

SR 520 Montlake Project

Noise Monitoring Weekly Report Summary for **Monday, September 9, 2019** to **Sunday, September 15, 2019**

PUBLISHED SEPTEMBER 18, 2019

Monitoring times: Weekdays, 10 p.m. to 7 a.m.; weekends, 10 p.m. to 9 a.m.

How to use this report: This document summarizes the weekly nighttime noise data for the SR 520 Montlake Project. In it, you'll find:

- Page 1 - Summary of noise levels recorded above the limits allowed under the Major Public Project Construction Noise Variance, for this week and throughout the project. This includes non-project-related noise exceedances
- Page 2 - Map of the project limits and locations of the seven stationary monitor locations
- Pages 3 – 9 - Night-by-night noise recordings for each of the project noise monitors, along with a description of the work that night, comments received from the public regarding Project noise, and explanations for any noise limit exceedances and actions taken in response
- Page 10 - Log of public comments regarding nighttime noise issues and resolutions for the week

WSDOT is sharing this information as per the terms of the Major Public Project Construction Noise Variance (Permit #3030792).

MPPCNV start date: **Friday, August 16, 2019**

MPPCNV days to date: **31**

WEEKLY TOTALS

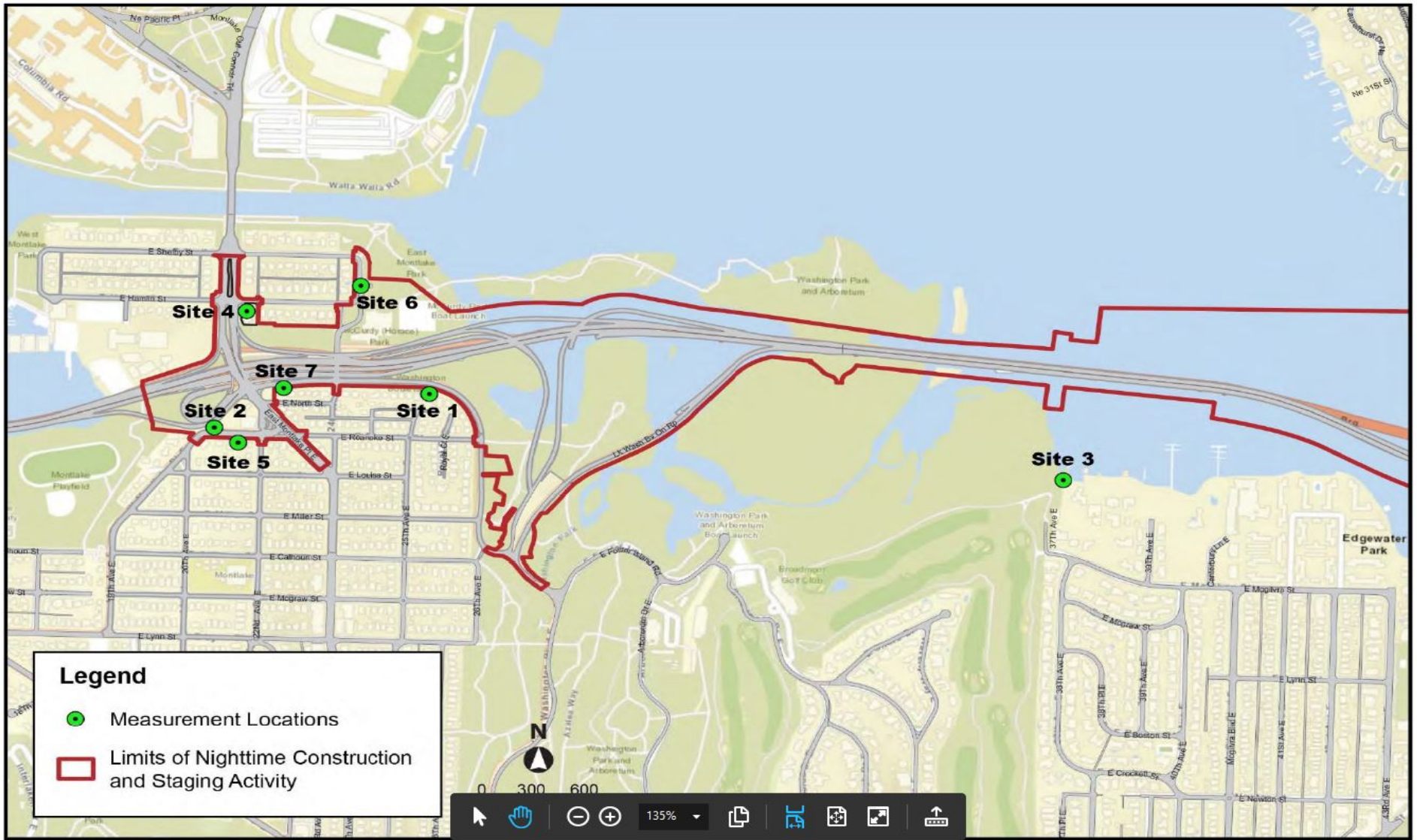
Nights worked this week (under the MPPCNV)	2
Project-related exceedances this week	8
Nighttime noise issue comments to project	3
Non-project-related noise exceedances this week	63

