

CONSTRUCTION NOISE MONITORING SUMMARY REPORT

FEBRUARY 1 – FEBRUARY 28, 2018

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

**Prepared for:
CSX Transportation**

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February 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 February 1 – February 28, 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

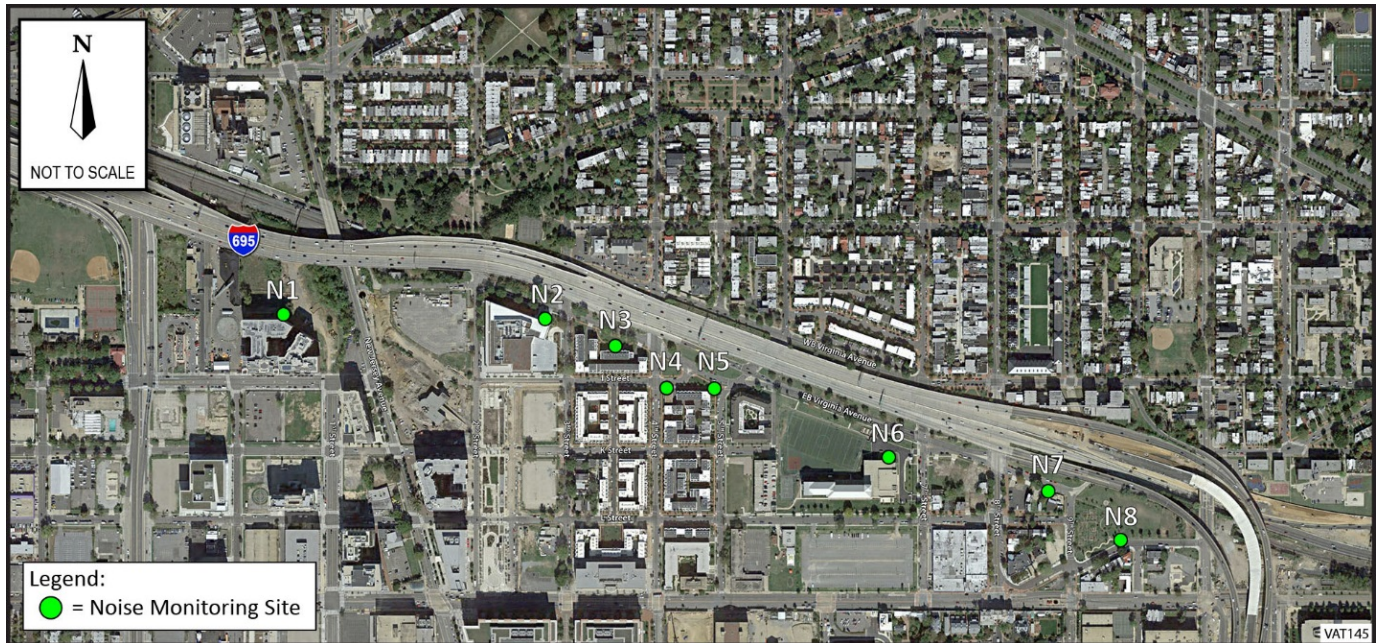


Table 1. Noise Monitoring Locations Description

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

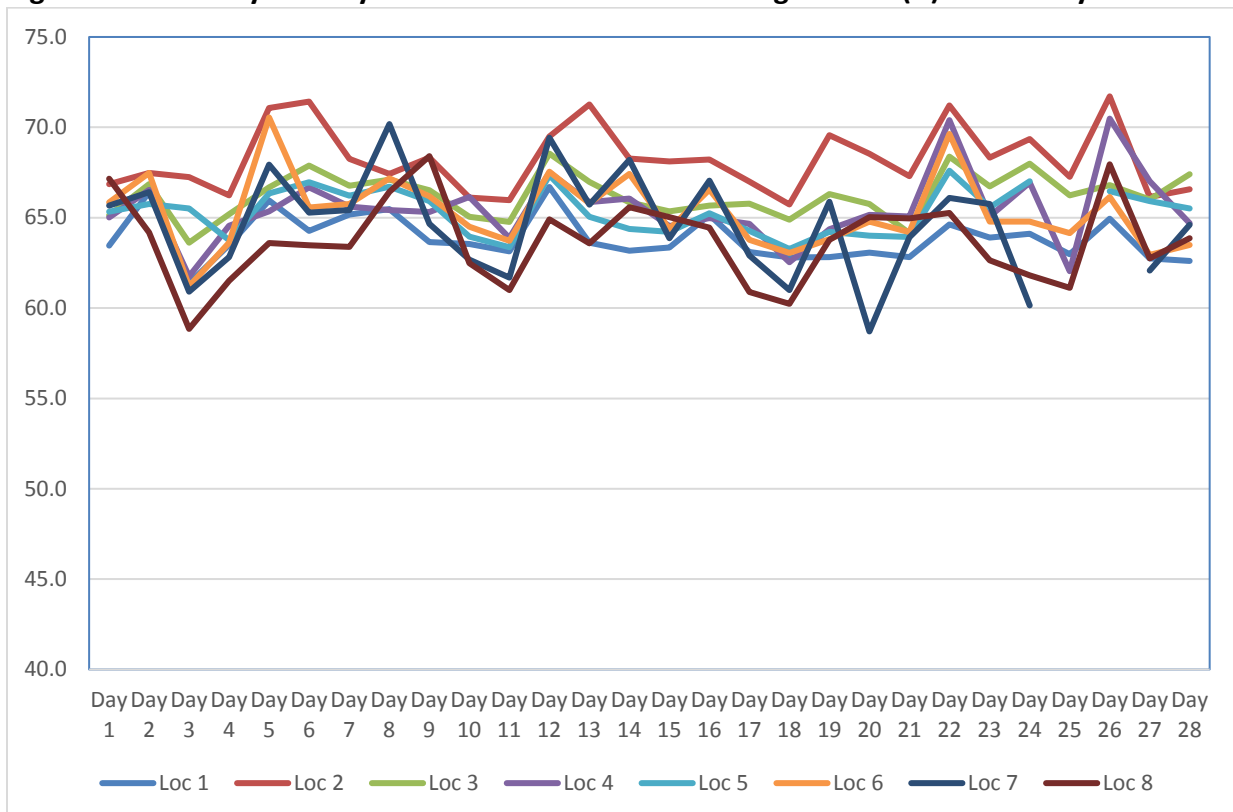
Noise Data Summary Charts

Table 2 presents the results of the sound levels measured during the month of February 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 Table 3 there were two 1-hour exceedances recorded during the month, however neither were related to construction activities. The first recorded exceedance (February 5th at N6) was associated with routine maintenance of the monitor. The second exceedance (February 22th at N4) was caused by emergency sirens in the immediate area.

Table 2. Construction Noise Monitoring Results (30-Day Exceedances) – February 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	69	80	No
N3	Between 3 rd Street and 4 th Street SE (in front of townhomes)	66	80	No
N4	Corner of 4 th Street and I Street SE	66	80	No
N5	Corner of 5 th Street and Virginia Avenue SE (in front of Capper Senior Apartments)	66	80	No
N6	Adjacent to fence of Maine Corps Recreation Facility on 6 th Street SE	66	80	No
N7	Between 8 th and 9 th Streets SE (in front of commercial buildings)	65	80	No
N8	Within Virginia Avenue Park	64	80	No

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



Note that Monitoring Locations 5 and 7 did not record data on the weekend of February 24-25 and on Monday 26 due to power losses – the issue was corrected on the following work day.

Table 3. Construction Noise Monitoring Results (1-hour Exceedances) – February 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)	0	N/A	N/A	N/A	N/A
N4	Corner of 4 th Street and I Street SE	1	2/22/18	9:00 am – 10:00 am	Emergency Siren	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	1	2/5/18	11:00 am – 12:00 pm	Monitor Maintenance	No action required
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