



AIR, NOISE AND VIBRATION MONTHLY MONITORING REPORT Number 012

Prepared By: Roux / Wang Technology

DDC Project No.:	BBJ-XSP		Period Start: 7/1/23 End 7/31/23				
Project Name:	NYCDDC – The Bronx Site Preparation						
DDC Pin No.:	8502021CR0004P-06P	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			
22	21	3		Community Air Monitoring was not performed on 7/15 because there was no excavation work taking place. There were three instances above the 150 ug/m ³ stop work level. These instances occurred on 7/12, 7/17, 7/28 and are detailed below.			
Community Air Monitoring Monthly 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			
7/12/23 7:30am	158	89		One elevated reading above the dust action level was caused by machinery moving near the Community Air Monitoring Program (CAMP) station. Work was stopped temporarily, and water was used to mitigate dust in the working area.			
7/17/23 6:58am	284	94		One elevated reading above the dust action level was caused by rock scraping adjacent to the CAMP station. Work was stopped temporarily, and water was used to mitigate dust in the working area.			
7/28/23 7:40am	158	83		One elevated reading above the dust action level was caused by rock scraping. Work was stopped temporarily, and water was used			



					to mitigate dust in the working area.	
Narrative Summary of Air Monitoring, Excursions and Corrective Actions:						
Narrative Summary of Air Monitoring, Excursions and Corrective Actions: In July 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.						
2) Community Units: A-weighted dee		Ionitoring Week	ly Sumn	nary		
Number of	Nun	nber of Noise	Number of Days with Noise			
Workdays in a Month	Mor	nitoring Days	toring Days		Comments	
22		22	0		There were no noise levels exceedances.	
Community Noi	se Monito	ring Monthly Exc	ursions	and Corrective Action		
Action Level = 80 dB. Stop Work Level = 80	A					
Date: Time		Maximum Noise Reading before Corrective Action (dBA)		Maximum Noise Reading after Corrective Action (dBA)	Corrective Action	
N/A		N/A		N/A	N/A	
In July 2023, con	struction-	related levels of no	ise did no	Corrective Actions: of surpass the limits of poise concerns for the	of Local Law 113 of 2005. The	



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3) Community Vibrat Units: inches per second (in/se	ion Monitoring Monthly	y Summary	
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
22	31	13	Four out of six vibration monitors (VM recorded a total of fifty-one exceedances Forty-one exceedances were caused by sensor being out of level. As the longitudinal channel was failing sensor check, the geophone was out of level from front to back and was likely not securely attached to the structure being monitored hence high readings that exceed the project limits were recorded randomly. Three exceedances were caused by accidenta contact during delivery unloading. Sever exceedances were isolated events likely nor related to construction activities or were recorded during non-construction hours Detail information about exceedances i provided in the narrative summary section and plots.
Community Vibration M	onitoring Excursions an	d Corrective Actions	
Action Level = 0.5 in/sec Stop Work Level = 1.0 in	-		
Date: Time	Maximum Vibration Level before Corrective Action (in/sec)	Maximum Vibration Level after Corrective Action (in/sec)	Corrective Action
7/11/2023 10:54	1.06	0.095	This is an isolated event recorded at VM possibly due to non-construction relate activities, associated with resident' activities.
7/11/2023 18:30	0.7	0.01	Exceedances observed at VM5 wer recorded during non-construction hours.
7/15/2023 23:09	0.515	0.07	Exceedances observed at VM5 wer recorded during non-construction hours.
7/16/2023 17:20	1.02	0.18	Exceedances observed at VM5 wer recorded during non-construction hours.
7/18/2023 11:27	0.655	0.005	This is an isolated event recorded at VM possibly due to non-construction relate activities, associated with resident' activities.
7/20/2023 19:02	0.86	0.005	Exceedances observed at VM5 wer recorded during non-construction hours.
7/17/2023 09:30	9.075	0.025	This is an isolated event recorded at VM possibly due to non-construction relate activities, associated with resident activities.
7/12/2023 07:55	0.5331	0.2799	Exceedance observed at VM11 was due t unloading delivery of sewer bypass pum pipes. No corrective action was required a this time.
7/12/2023 10:45	1.1888	0.0279	Exceedance observed at VM11 was due t unloading delivery of sewer bypass pum pipes. No corrective action was required a



