

SR 520 Montlake Project

Noise Monitoring Weekly Report Summary for **Monday, September 16, 2019** to **Sunday, September 22, 2019**

PUBLISHED SEPTEMBER 25, 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: **38**

WEEKLY TOTALS

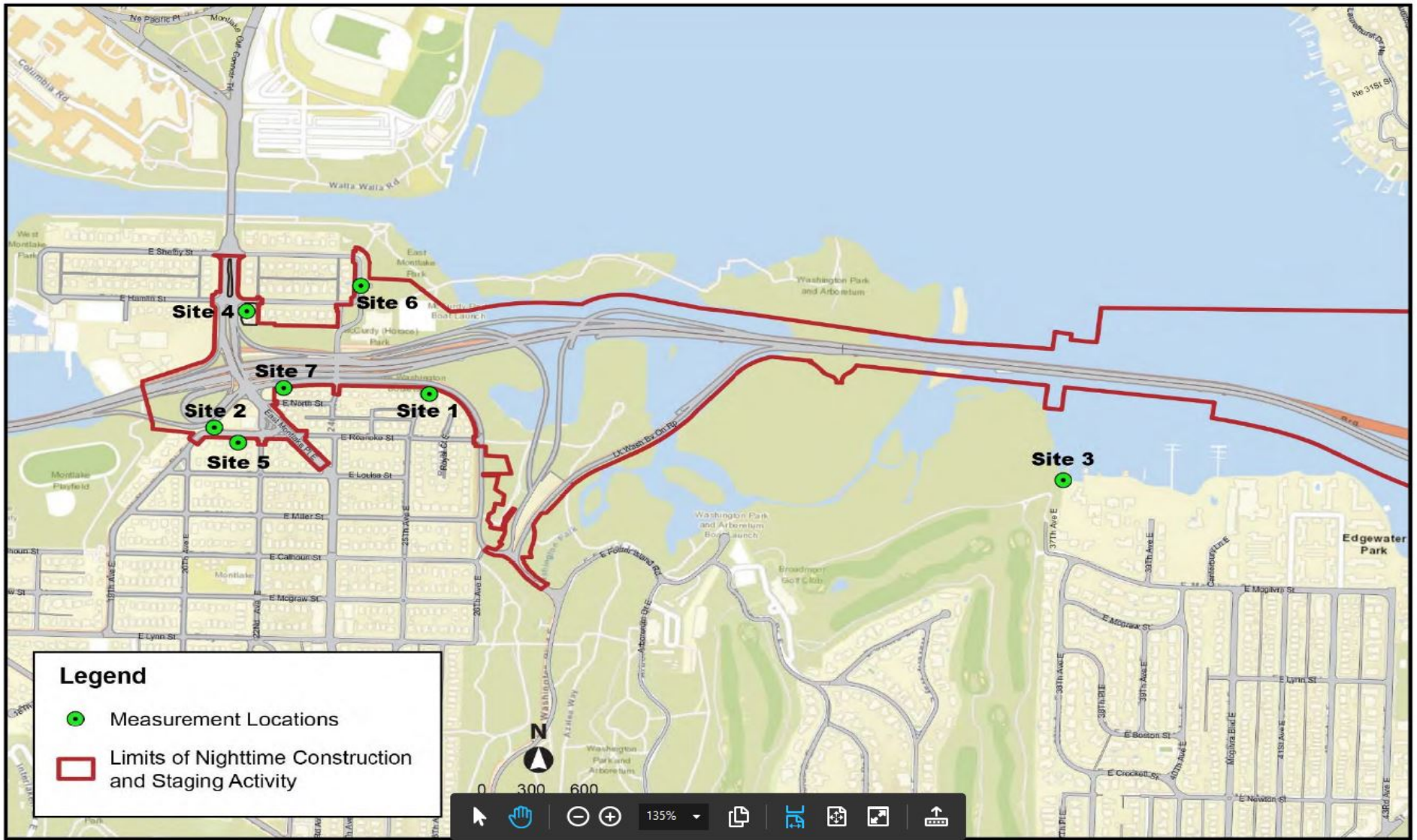
Nights worked this week (under the MPPCNV)	5
Project related exceedances this week	0
Nighttime noise issue comments to the project	0
Non-project-related noise exceedances this week	46

PROJECT TOTALS TO DATE

Total Nights Worked (under the MPPCNV)	12
Total Project related exceedances	8
Total noise issue comments to the project	5
Total non-project related exceedances	180

