

AIR, NOISE AND VIBRATION MONTHLY MONITORING REPORT Number 001

Prepared By:

DDC. Project ID:	BBJ K-DSS	BBJ K-DSS		Period Start: 12/01/23 End 12/31/23			
Project Name:	NYC Borough Based Ja	NYC Borough Based Jails System – Brook		yn Dismantle and Swing Space Project			
DDC Pin No.: 8502020CR0043P							
TWA – Time Weighte	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 v Concentrations Action Concentra Month (100 ug/m³ 15-minu	above tions by	Comments			
20	31	0		Air Monitoring was performed during weekdays and weekends. 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/m³)	Maximum Dust F After Corrective 15 Minute T\ (ug/m³)	Action	Corrective Action			
Narrative Summary of Air Monitoring, Excursions and Corrective Actions:							

During the month of December 2023, air monitoring devices were in continuous operation at the project site recording construction-related levels of Particulate Matter (PM). PM10 levels **did not** surpass Daily Permissible Exposure Limits (PEL) during this month as set by federal standards for the 24-hour Time Weighted Average (TWA), or daily value and did not trigger notifications to the project management construction team or contractor specific to air quality exceedances that could potentially impact the public or on-site workers.

The contractor, NorthStar Contracting Group, Inc. in with their environmental specialist, will implement mitigation techniques at Action Levels as well as Exceedances of Exposure Limits (15-minute TWA) to suppress construction activity effects on air quality when warranted throughout the Project work-zone.

No corrective actions or mitigations measures were required this month.



2) Community Noise Monitoring Monthly Summary Units are weighted decibels (dBA) level					
Number of Workdays in a Month	Моі	nber of Noise nitoring Days n a Month	Number of Days with Noise Levels above Action Levels by Month		Comments
20		31	0		Noise monitoring was performed during weekdays and weekends. No construction-related exceedances were recorded.
Community Noise Monitoring Excursions and Corrective Actions Action Level = 3 dBA above background Stop Work Level = 5 dBA above background					
Date: Time Maximum Noise before Corrective (DBA)			Maximum Noise Reading after Corrective Action	Corrective Action	

Date: Time	Maximum Noise Reading before Corrective Action (DBA)	Maximum Noise Reading after Corrective Action (DBA)	Corrective Action
None to Date	No Exceedance	N/A	Noise monitoring was performed during weekdays and weekends. No construction-related exceedances were recorded.

Narrative Summary of Noise Monitoring, Excursions and Corrective Actions:

During the month of December 2023, noise monitoring devices were in continuous operation at the project site recording construction-related noise levels in units of (DBA). DBA levels **did not** surpass the Noise Limits identified by Local Law 113 during this month and did not cause noise concerns for the surrounding community. There were no notification triggers to the project management team or contractor specific to noise exceedances that could potentially impact the public or on-site workers.

The contractor, NorthStar Contracting Group, Inc. in conjunction with their environmental specialist, will implement mitigation techniques at Action Levels as well as Exceedances of Exposure Limits to suppress construction activity effects on Noise when warranted throughout the Project work-zone.

No corrective actions or mitigations measures were required this month.



3) Community Vibration Monitoring Monthly Summary Units are 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		
20	31	19	No mitigation actions were required. Alerts triggered manually during off hours as well as during working hours.		

Community Vibration Monitoring Excursions and Corrective Actions Action Level = 0.50 in/sec peak particle velocity Stop Work Level = 1.00 in/sec peak particle velocity

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Date: Time	Exceedance Level Recorded (in/sec)	Ambient Vibration Level after Exceedance Recorded (in/sec)	Corrective Action			
December 1, 2023; 15:37:04	0.640	0.011	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.			
December 1, 2023; 17:50:08	0.988	0.011	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.			
December 5, 2023; 09:55:22	0.876	0.032	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.			
December 6, 2023; 11:42:22	2.357	0.015	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.			
December 7, 2023; 06:00:14	2.707	0.052	No work taking place; no corrective action necessary.			
December 8, 2023; 06:00.14	2.354	0.012	No work taking place; no corrective action necessary			
December 9, 2023; 06:55:15	0.540	0.045	No work taking place; no corrective action necessary			
December 10, 2023; 12:12:44	0.812	0.015	No work taking place; no corrective action necessary			
December 11, 2023; 08:20:32	0.695	0.027	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.			
December 12, 2023; 14.27:25	1.225	0.017	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.			
December 14, 2023; 09:08:27	0.842	0.012	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.			
December 14, 2023; 17:56:41	0.972	0.012	No deconstruction work taking place within 90' of sensor, trigger could have been			



			rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 15, 2023; 06:35:25	0.704	0.016	No work taking place; no corrective action necessary
December 15, 2023; 09:34:07	0.708	0.016	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 15, 2023; 09:35:26	2.161	0.016	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 15, 2023; 13:11:21	1.220	0.016	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 15, 2023; 14:58:39	0.821	0.016	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 16, 2023; 09:00:25	0.609	0.023	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 19, 2023; 14:23:06	0.832	0.027	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 21, 2023; 12:11:59	0.686	0.065	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 21; 2023; 12:35:10	1.190	0.065	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 24, 2023; 17:26:23	0.573	0.011	No work taking place; no corrective action necessary.
December 25, 2023; 08:18:22	0.592	0.016	No work taking place; no corrective action necessary.
December 26, 2023; 12:31:49	0.519	0.332	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 26; 2023; 16:25:23	0.583	0.012	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 26, 2023; 17:43:10	0.604	0.012	No deconstruction work taking place within 90' of sensor, trigger could have been rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 28, 2023; 09:33:43	0.915	0.027	No deconstruction work taking place within 90' of sensor, trigger could have been





			rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.
December 31, 2023; 07:55:47	0.749	0.022	No work taking place; no corrective action necessary

Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions:

Vibration monitors were installed within the MTA subway tunnel and in front of the Brooklyn Criminal Courthouse on State Street, to monitor vibrations during the dismantling of the Brooklyn Detention Center. The monitors in the subway tunnels were not activated, as the vibrations from train movements were determined to overwhelm or obscure the vibrations from the dismantling work. The monitor in front of the Courthouse was located in an access shaft in the sidewalk, under 2 metal hatch doors. The monitor is a highly sensitive instrument, so it records vibrations from heavy impact from footsteps, scooters, etc. on the metal access shaft cover plates, bits of debris dropped down the shaftway, rainfall, etc. as well as potential vibrations from the deconstruction across the street. Furthermore, the deconstruction work is greater than 90' away from the monitor, so allowing for dissipation of any vibration over distance, the source of the exceedances is more likely to be local than from that distance. Therefore, many of the exceedances recorded are discounted as being due to other factors than the dismantling. During the month of December 2023, vibration monitoring was ongoing throughout the entire month at the project site and vibration monitoring devices were in continuous operation at the project site recording construction-related vibration levels measured in inches per second (in/sec) or IPS. Throughout the month of November, action-level vibration threshold exceedances and stop-work level vibration exceedances were recorded above the Daily Permissible Exposure Limits (IPS) during this month as set by Action Levels = 0.5 in/sec above backgrounds and Stop Work Levels = 1.0 in/sec above backgrounds. These alerts were recorded during off hours when no work was taking place on site. No work was taking place within 90-feet of the vibration monitoring equipment when action level and stop-work level exceedances were recorded. The contractor, NorthStar Contracting Group, Inc. in conjunction with their environmental specialist, will implement

The contractor, NorthStar Contracting Group, Inc. in conjunction with their environmental specialist, will implement mitigation techniques at Action Levels as well as Exceedances to suppress construction activity effects that causes Vibration when warranted throughout the Project work-zone.

No corrective actions or mitigations measures were required this month as the alerts were triggered due to manual disturbance of the sensor during off hours as well as during work hours.

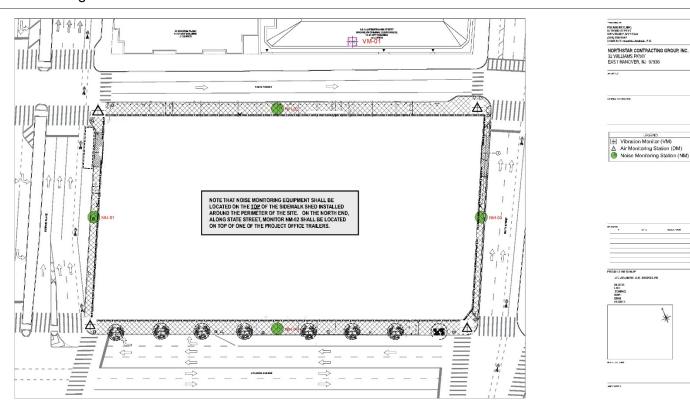
ATTACHMENTS:

- 1 Map of monitoring station/locations
- 2 Data Plots (Please add title to all the graphs)
- 3 Baseline Reference

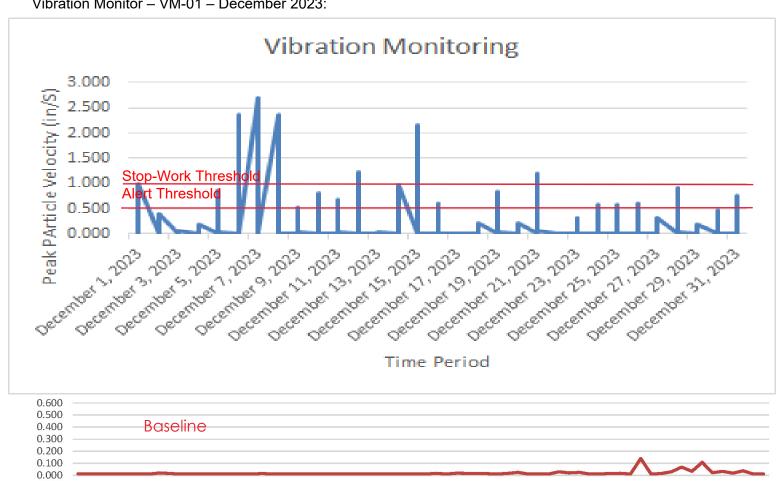




Map of Monitoring Locations:

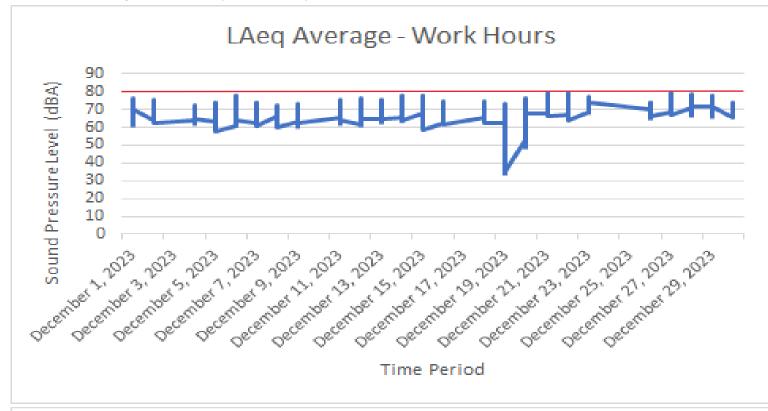


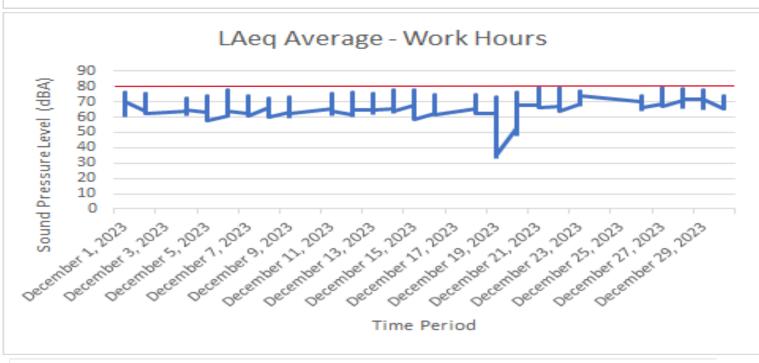
Vibration Monitor – VM-01 – December 2023:





Noise Monitoring Unit #1674 - (Smith Street) - December 2023:

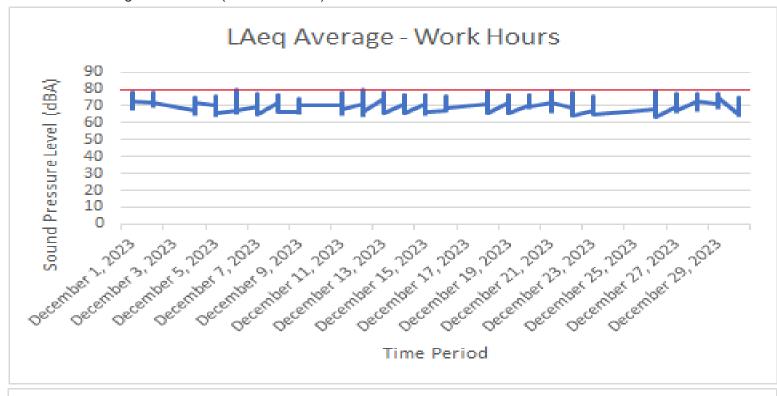


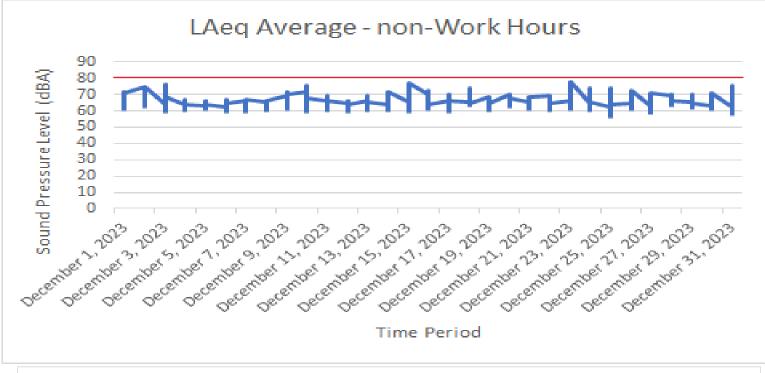






Noise Monitoring Unit #1493 - (Boerum Street) - December 2023:







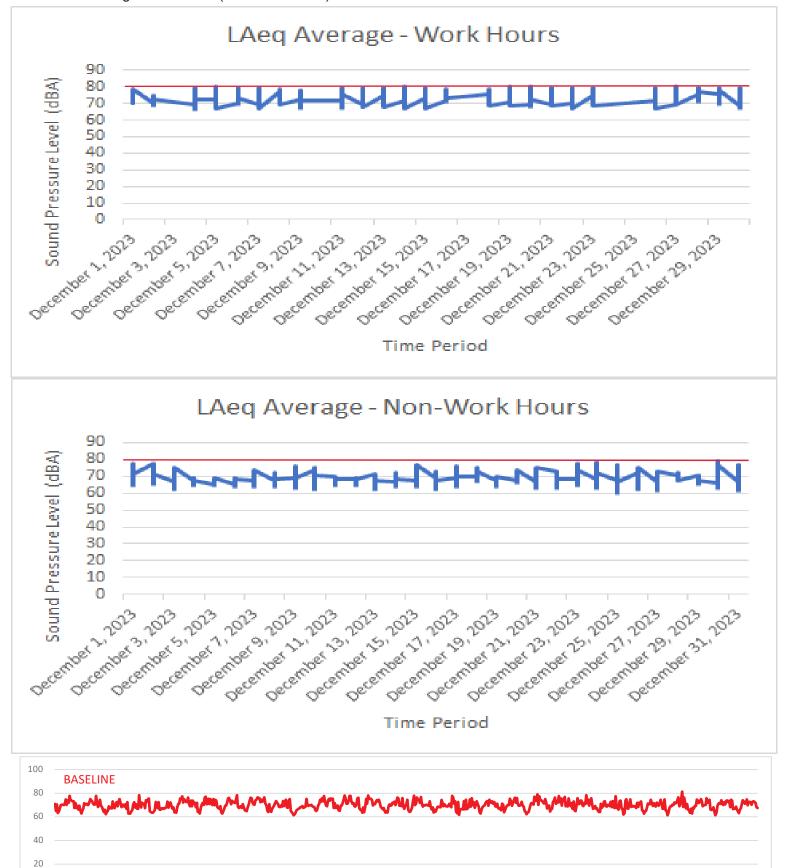
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Noise Monitoring Unit #1494 - (State Street) - December 2023:



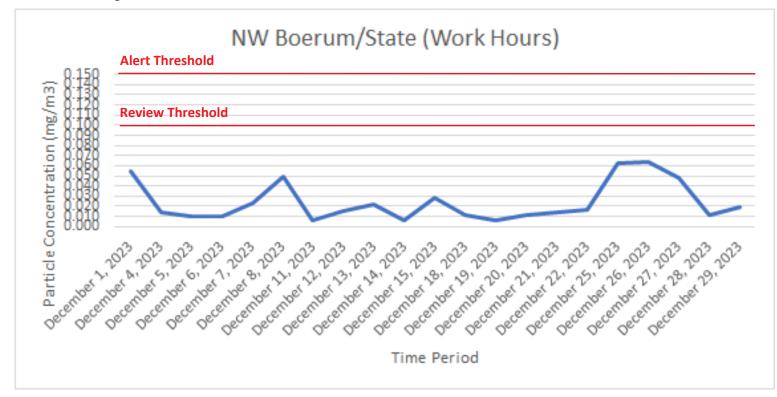
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Noise Monitoring Unit #1532 - (Atlantic Avenue) – December 2023:

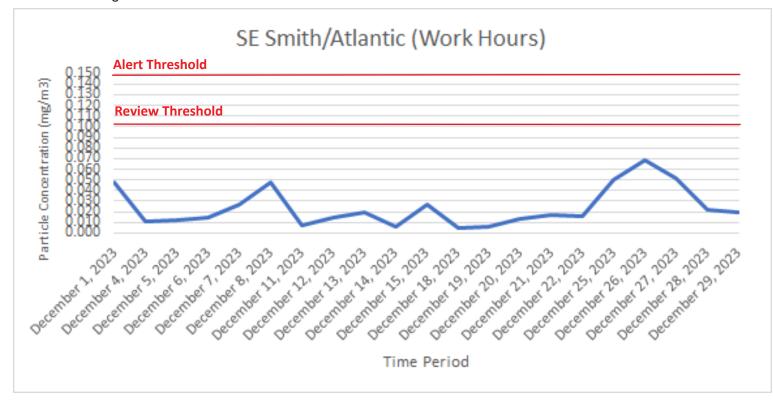




Dust Monitoring Unit – NW Corner – December 2023:



Dust Monitoring Unit – SE Corner – December 2023:





Dust Monitoring Unit – SW Corner – December 2023:

