

CONSTRUCTION NOISE MONITORING SUMMARY REPORT

APRIL 1 – 30, 2018

**VIRGINIA AVENUE TUNNEL RECONSTRUCTION PROJECT
WASHINGTON, DC**

**Prepared for:
CSX Transportation**

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April 2018

VIRGINIA AVENUE TUNNEL RECONSTRUCTION

Construction Noise Monitoring Summary

The Project Team has prepared this noise monitoring report as part of the ongoing efforts to comply with the commitments presented in the Virginia Avenue Tunnel Reconstruction Final Environmental Impact Statement (FEIS) and Section 4(f) Evaluation (May 2014) and further detailed in the Record of Decision (ROD), November 2014. The project sponsor has agreed to a number of environmental commitments as mitigation for environmental impacts that will result from the Virginia Avenue Tunnel Reconstruction Project. The commitments are divided between those related to construction of the Project and those related to the restoration of affected areas upon project completion of the Selected Alternative. These environmental commitment measures are mitigations which avoid the impact altogether by not taking a certain action or parts of an action; minimize impacts by limiting the degree or magnitude of the action and its implementation; rectify the impact by repairing, rehabilitating, or restoring the affected environment; reduce or eliminating the impact over time by preservation and maintenance operations during the life of the action; or compensate for the impact by replacing or providing substitute resources or environments. This construction noise monitoring summary report is intended to fulfill aspects of the noise monitoring commitments contained in the ROD for the Virginia Avenue Tunnel reconstruction.

The Project Team has installed perimeter noise monitoring stations adjacent to various buildings within the Project limits. These monitoring stations are intended to monitor construction noise associated with the Project. Construction noise will be monitored throughout the Project's construction. Sophisticated monitoring devices have been installed at eight locations to ensure the construction activities are performed in compliance with the permitted noise levels. The monitoring devices will record the level of the sound and automatically report the data back to the Project Engineers.

Methodology of Construction Noise Monitoring

Construction sound level data was collected for the reporting period April 1 – April 30, 2018. Eight fixed noise monitoring locations have been measured continuously to monitor sound levels since the beginning of major construction activities in May 2015. Sound level data was collected every minute for the duration of the noise monitoring period. The locations of the monitoring stations are depicted in Figure 1 and the addresses described in Table 1.

