

**AIR, NOISE AND VIBRATION
MONTHLY MONITORING REPORT
Number 011**

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DDC Project ID:	BBJ-XSP	Period Start: 6/1/23 End 6/30/23	
Project Name:	NYCDDC – The Bronx Site Preparation		
DDC Pin No.:	8502021CR0004P-06P		
1) Community Air Monitoring Weekly 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
26	26	1	There was one instance of an elevated reading above the 100 ug/m ³ dust action level. This instance occurred on 6/12 and is detailed below.
Community Air Monitoring Weekly 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
6/12/23 10:04am	107	98	One elevated reading above the dust action level was caused by rock scraping within the southeast corner of the site. Work was temporarily stopped, and water was used to mitigate dust in the work area.
Narrative Summary of Air Monitoring, Excursions and Corrective Actions: <i>In June 2023, construction-related levels of Particulate Matter (PM) PM10 did not surpass the Daily Permissible Exposure Limits (PEL) as set by federal standards for the 8-hour Time Weighted Average (TWA) and did not cause air quality concerns to the community and/or onsite workers.</i>			

2) Community Noise Monitoring Weekly Summary

Units: 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	Comments
26	26	1	There was one instance of noise levels above the 80 dBA limit that occurred on 6/6 as detailed below.

Community Noise Monitoring Weekly Excursions and Corrective Actions

Action Level = 80 dBA
Stop Work Level = 80 dBA

Date: Time	Maximum Noise Reading before Corrective Action (dBA)	Maximum Noise Reading after Corrective Action (dBA)	Corrective Action
6/6/2023 8:00am	80.20	79.10	Exceedance began at 7:50am and ended at 8:00am due to excavator work near the noise meter on 142 nd St. Excavator work was stopped and work pace was slowed down to ensure that noise levels were reduced below 80 dBA when work began again.

Narrative Summary of Air Monitoring, Excursions and Corrective Actions:

In June 2023, construction-related levels of noise did surpass the limits of Local Law 113 of 2005 during one occasion on 6/6/23 where work stoppage and corrective actions were implemented adjusting excavator work and ensuring noise levels were reduced below 80 dBA. The daily average was below the limits and did not cause noise concerns for the community.

3) 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 Vibration Levels above Action Levels by Month	Comments
26	30	7	Two out of six vibration monitors (VM) recorded a total of fourteen exceedances. These exceedances were isolated events likely not related to construction activities or were recorded during non-construction hours. Detailed information about exceedances is provided in the narrative summary section and plots.

Community Vibration Monitoring Excursions and Corrective Actions

Action Level = 0.5 in/sec above background

Stop Work Level = 1.0 in/sec above background

Date: Time	Maximum Vibration Level before Corrective Action (in/sec)	Maximum Vibration Level after Corrective Action (in/sec)	Corrective Action
6/7/2023 07:25	0.825	0.055	This is an isolated event recorded at VM5 possibly due to non-construction related activities, associated with resident's activities.
6/3/2023 17:17 & 17:18	0.91	0.01	Exceedances observed at VM6 were recorded during non-construction hours.
6/6/2023 08:01	3.835	0.08	This is an isolated event recorded at VM6 possibly due to non-construction related activities, associated with resident's activities.
6/9/2023 15:38, 15:41, 15:42, 15:58, & 16:04	5.61	0.01	Exceedances observed at VM6 were recorded during non-construction hours.
6/15/2023 10:15	5.12	0.01	This is an isolated event recorded at VM6 possibly due to non-construction related activities, associated with resident's activities.
6/23/2023 10:14	1.06	0.01	This is an isolated event recorded at VM6 possibly due to non-construction related activities, associated with resident's activities.
6/23/2023 18:19	1.335	0.01	Exceedance observed at VM6 was recorded during non-construction hours.
6/29/2023 10:42	1.195	0.49	This is an isolated event recorded at VM6 possibly due to non-construction related activities, associated with resident's activities.
6/29/2023 20:38	5.495	0.01	Exceedance observed at VM6 was recorded during non-construction hours.

Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions:

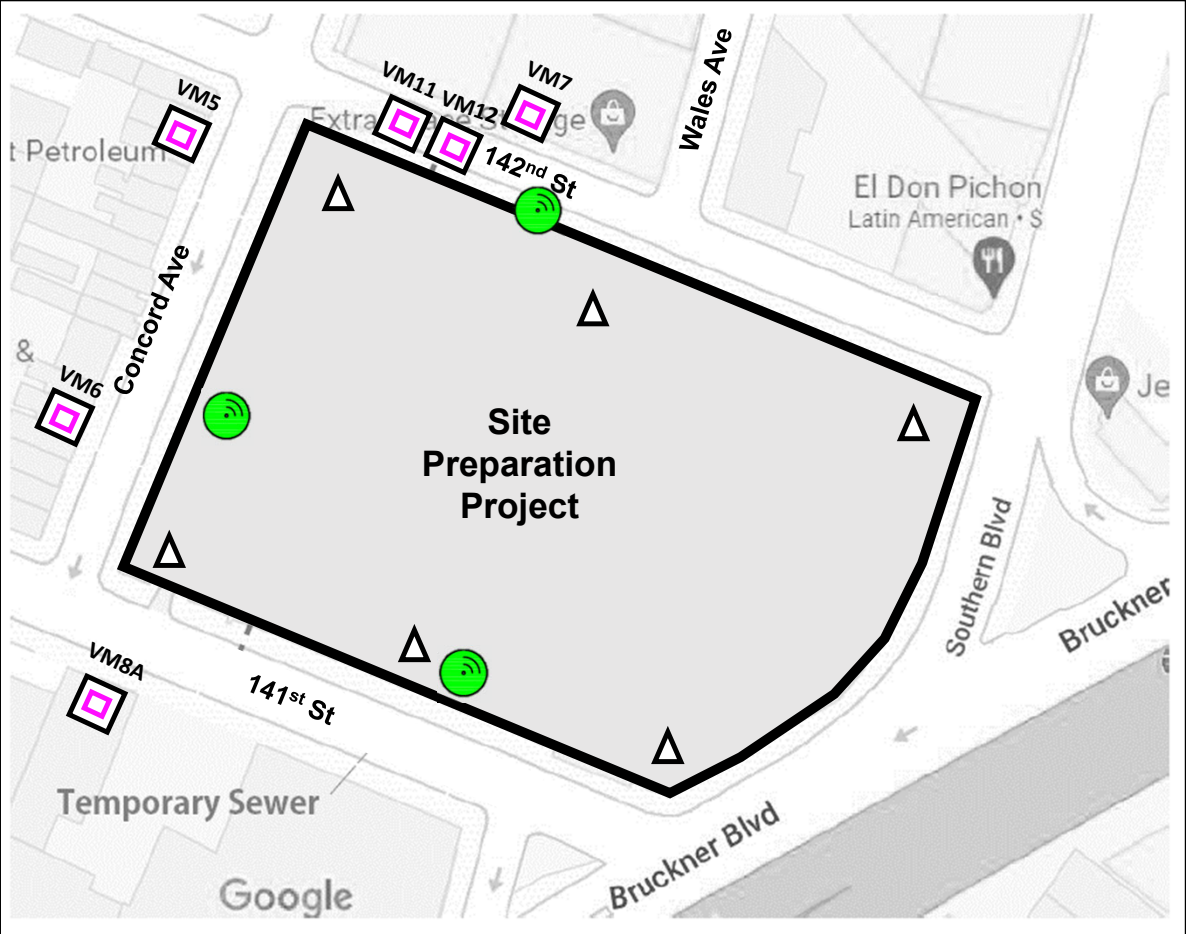
In June 2023, two vibration monitors had recorded exceedances. There were exceedances recorded during non-construction hours at VM6. There were isolated events recorded at VM5 and VM6, possibly due to non-construction related activities, associated with resident's activities. There were isolated events recorded at VM5 and VM6 during baseline period as well. No corrective actions were required at this time.




ATTACHMENTS:

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

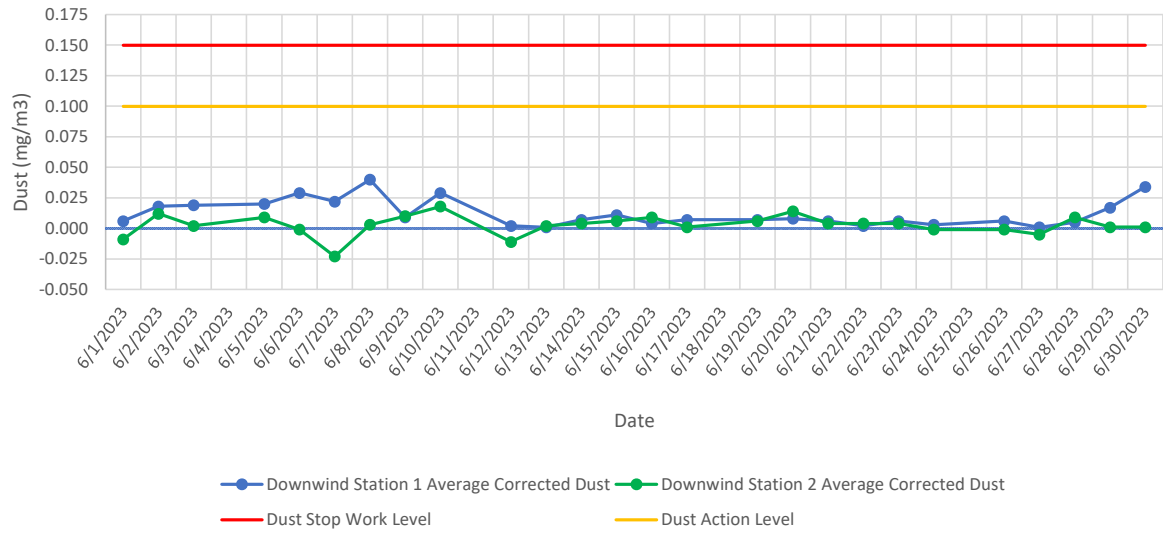
Attachments

Environmental Monitoring The Bronx

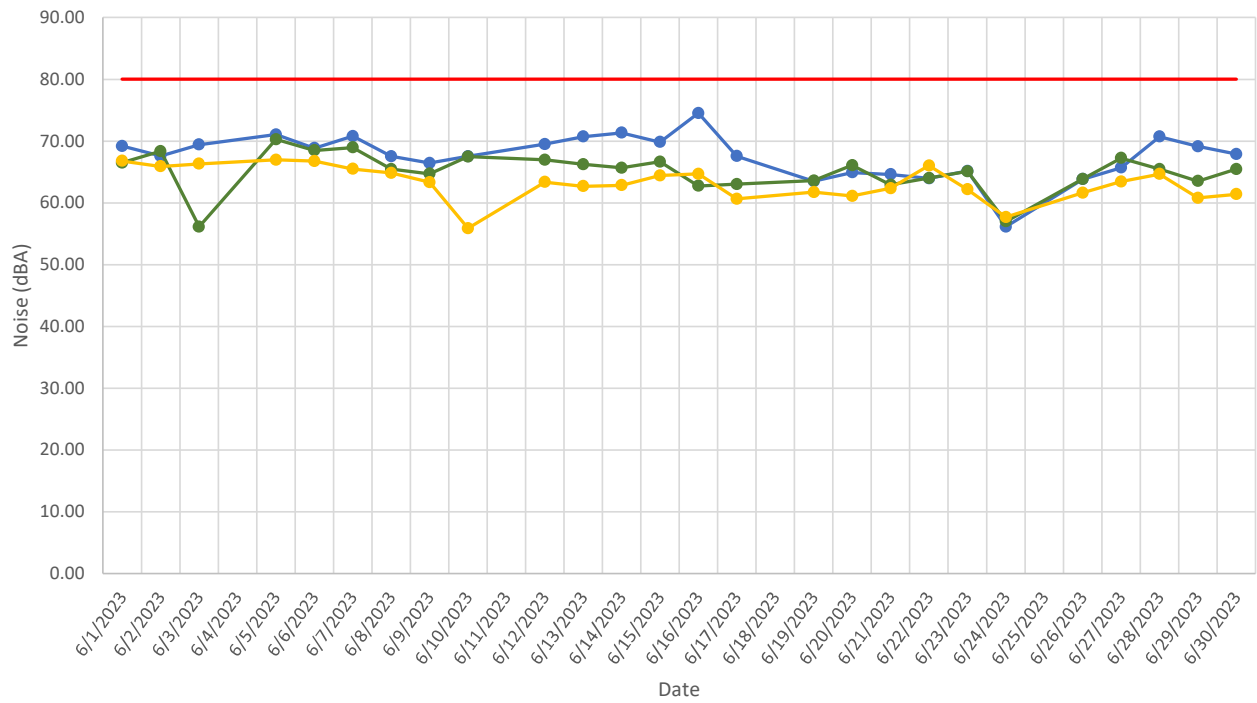


-  Vibration Monitor (VM)
-  Air Monitoring Station (DM)
-  Noise Monitoring Station (NM)

June 2023, 15-min Running Average Air Quality Data, PM 10ug/m3 Plot

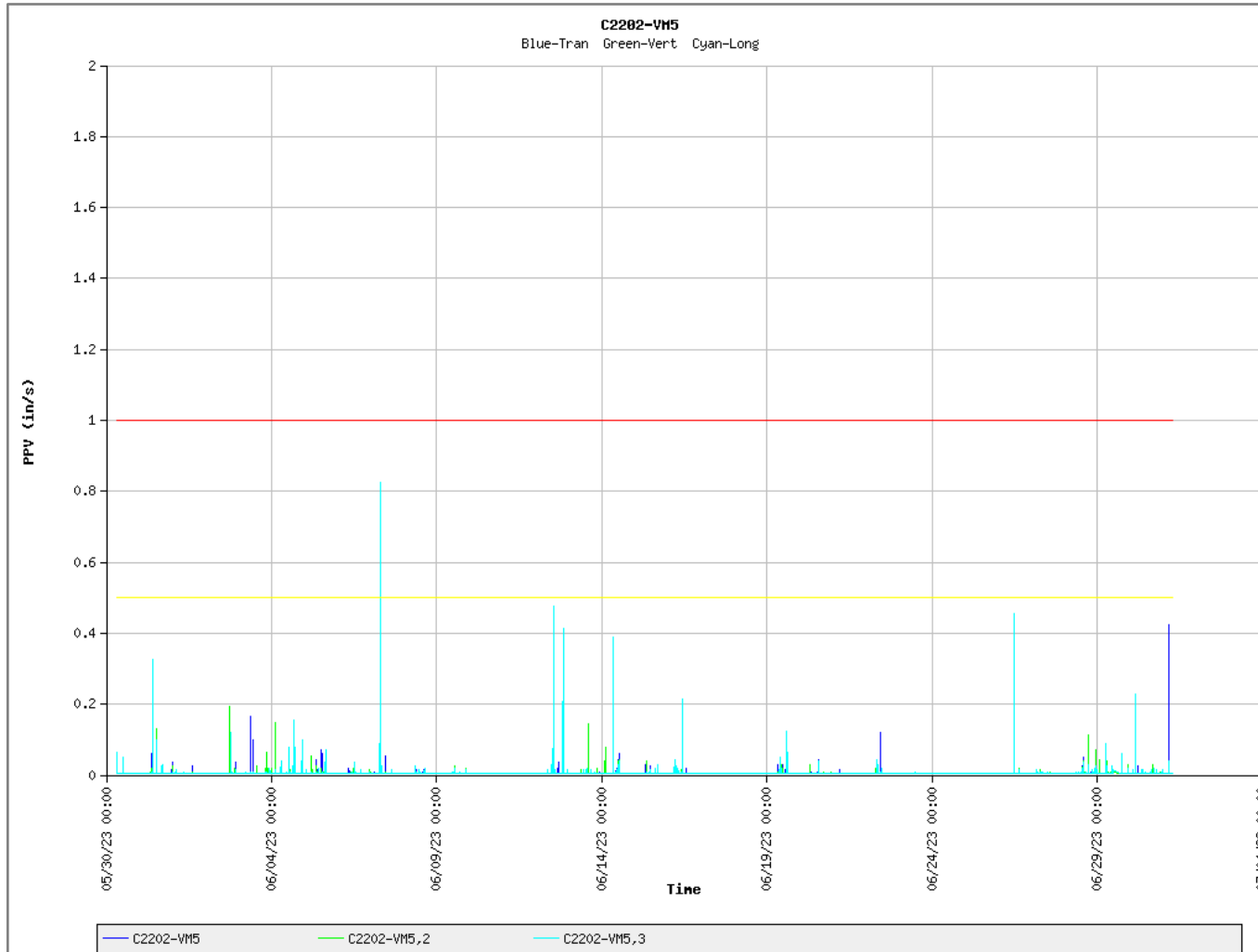


June 2023, Average Equivalent Sound Level Plot (Laeq)



—●— Noise Meter #1 —●— Noise Meter #2 —●— Noise Meter #3 — Action Level

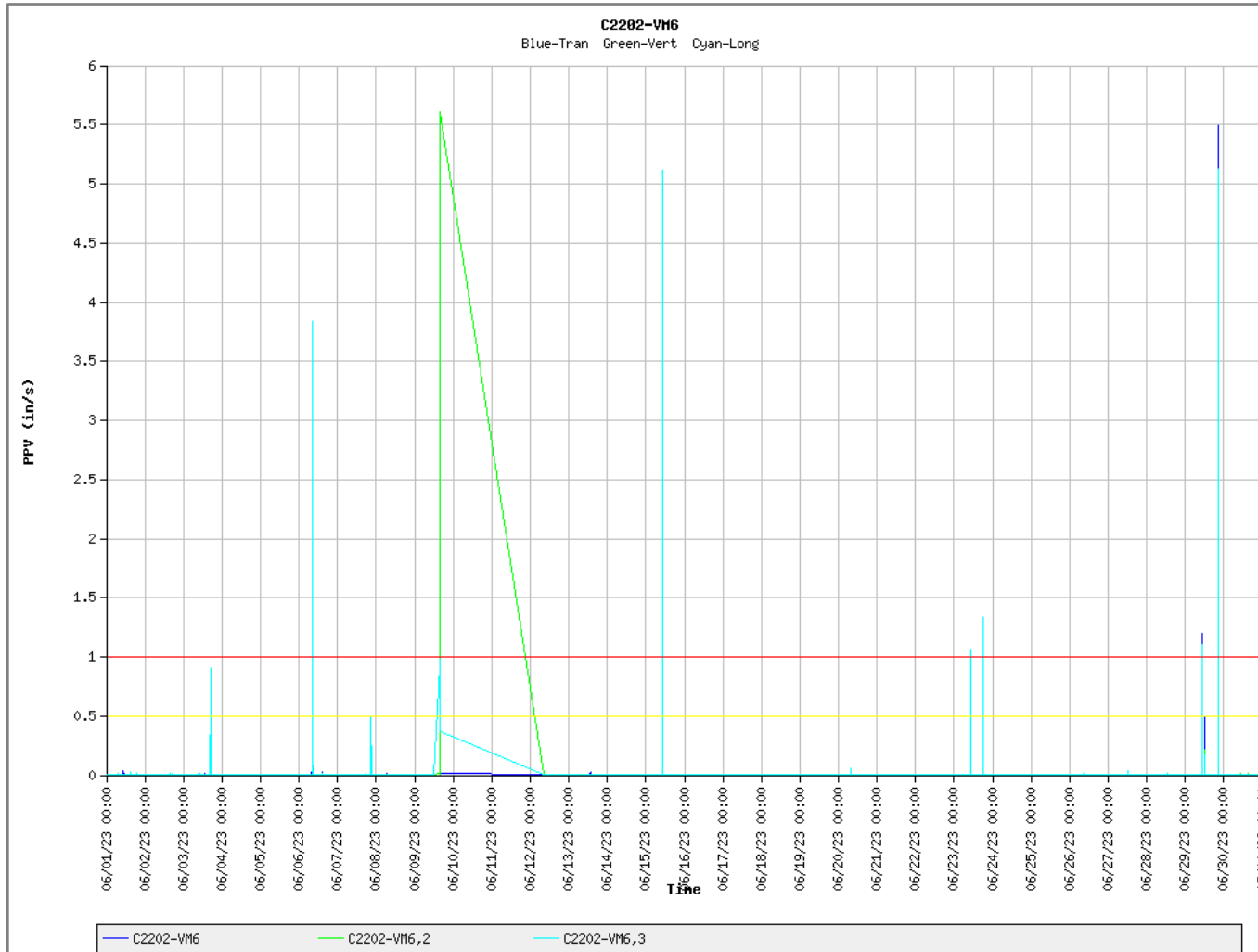
The Bronx Site Preparation June 2023 Vibration Monitoring Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM5 Transverse
C2202-VM5,2 Vertical
C2202-VM5,3 Longitudinal

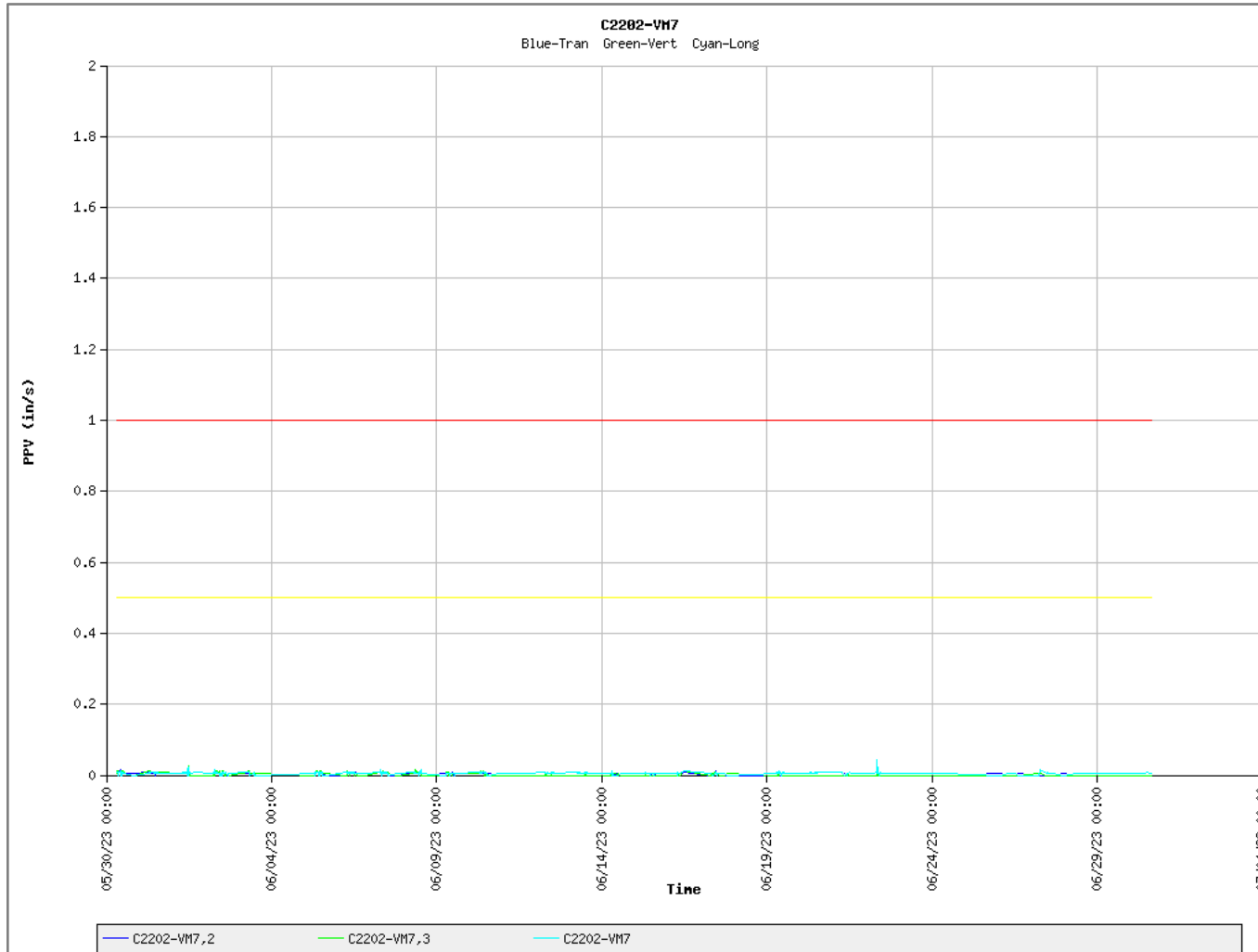
The Bronx Site Preparation June 2023 Vibration Monitoring Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM6 Transverse
C2202-VM6,2 Vertical
C2202-VM6,3 Longitudinal

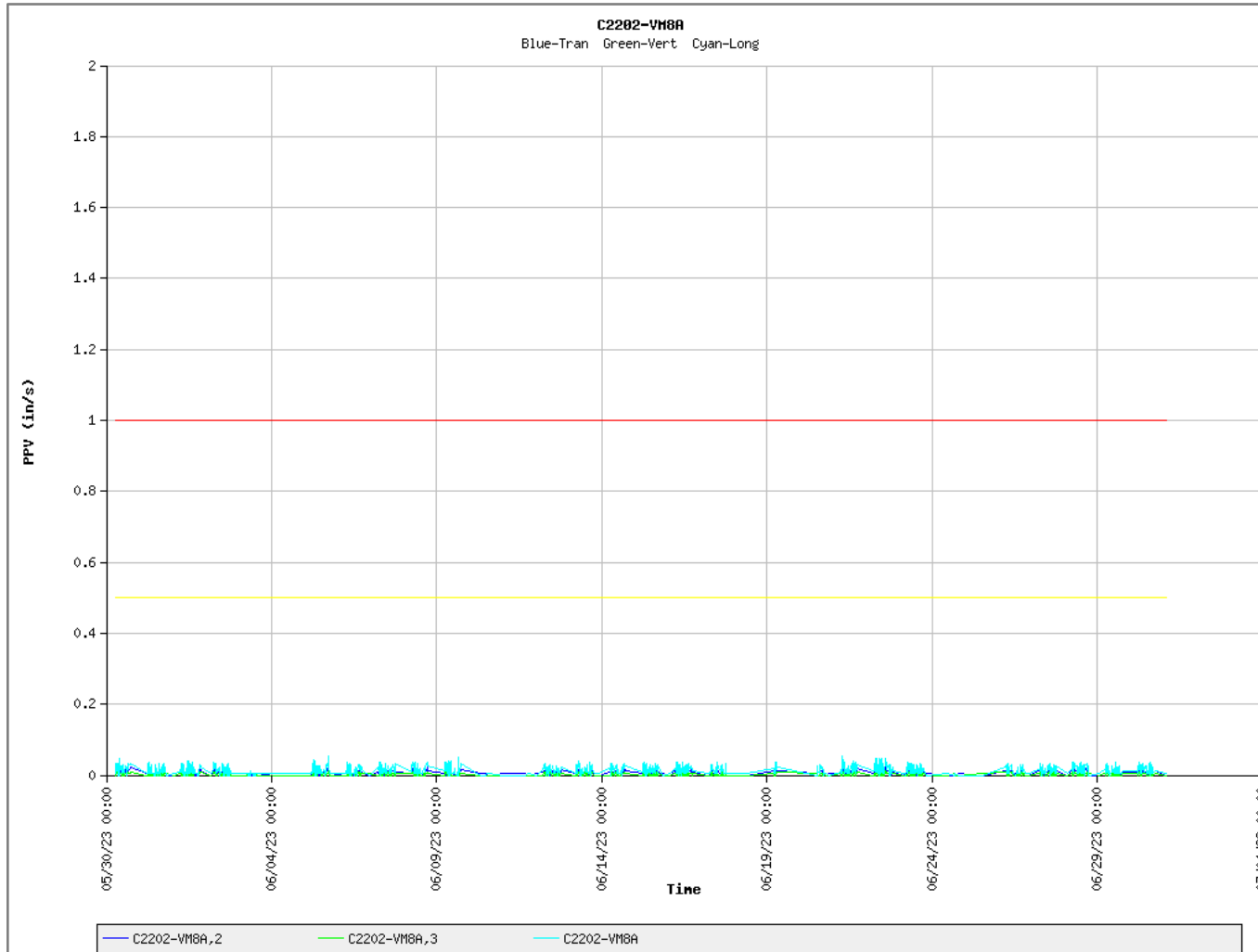
The Bronx Site Preparation June 2023 Vibration Monitoring Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM7 Longitudinal
C2202-VM7,2 Transverse
C2202-VM7,3 Vertical

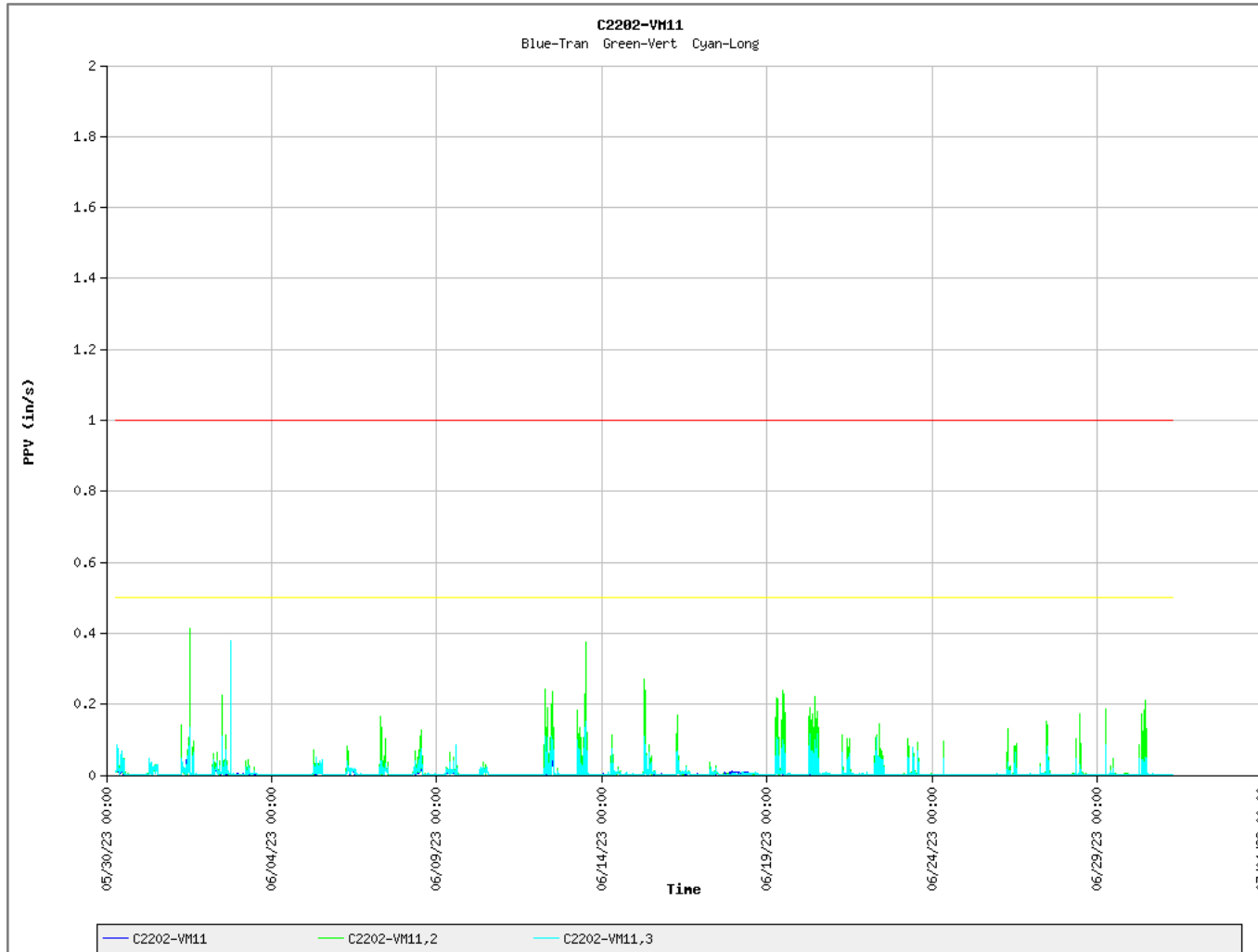
The Bronx Site Preparation June 2023 Vibration Monitoring Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM8A Longitudinal
C2202-VM8A,2 Transverse
C2202-VM8A,3 Vertical