			this time.
7/14/2023, 7/15/2023, 7/16/2023, 7/17/2023, 7/18/2023, 7/19/2023, 7/20/2023, 7/21/2023, 7/22/2023, 7/23/2023, & 7/24/2023	1.8271	0.26	Exceedances observed at VM11 was due to the sensor being out of level. The geophone was installed on the sand on top of the oil static line with a sandbag placed on top. The geophone was likely disturbed, slowly became out of level in the longitudinal direction and no longer securely attached to the structure being monitored, hence high readings that exceed the project limits were recorded randomly. Access was granted on 7/26/2023, the sand around the oil static line was repacked and the sensor was releveled. Once completed, the readings returned to be within the project threshold afterwards.
7/12/2023 10:45	0.5381	0.0242	Exceedance observed at VM12 was due to unloading delivery of sewer bypass pump pipes. No corrective action was required at this time.

Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions:

In July 2023, four vibration monitors had recorded exceedances.

There were exceedances recorded during non-construction hours at VM5. 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.

The exceedances recorded at VM11 and VM12 on July 12th were due to unloading delivery of sewer bypass pump pipes. No corrective actions were required at this time.

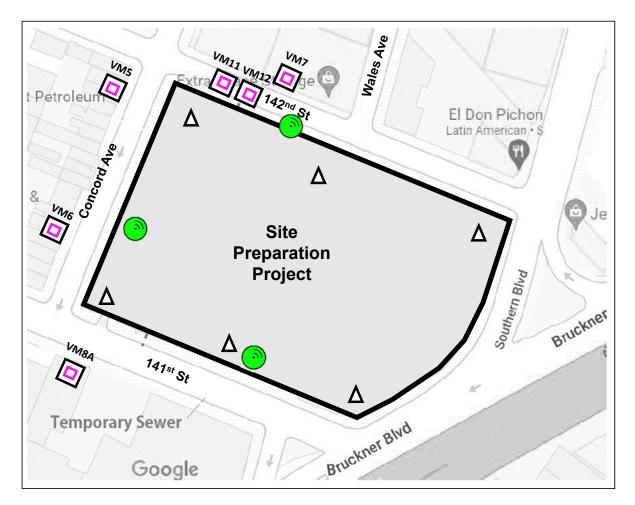
The exceedances recorded at VM11 between July 14th and July 24th were due to sensor being out of level. The sensor was releveled on July 26th. Once completed, the readings returned to be within the project threshold afterwards.

ATTACHMENTS:

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

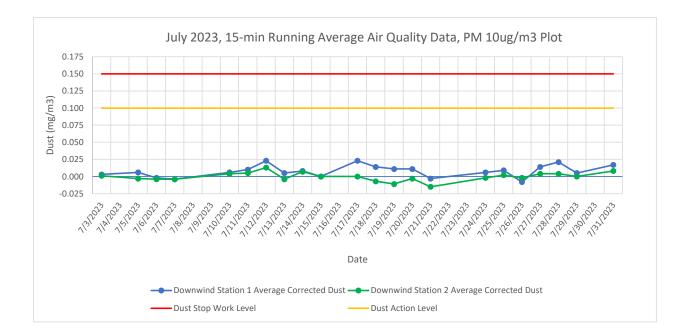
Attachments

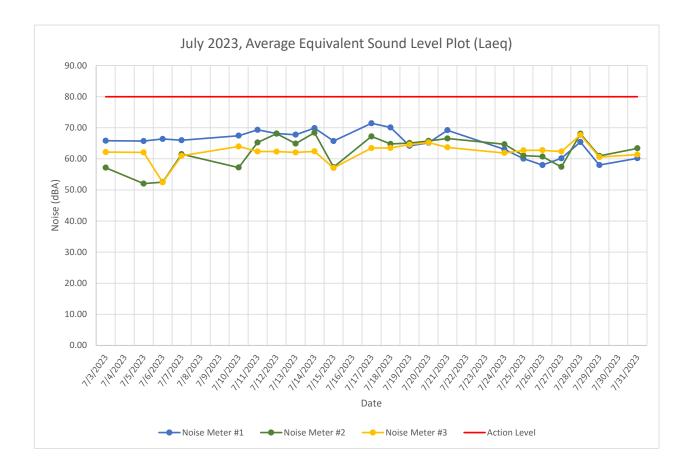
Environmental Monitoring The Bronx

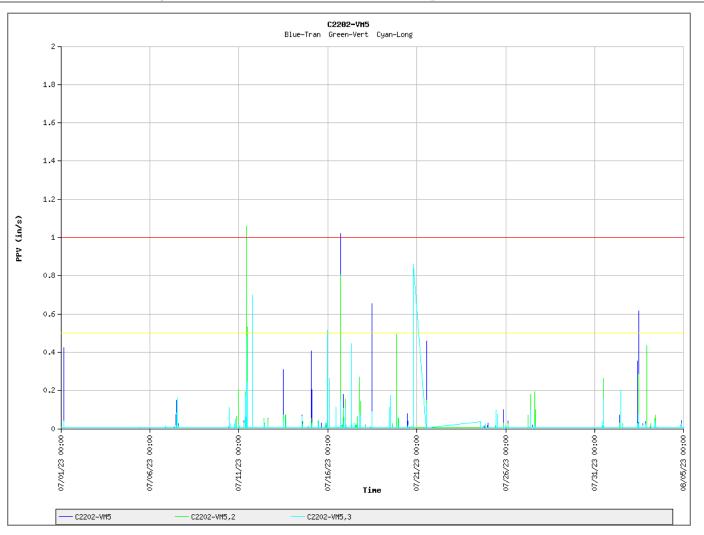




Vibration Monitor (VM) Air Monitoring Station (DM) Noise Monitoring Station (NM)



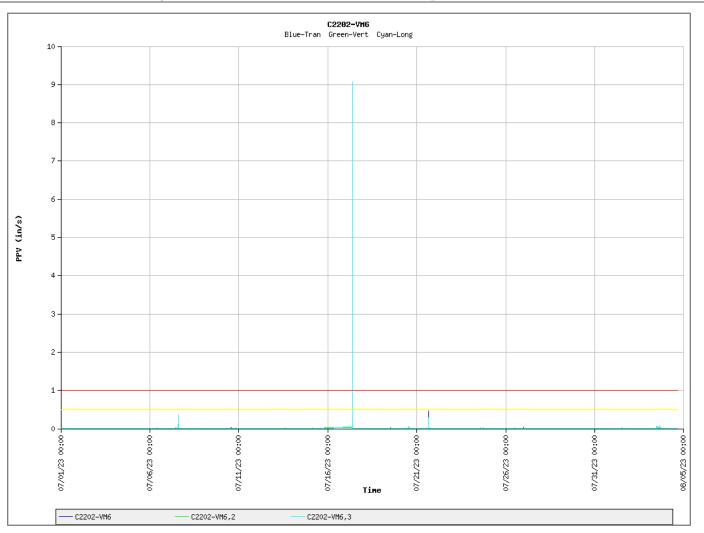




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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

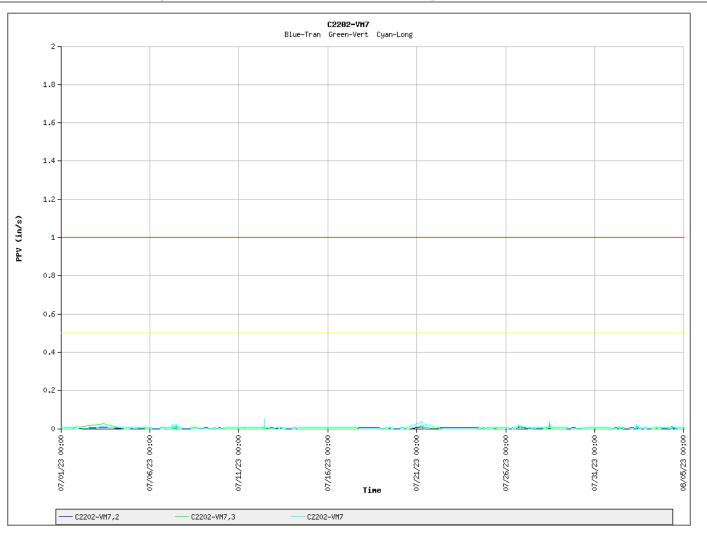




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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

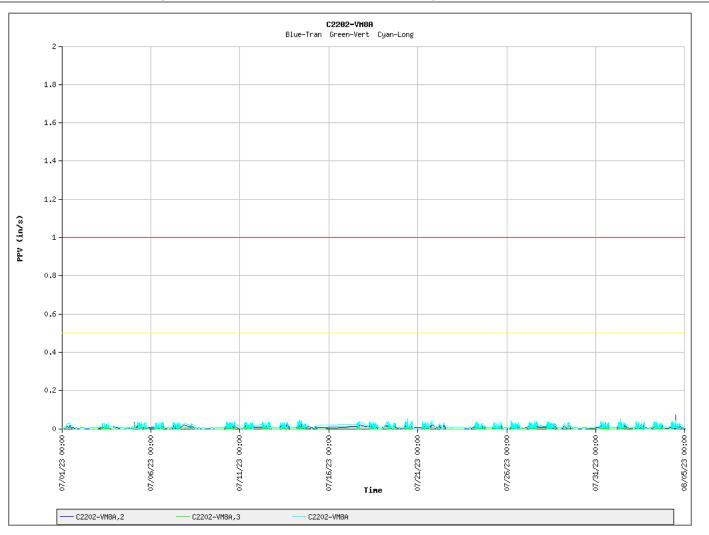




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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





