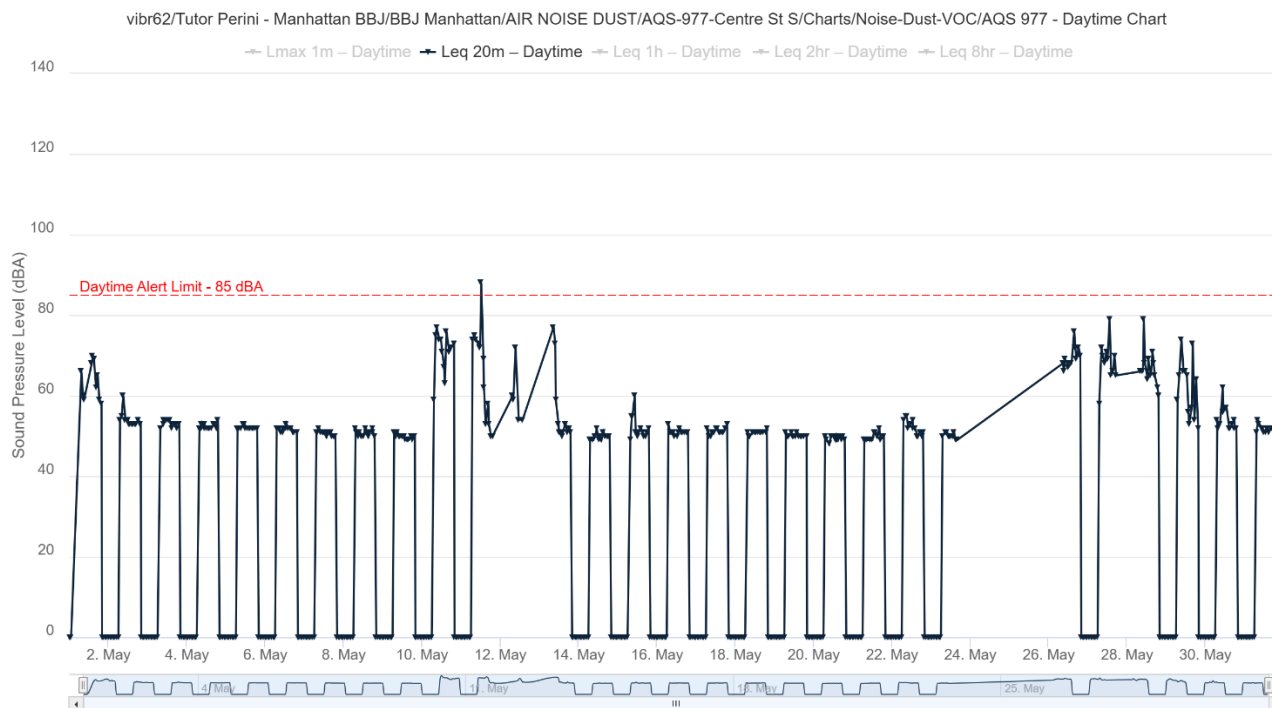


Noise Monitoring Station #972 Leq – 8 hour - Nighttime

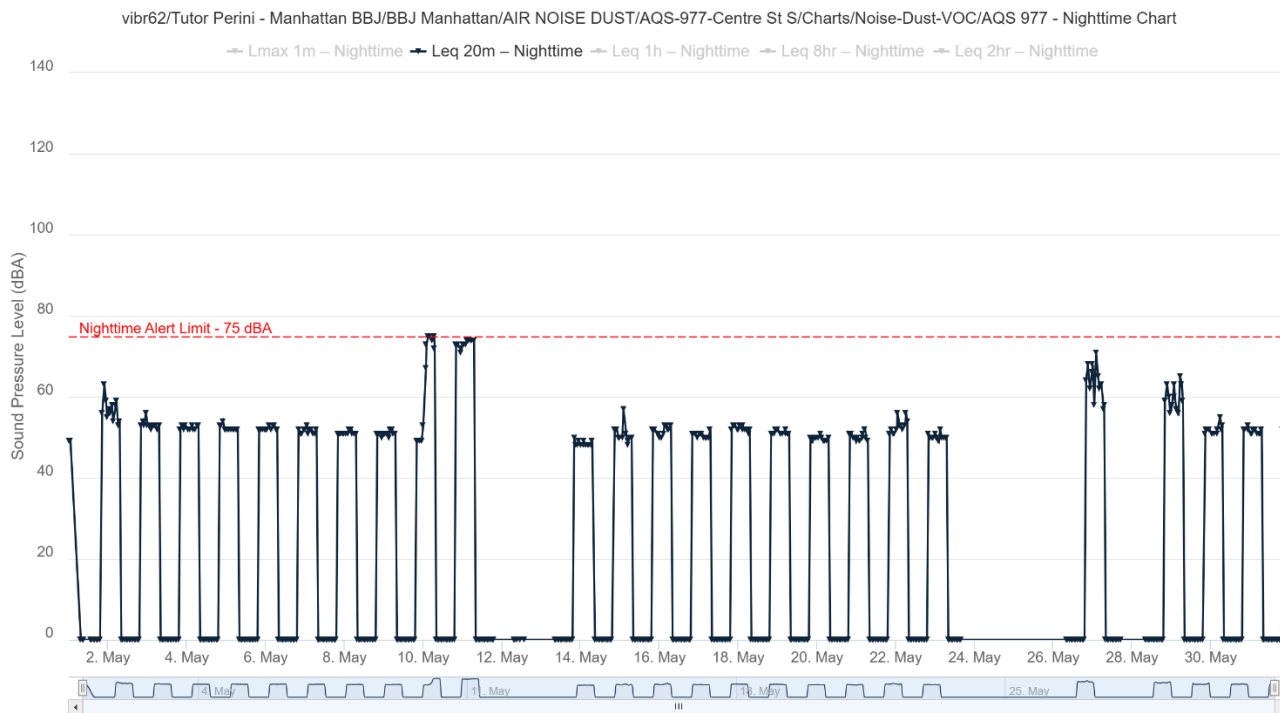


Device #977 – Noise Monitoring Station**Noise Monitoring Station #977 Lmax - Daytime****Noise Monitoring Station #977 Lmax - Nighttime**

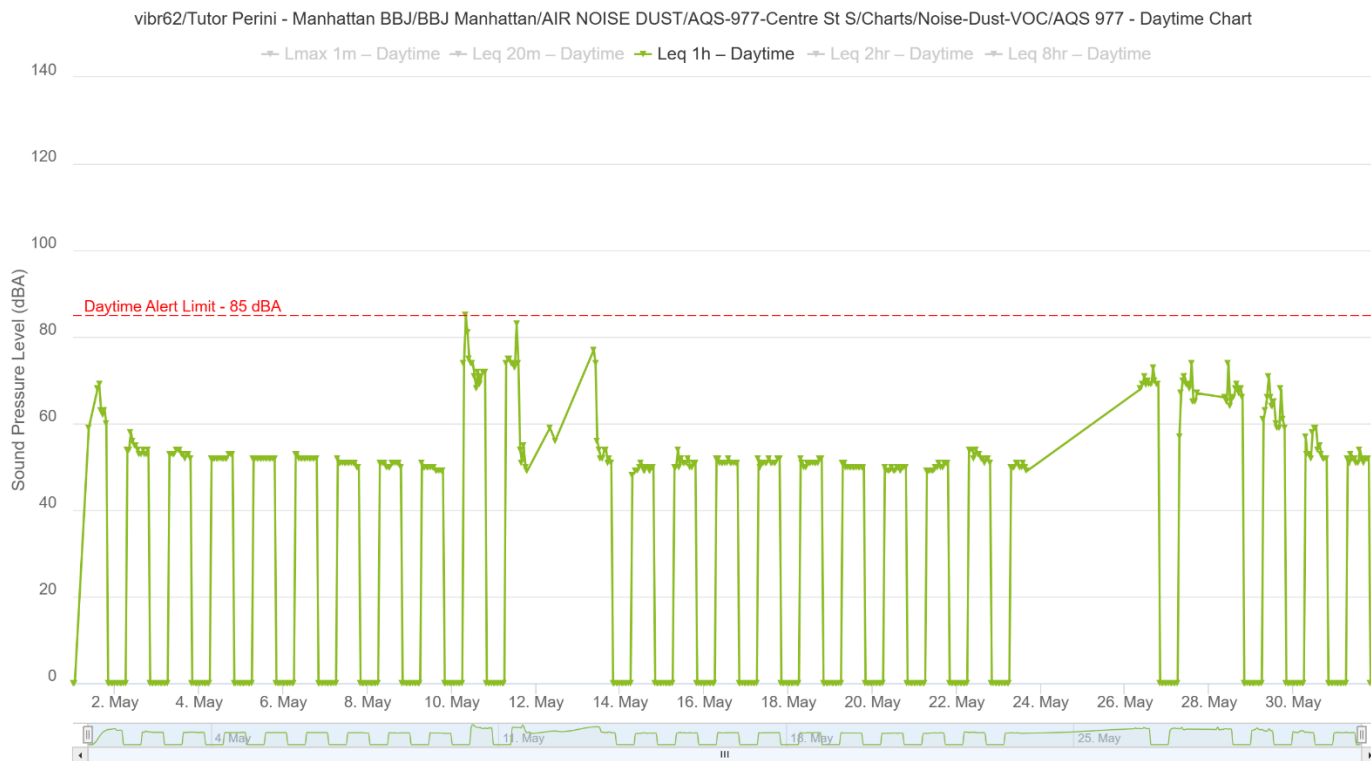
Noise Monitoring Station #977 Leq – 20minute - Daytime



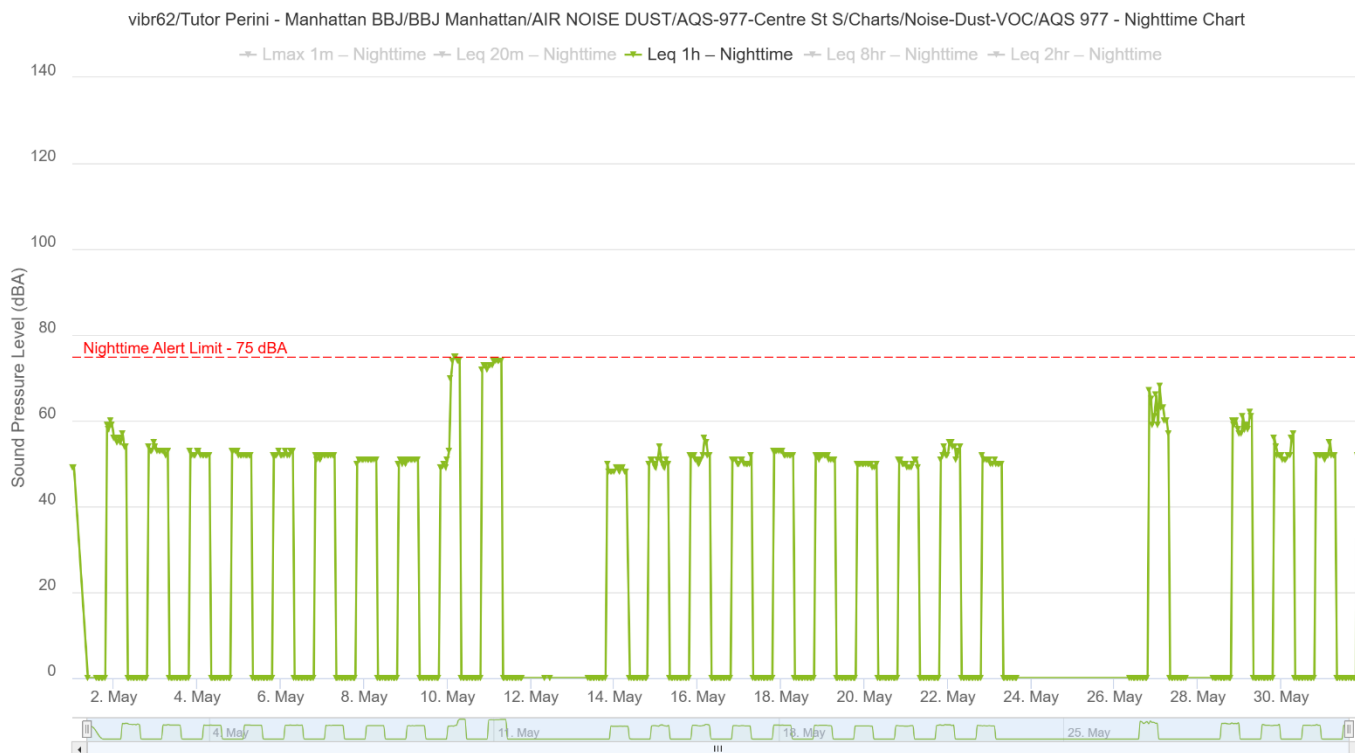
Noise Monitoring Station #977 Leq – 20minute - Nighttime



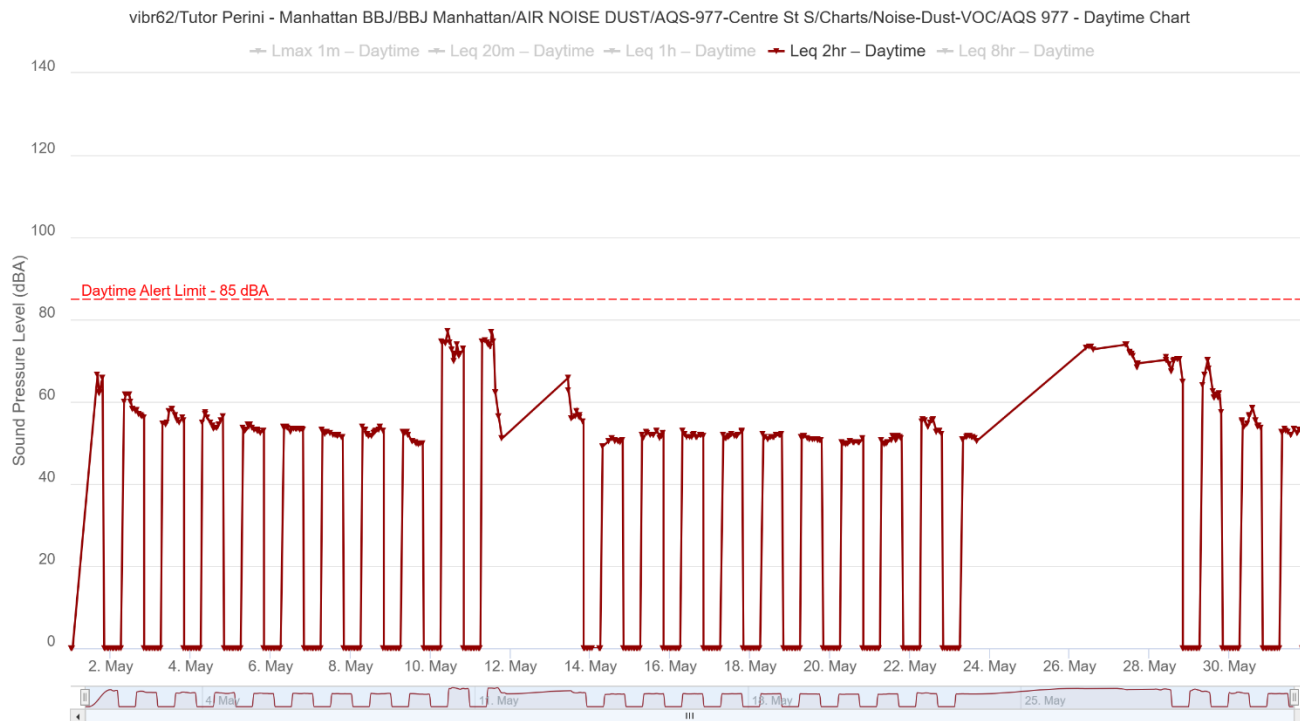
Noise Monitoring Station #977 Leq – 1 hour - Daytime



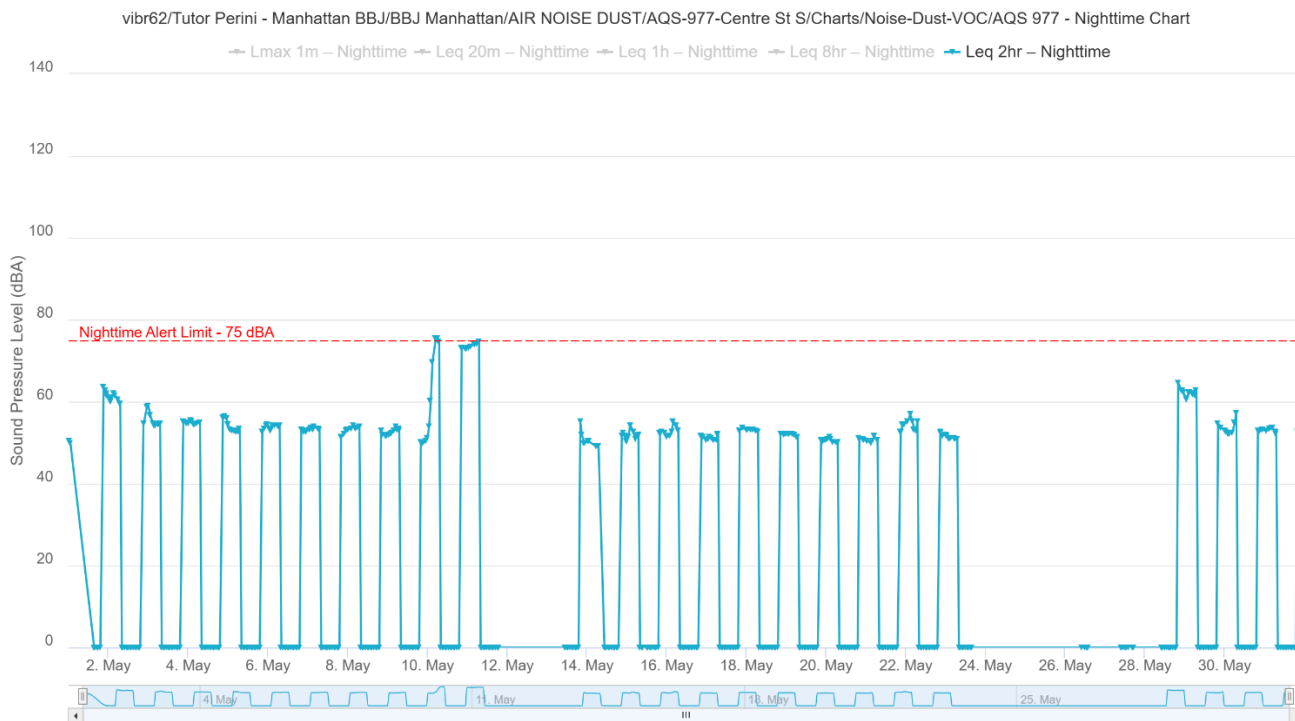
Noise Monitoring Station #977 Leq – 1 hour - Nighttime



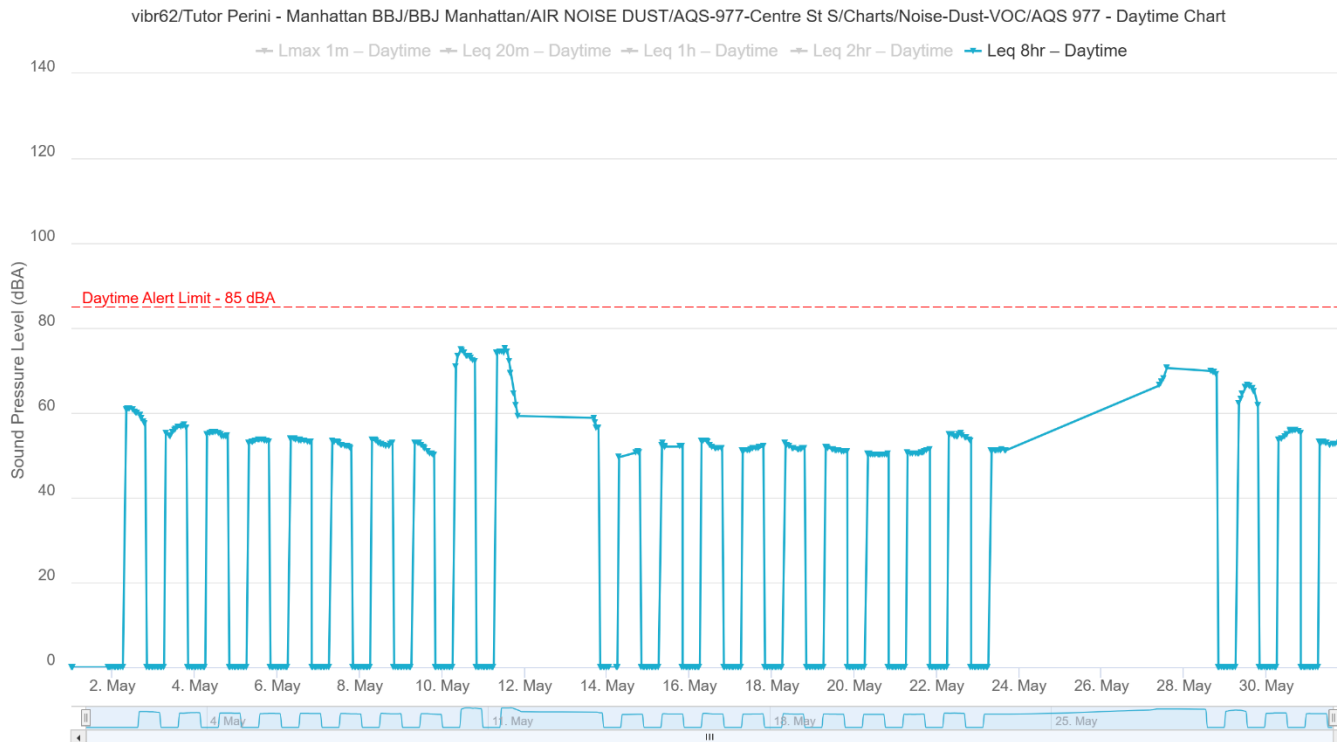
Noise Monitoring Station #977 Leq – 2 hour - Daytime