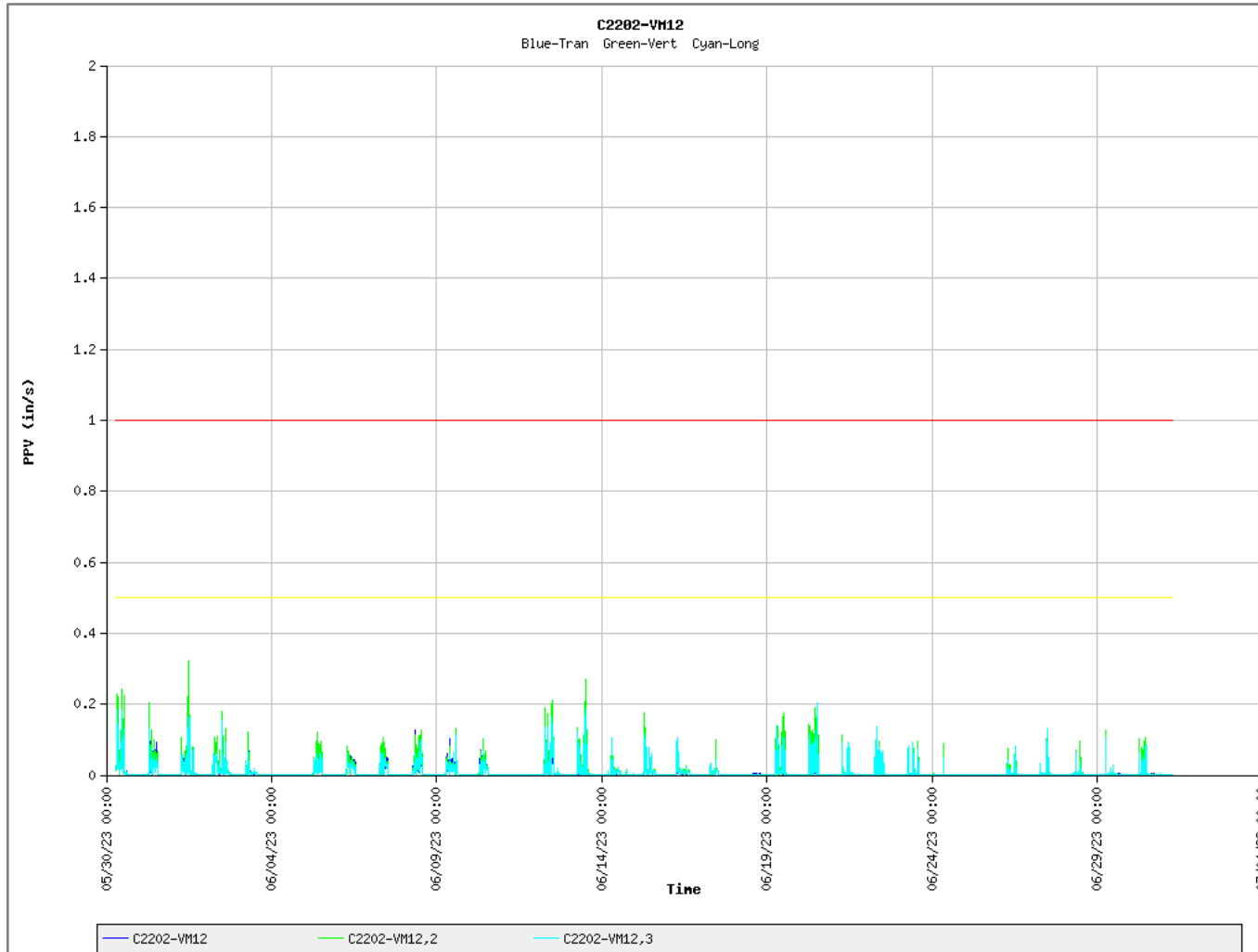
The Bronx Site Preparation June 2023 Vibration Monitoring Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM11 Transverse
C2202-VM11,2 Vertical
C2202-VM11,3 Longitudinal

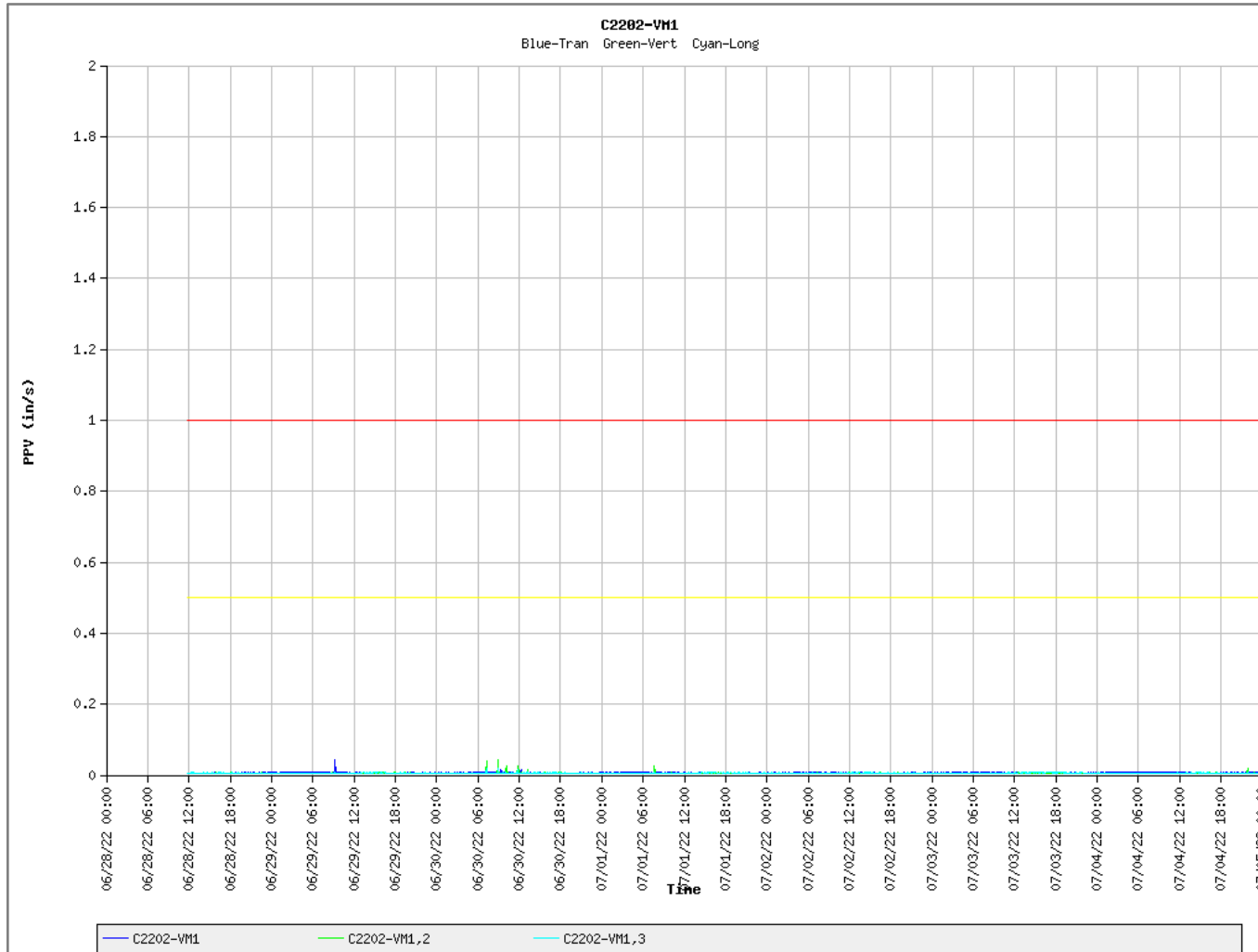
The Bronx Site Preparation June 2023 Vibration Monitoring Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM12 Transverse
C2202-VM12,2 Vertical
C2202-VM12,3 Longitudinal