PROJECT TOTALS TO DATE

Total Nights Worked (under the MPPCNV)	7
Total Project Related exceedances	8
Total noise issue comments to project	5
Total non-project related exceedances	134

Noise Monitoring Locations: the map below shows the work limits of the SR 520 Montlake Project and the locations of the seven stationary noise monitoring sites

EXHIBIT 5. CONSTRUCTION AREA AND NOISE MEASUREMENT LOCATIONS



SR 520 Montlake Project
Major Public Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, September 9, 2019 to Sunday, September 15, 2019 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project area

Monday, September 9, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 - 2449 E. Lk WA Blvd	67dB	69.9	68.6	66.3	64.8	62.9	64.4	65.5	68.3	71.3	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	66.9	65.3	63.6	62.5	62.9	62.2	65.6	69.9	74.4	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	57.7	56.3	56.4	53.0	52.9	52.1	55.7	57.7	62.3	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	65.5	64.0	60.6	58.3	57.0	58.6	64.6	68.1	73.4	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	59.9	58.1	56.2	55.2	55.0	54.5	57.4	63.8	68.1	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	67.9	59.7	56.9	54.5	57.3	51.9	60.3	63.8	65.4	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	57.6	54.9	52.2	49.5	49.0	48.1	53.0	59.0	63.6	N/A	N/A
Portable Site 1 - Between Sites 4 and 6	63dB	#	#	#	#	#	#	#	#	#	N/A	N/A
Portable Site 2 - Between Sites 1 and 7	66dB	#	#	#	#	#	#	#	#	#	N/A	N/A
Portable Site 3 - Between Sites 1 and 7	66dB	#	#	#	#	#	#	#	#	#	N/A	N/A

*1-Hour Leq

Notes recorded by the on-site Independent Noise Monitor

Work:

No night time construction work performed this night 9/9/19.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

No project related exceedances.

Legend

N/A = Time Period not applicable to MPPCNV

Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.

Red = Noise Level Exceedance

~ = No Data Available

= No work in vicinity of portable site locations

SR 520 Montlake Project
Major Public Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, September 9, 2019 to Sunday, September 15, 2019 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project area

Tuesday, September 10, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 -2449 E. Lk WA Blvd	67dB	69.9	68.6	66.3	64.8	62.9	64.4	65.5	68.3	71.3	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	67.9	67.1	65.1	63.8	62.4	63.2	65.5	67.4	70.6	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	60.1	58.4	56.9	55.5	54.4	51.7	54.2	55.9	59.2	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	65.5	63.8	61.3	59.1	57.1	59.4	63.5	67.4	68.9	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	61.5	59.0	56.4	54.2	52.3	51.6	55.5	58.6	62.4	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	62.2	58.9	60.3	58.1	58.3	54.5	59.8	60.0	61.5	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	59.1	56.4	53.7	51.4	48.7	48.9	52.7	57.1	61.4	N/A	N/A
Portable Site 1 - Between Sites 4 and 6	63dB	#	#	#	#	#	#	#	#	#	N/A	N/A
Portable Site 2 - Between Sites 1 and 7	66dB	#	#	#	#	#	#	#	#	#	N/A	N/A
Portable Site 3 - Between Sites 1 and 7	66dB	#	#	#	#	#	#	#	#	#	N/A	N/A

*1-Hour Leq

Notes recorded by the on-site Independent Noise Monitor

Work:

No night time construction work performed this night 9/10/19.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

No project related exceedances.

Legend

N/A = Time Period not applicable to MPPCNV

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= No work in vicinity of portable site locations

SR 520 Montlake Project
Major Public Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, September 9, 2019 to Sunday, September 15, 2019 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project area

Wednesday, September 11, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 -2449 E. Lk WA Blvd	67dB	69.6	68.4	66.2	65.2	65.1	64.8	66.5	69.3	70.9	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	68.5	65.9	65.0	63.5	64.5	66.8	65.9	69.4	69.8	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	61.8	59.7	55.5	54.8	53.9	54.0	56.0	58.1	60.3	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	65.6	64.4	61.4	59.1	59.6	59.9	63.9	68.0	69.5	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	62.0	59.2	57.0	55.6	55.7	56.1	57.7	60.6	62.6	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	63.1	61.4	60.1	59.9	56.6	59.2	60.8	62.4	62.6	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	59.8	57.1	53.7	51.5	50.0	50.2	53.8	57.7	61.2	N/A	N/A
Portable Site 1 - Between Sites 4 and 6	63dB	#	#	#	#	#	#	#	#	#	N/A	N/A
Portable Site 2 - Between Sites 1 and 7	66dB	#	#	#	#	#	#	#	#	#	N/A	N/A
Portable Site 3 - Between Sites 1 and 7	66dB	#	#	#	#	#	#	#	#	#	N/A	N/A
	*1-Hour Leq											

Notes recorded by the on-site Independent Noise Monitor

Work:

No night time construction work performed this night 9/11/19.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

No project related exceedances.