Figure 1. Noise Monitoring Locations

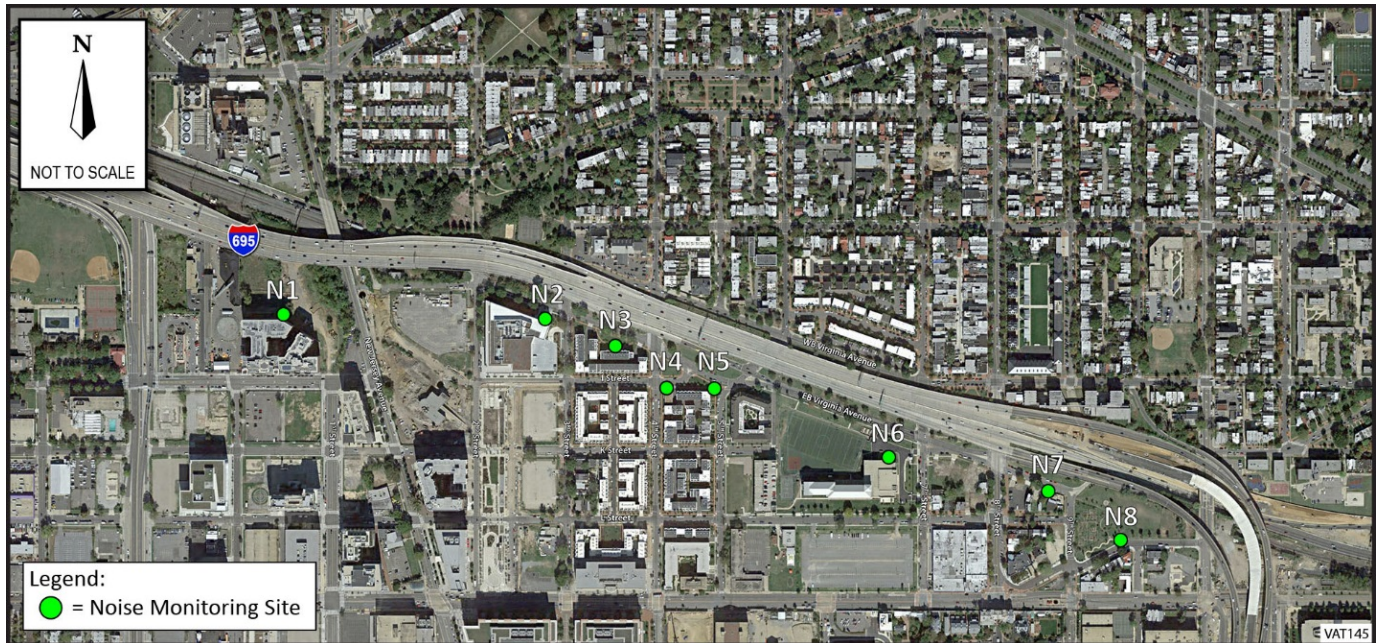


Table 1. Noise Monitoring Locations Description

Site ID	Noise Monitoring Location
N1	West of New Jersey Avenue SE
N2	Corner of 3 rd Street and Virginia Avenue SE
N3	Between 3 rd Street and 4 th Street SE, in front of townhomes
N4	Corner of 4 th Street SE and I Street SE
N5	Corner of 5 th Street and Virginia Avenue SE, in front of Capper Senior Apartments
N6	Adjacent to fence of Marine Corps Recreation Facility on 6 th Street SE
N7	Between 8 th and 9 th Streets SE, in front of commercial buildings
N8	Within Virginia Avenue Park

Noise Data Summary Charts

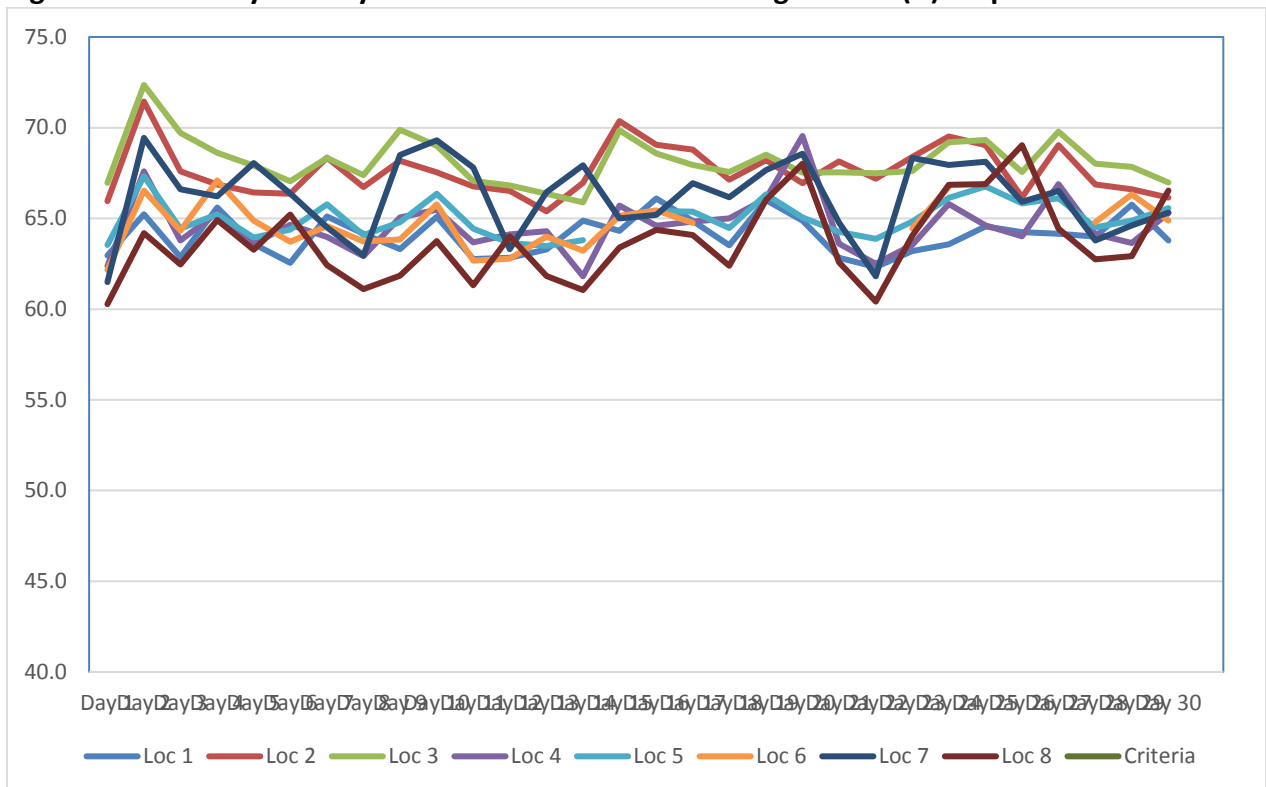
Table 2 presents the results of the sound levels measured during the month of April 2018. The daily sound levels results are plotted in Figure 2 and show how the measured levels compare to the established noise criteria. There were no exceedances of the daily sound level criteria.