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

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



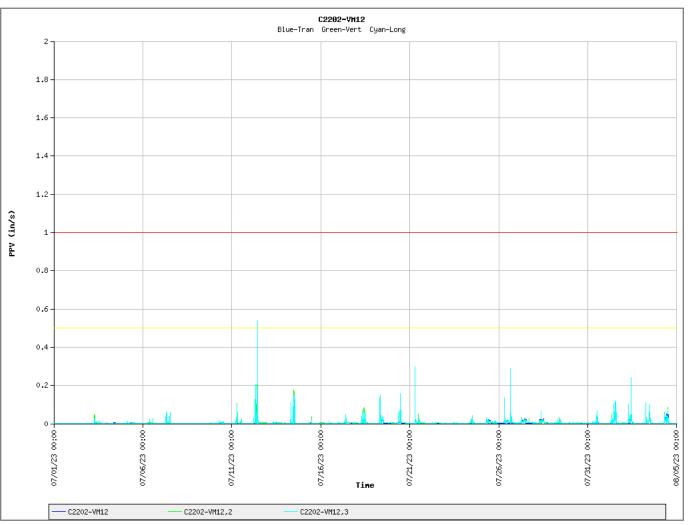


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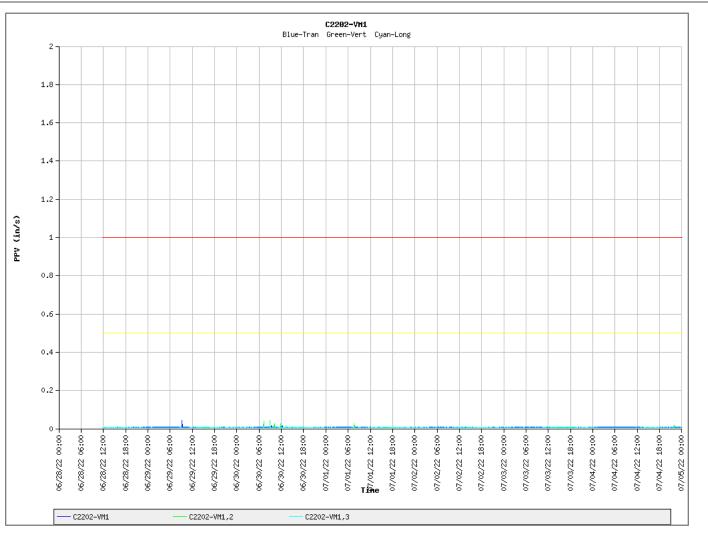
Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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



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

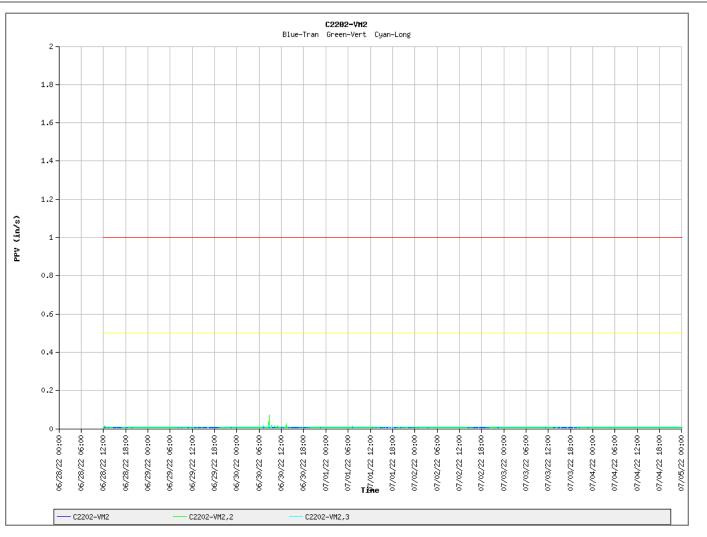
C2202-VM12 Transverse C2202-VM12,2 Vertical C2202-VM12,3 Longitudinal



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

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

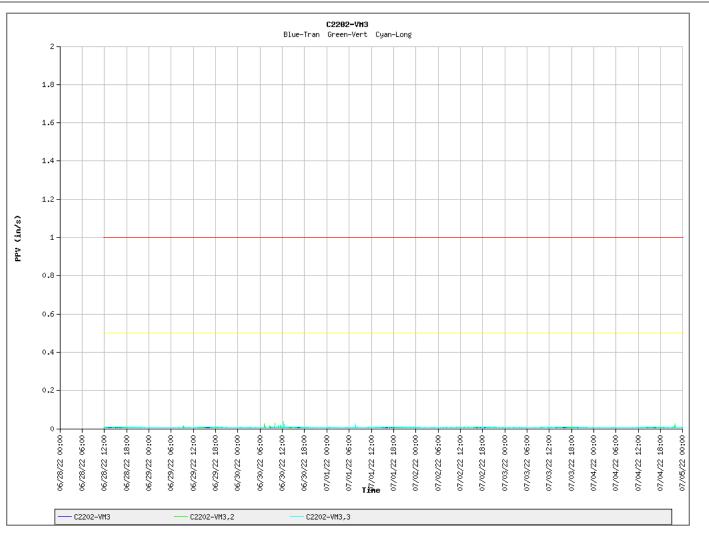




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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