Legend

N/A = Time Period not applicable to MPPCNV

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Red = Noise Level Exceedance

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= No work in vicinity of portable site locations

SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, September 9, 2019 to Sunday, September 15, 2019 10 pm to 7 am (weekdays)/ 9a.m. (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project area

Thursday, September 12, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 - 2449 E. Lk WA Blvd	67dB	68.7	67.1	66.2	64.5	64.5	64.6	65.3	68.6	70.9	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	67.8	66.1	64.3	62.3	61.7	62.1	65.6	71.7	70.5	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	58.2	53.9	54.8	52.2	51.9	50.9	55.4	56.3	58.5	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	66.5	64.9	61.5	59.1	58.3	59.9	64.2	69.2	69.6	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	60.1	57.3	56.0	53.4	52.6	51.3	55.4	68.1	62.1	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	64.9	61.0	61.8	58.5	56.9	56.5	62.1	65.5	62.6	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	58.6	55.5	53.2	49.9	49.3	48.6	52.6	58.3	61.1	N/A	N/A
Portable Site 1 - Between Sites 4 and 6	63dB	#	#	#	#	#	#	#	#	#	N/A	N/A
Portable Site 2 - Between Sites 1 and 7	66dB	#	#	#	#	#	#	#	#	#	N/A	N/A
Portable Site 3 - Between Sites 1 and 7	66dB	#	#	#	#	#	#	#	#	#	N/A	N/A

*1-Hour Leq

Notes recorded by the on-site Independent Noise Monitor

Work:

No night time construction work performed this night 9/12/19.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

No project related exceedances.

Legend

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= No work in vicinity of portable site locations

SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, September 9, 2019 to Sunday, September 15, 2019 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project area

Friday, September 13, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 - 2449 E. Lk WA Blvd	67dB	63.40	62.50	61.70	60.30	59.60	59.60	60.30	59.20	60.50	63.20	64.90
Site 2 - 2015 E. Roanoke St	78dB	63.40	62.50	60.20	58.30	57.00	55.00	55.80	57.60	60.00	62.50	64.00
Site 3 - 3810 E. McGilvra St	62dB	52.70	51.30	50.50	48.80	48.80	47.60	47.70	48.10	49.50	51.00	53.30
Site 4 - 2800 Montlake Blvd E	66dB	67.10	66.20	63.90	62.50	59.60	58.40	59.30	62.80	65.60	66.40	67.50
Site 5 - 2565 22nd Av E.	65dB	61.50	60.10	57.80	55.90	54.50	52.40	53.90	55.20	57.60	59.70	61.90
Site 6 - 2160 E. Hamlin St	63dB	59.00	59.50	69.80	61.50	63.90	66.60	63.10	63.30	65.80	65.40	69.00
Site 7 - 2209 E. Lake Wa Blvd	66dB	58.90	58.40	57.60	56.00	55.70	55.00	56.00	57.30	60.00	61.30	63.30
Portable Site 1 - Between Sites 4 and 6	63dB	67.80	60.90	55.30	52.70	53.10	54.30	53.30	54.10	56.90	57.50	61.40
Portable Site 2 - Between Sites 1 and 7	66dB	68.40	66.50	65.10	53.50	62.90	63.20	66.10	63.60	65.20	68.00	69.20
Portable Site 3 - Between Sites 1 and 7	66dB	63.20	62.80	62.30	61.60	60.40	59.60	71.00	62.90	64.00	67.40	68.20

*1-Hour Leq

Notes recorded by the on-site Independent Noise Monitor

Work:

Construction work over the weekend to reconfigure the SR520 off-ramps to Montlake Blvd and Lk WA Blvd. Work included grading, paving saw cutting, barrier removal and placement. Contractor worked from 10:00pm thru midday Saturday the 14th

Public Comments:

4:00am Sept. 14 a call to the hotline was received from a resident of the Shelby Hamlin neighborhood of noise and vibration.
 9:34am Sept. 14 an email was received from Eddie Speer (resident) to Ombudsman.
 5:40pm Sept. 14 a call to the Hotline was received about the vibration and noise from Friday night's work
 See Public Notice Log for additional details

Exceedances:

Site #4: Exceedances where public traffic related. No construction work near that location.