Table 3 represents the number of 1-hour exceedances that occurred during the month, and when applicable, the reason for the exceedance and the corrective action taken by the team. As reported in the table there were twelve exceedances recorded during the month, however only one at Location N3 was associated with construction activities. One exceedance recorded on April 2nd at Location N3 was due to monitor maintenance activities. One exceedance recorded on April 20th at Location N4 was due to lawn maintenance activities near the monitor. Nine consecutive exceedances recorded on April 25th at Location N6 occurred due to power losses and tipping of the monitoring unit.

Table 2. Construction Noise Monitoring Results (30-Day Exceedances) – April 2018

Site ID	Noise Monitoring Location	Construction Monitoring		
		30-Day Leq dB(A)	30-Day Criteria dB(A)	Exceedance (Yes/No)
N1	West of New Jersey Avenue SE	64	80	No
N2	Corner of 3 rd Street and Virginia Avenue SE	68	80	No
N3	Between 3 rd Street and 4 th Street SE (in front of townhomes)	68	80	No
N4	Corner of 4 th Street and I Street SE	65	80	No
N5	Corner of 5 th Street and Virginia Avenue SE (in front of Capper Senior Apartments)	65	80	No
N6	Adjacent to fence of Maine Corps Recreation Facility on 6 th Street SE	65	80	No
N7	Between 8 th and 9 th Streets SE (in front of commercial buildings)	67	80	No
N8	Within Virginia Avenue Park	64	80	No

Figure 2. Summary of Daily Construction Noise Monitoring Data dB(A) – April 2018



Note that Monitoring Location N6 did not record data between March 18 and 22 due to power losses and the time it took to contact Navy Yard personnel to get access to the base. Location N6 did not record data from March 25 and 27 due to power losses and tipping of unit to high wind – the issue was corrected when access to the base was allowed.

Table 3. Construction Noise Monitoring Results (1-hour Exceedances) – April 2018

Site ID	Noise Monitoring Location	Number of 1-hour Exceedances	Date	Time	Source	Corrective Action Taken
N1	West of New Jersey Avenue SE	0	N/A	N/A	N/A	N/A
N2	Corner of 3 rd Street and Virginia Avenue SE	0	N/A	N/A	N/A	N/A
N3	Between 3 rd Street and 4 th Street SE (in front of townhomes)	2	4/2/18	9:00 am – 10:00 am	Asphalt cutting associated with roadway construction	Contractor contacted to modify operations
			4/11/18	12:00 pm – 1:00 pm	Monitor maintenance	Maintenance performed
N4	Corner of 4 th Street and I Street SE	1	4/20/18	5:00 pm – 6:00 pm	Lawn maintenance	No action required
N5	Corner of 5 th Street and Virginia Avenue SE (in front of Capper Senior Apartments)	0	N/A	N/A	N/A	N/A
N6	Adjacent to fence of Marine Corps Recreation Facility on 6 th Street SE	9	4/25/18	12:00 am – 7:00 am 10:00 am – 12:00 pm	Monitor blown over by high winds	Monitor unit repaired
N7	Between 8 th and 9 th Streets SE (in front of commercial buildings)	0	N/A	N/A	N/A	N/A
N8	Within Virginia Avenue Park	0	N/A	N/A	N/A	N/A