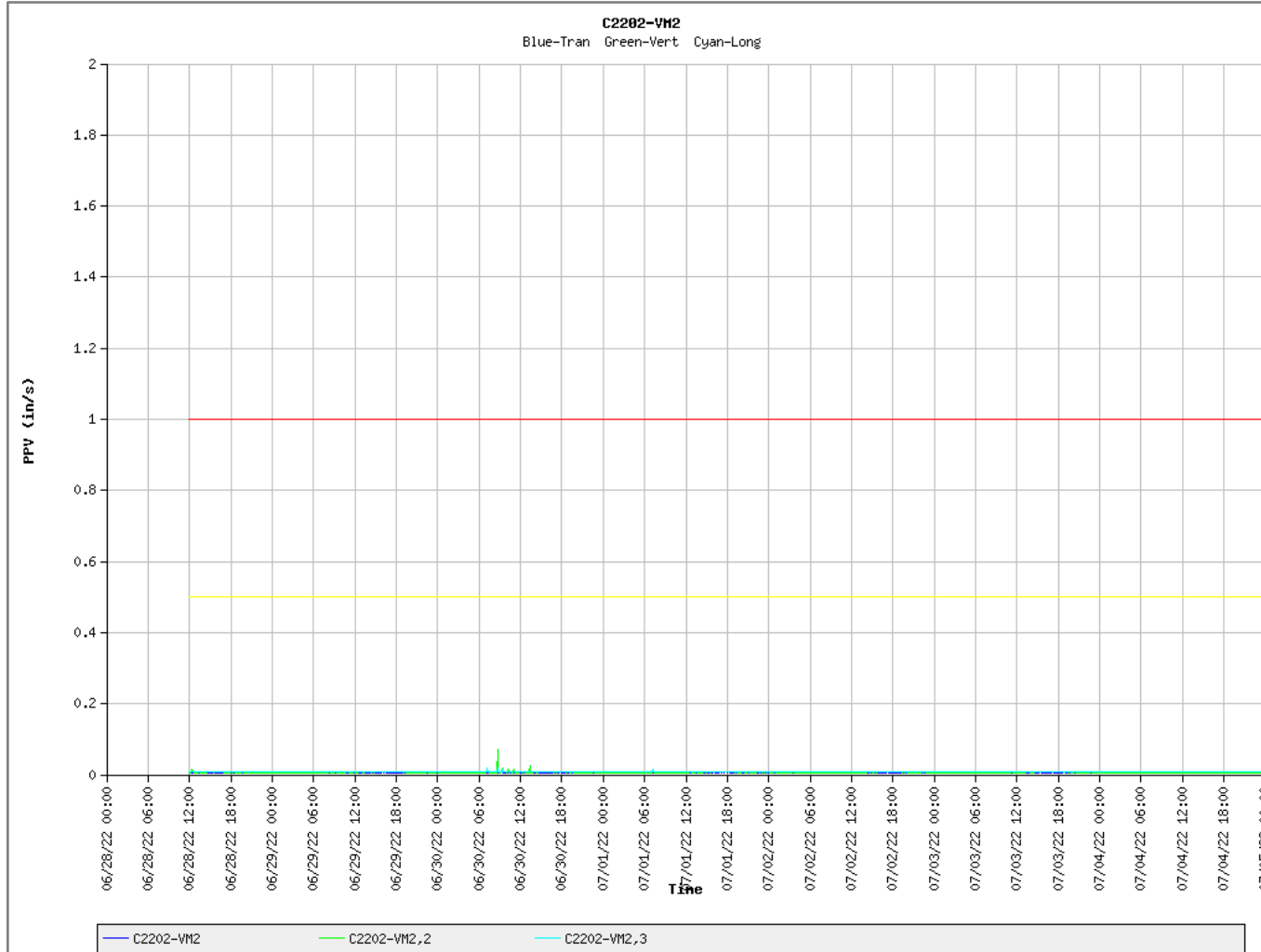
The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM1 Transverse
C2202-VM1,2 Vertical
C2202-VM1,3 Longitudinal

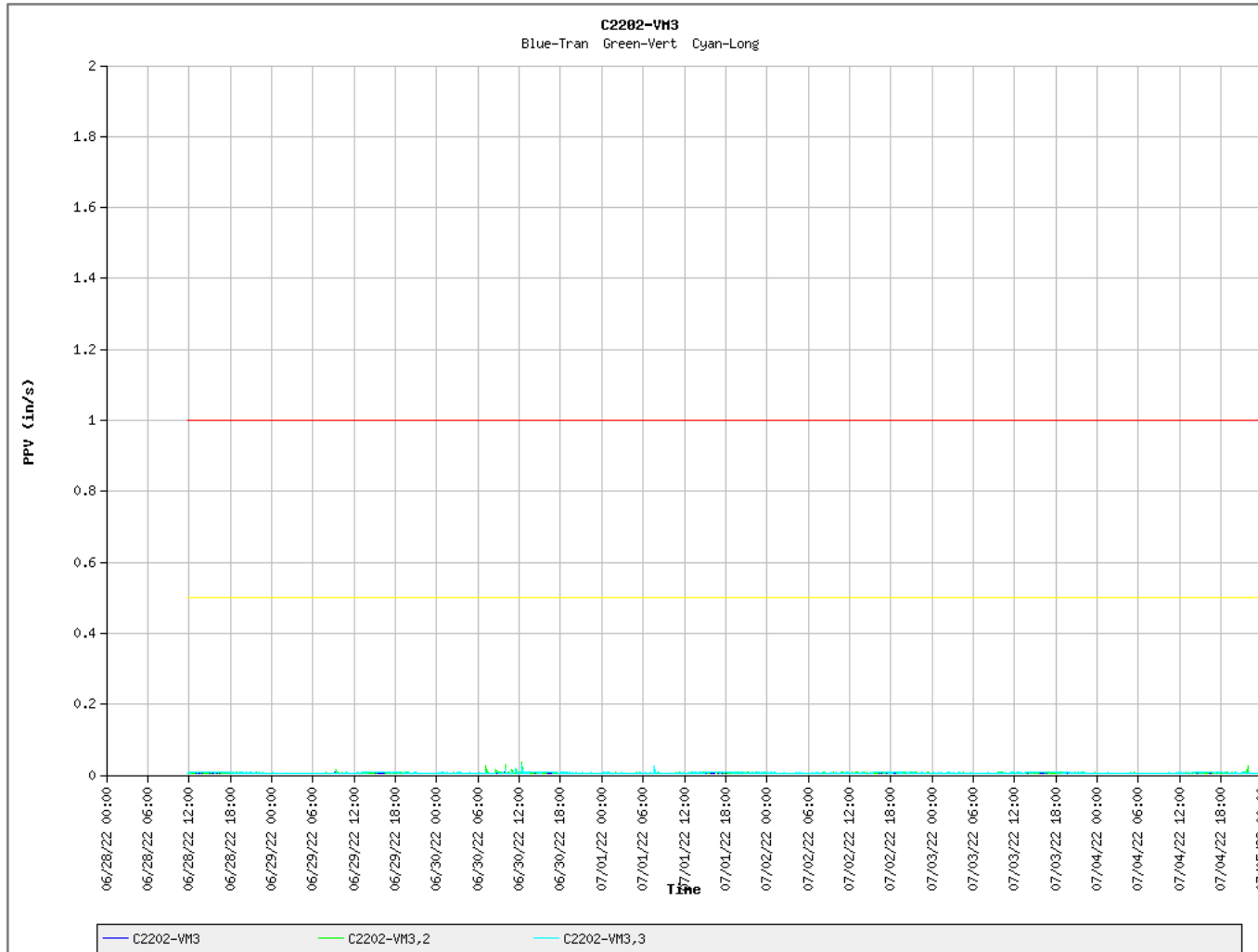
The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM2 Transverse
C2202-VM2,2 Vertical
C2202-VM2,3 Longitudinal

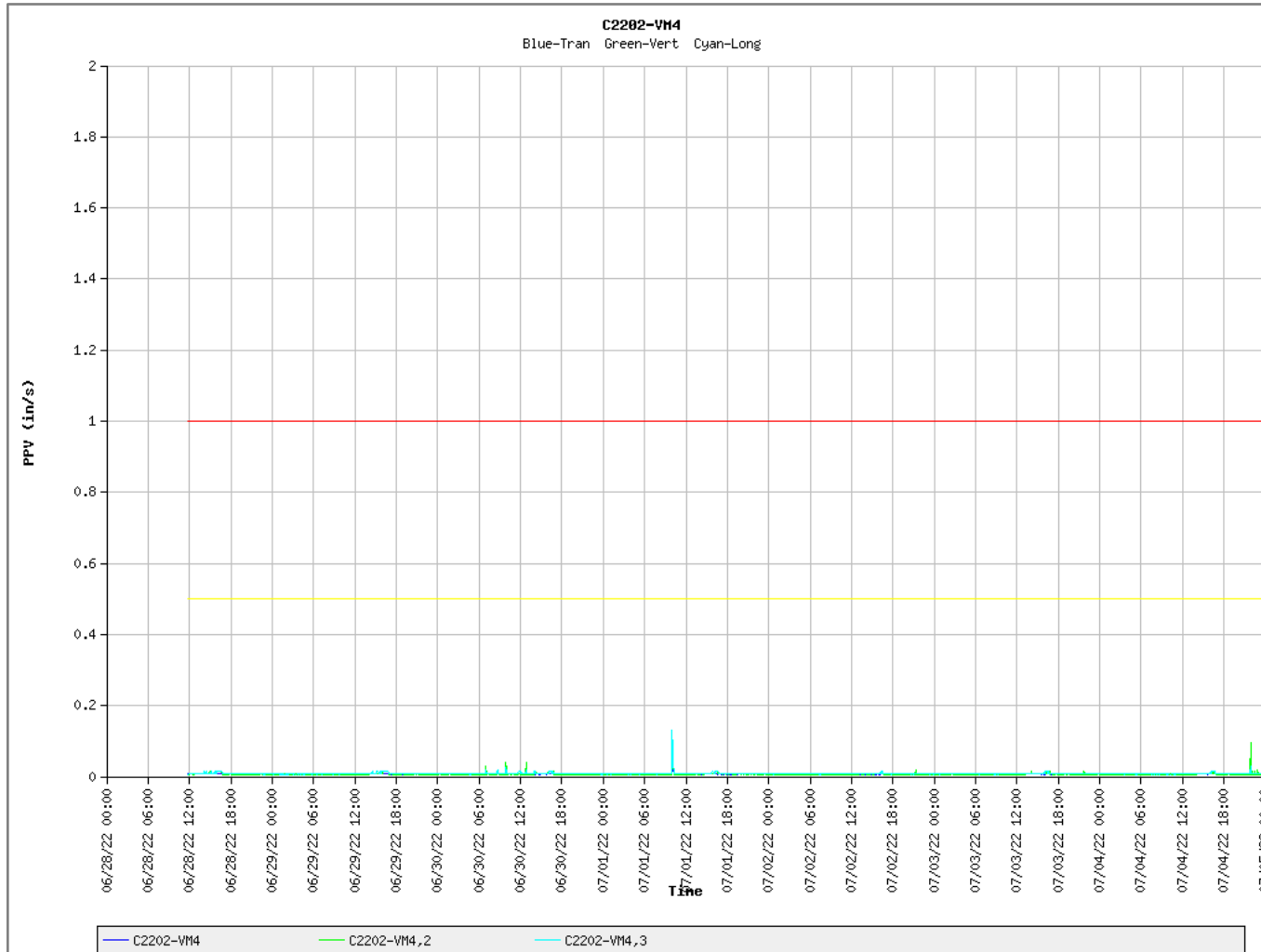
The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM3 Transverse
C2202-VM3,2 Vertical
C2202-VM3,3 Longitudinal