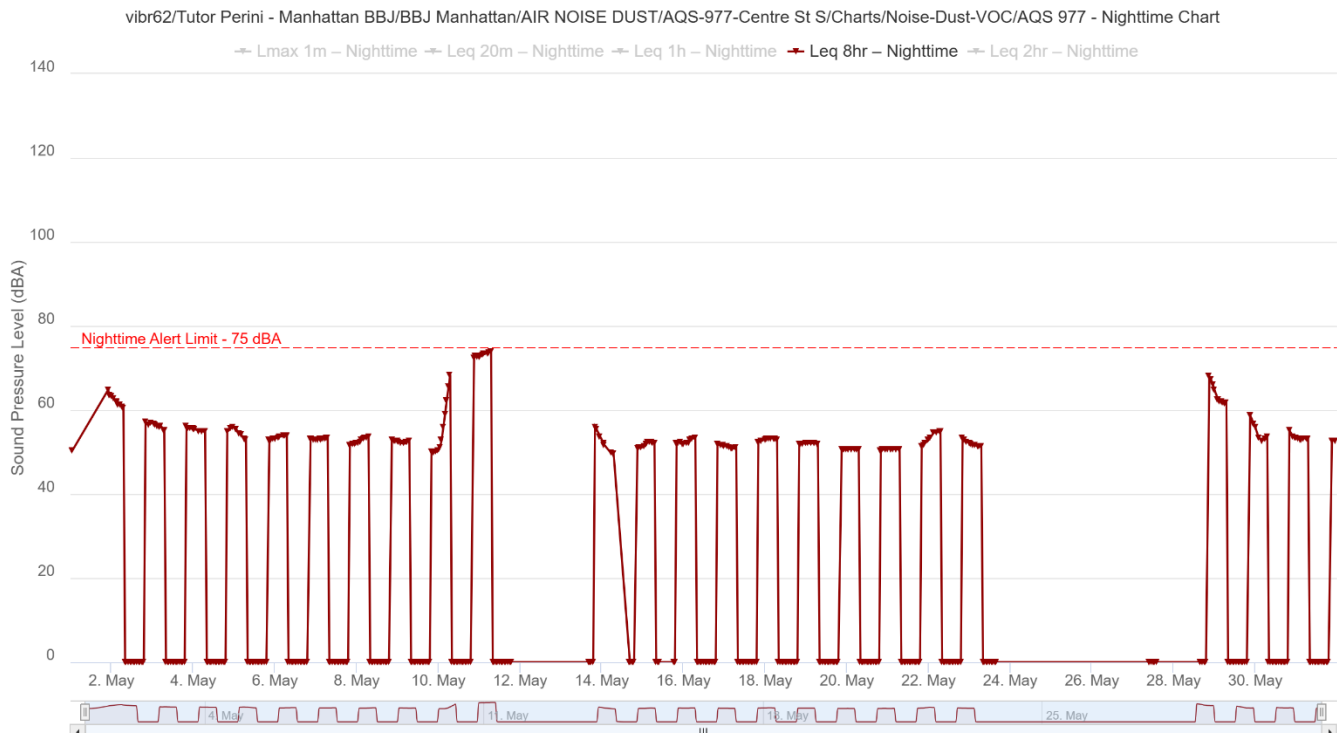
Noise Monitoring Station #977 Leq – 2 hour - Nighttime

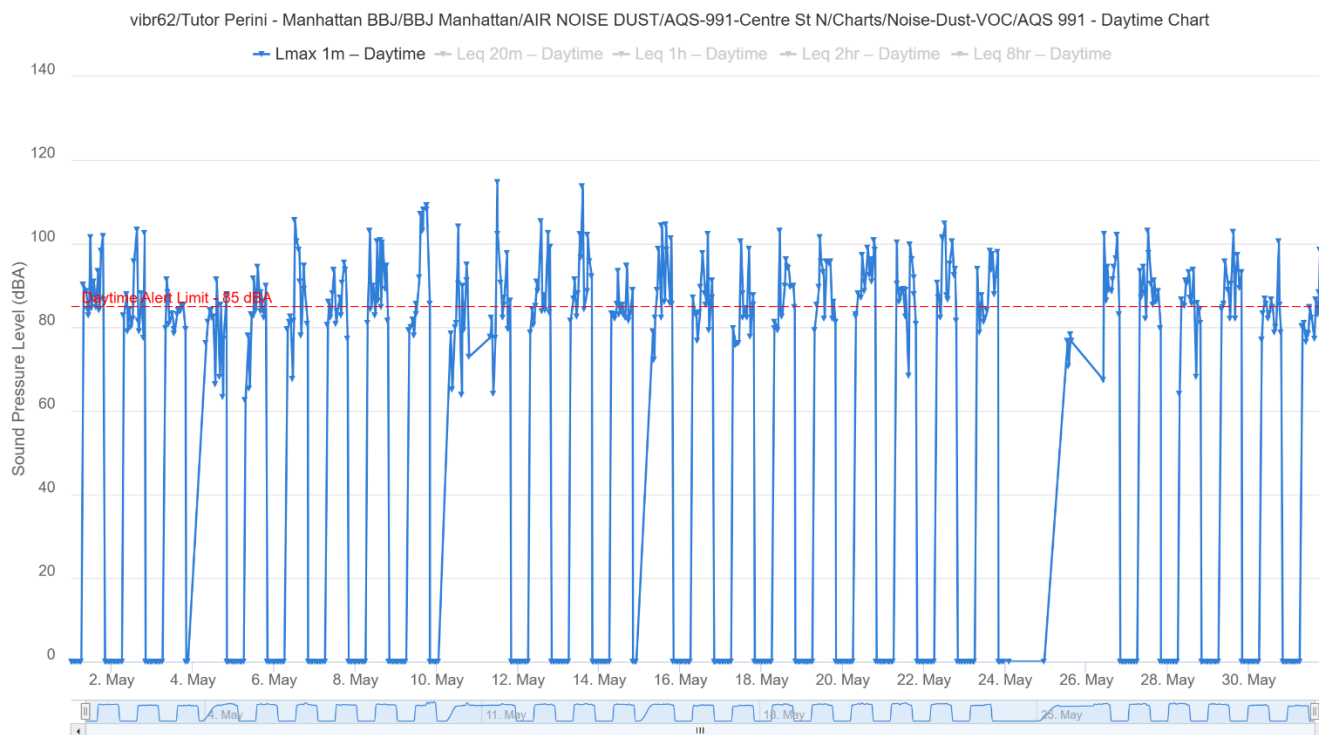
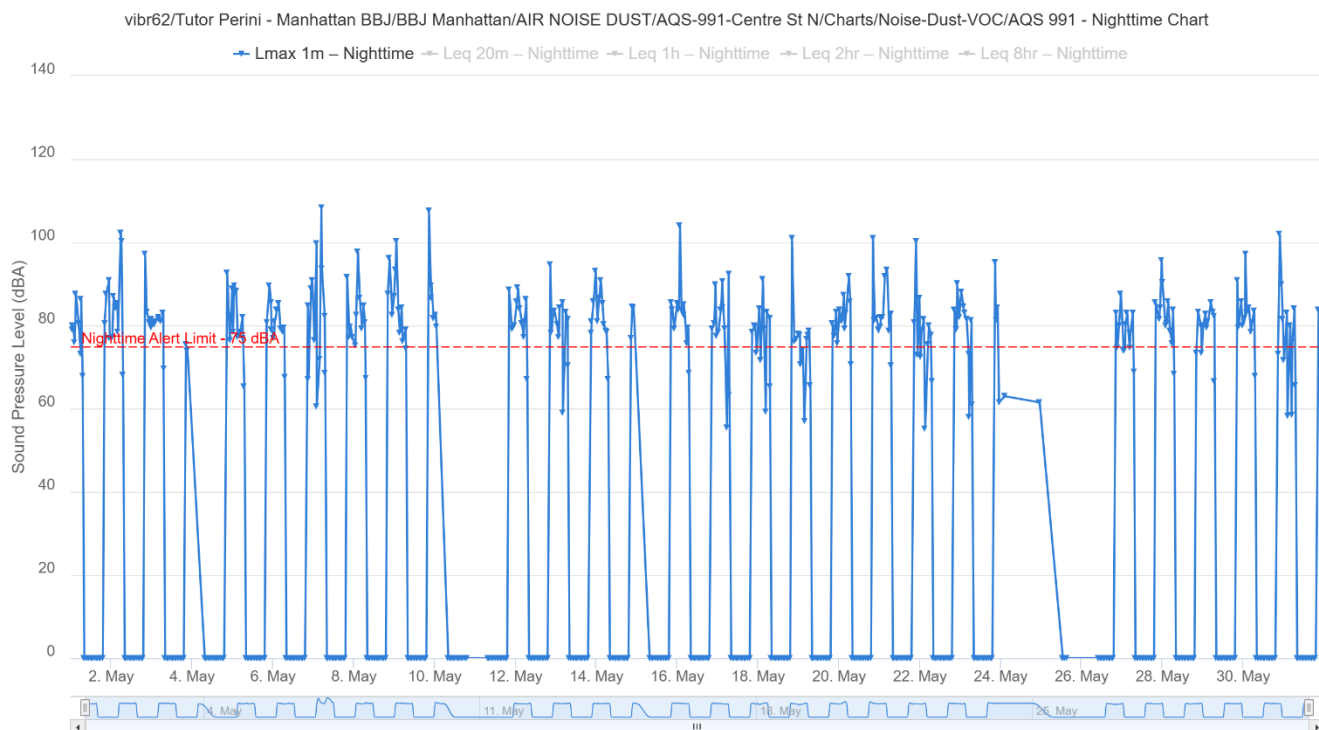


Noise Monitoring Station #977 Leq – 8 hour - Daytime



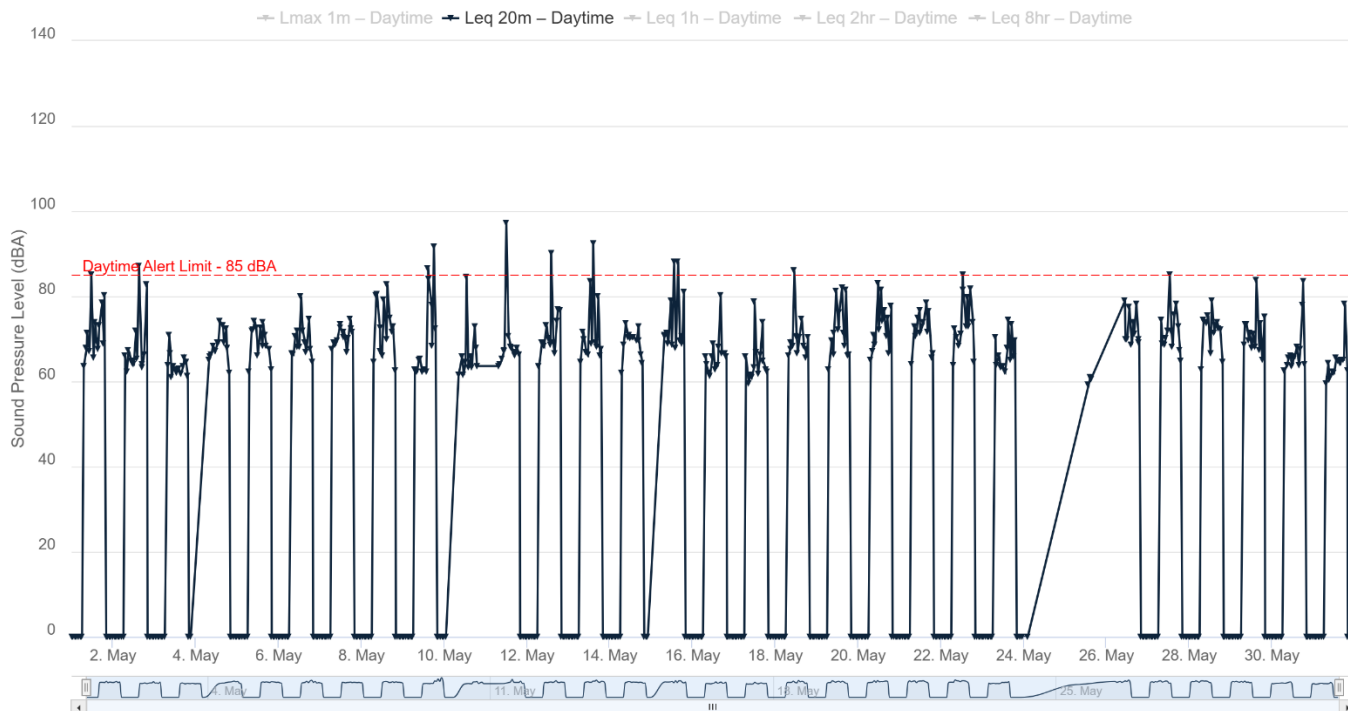
Noise Monitoring Station #977 Leq – 8 hour- Nighttime



Device #991 – Noise Monitoring Station**Noise Monitoring Station #991 Lmax - Daytime****Noise Monitoring Station #991 Lmax – Nighttime**

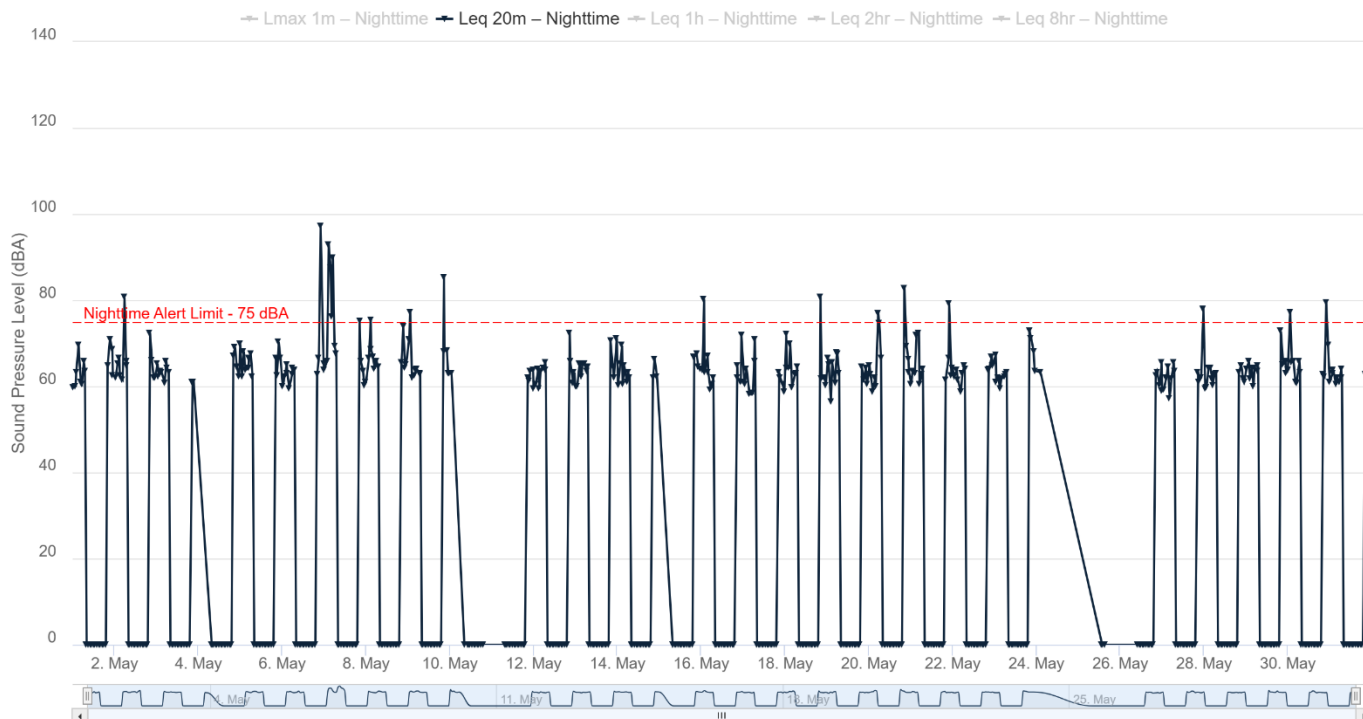
Noise Monitoring Station #991 Leq – 20minute - Daytime

vibr62/Tutor Perini - Manhattan BBJ/BBJ Manhattan/AIR NOISE DUST/AQS-991-Centre St N/Charts/Noise-Dust-VOC/AQS 991 - Daytime Chart