Site #6: Noise monitoring system (GEOSCOPE) was collecting data through the weekend, but not reporting until late Saturday.

INM handheld reading indicated work within allowable limits at this location

After reviewing system reported data and noise data audio record for Site #6, noise exceedances for this site are related to the project construction work.

Portable sites #1, #2, & #3: Exceedances between 11:00PM -12:00PM were from the crew setting up the monitors while they (Monitors) were on, exceedance at the AM hours were from public traffic. Noise from the actual work on the north side of 520 was not the cause of these.

Legend

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SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, September 9, 2019 to Sunday, September 15, 2019 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project area

Saturday, September 14, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 - 2449 E. Lk WA Blvd	67dB	64.1	62.8	61.4	59.8	59.7	55.7	52.1	54	57.5	60.1	62.5
Site 2 - 2015 E. Roanoke St	78dB	64.0	62.4	60.8	58.7	60.3	57.1	56.3	57.6	60.2	62.1	63.8
Site 3 - 3810 E. McGilvra St	62dB	53.4	53.0	51.3	49.7	52.4	50.7	49.0	48.8	50.5	51.7	53.6
Site 4 - 2800 Montlake Blvd E	66dB	69.8	68.3	75.0	62.3	63.1	61.0	60.8	62.9	66.9	68.0	69.7
Site 5 - 2565 22nd Av E.	65dB	62.2	61.1	59.1	57.6	61.0	57.6	57.0	57.1	59.4	60.0	62.6
Site 6 - 2160 E. Hamlin St	63dB	57.6	58.5	56.9	55.4	56.1	51.5	50.4	51.9	55.8	58.3	59.1
Site 7 - 2209 E. Lake Wa Blvd	66dB	60.1	58.9	57.8	56.3	58.0	51.8	49.6	51.8	55	58.3	59.5
Portable Site 1 - Between Sites 4 and 6	63dB	55.9	54.8	53.6	50.9	52.5	50.0	47.9	50.0	54.0	55.4	57.3
Portable Site 2 - Between Sites 1 and 7	66dB	68.7	67.2	65.1	63.3	64.3	61.8	55.9	58.6	62.2	65.3	67.9
Portable Site 3 - Between Sites 1 and 7	66dB	67.4	64.0	61.3	58.2	59.1	50.4	59.9	52.7	59.9	67.4	68.4

*1-Hour Leq

Notes recorded by the on-site Independent Noise Monitor

Work:
Continued work over the weekend to reconfigure the SR520 off-ramps to Montlake Blvd and Lk WA Blvd. Work barrier removal and placement.
Contractor worked between 10pm - 3:30am. No noise exceedances after 3:30am are related to construction work.

Public Comments:
No public comments received related to nighttime noise.

Exceedances:
Site #4: Exceedances were public traffic related. No construction work near that location.
Portable sites #2 & #3: Two portable site on Lk WA Blvd. (south side of SR520). Exceedance at these locations were from public traffic. Noise from the actual work on the north side of 520 was not the cause of the exceedances.

Legend
N/A = Time Period not applicable to MPPCNV
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= No work in vicinity of portable site locations

SR 520 Montlake Project
Major Public Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, September 9, 2019 to Sunday, September 15, 2019 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project area

Sunday, September 15, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 - 2449 E. Lk WA Blvd	67dB	67.1	60.4	56.5	54.4	53.7	52.7	57.4	62.3	66.3	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	62.2	61.3	58.2	56.2	55.7	58.8	60.1	63.4	65.2	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	51.6	50.5	48.9	48.7	47.7	47.6	49.1	52.8	56	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	64.7	63.4	61.0	58.2	57.6	60.2	63.6	67.5	72.0	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	60.3	59.3	57.0	55.8	55.7	56.6	58.5	61.1	62.8	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	56.5	54.1	50.1	49.0	50.2	48.9	50.9	56.2	59.6	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	57.3	55.8	52.2	50.1	50.0	50.8	53.8	57.9	61.8	N/A	N/A
Portable Site 1 - Between Sites 4 and 6	63dB	54.3	51.9	47.3	46.2	48.2	47.5	49.7	53.6	57.2	N/A	N/A
Portable Site 2 - Between Sites 1 and 7	66dB	65.5	64.3	60.5	58.2	57.1	56.4	61.5	66.2	70.2	N/A	N/A
Portable Site 3 - Between Sites 1 and 7	66dB	57.5	63.5	56.1	50.2	42.5	50.4	57.2	63.0	68.0	N/A	N/A

*1-Hour Leq

Notes recorded by the on-site Independent Noise Monitor

Work:

No night time construction work performed this night 9/15/19.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

No project related exceedances.

Legend

N/A = Time Period not applicable to MPPCNV

Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.

Red = Noise Level Exceedance

~ = No Data Available

= No work in vicinity of portable site locations

