

# **CONSTRUCTION NOISE MONITORING SUMMARY REPORT**

**JULY 1 – JULY 31, 2015**

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

**Prepared for:  
CSX Transportation**

**Prepared by:  
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**July 2015**

## **VIRGINIA AVENUE TUNNEL RECONSTRUCTION**

### **Construction Noise Monitoring Summary – July 2015**

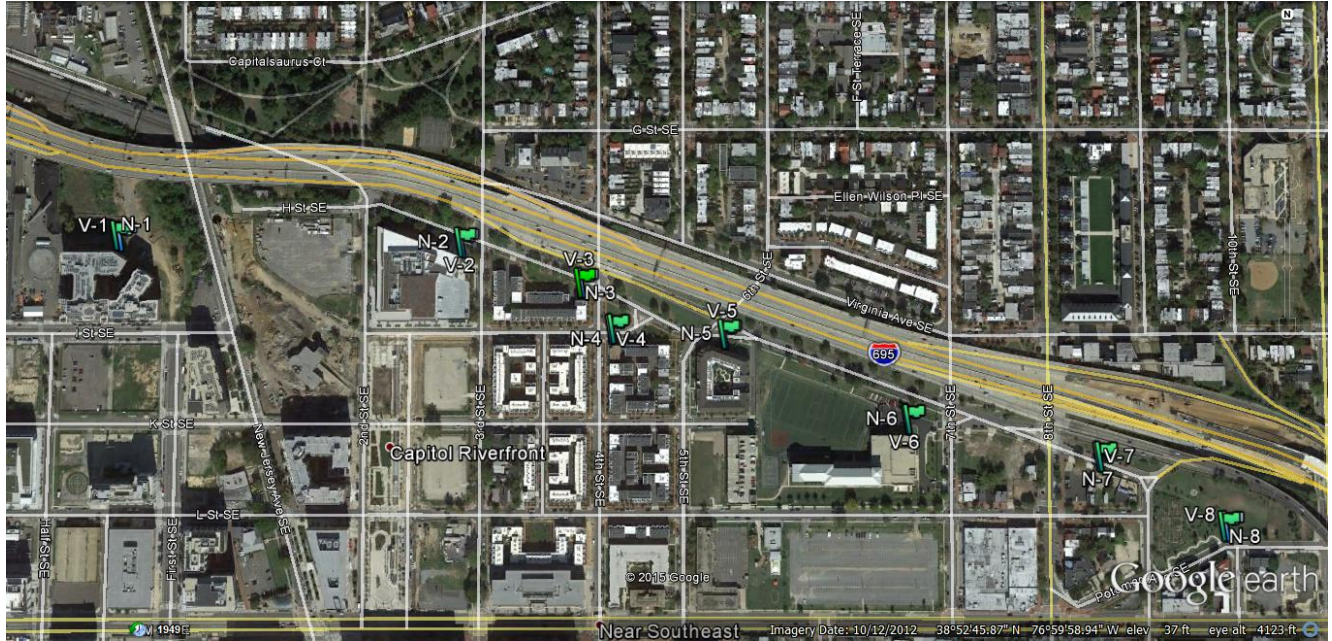
The Project Team has prepared this noise monitoring report as part of the ongoing efforts to comply with the commitments presented in the Virginia Avenue Tunnel Reconstruction Final Environmental Impact Statement (FEIS) and Section 4(f) Evaluation (May, 2014) and further detailed in the Record of Decision (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 July 1 – July 31, 2015. 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**

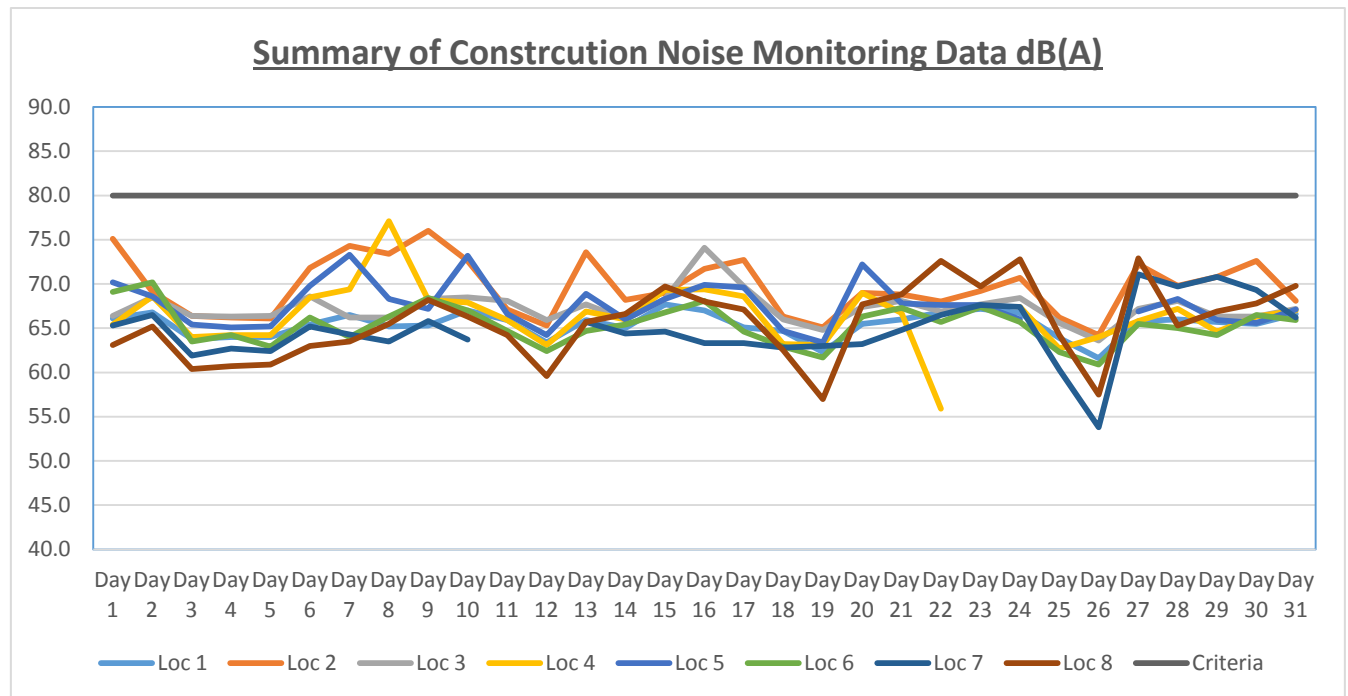
Site ID	Noise Monitoring Location
N1	West of New Jersey Avenue SE
N2	Corner of 3 <sup>rd</sup> Street and Virginia Avenue SE
N3	Between 3 <sup>rd</sup> Street and 4 <sup>th</sup> Street SE, in front of Townhomes
N4	Corner of 4 <sup>th</sup> Street SE and I Street SE
N5	Corner of 5 <sup>th</sup> Street and Virginia Avenue SE, in front of Capper Senior Apartments
N6	Adjacent to fence of Marine Corp Recreation Facility on 6 <sup>th</sup> Street SE
N7	In front of Building on 7 <sup>th</sup> Street SE
N8	Within Virginia Avenue Park

**Noise Data Summary Charts**

Table 2 presents the results of the sound levels measured during the month of July 2015. The daily sound levels results are plotted in Figure 2 and show how the measured levels compare to the established noise criteria. Table 3 represents the number of 1-hr exceedances that occurred during the month, as well as the reason for the exceedance and the corrective action taken by the team.

**Table 2. Construction Noise Monitoring Results – July 2015**

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	65	80	No
N2	Corner of 3 <sup>rd</sup> Street and Virginia Avenue SE	71	80	No
N3	Between 3 <sup>rd</sup> Street and 4 <sup>th</sup> Street SE, in front of Townhomes	67	80	No
N4	Corner of 4 <sup>th</sup> Street and I Street SE	68	80	No
N5	Corner of 5 <sup>th</sup> Street and Virginia Avenue SE, in front of Capper Senior Apartments	68	80	No
N6	Adjacent to fence of Marine Corps Recreation Facility on 6 <sup>th</sup> Street SE	66	80	No
N7	In front of Building on 7 <sup>th</sup> Street SE	66	80	No
N8	Within Virginia Avenue Park	66	80	No



**Figure 2. Summary of Daily Construction Noise Monitoring Data dB(A) – July 2015**

**Table 3. Construction Noise Monitoring Results (Number of 1-hour Exceedances) – July 2015**

Site ID	Noise Monitoring Location	Number of 1-hour Exceedances	Day of the Month	Time	Reason	Action Taken
N1	West of New Jersey Avenue SE	0	N/A	N/A	N/A	N/A
N2	Corner of 3 <sup>rd</sup> Street and Virginia Avenue SE	5	July 1 July 9 July 9 July 13 July 27	1 pm – 2 pm 8 am – 9 am 2 pm – 3 pm 2 pm – 3 pm 10 am – 11 am	Construction	Engineering controls will be in place for future similar operations
N3	Between 3 <sup>rd</sup> Street and 4 <sup>th</sup> Street SE, in front of Townhomes	0	N/A	N/A	N/A	N/A
N4	Corner of 4 <sup>th</sup> Street and I Street SE	2	July 8 July 8	9 am - 10 am 10 am - 11 am	Construction	Engineering controls will be in place for future similar operations
N5	Corner of 5 <sup>th</sup> Street and Virginia Avenue SE, in front of Capper Senior Apartments	2	July 7 July 10	12 pm - 1 pm 9 am - 10 am	Construction	Engineering controls will be in place for future similar operations
N6	Adjacent to fence of Marine Corps Recreation Facility on 6 <sup>th</sup> Street SE	0	N/A	N/A	N/A	N/A
N7	In front of Building on 7 <sup>th</sup> Street SE	0	N/A	N/A	N/A	N/A
N8	Within Virginia Avenue Park	0	N/A	N/A	N/A	N/A