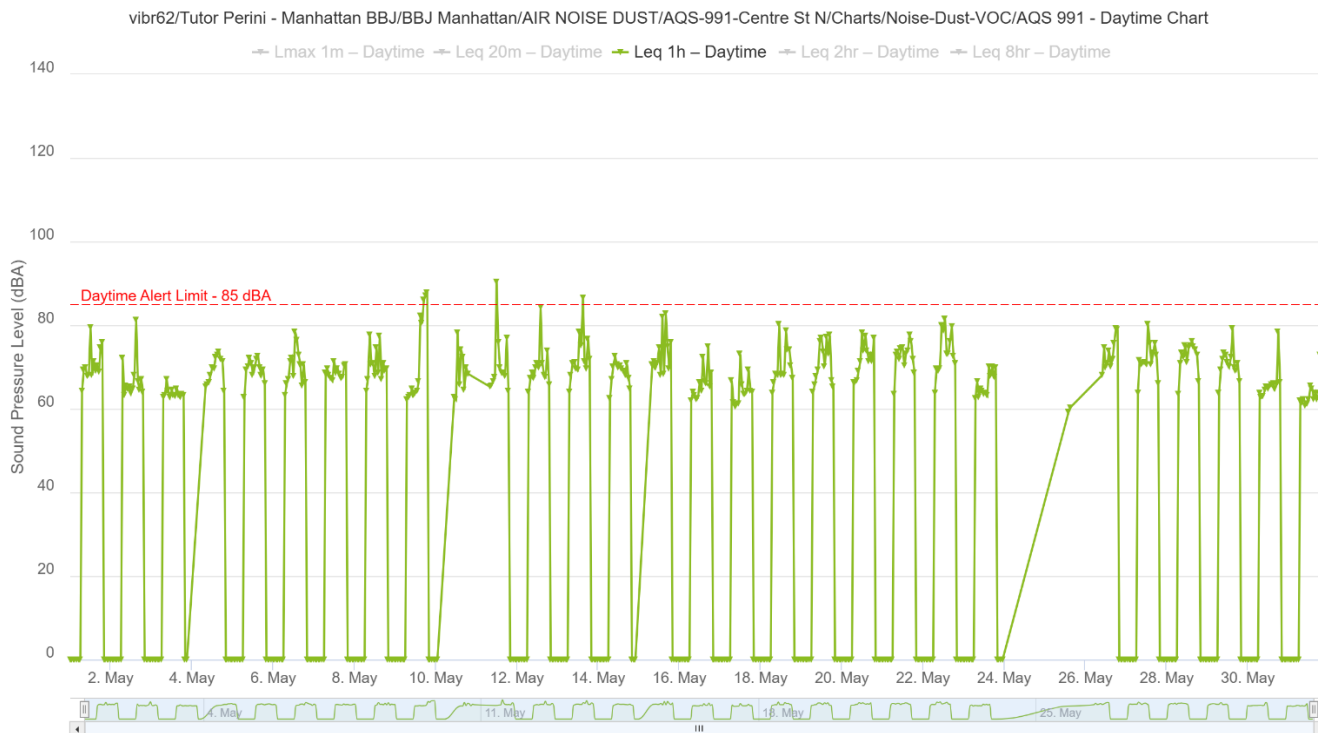


Noise Monitoring Station #991 Leq – 20minute – Nighttime

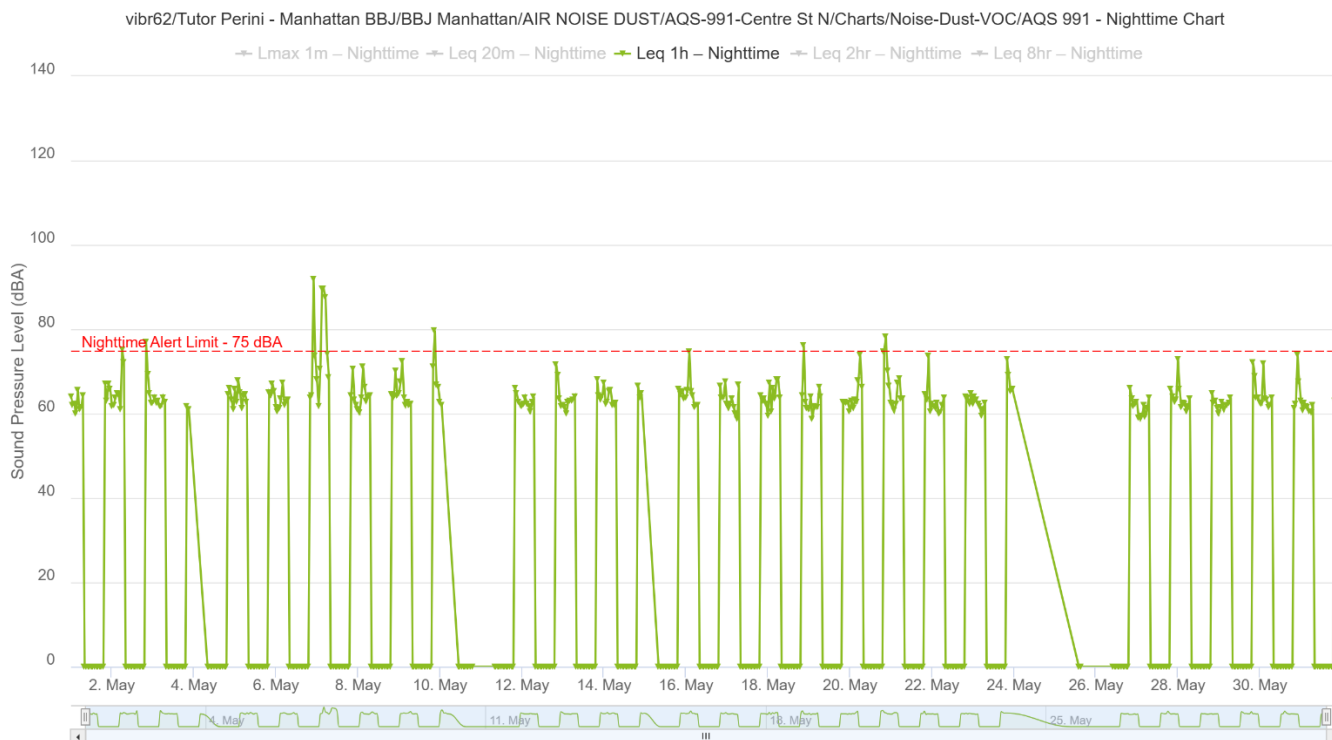
vibr62/Tutor Perini - Manhattan BBJ/BBJ Manhattan/AIR NOISE DUST/AQS-991-Centre St N/Charts/Noise-Dust-VOC/AQS 991 - Nighttime Chart



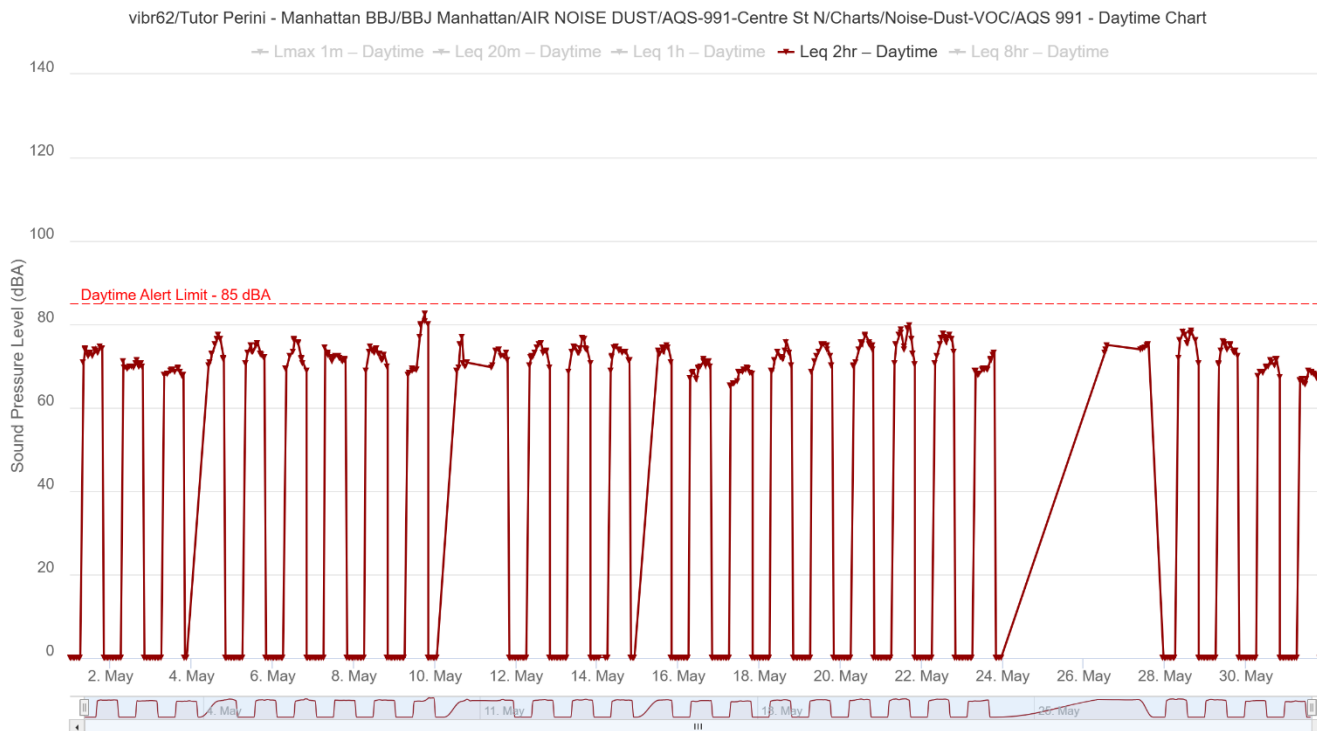
Noise Monitoring Station #991 Leq – 1 hour - Daytime



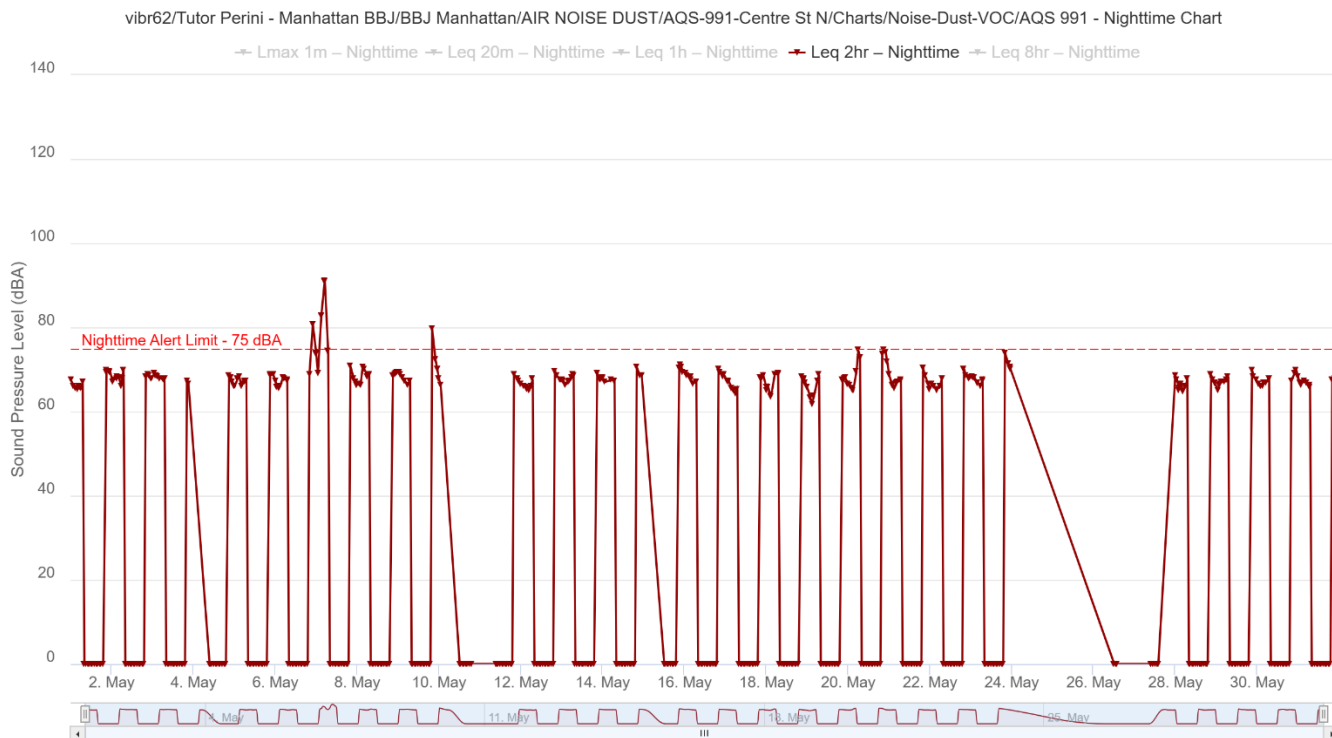
Noise Monitoring Station #991 Leq – 1 hour – Nighttime



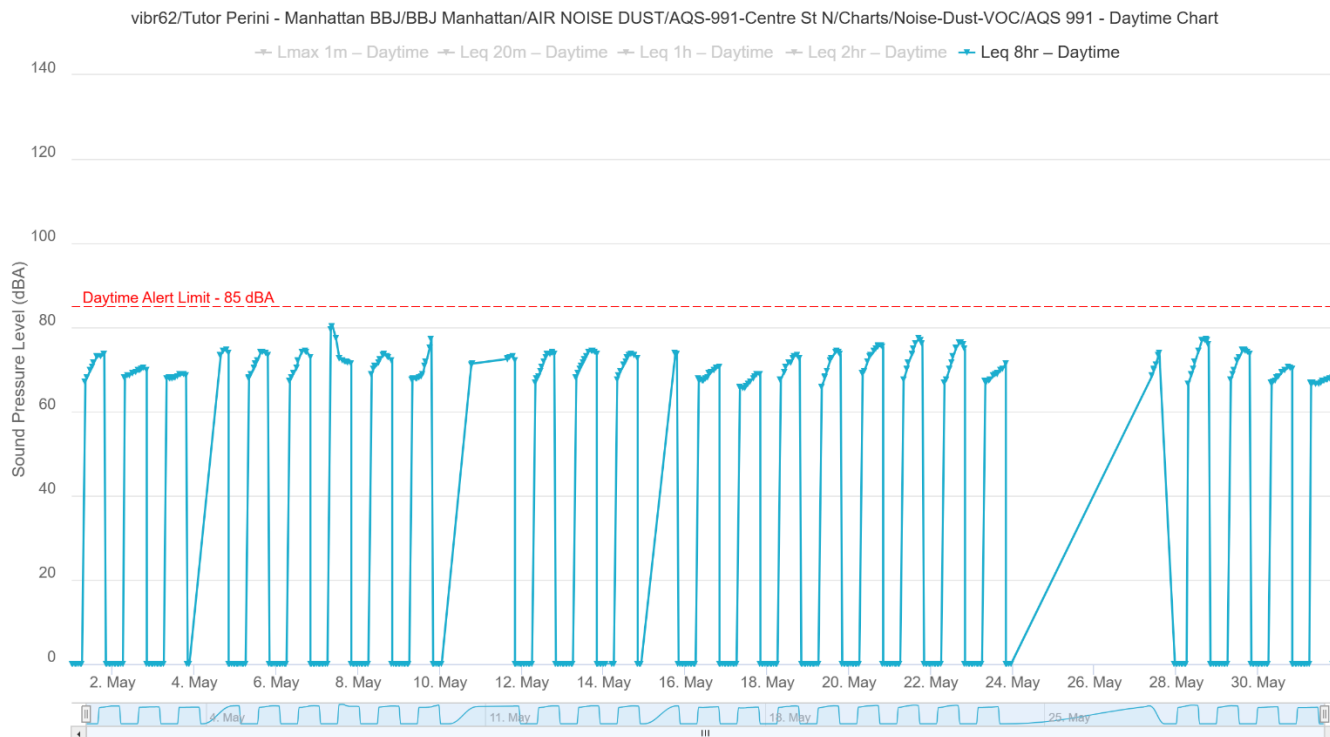
Noise Monitoring Station #991 Leq – 2 hour - Daytime



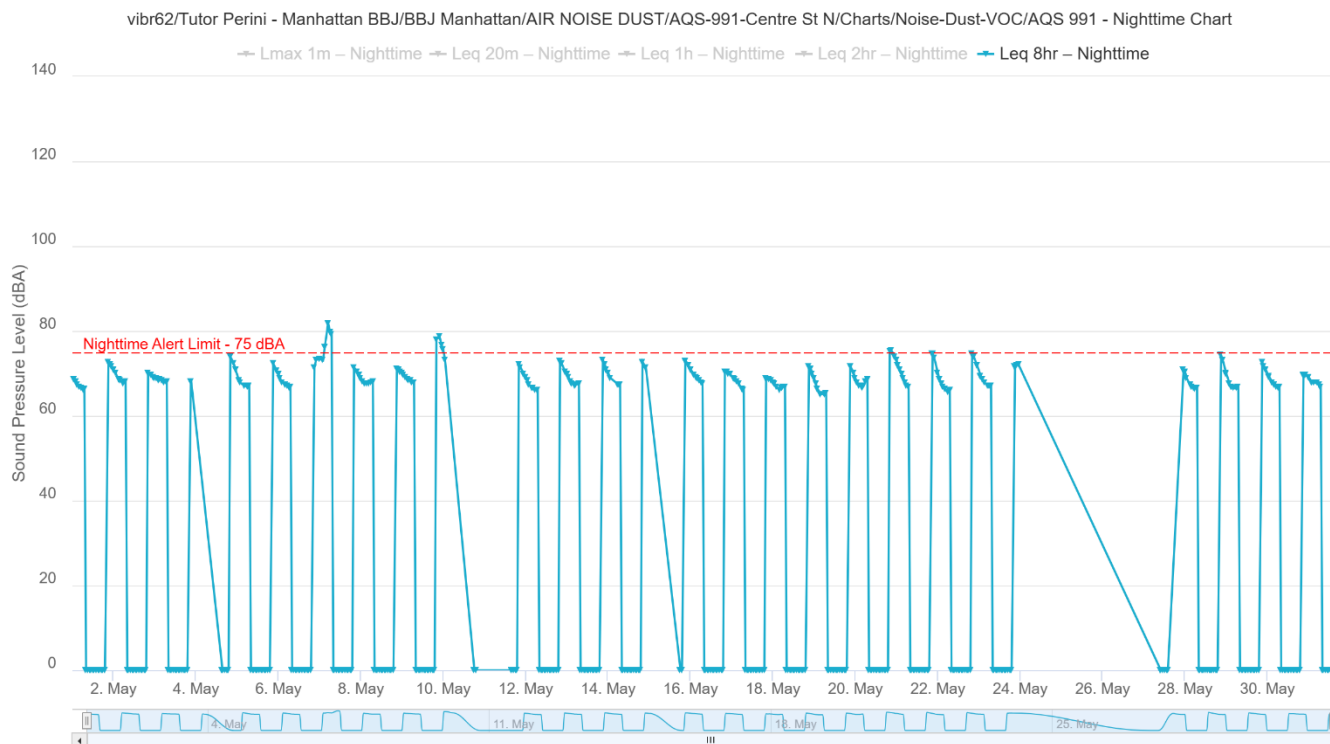
Noise Monitoring Station #991 Leq – 2 hour – Nighttime

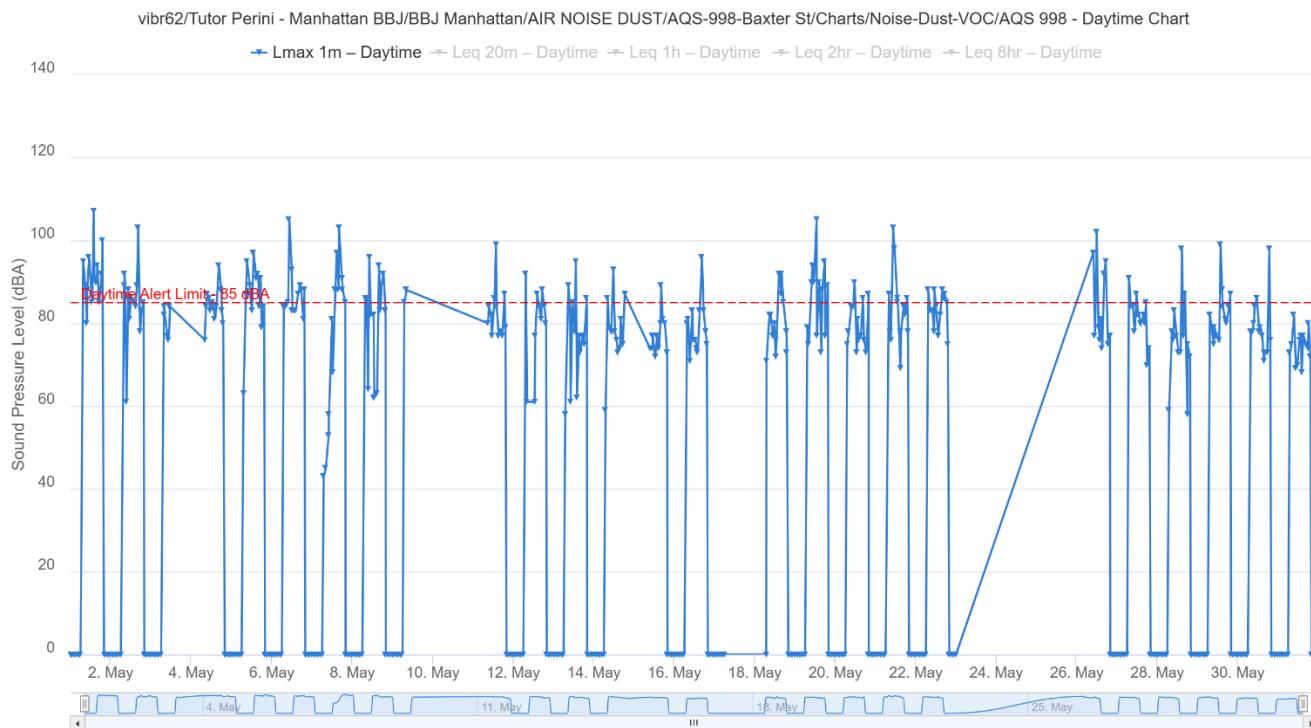
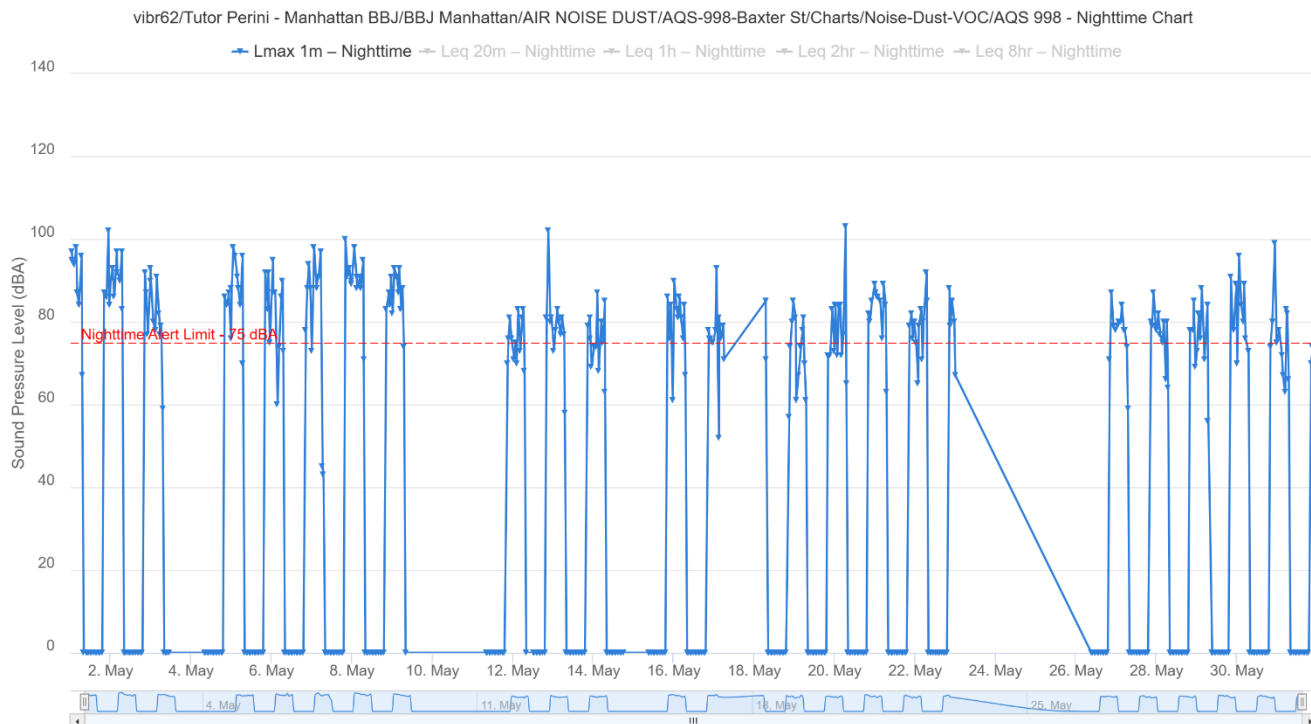


Noise Monitoring Station #991 Leq – 8 hour - Daytime

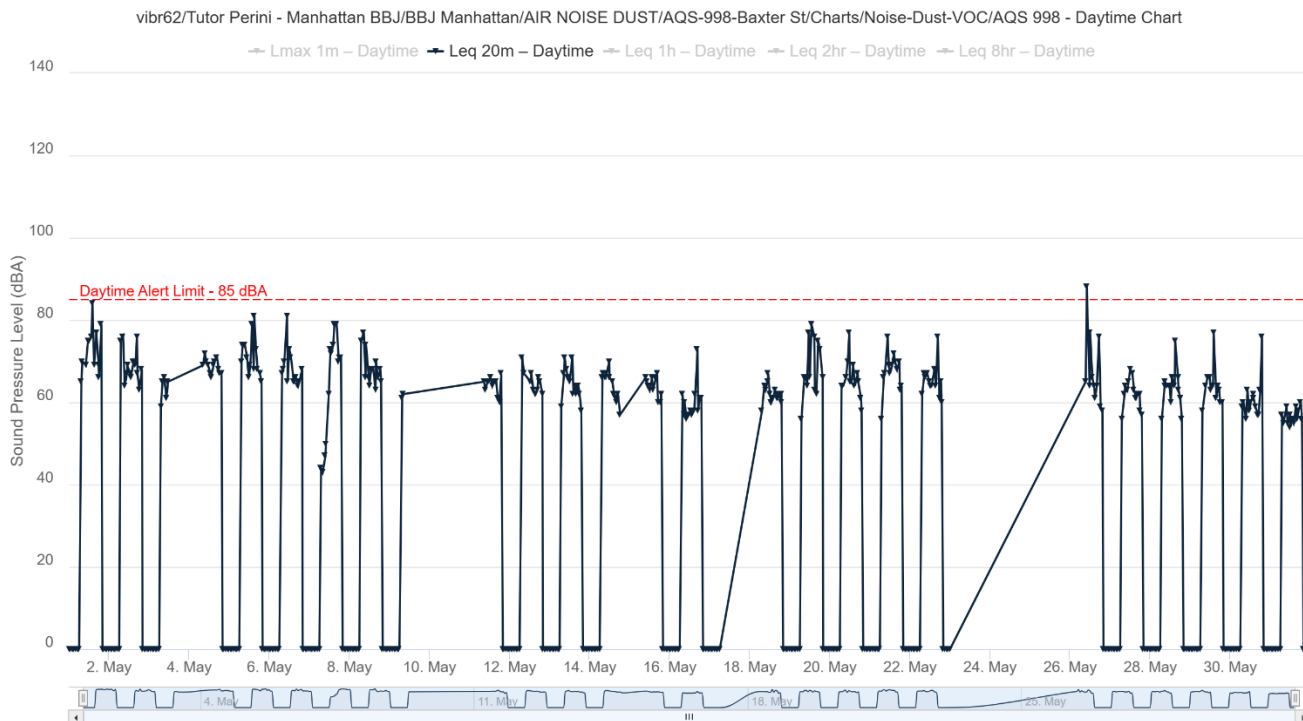


Noise Monitoring Station #991 Leq – 8 hour - Nighttime

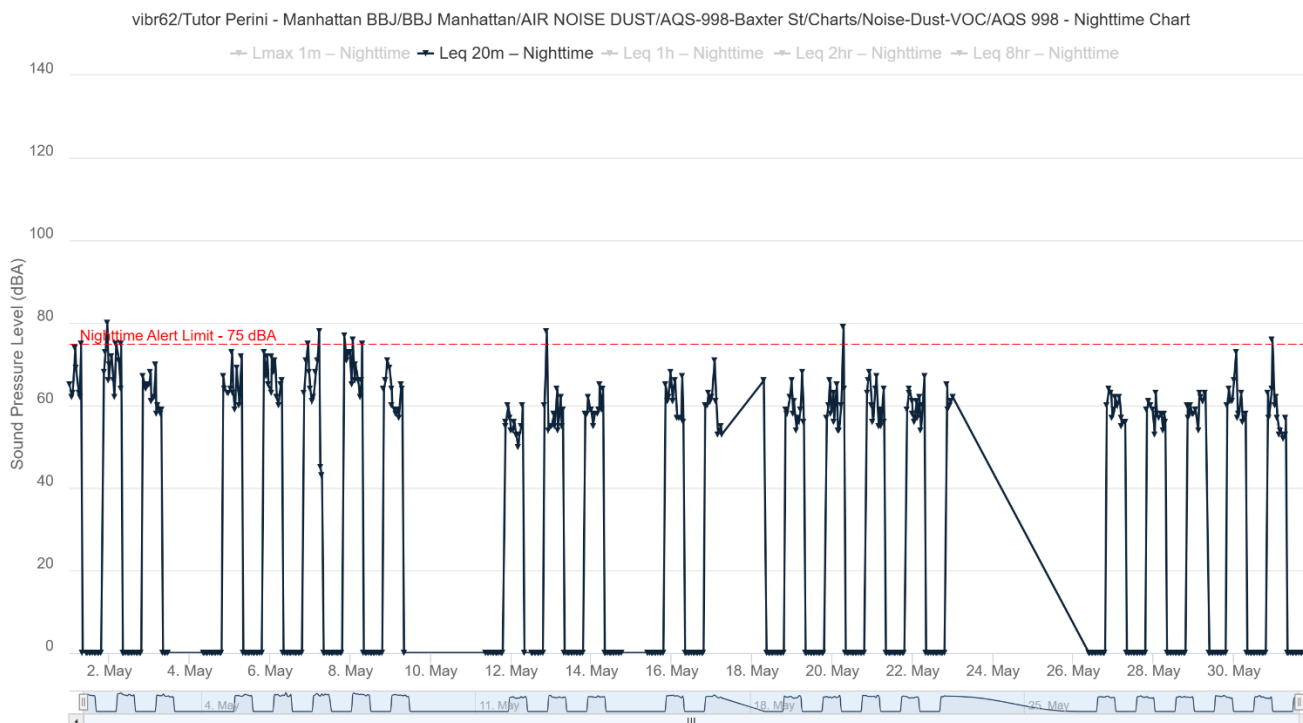


Device #998 – Noise Monitoring Station**Noise Monitoring Station #998 Lmax - Daytime****Noise Monitoring Station #998 Lmax – Nighttime**

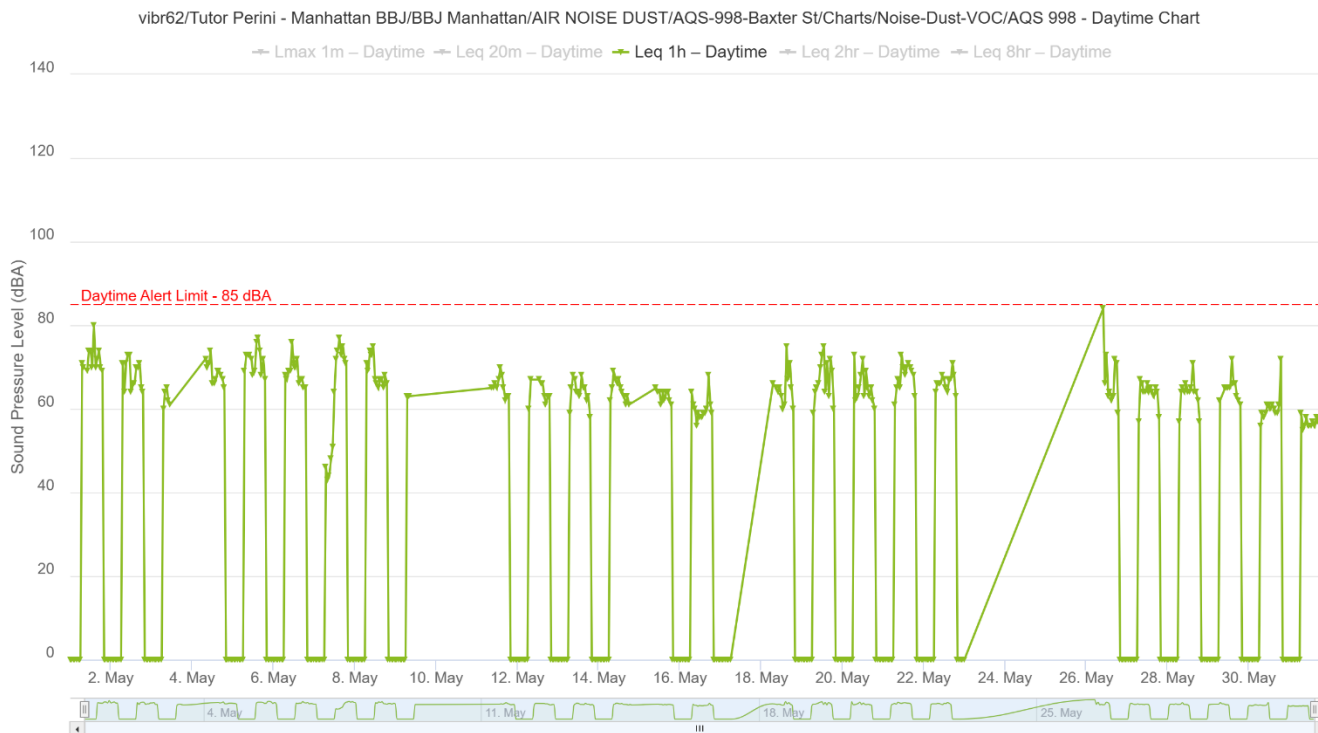
Noise Monitoring Station #998 Leq – 20minute - Daytime



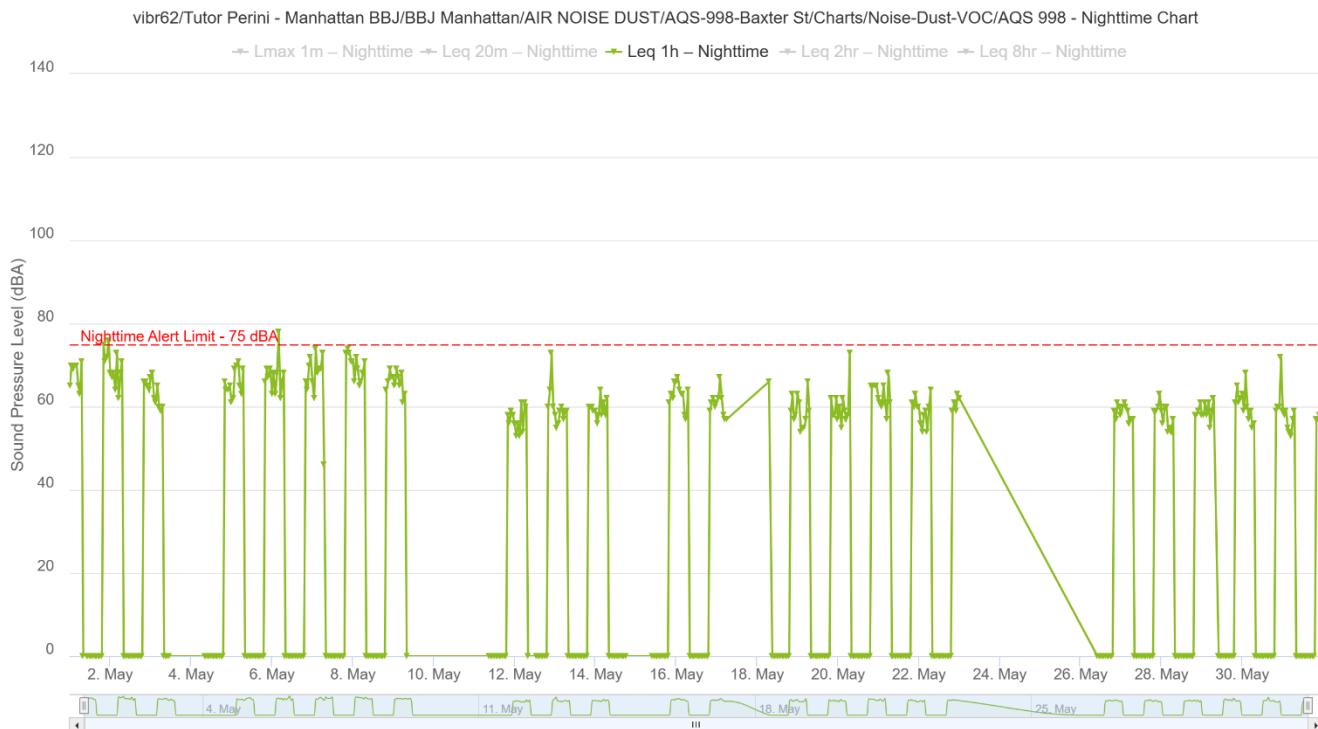
Noise Monitoring Station #998 Leq – 20minute - Nighttime



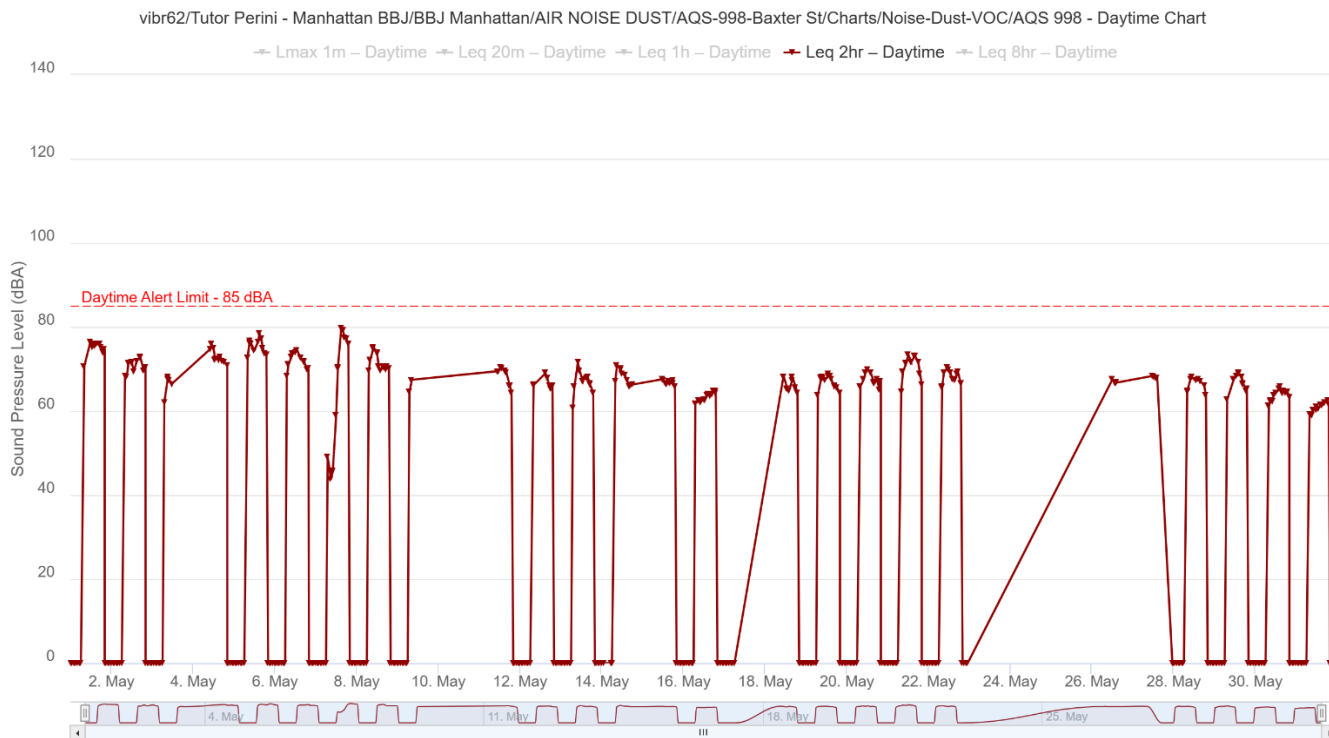
Noise Monitoring Station #998 Leq – 1 hour - Daytime



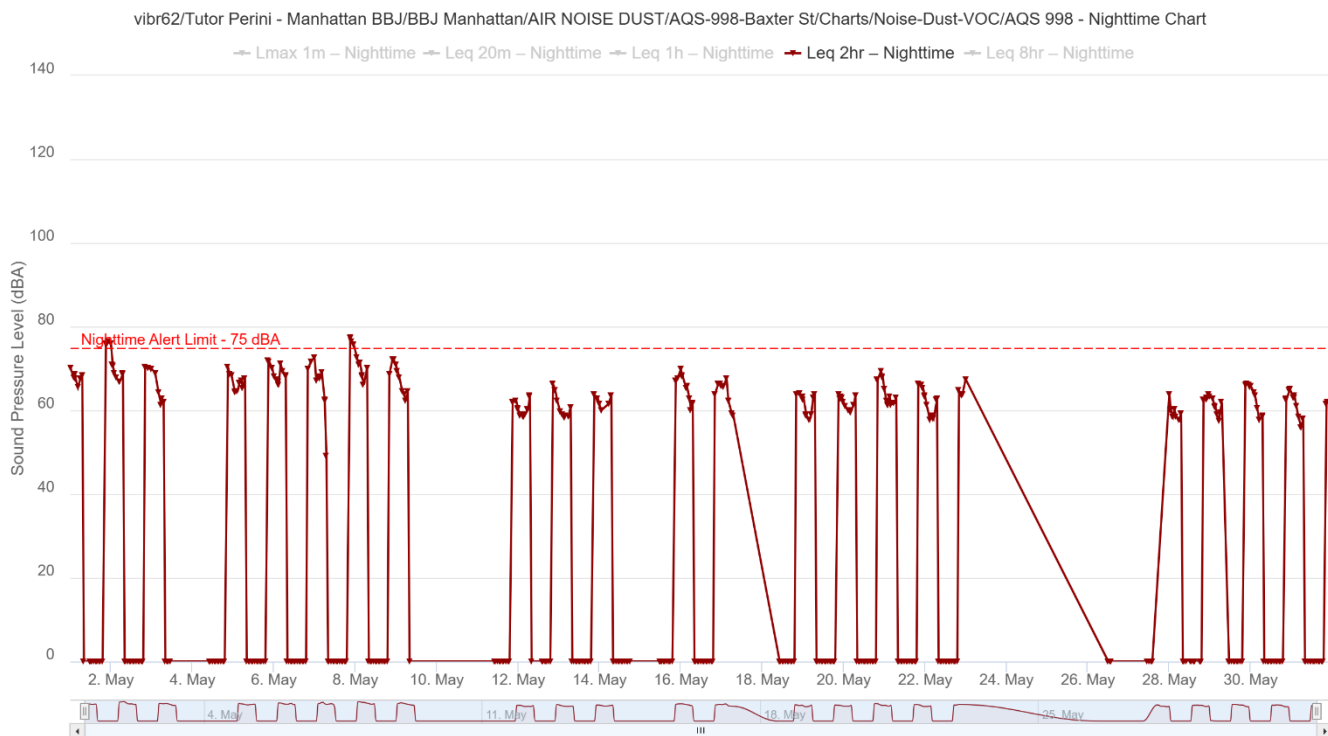
Noise Monitoring Station #998 Leq – 1 hour - Nighttime