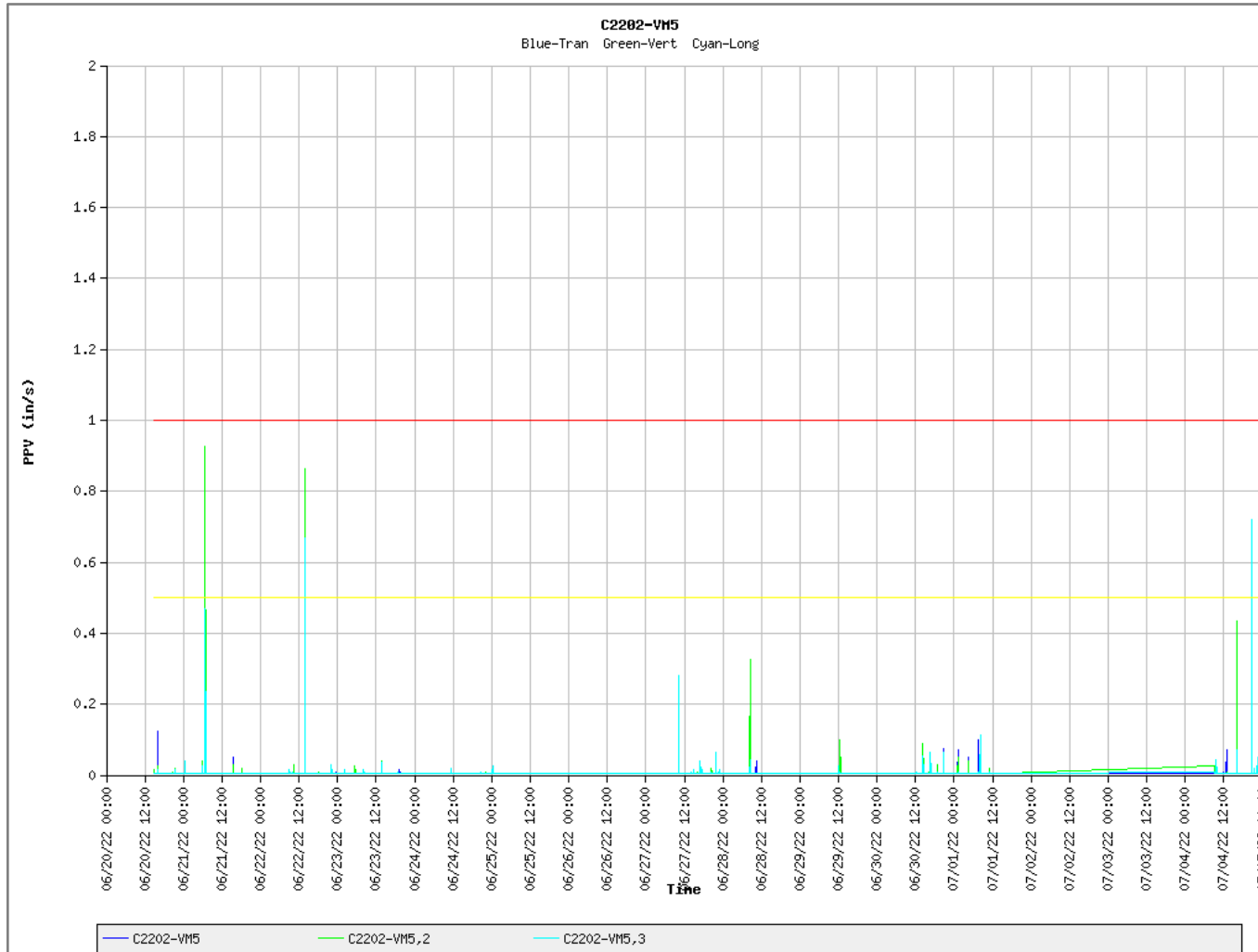
The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM4 Transverse
C2202-VM4,2 Vertical
C2202-VM4,3 Longitudinal

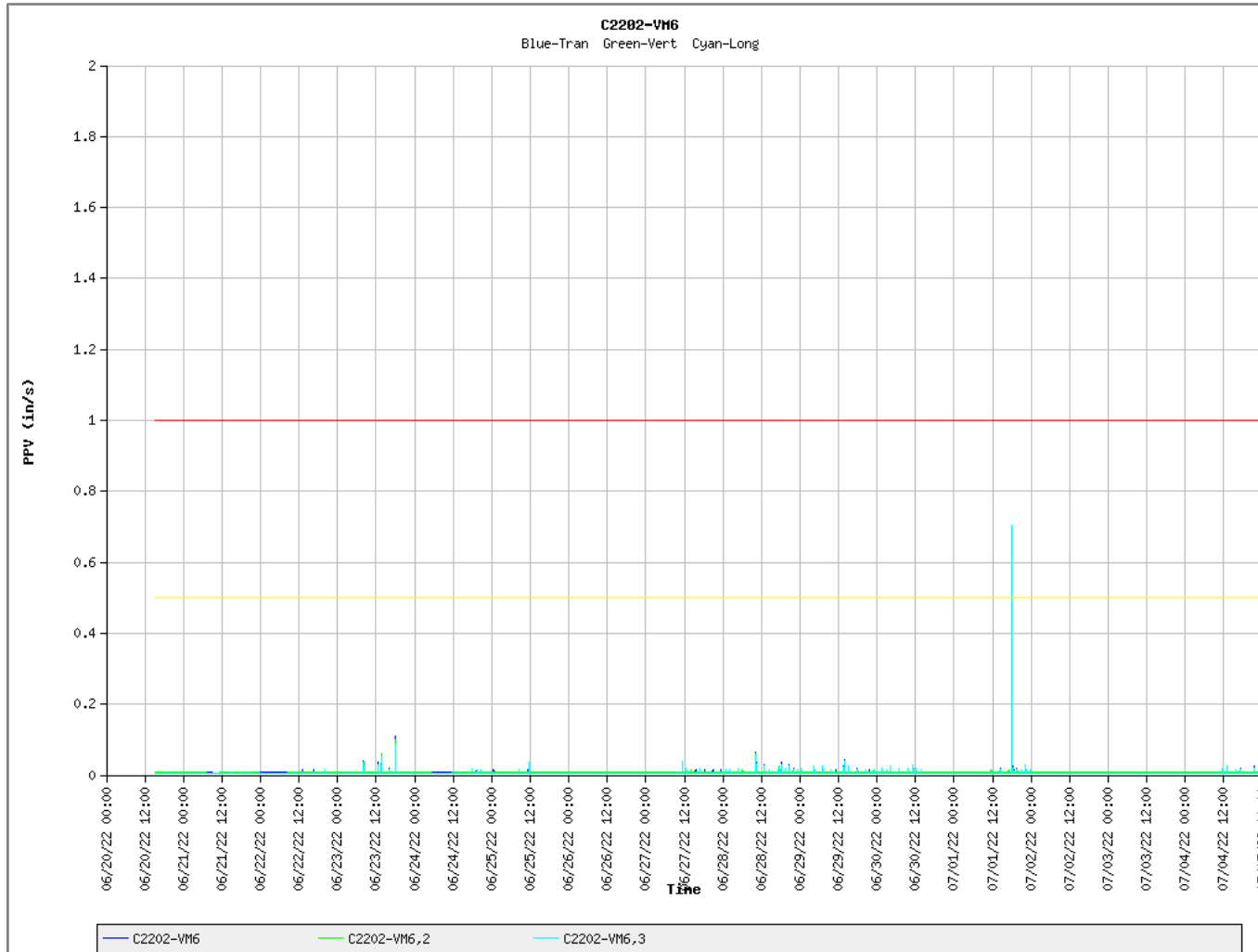
The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM5 Transverse
C2202-VM5,2 Vertical
C2202-VM5,3 Longitudinal

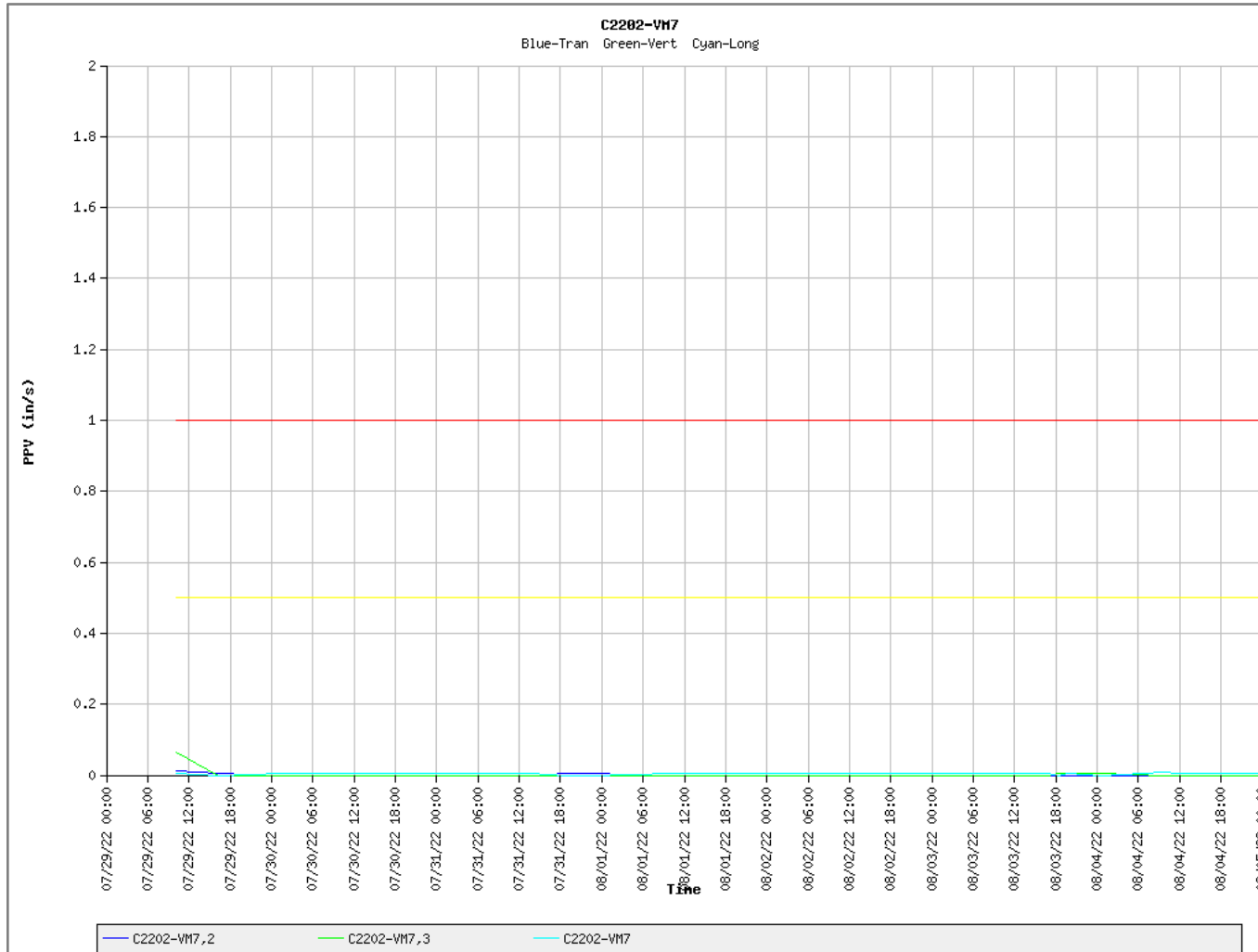
The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM6 Transverse
C2202-VM6,2 Vertical
C2202-VM6,3 Longitudinal

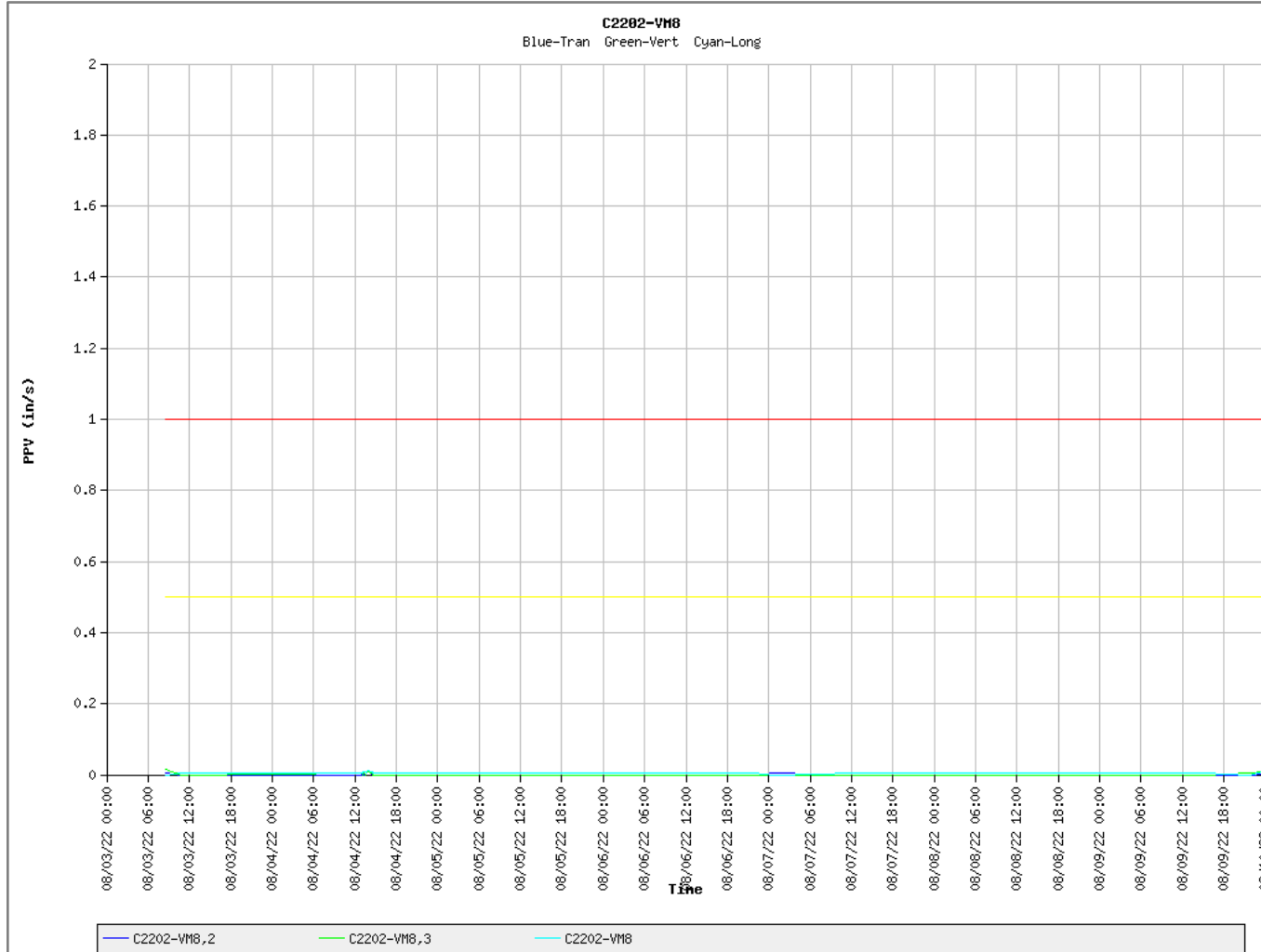
The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM7 Longitudinal
C2202-VM7,2 Transverse
C2202-VM7,3 Vertical

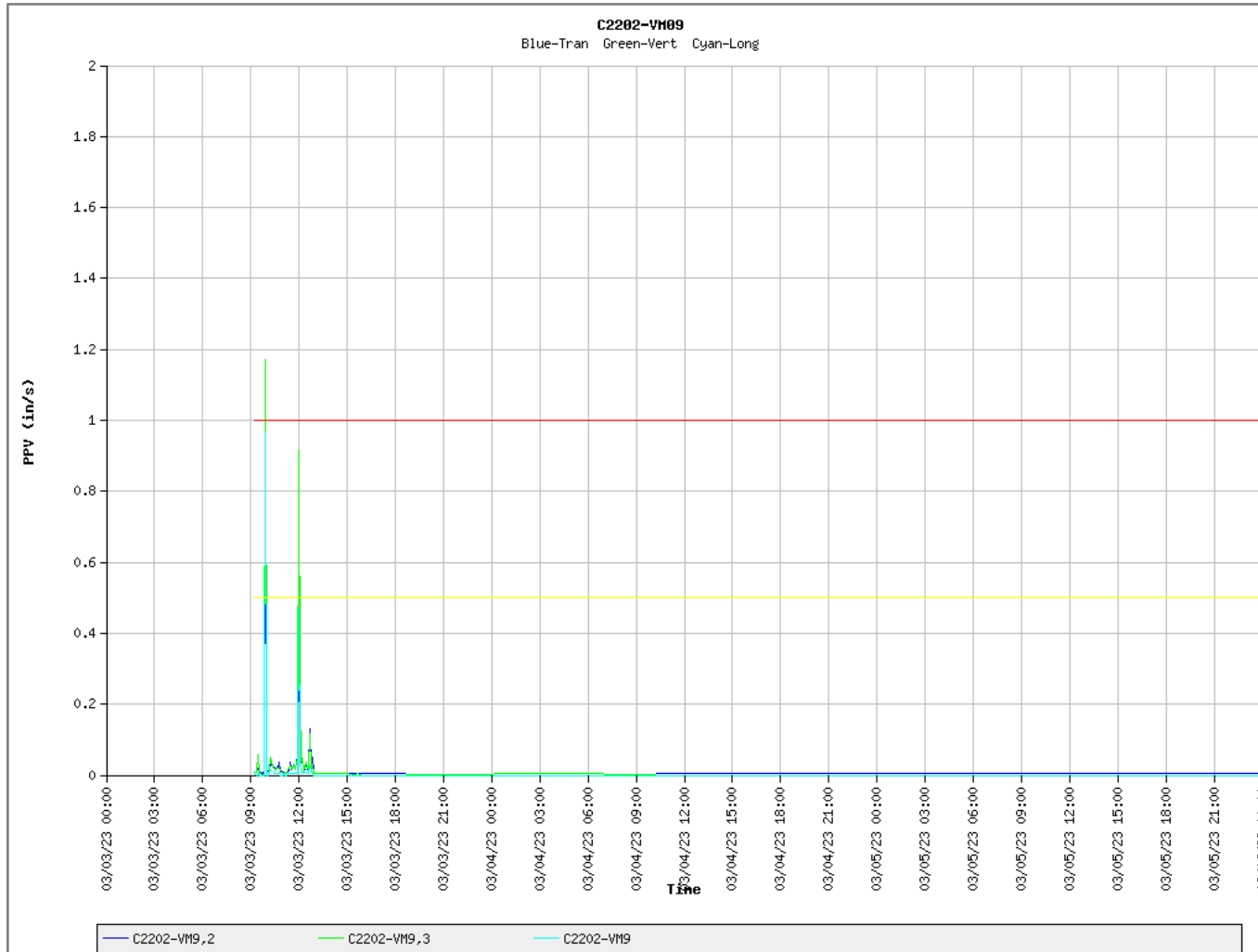
The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM8 Longitudinal
C2202-VM8,2 Transverse
C2202-VM8,3 Vertical