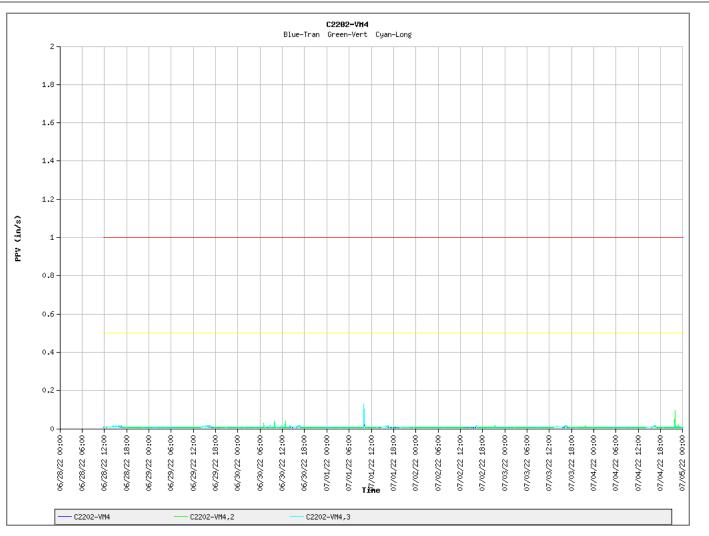




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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

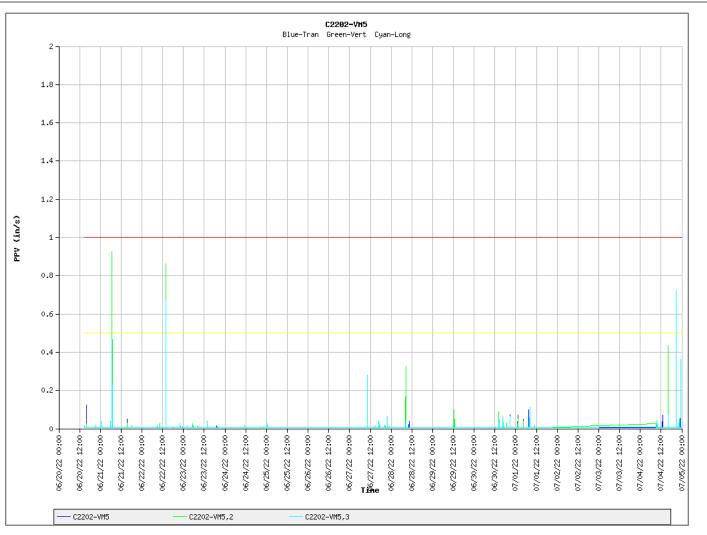




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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

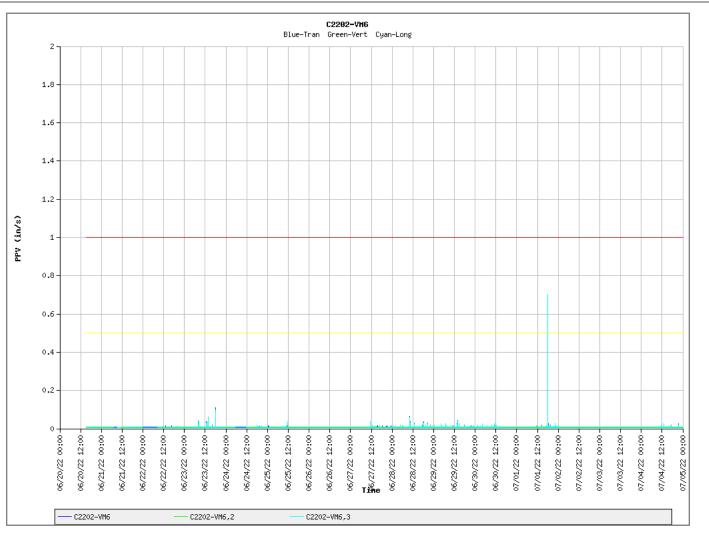




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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