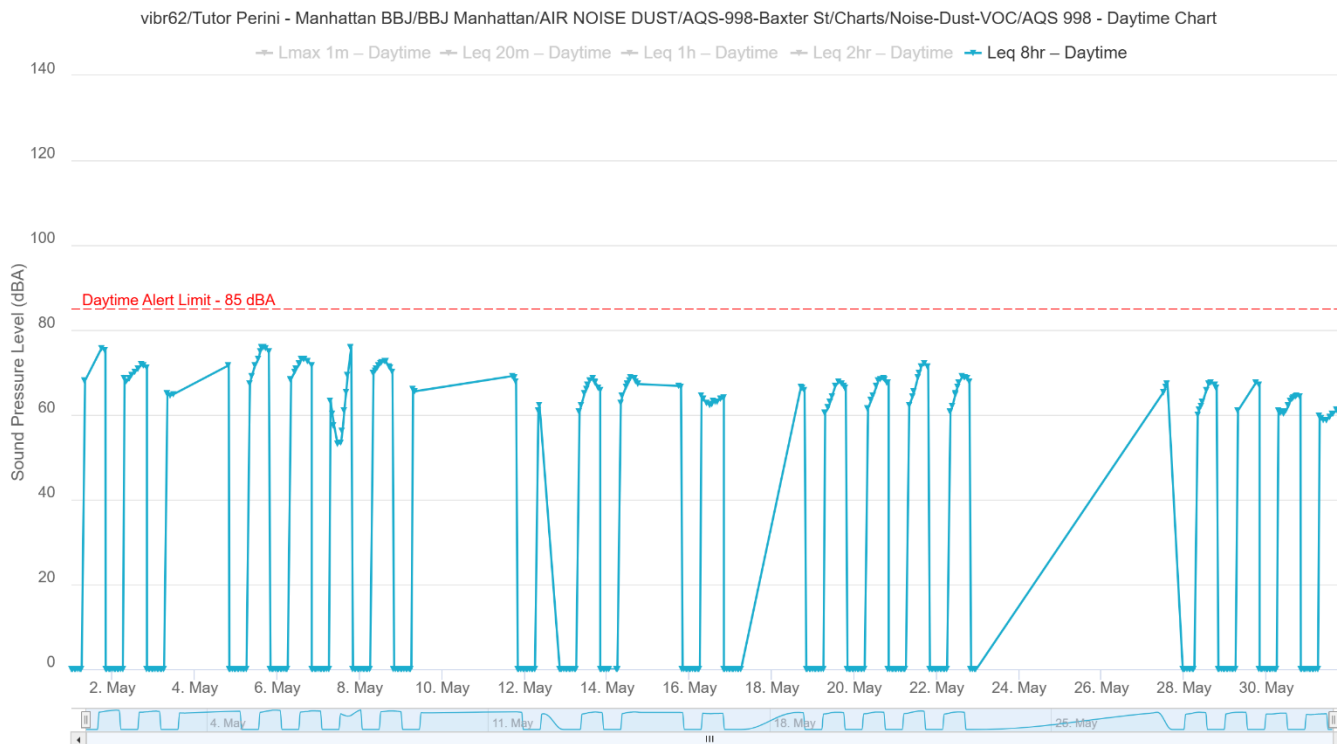
Noise Monitoring Station #998 Leq – 2 hour - Daytime



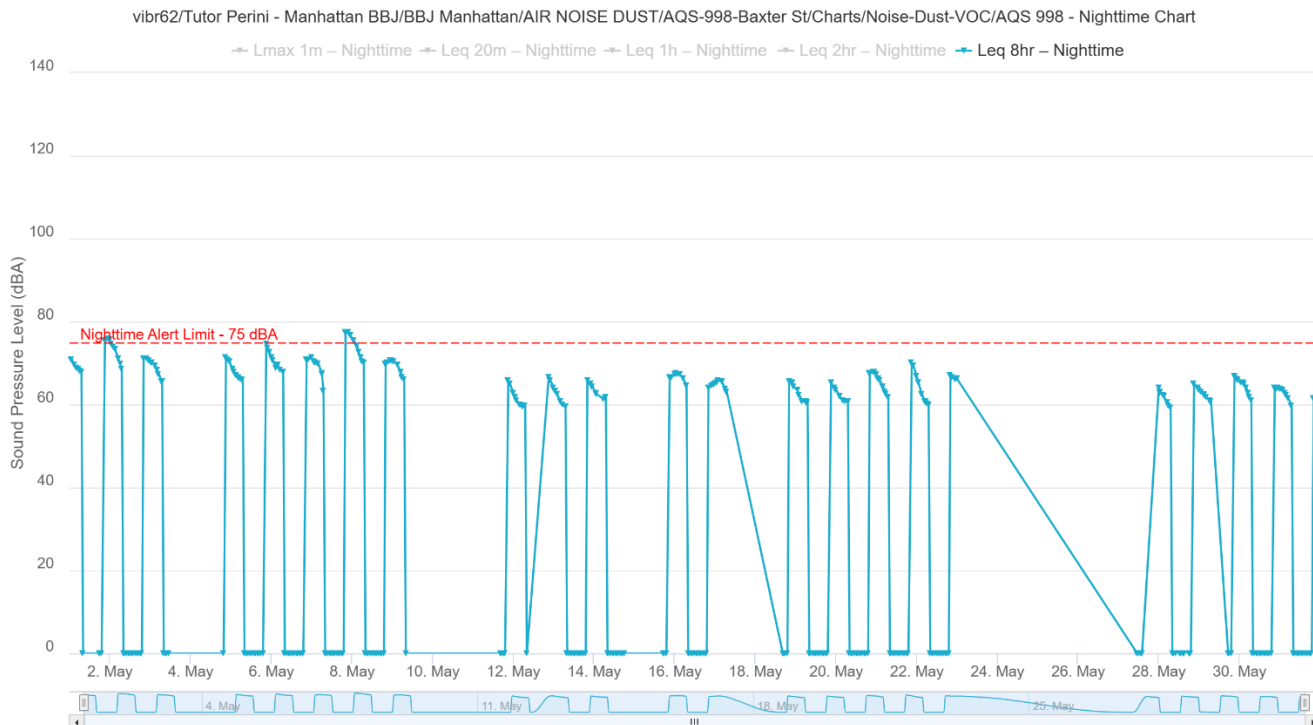
Noise Monitoring Station #998 Leq – 2 hour - Nighttime



Noise Monitoring Station #998 Leq – 8 hour - Daytime

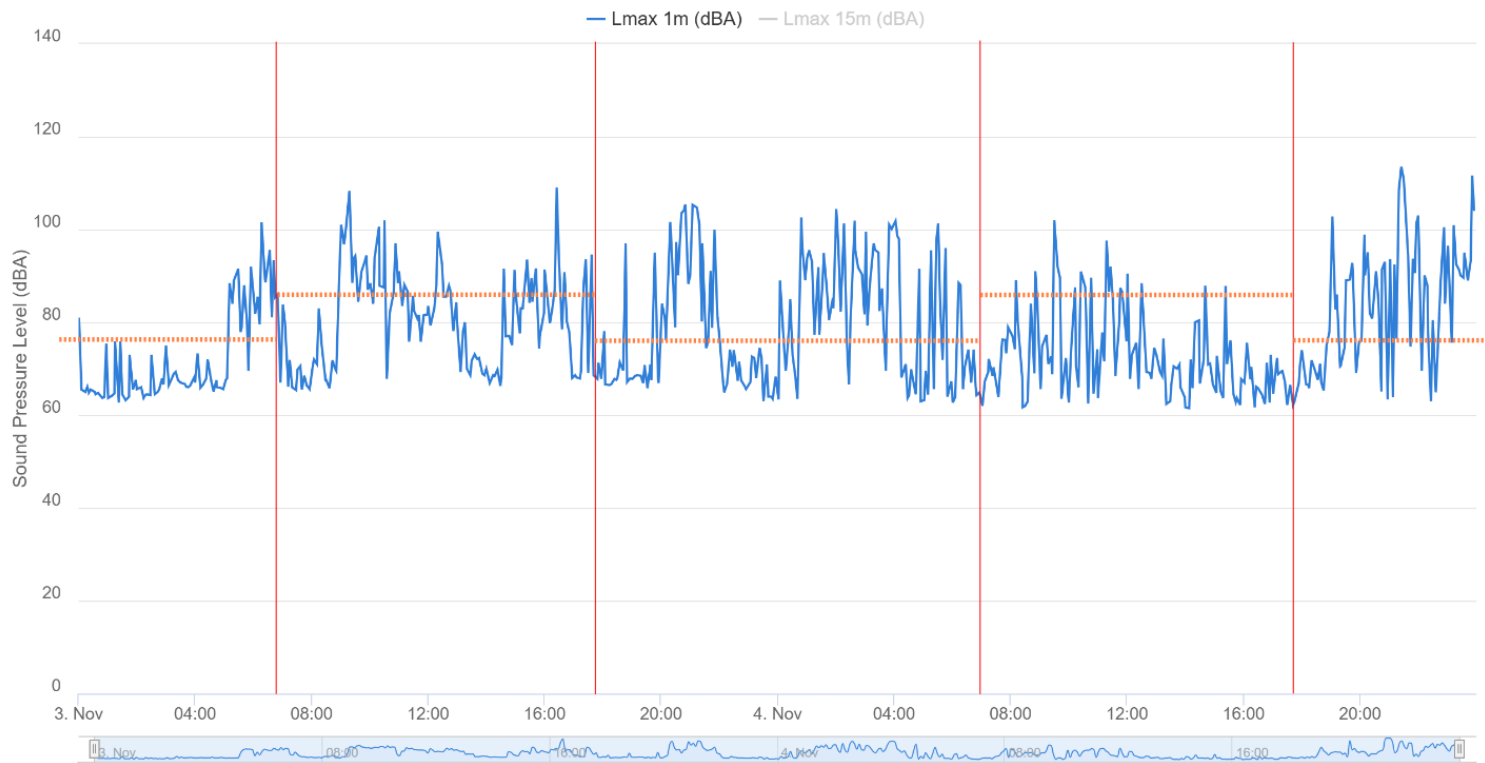


Noise Monitoring Station #998 Leq – 8 hour - Nighttime



Lmax Baseline

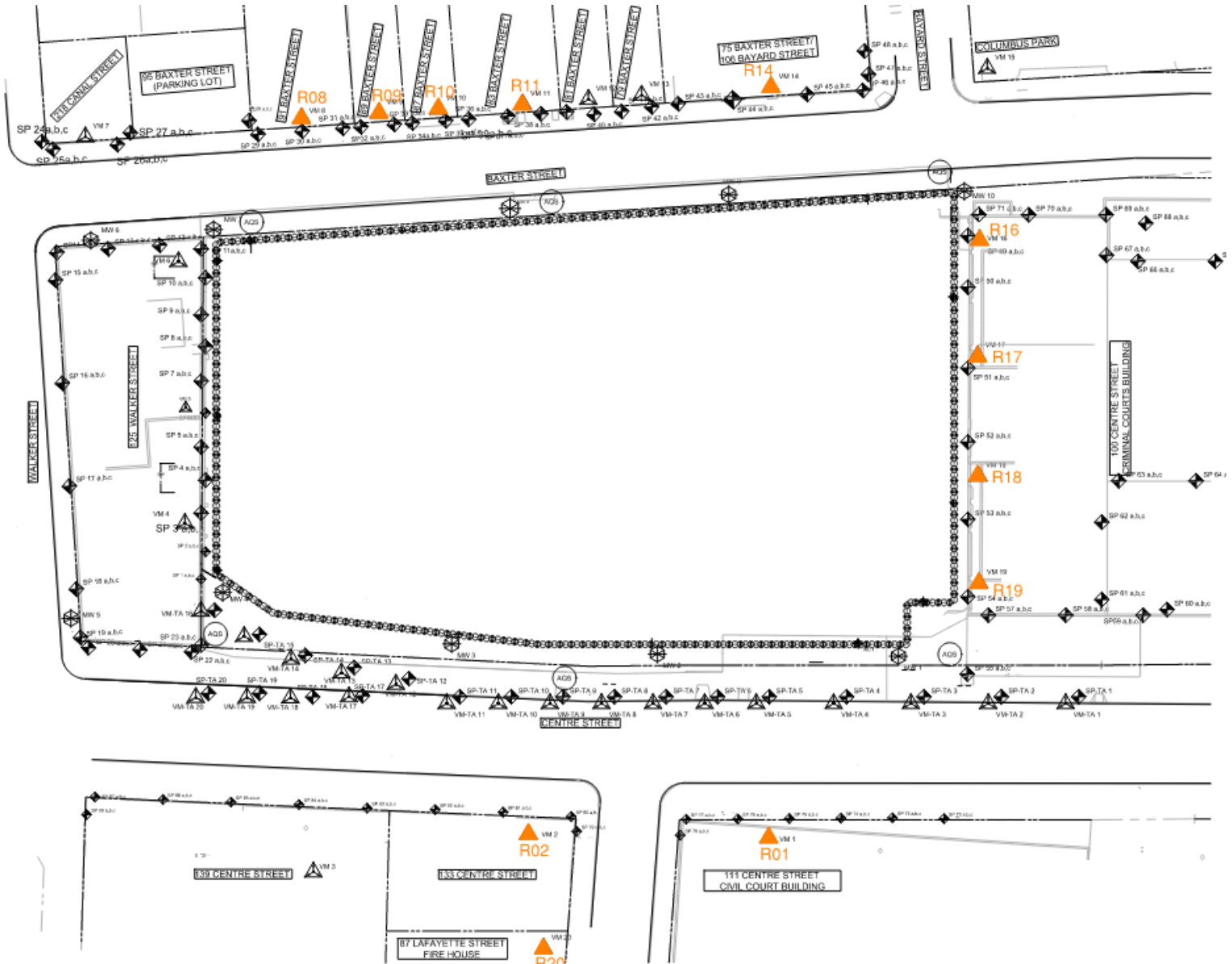
Noise Monitoring Station #997 Lmax - Baseline

**LEGEND:**

7:00 am – 6:00pm: 85 dBA Leq (Orange dashed line)
6:00 am – 7:00pm: 75 dBA Leq (Orange dashed line)

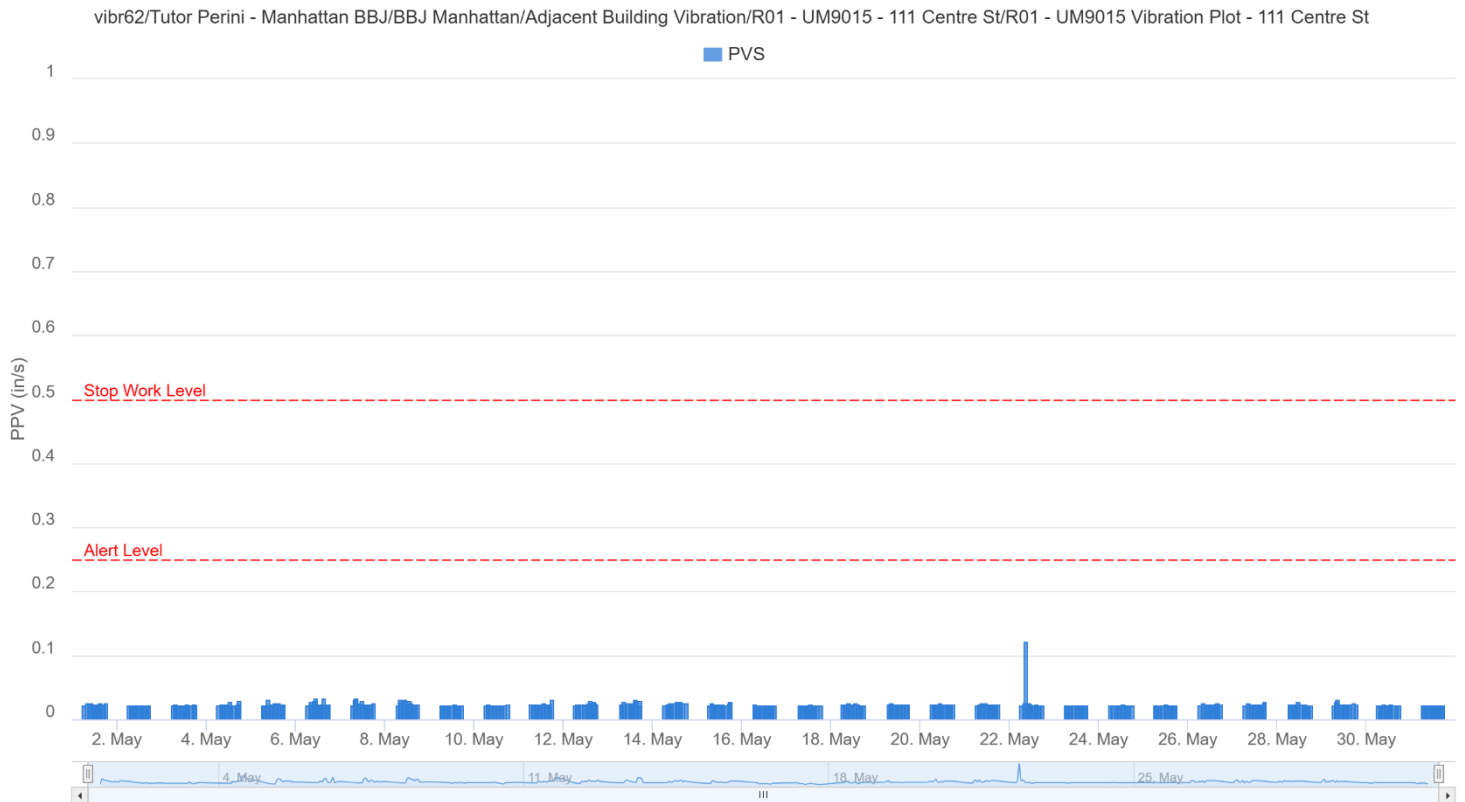
Vibration Monitor Location

Current Locations:

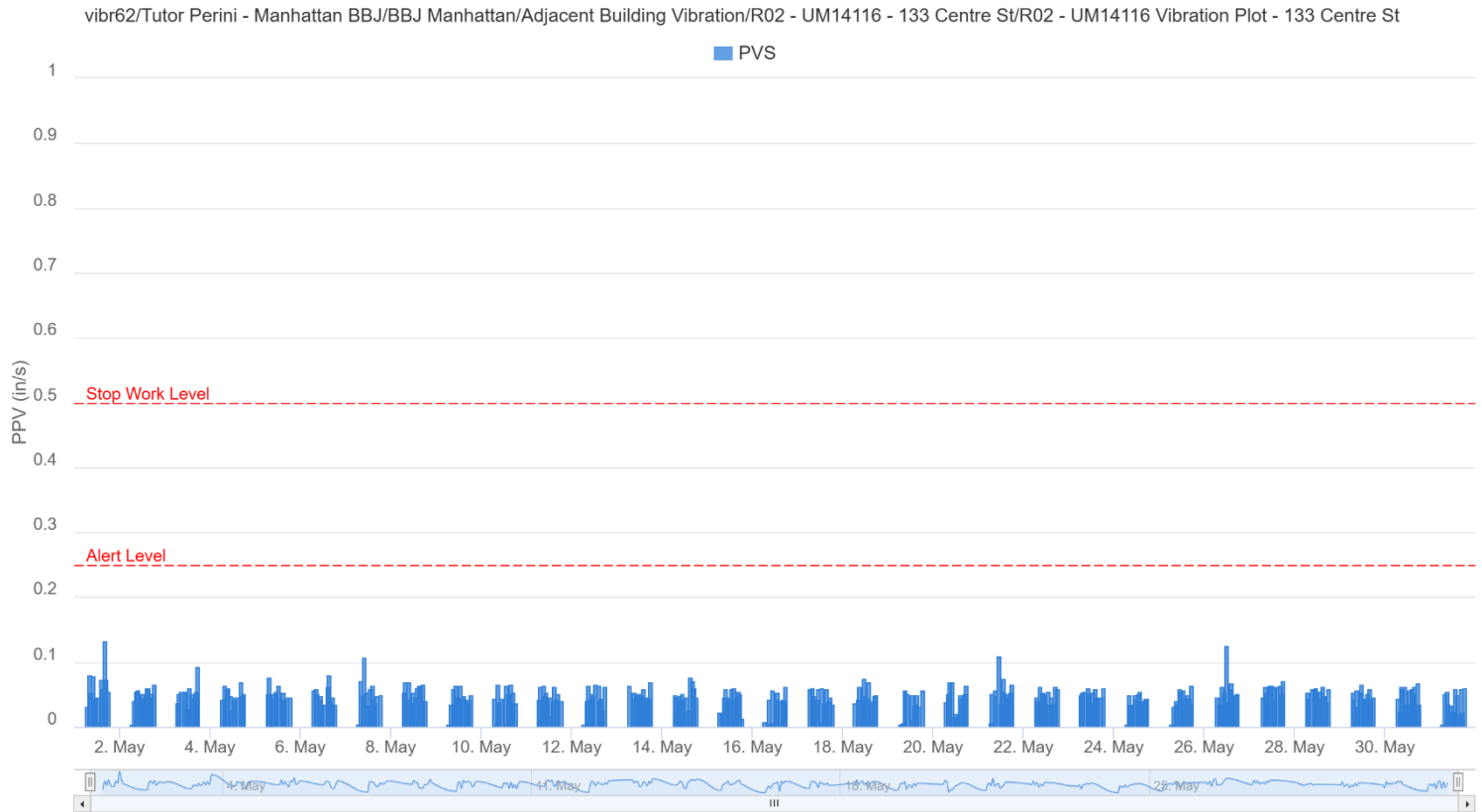


Vibration Monitor Plots

R01

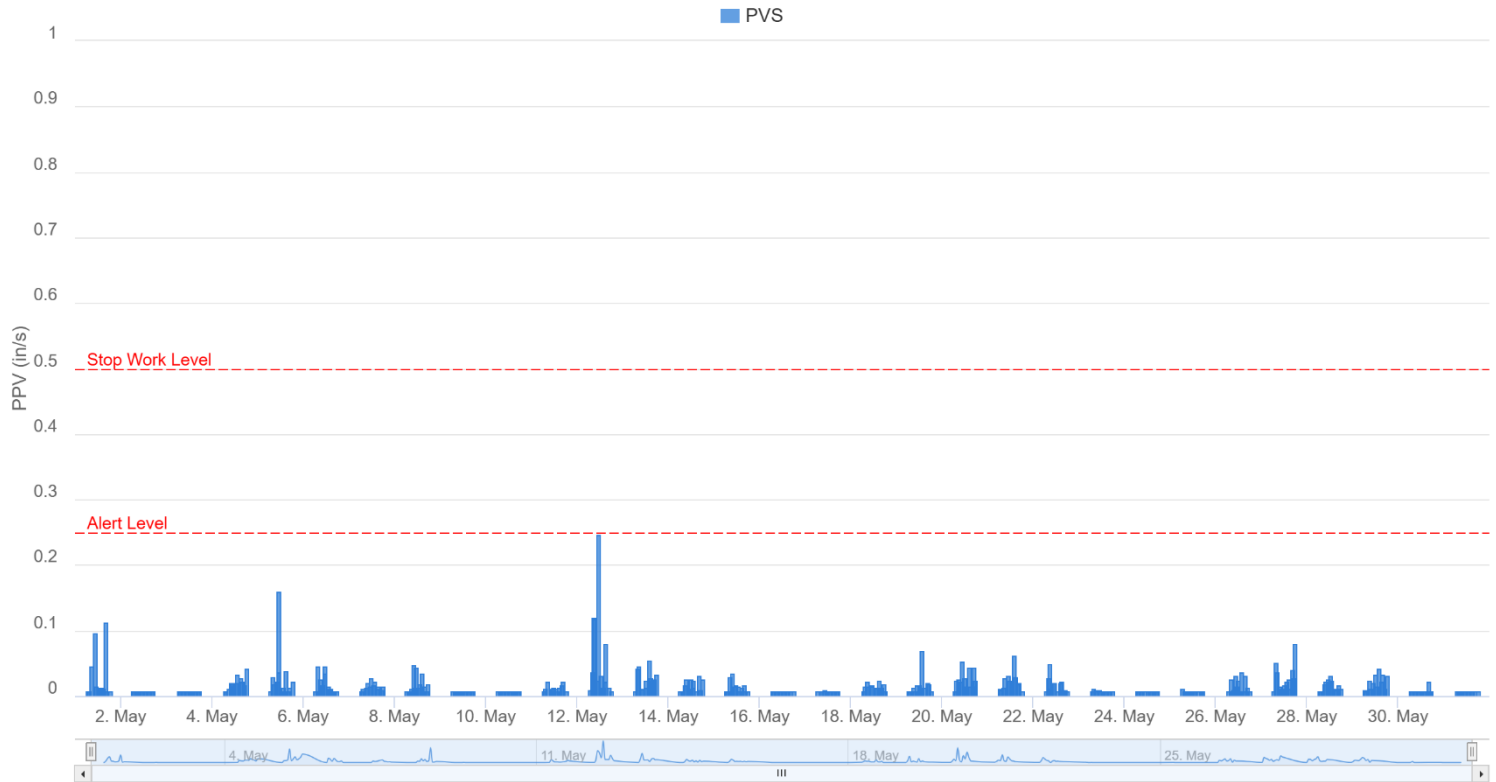


R02

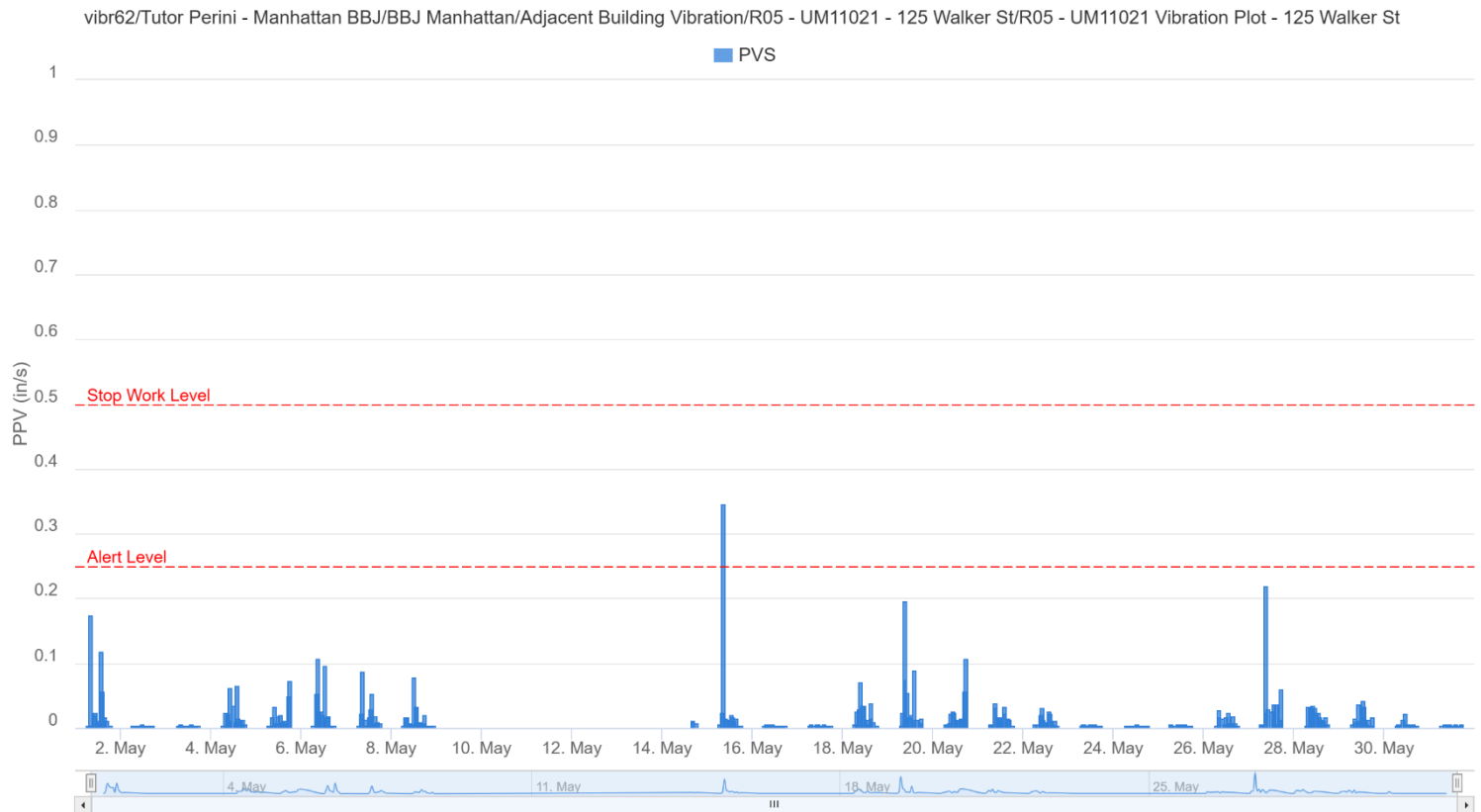


R04

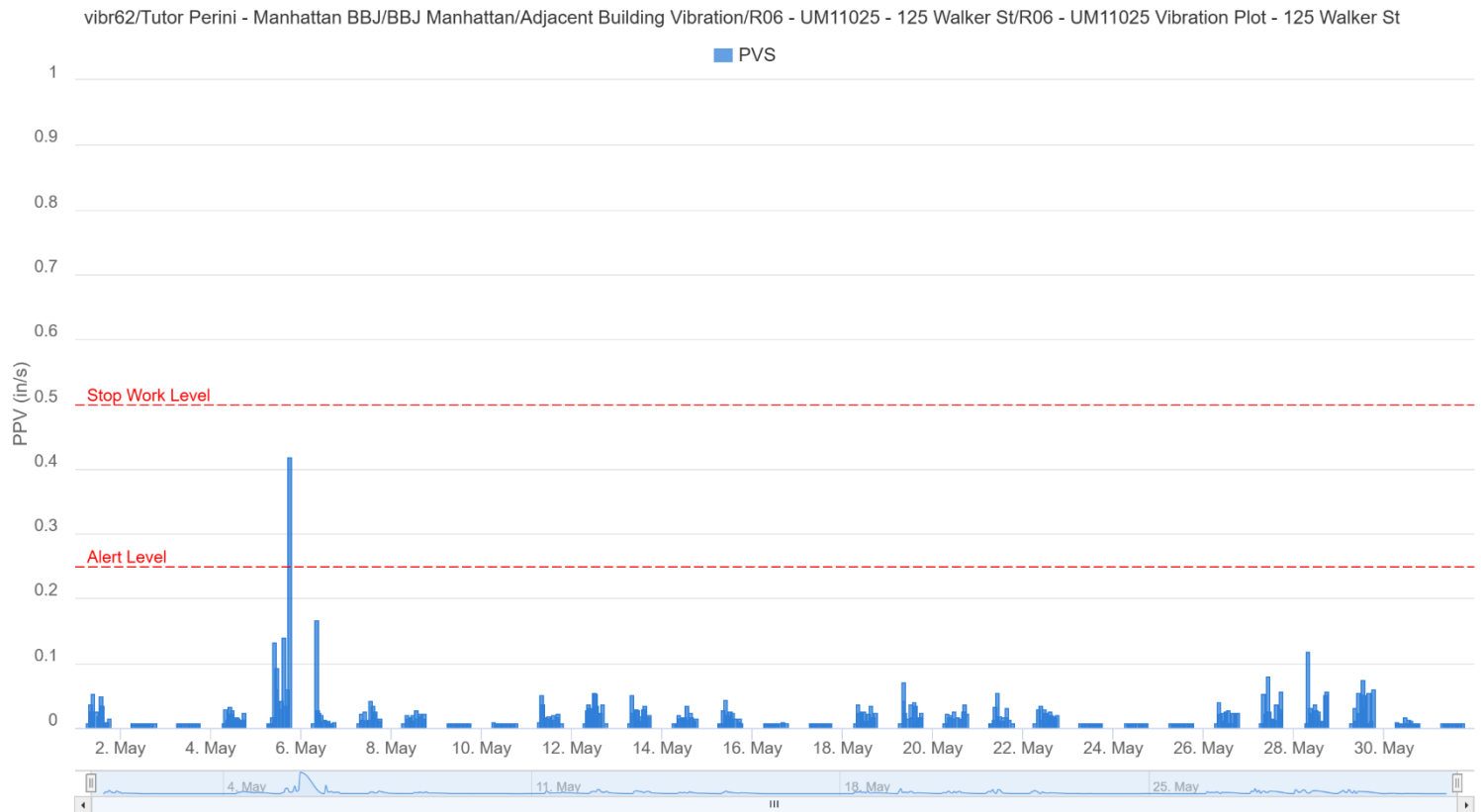
vibr62/Tutor Perini - Manhattan BBJ/BBJ Manhattan/Adjacent Building Vibration/R04 - UM6055 - 125 Walker St/R04 - UM6065 Vibration Plot - 125 Walker St