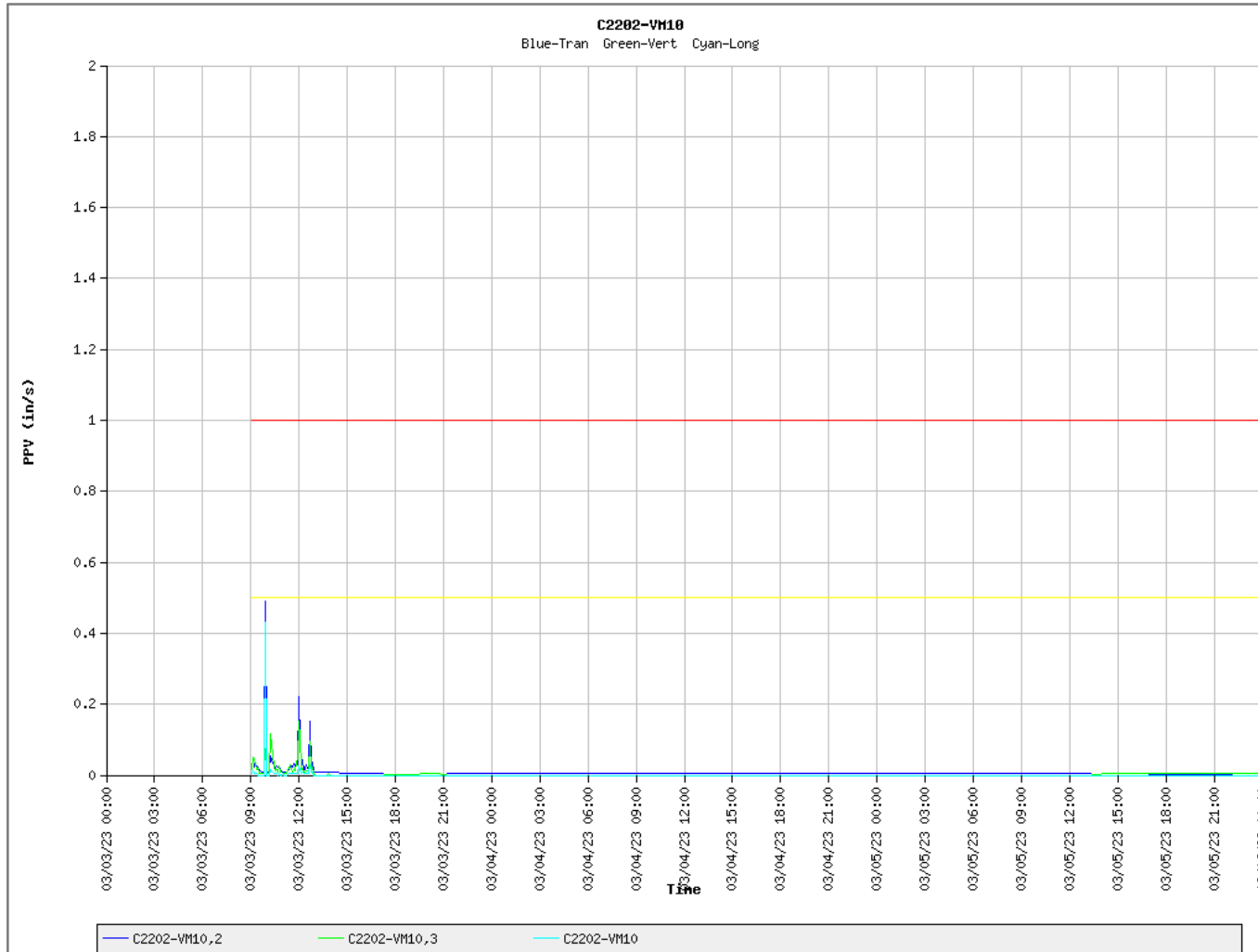
The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM9 Longitudinal
C2202-VM9,2 Transverse
C2202-VM9,3 Vertical

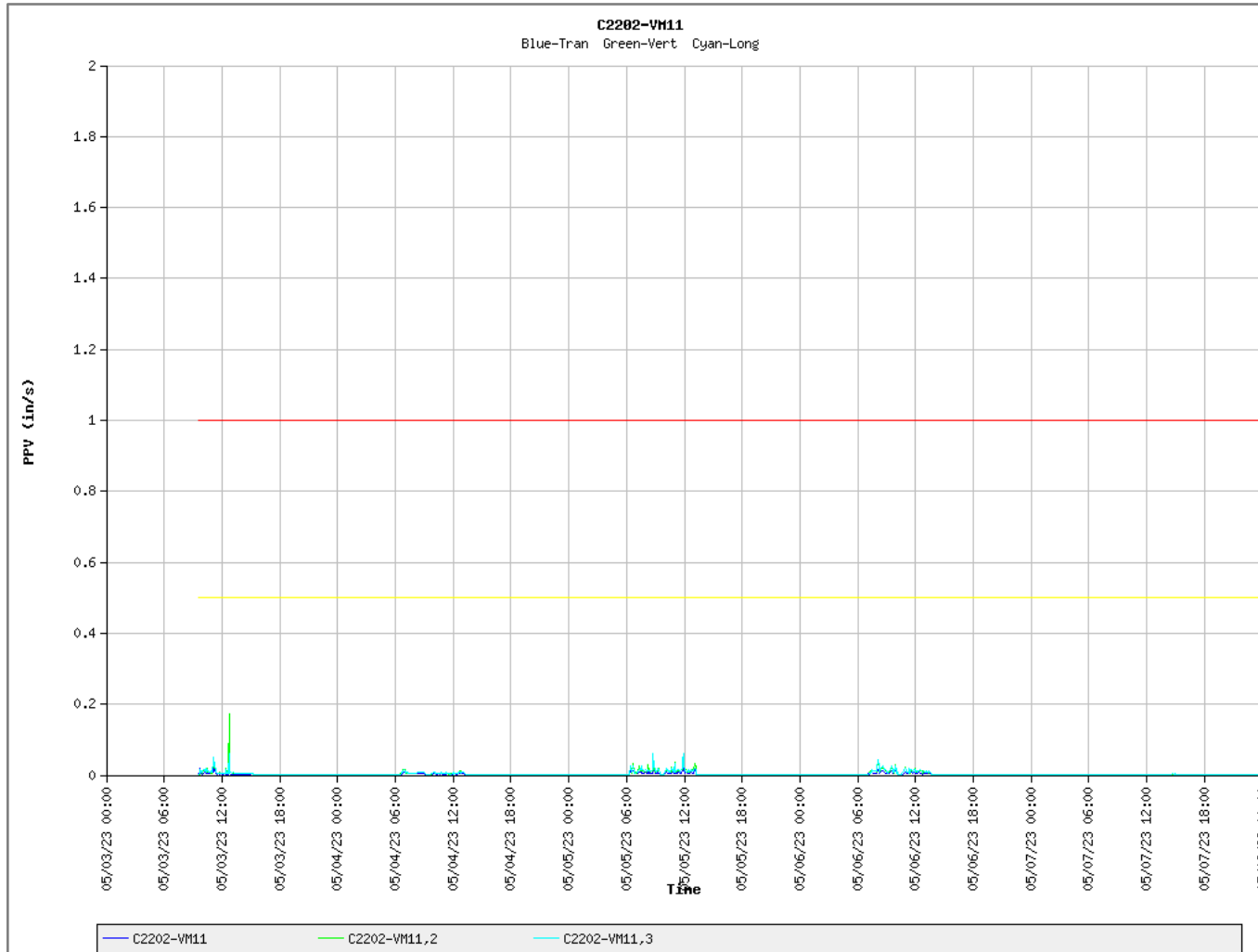
The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM10 Longitudinal
C2202-VM10,2 Transverse
C2202-VM10,3 Vertical

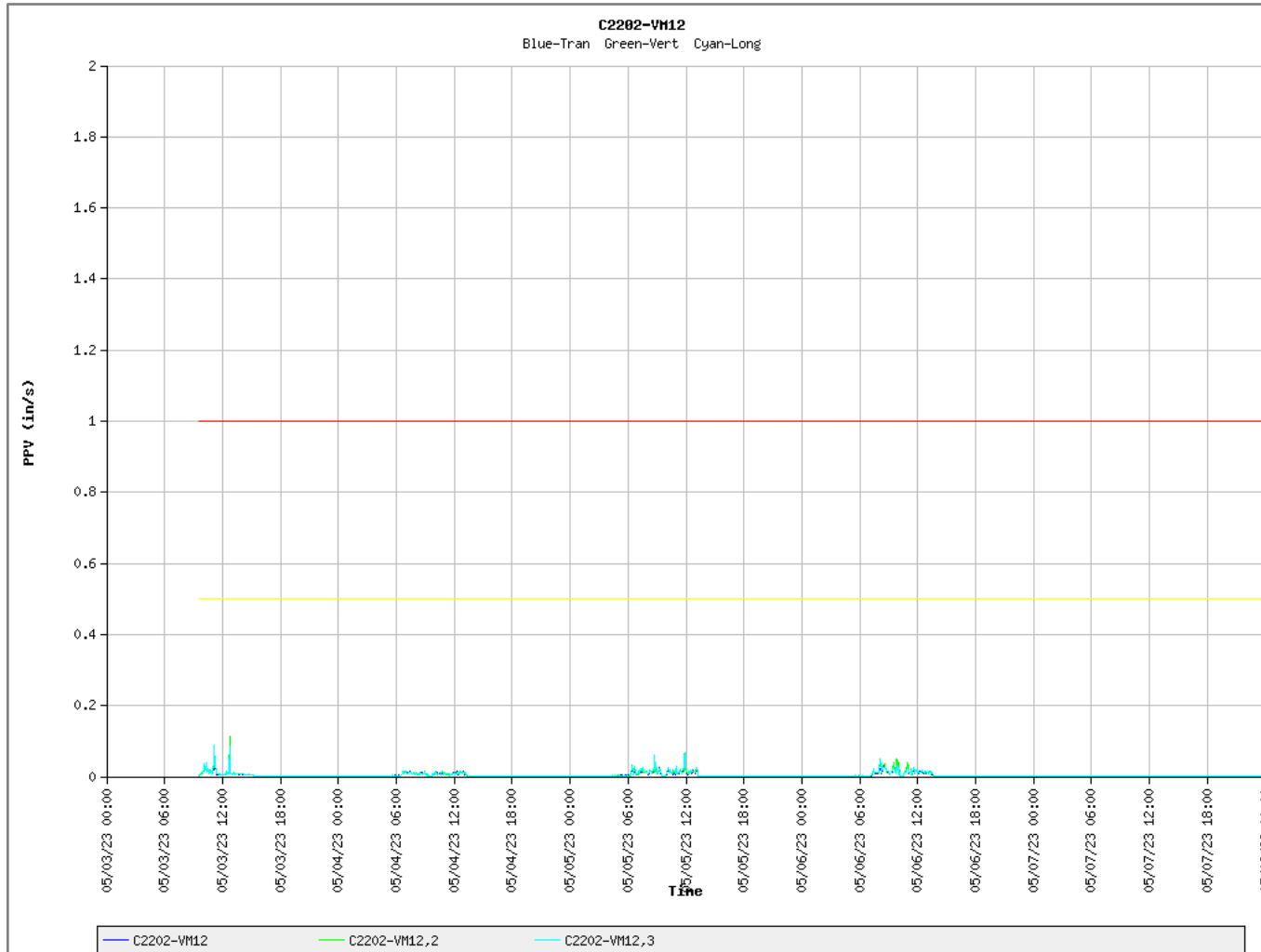
The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM11 Transverse
C2202-VM11,2 Vertical
C2202-VM11,3 Longitudinal

The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec
Warning level: 0.5 in/sec

C2202-VM12 Transverse
C2202-VM12,2 Vertical
C2202-VM12,3 Longitudinal