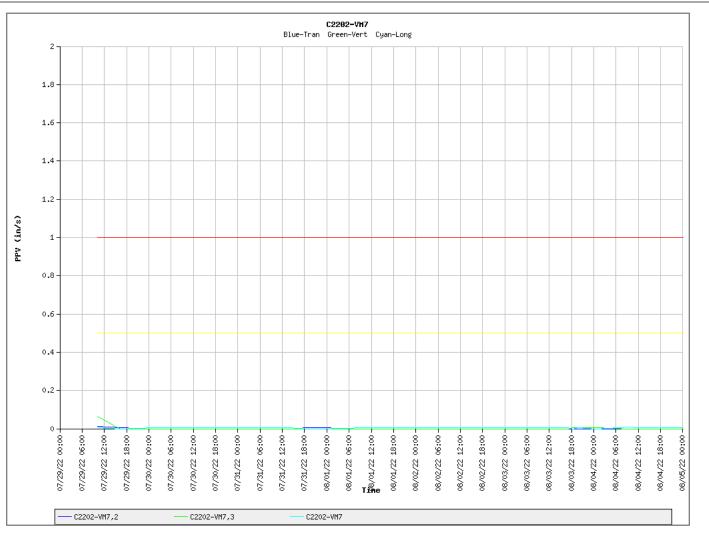




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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

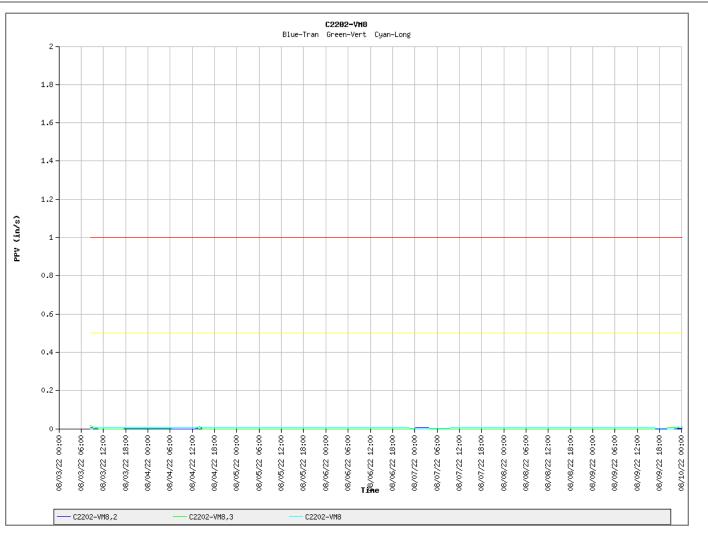




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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

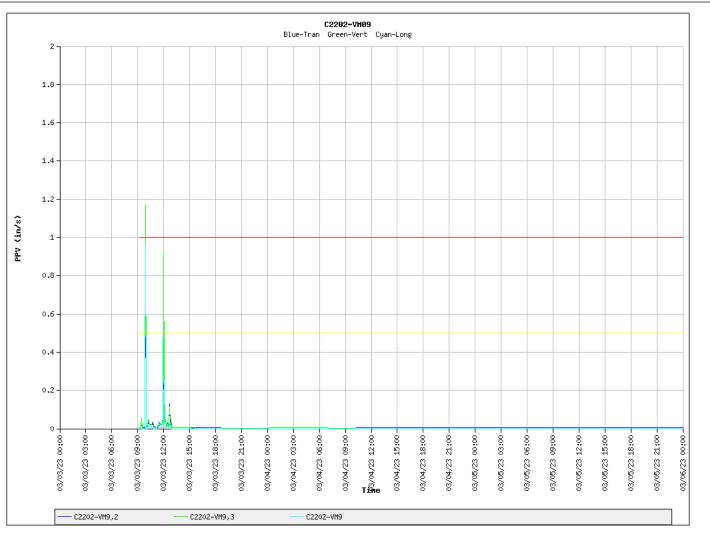




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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

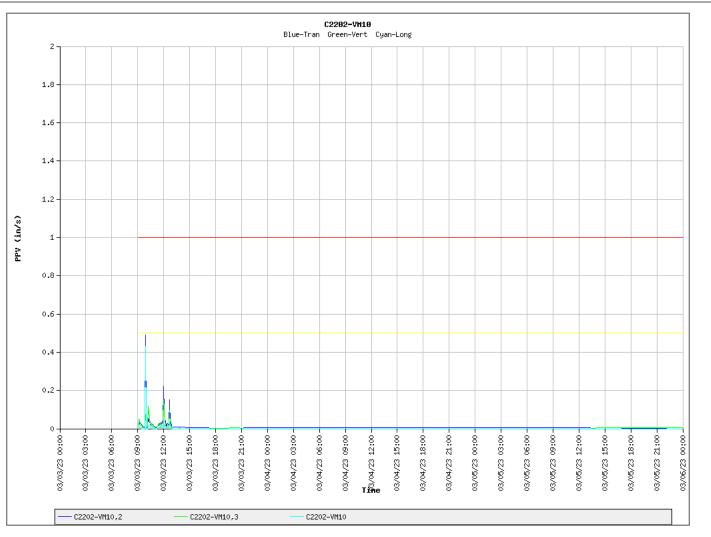




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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

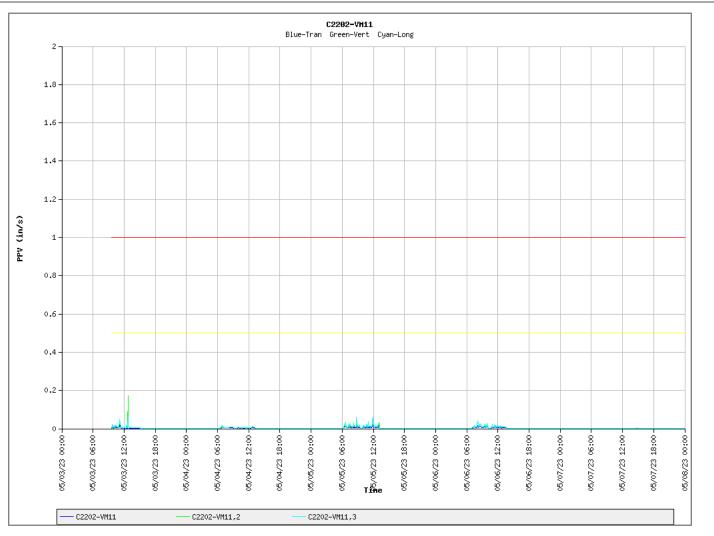




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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

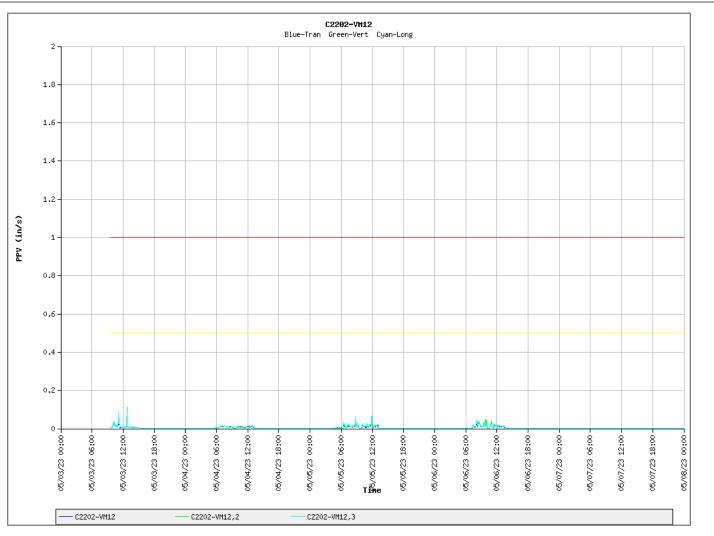




Exceedance level: 1 in/sec Warning level: 0.5 in/sec

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





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

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