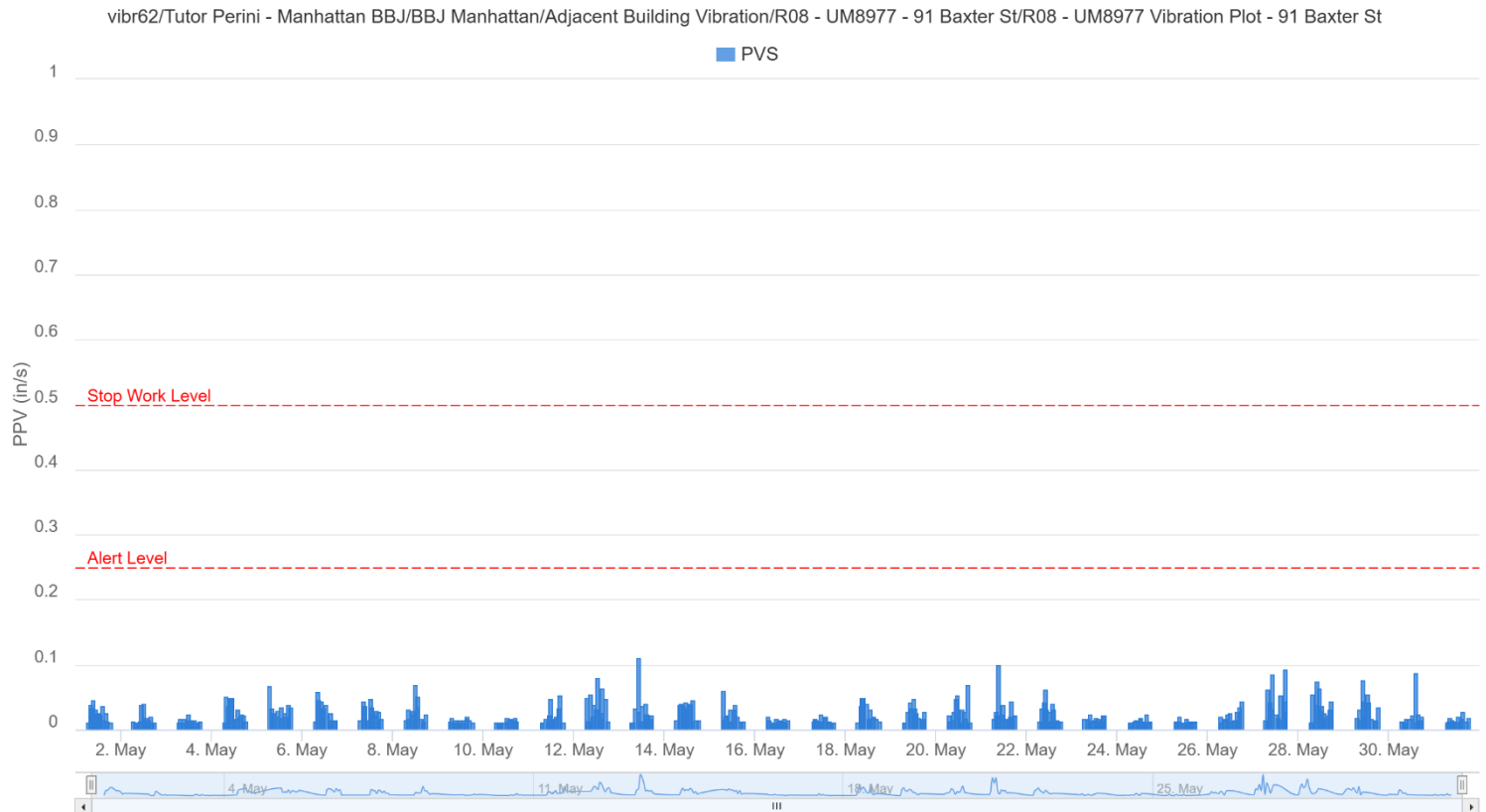
R05



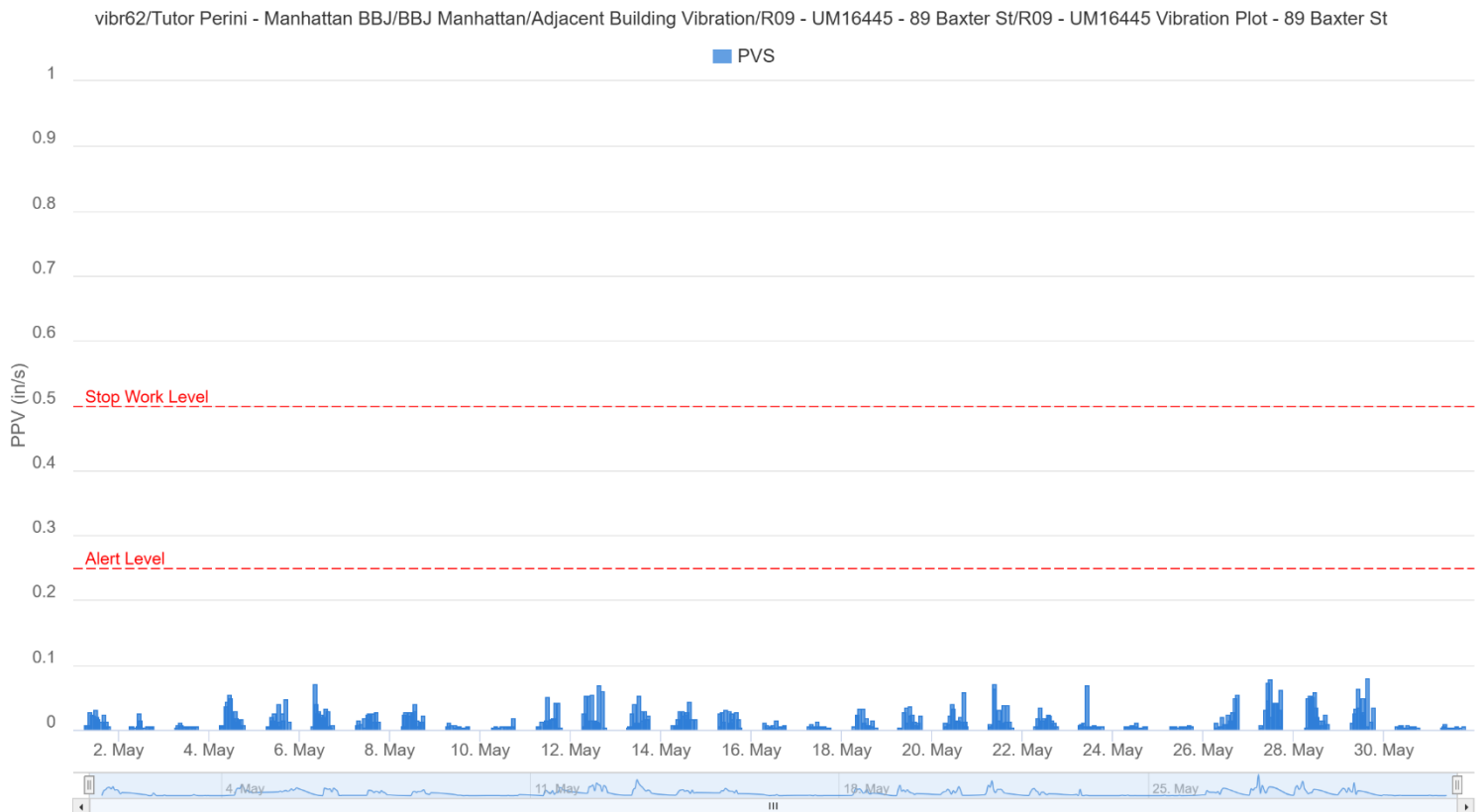
R06



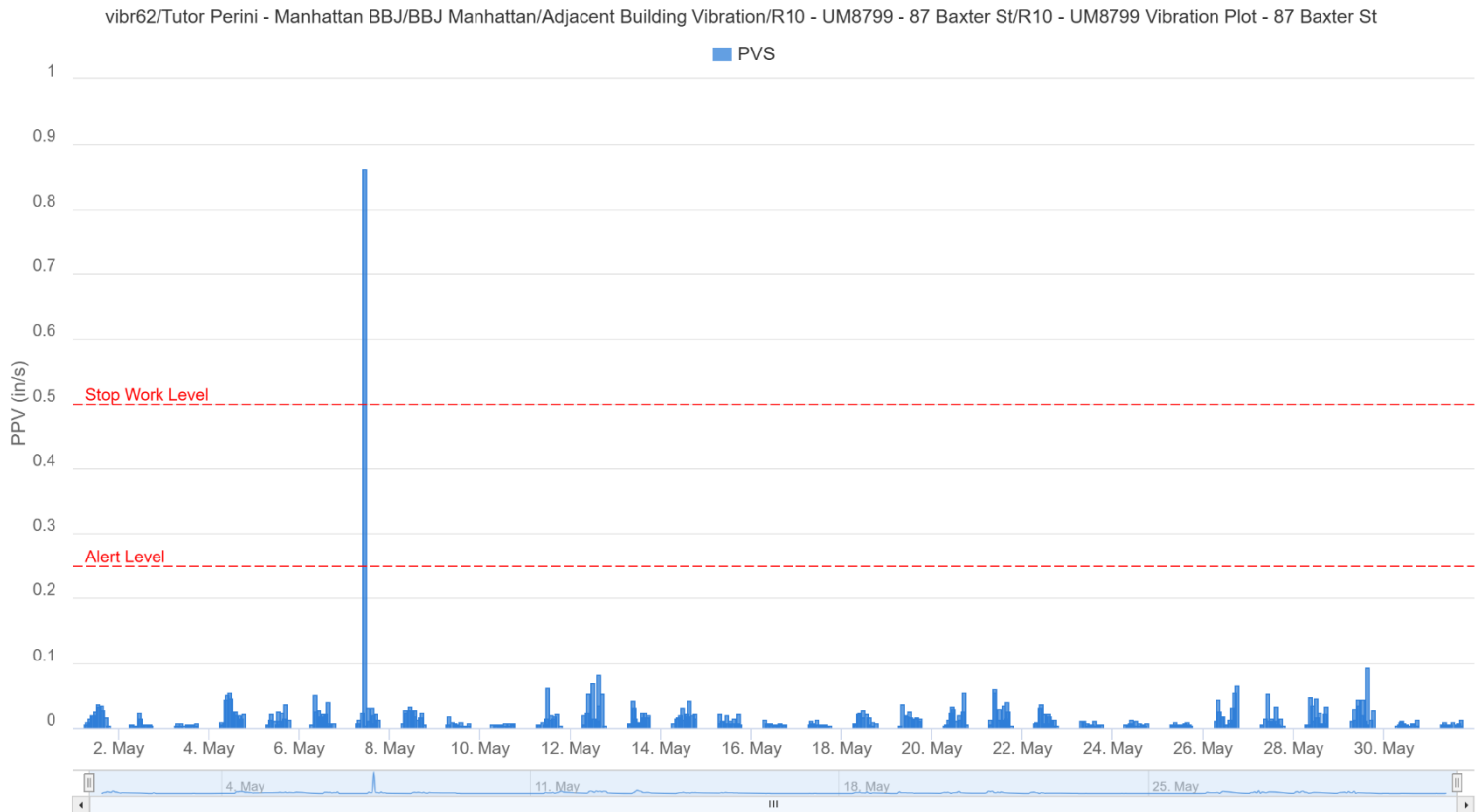
R08



R09



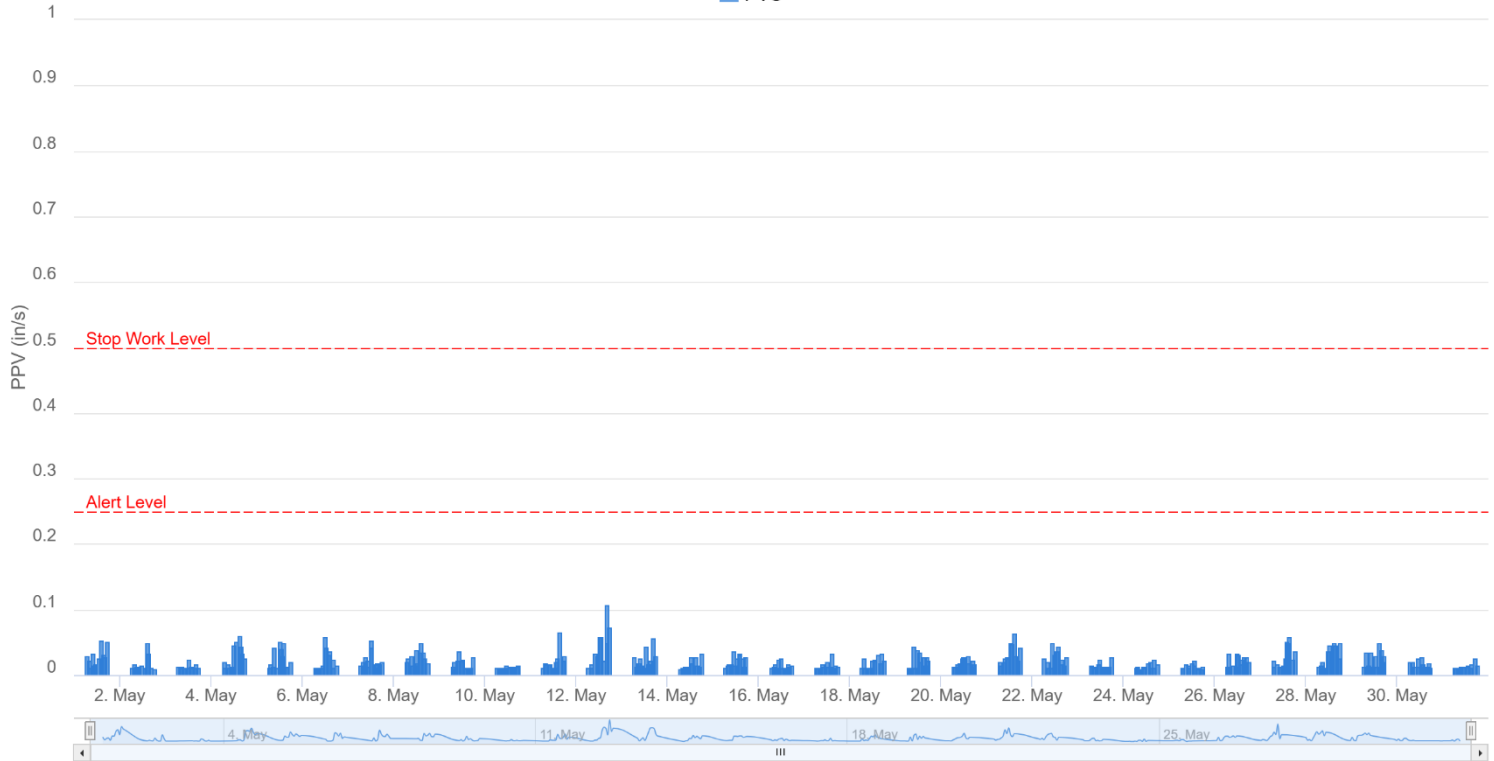
R10



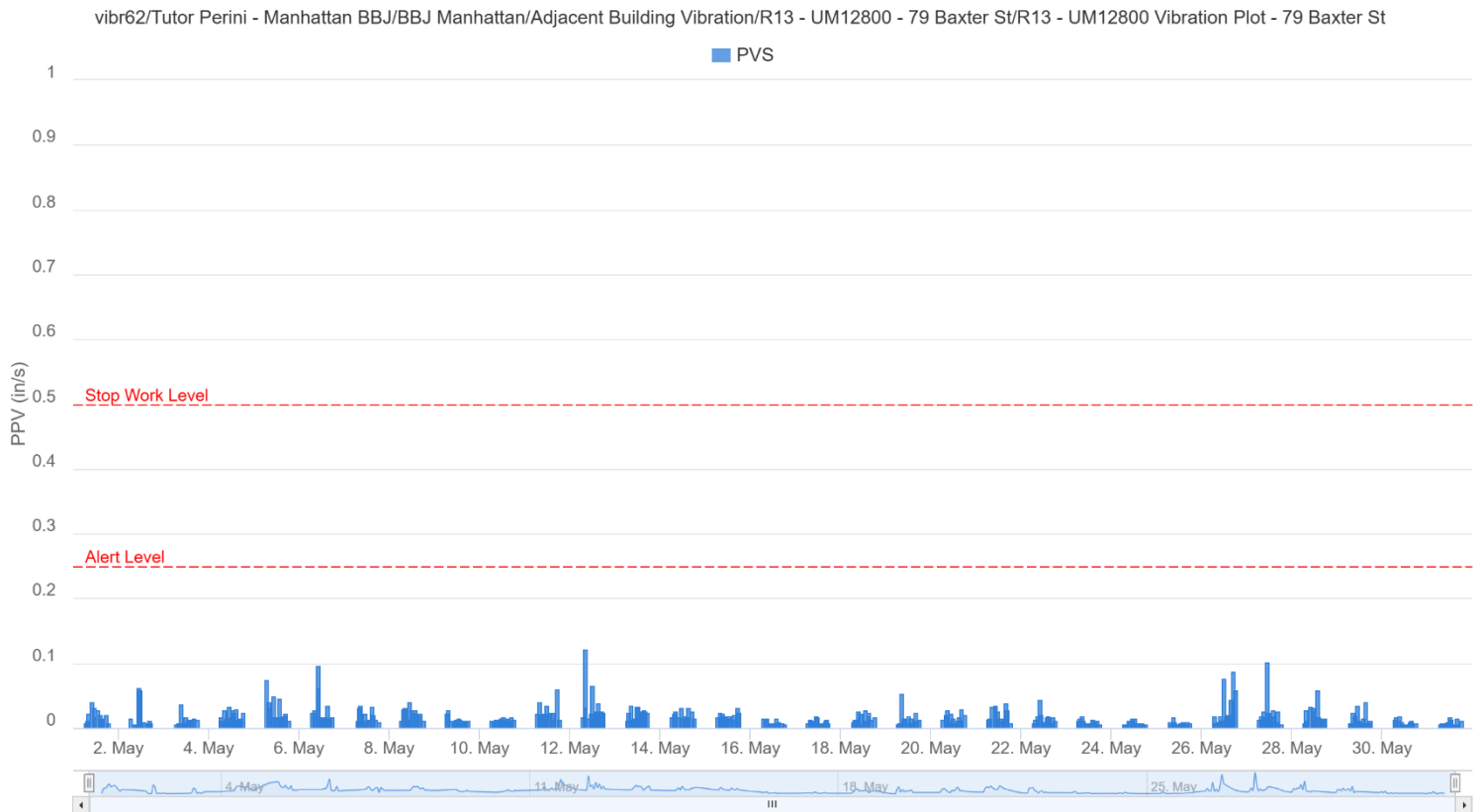
R11

vibr62/Tutor Perini - Manhattan BBJ/BBJ Manhattan/Adjacent Building Vibration/R11 - UM8459 - 83 Baxter St/R11 - UM8459 Vibration Plot - 83 Baxter St

■ PVS



R13

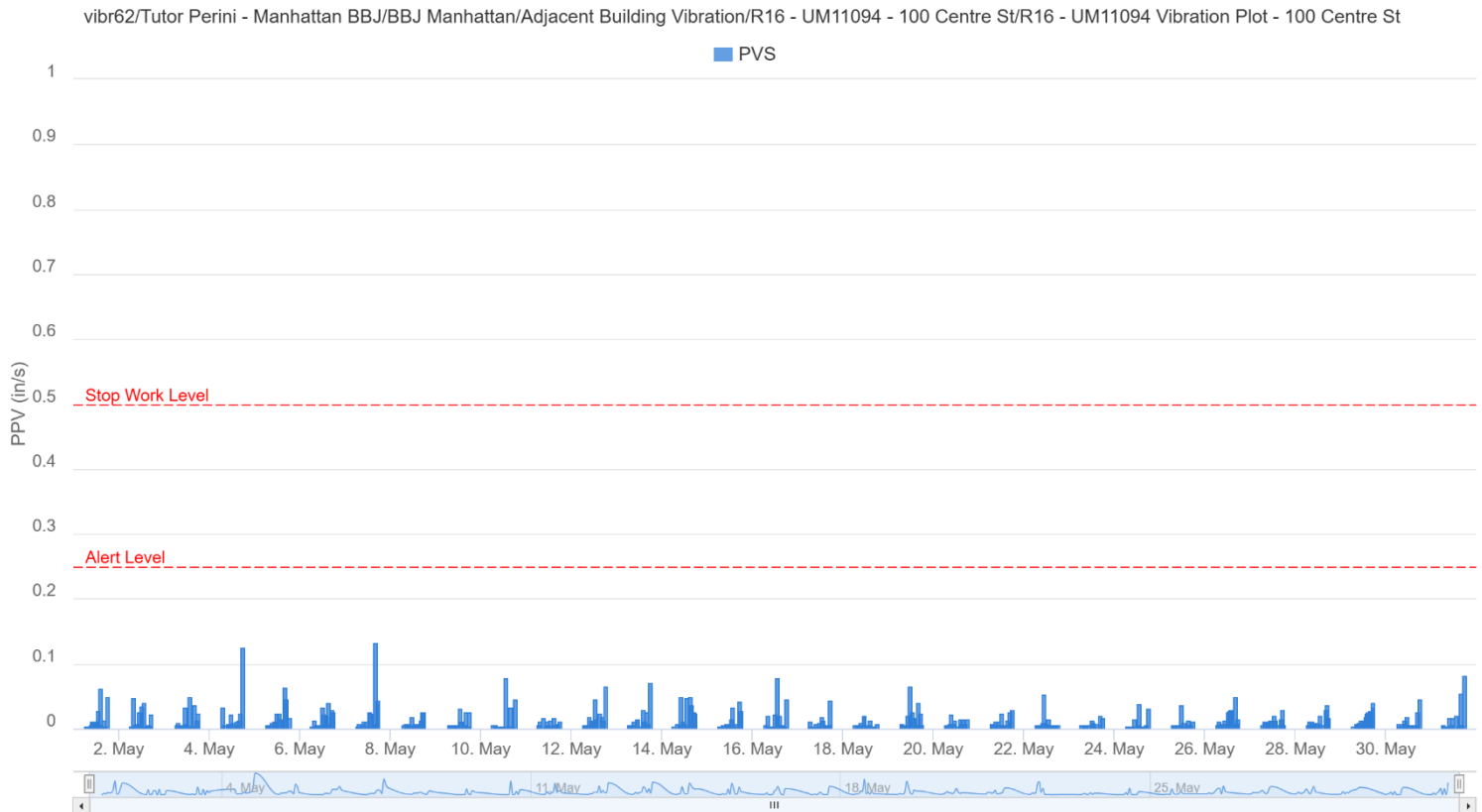


R14

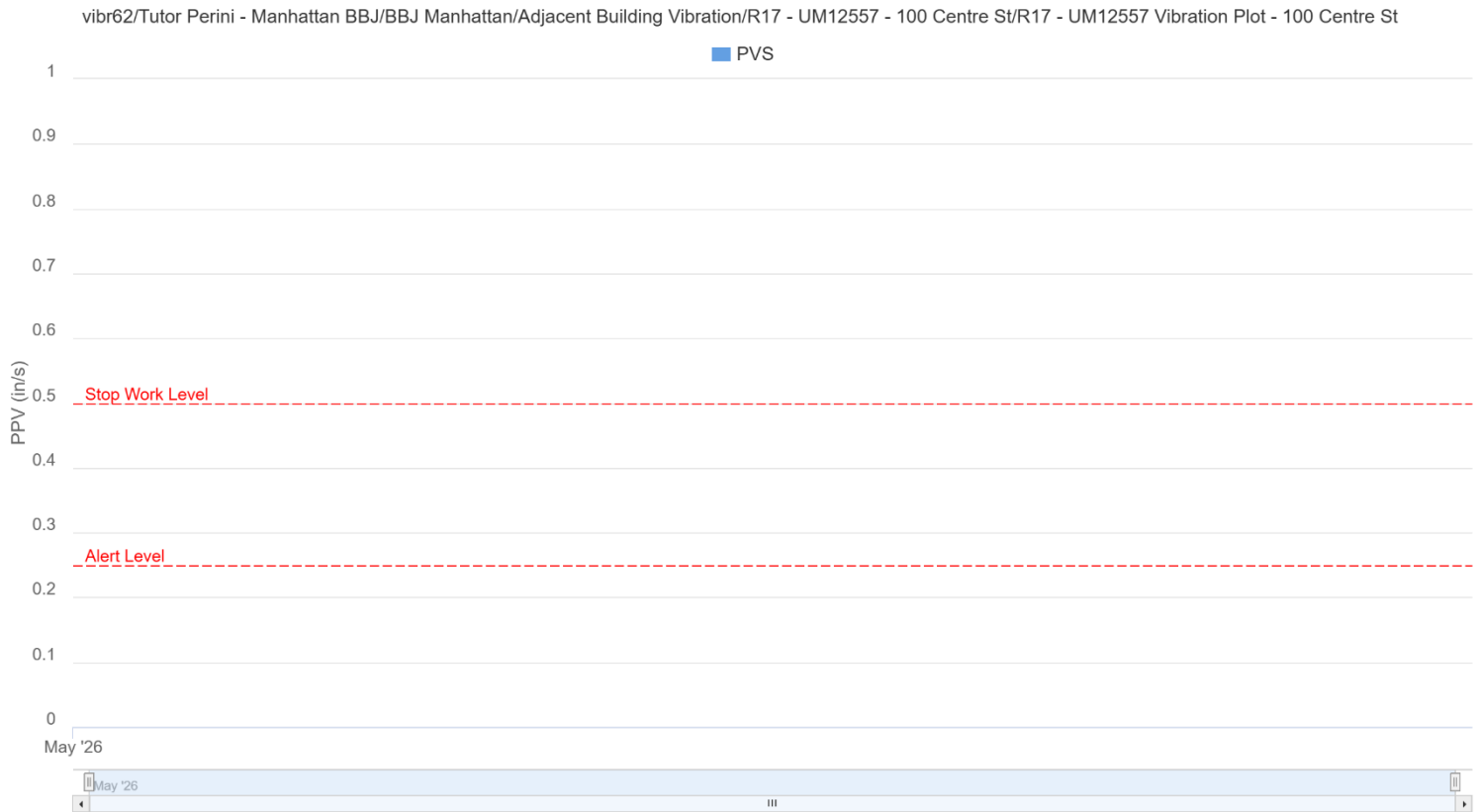
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R16



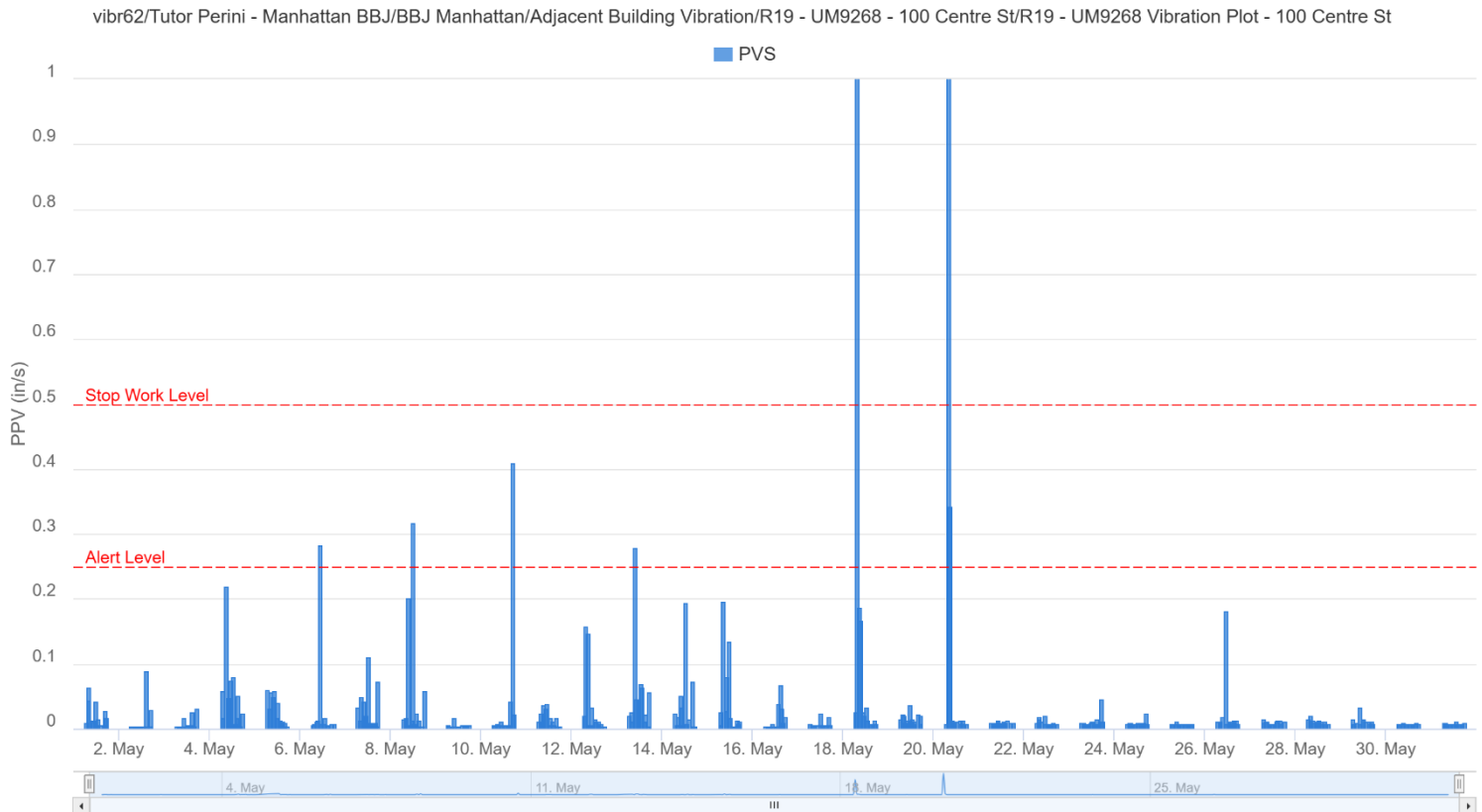
R17



R18



R19



R20

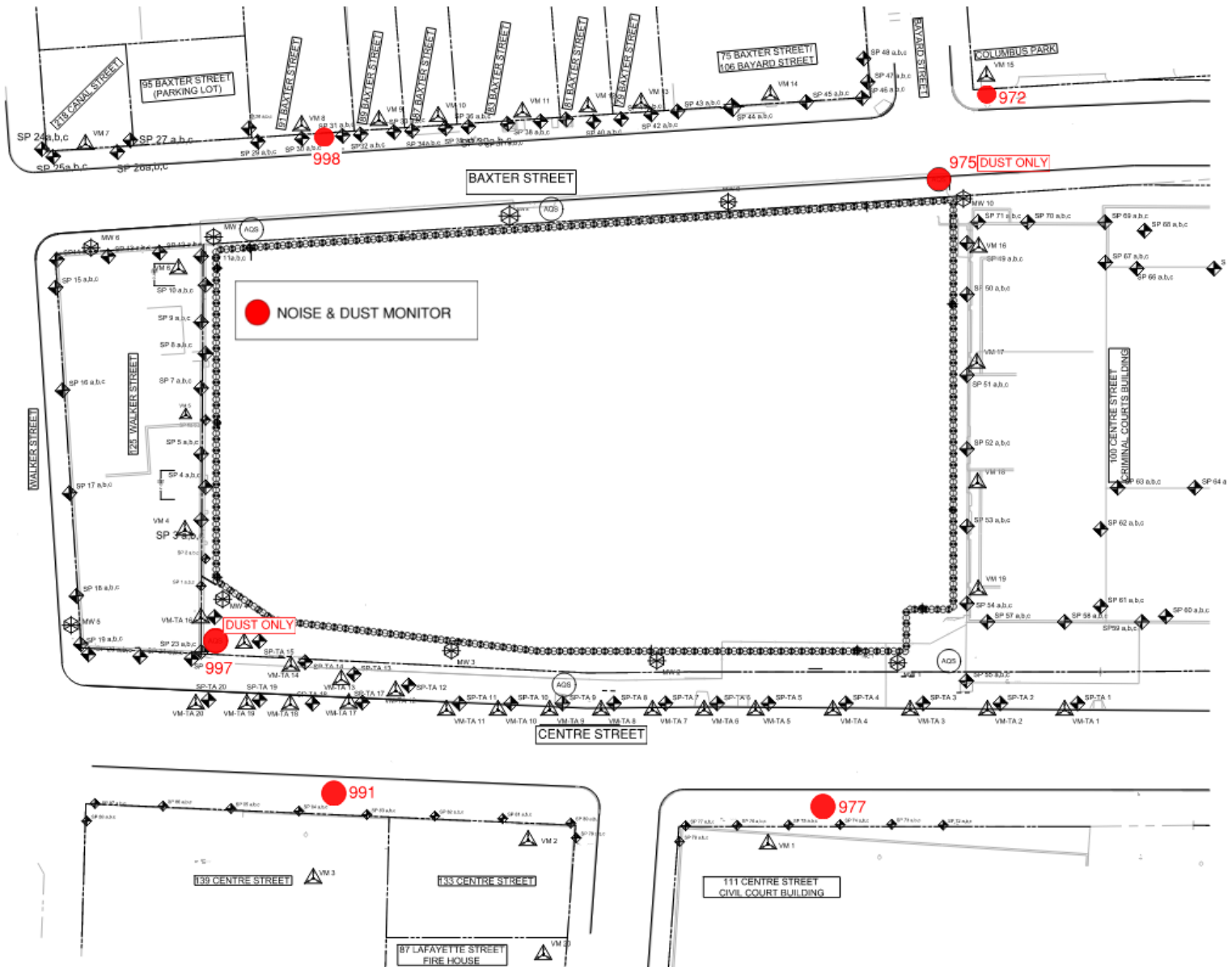
vibr62/Tutor Perini - Manhattan BBJ/BBJ Manhattan/Adjacent Building Vibration/R20 - UM8969 - 87 Lafayette St/R20 - UM8969 Vibration Plot - 87 Lafayette St



Vibration Monitoring Baseline

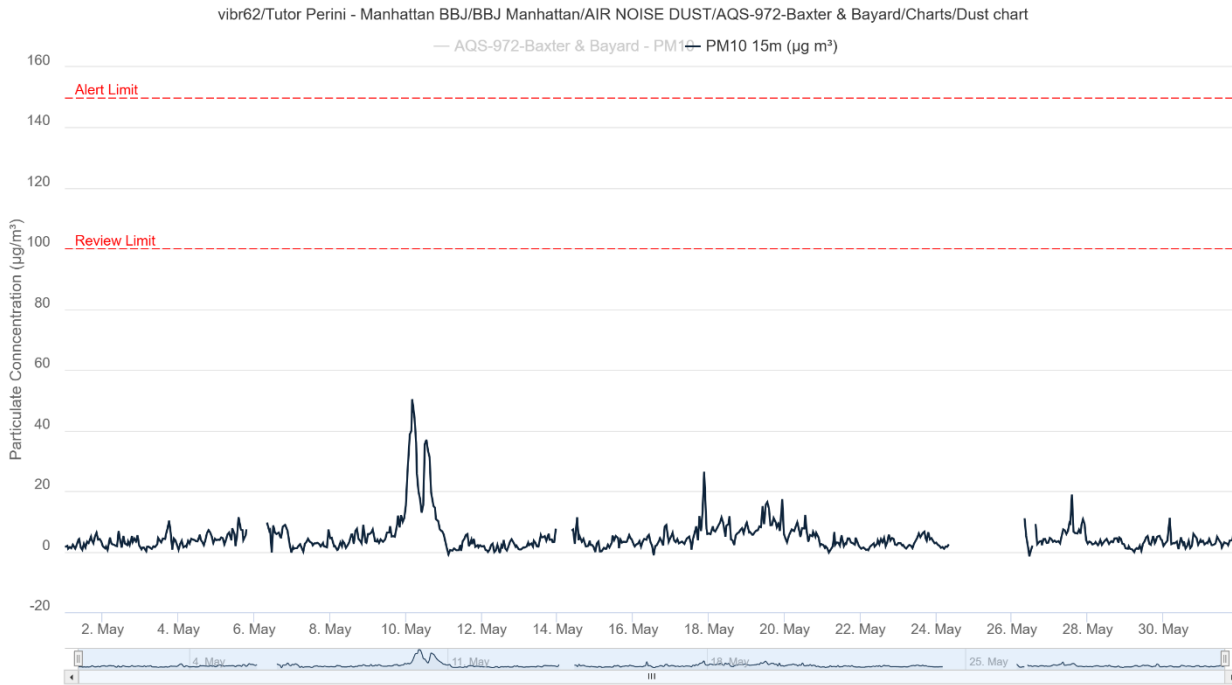


Dust Monitor Locations

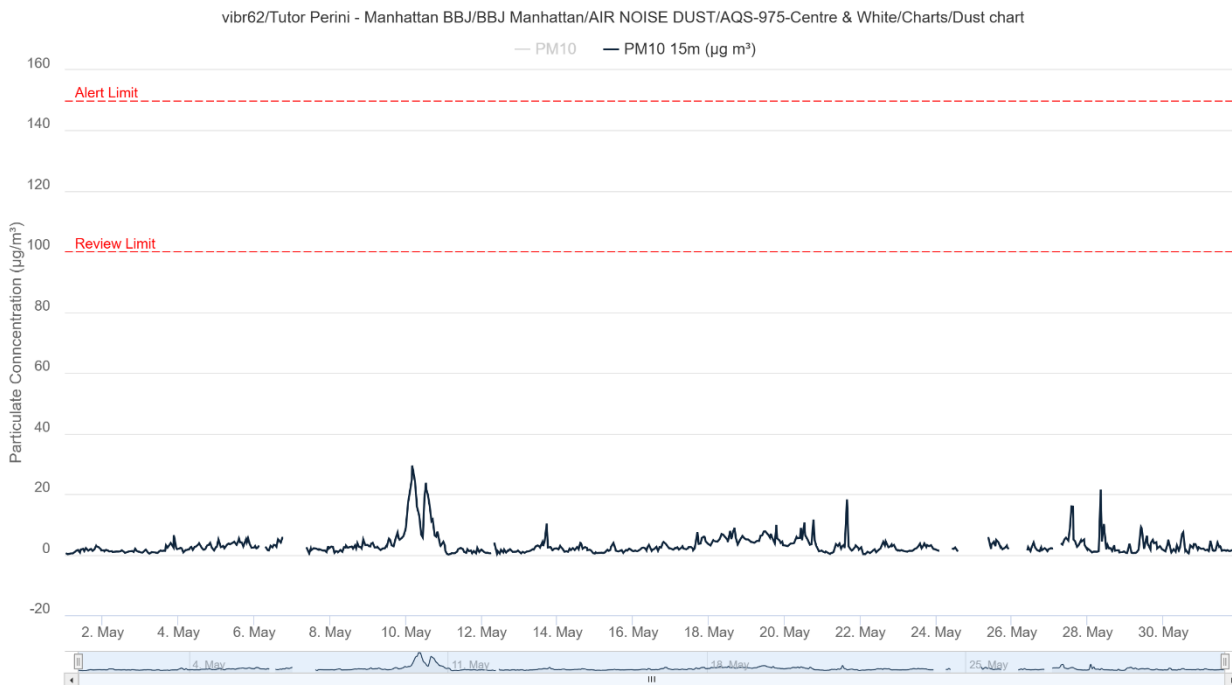


Dust Monitor Plots

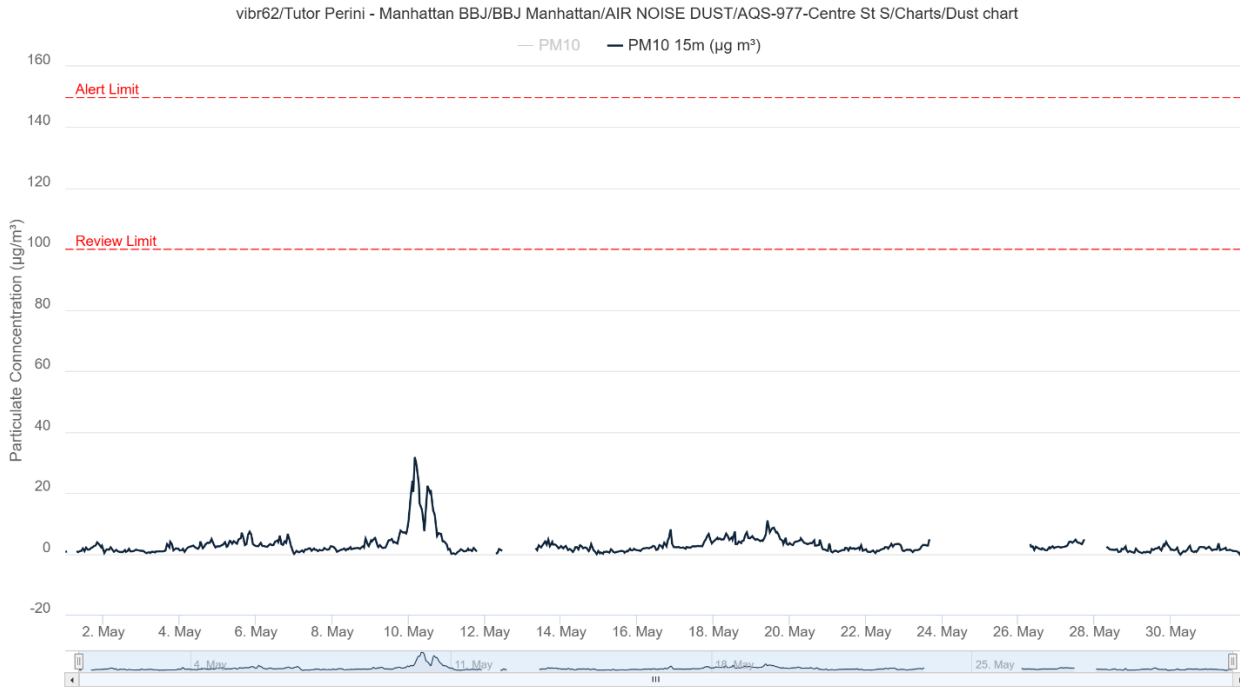
AQS 972 – Baxter & Bayard Street – Dust Chart



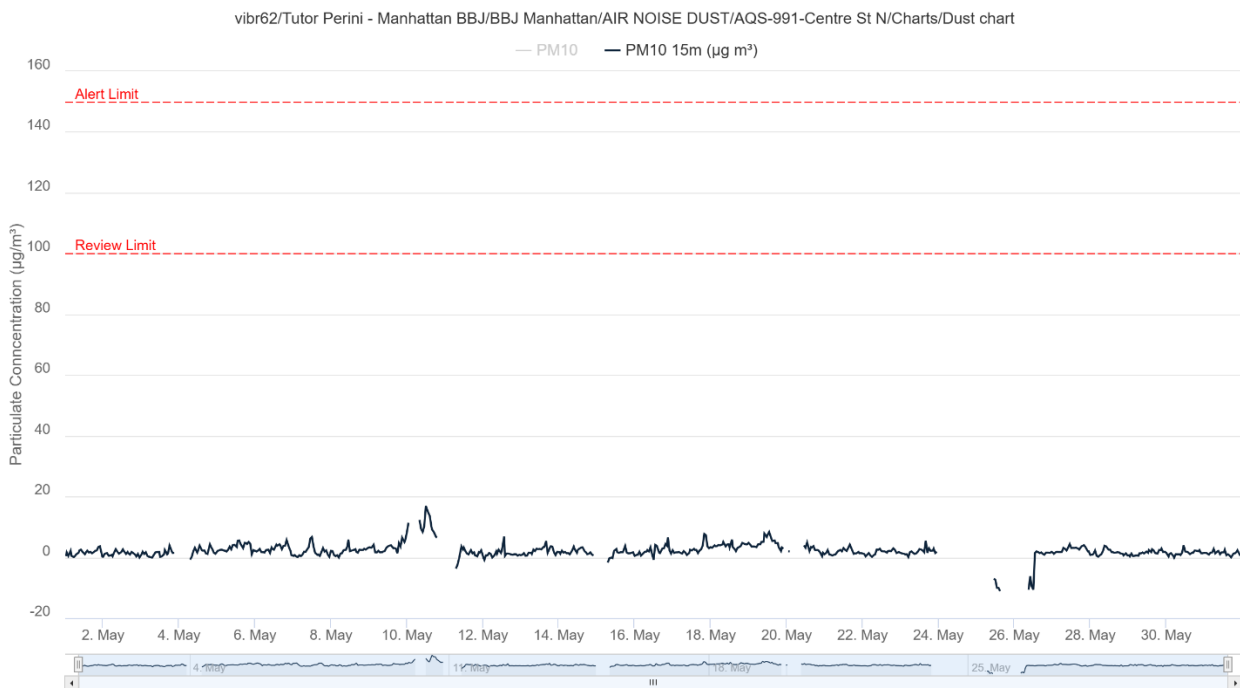
AQS 975 – Centre & White Street – Dust Chart



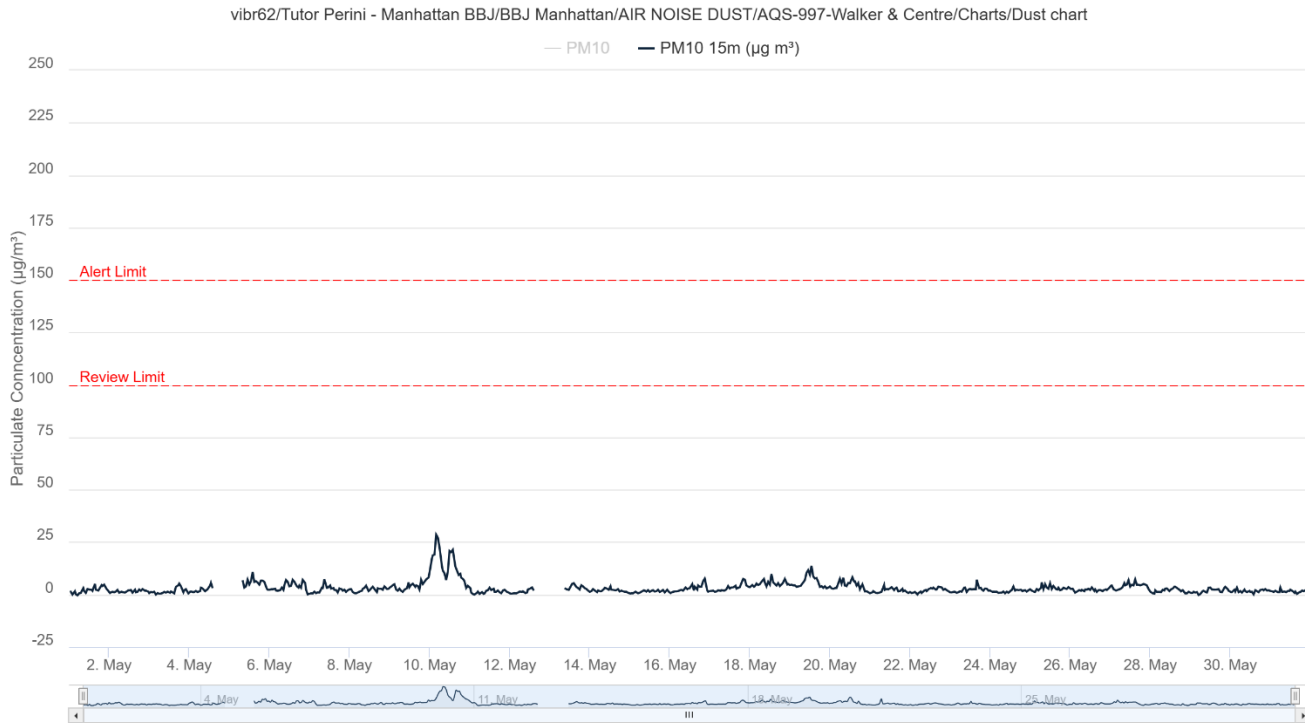
AQS 977 – Centre Street South – Dust Chart



AQS 991 – Centre Street North – Dust Chart



AQS 997 – Centre & Walker Street – Dust Chart



AQS 998 – Baxter Street – Dust Chart