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 Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, September 16, 2019 to Sunday, September 22, 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 16, 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	60.9	58.4	56.2	52.7	51.9	51.8	56.7	61.5	65.9	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	60.9	59.1	57.2	54.8	54.8	54.2	58.5	61.5	64.9	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	51.2	50.1	49.3	49.7	51.1	50.8	49.7	50.8	54.0	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	65.4	63.3	61.4	58.9	57.7	58.3	63.4	67.1	72.7	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	59.5	58.3	56.6	55.3	55.3	54.8	57.8	59.3	59.3	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	55.7	53.9	51.8	48.5	48.7	48.5	54.1	56.3	59.0	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	57.1	54.7	52.8	49.5	49.5	49.2	53.6	57.6	61.4	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63dB	54.5	52.6	49.7	45.5	46.6	47.6	53.2	53.8	57.0	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66dB	65.2	62.3	60.3	56.7	55.6	55.9	60.5	65.7	69.9	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66dB	63.2	59.9	60.8	54.3	55.0	54.2	59.2	63.4	67.8	N/A	N/A

*1-Hour Leq

Notes recorded by the on-site Independent Noise Monitor

Work:

Pier 31 & 32 bridge deck coring and geotechnical boring tests. (10pm-5am)

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site #4: Exceedances were normal public traffic noise. Not construction related.

Site #9: Exceedance was normal public traffic noise. Not construction related.

Site #10: Exceedance was normal public traffic noise. Not construction related.

Legend

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

N/A = Time Period not applicable to MPPCNV

Red = Noise Level Exceedance

Blue = Noise level exceedance, not project related

~ = No Data Available

= No work in vicinity of portable site locations

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

Monday, September 16, 2019 to Sunday, September 22, 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 17, 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	61.7	60.3	58.1	54.9	52.8	52.2	56.7	61.9	65.9	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	61.7	60.3	58.8	57.8	56.6	55.3	59.5	62.7	64.6	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	55.3	55.1	54.3	53.8	51.6	48.2	50.3	52.5	54.0	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	66.4	64.1	61.8	61.6	60.3	60.4	64.8	68.3	72.7	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	60.0	58.7	57.3	58.9	60.9	55.4	56.3	59.7	63.5	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	56.8	54.2	53.2	52.3	50.1	48.3	49.4	53.4	56.7	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	58.5	56.8	54.3	52.6	50.0	49.6	53.3	58.0	62.3	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63dB	55.3	52.7	51.7	48.3	48.2	45.3	46.6	51.8	54.8	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66dB	66.0	64.5	61.8	58.8	56.4	57.4	51.6	66.2	70.6	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66dB	64.6	61.8	59.3	58.4	55.3	56.6	60.0	65.0	68.4	N/A	N/A

*1-Hour Leq

Notes recorded by the on-site Independent Noise Monitor

Work:

Pier 31 & 32 bridge deck coring and geotechnical boring tests. (10pm-4am)

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

- Site #1: Exceedance was normal public traffic noise. Not construction related.
- Site #4: Exceedances were normal public traffic noise. Not construction related.
- Site #9: Exceedances were normal public traffic noise. Not construction related.
- Site #10: Exceedance were normal public traffic noise. Not construction related.

Legend

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

N/A = Time Period not applicable to MPPCNV

Red = Noise Level Exceedance

Blue = Noise level exceedance, not project related

~ = No Data Available

SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT
Monday, September 16, 2019 to Sunday, September 22, 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 18, 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	60.9	58.9	54.8	53.6	54.2	57.4	62.1	66.5	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	64.3	61.5	60.0	57.4	56.2	58.4	59.8	63.3	65.7	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	57.1	53.1	51.8	49.0	48.7	49.1	50.3	53.7	57.1	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	66.4	64.0	62.2	59.8	58.0	59.2	64.3	67.7	69.4	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	62.4	59.6	58.6	56.6	55.8	56.7	58.2	60.9	63.2	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	57.8	55.4	53.2	51.0	50.2	50.5	53.1	54.8	58.3	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	60.0	56.8	54.5	51.3	50.2	50.7	54.4	58.3	62	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63dB	55.8	53.0	50.1	47.0	47.4	48.6	50.8	52.9	56.3	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66dB	67.4	64.3	62.6	58.3	56.7	57.4	60.7	65.6	70.0	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66dB	64.7	62.1	59.4	55.7	54.3	55.1	59.4	63.5	67.3	N/A	N/A
	*1-Hour Leq											

Notes recorded by the on-site Independent Noise Monitor

Work:
No night time construction work performed.

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

Exceedances:
Not project related.

Legend
Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.
N/A = Time Period not applicable to MPPCNV
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Blue = Noise level exceedance, not project related
~ = No Data Available

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

Monday, September 16, 2019 to Sunday, September 22, 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

Thursday, September 19, 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	63.1	61.4	58.4	55.1	53.6	52.5	55.9	61.6	66.3	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	63.0	61.3	58.3	56.9	56.4	57.9	59.7	63.3	65.7	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	54.4	53.0	50.8	48.8	47.8	47.1	48.2	52.4	56.5	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	66.0	64.5	61.5	59.6	57.9	66.5	64.0	67.6	68.7	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	60.9	59.4	57.2	56.4	56.4	56.1	57.3	60.3	63.3	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	53.6	51.2	52.9	47.8	46.7	46.9	50.1	52.8	55.3	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	58.3	56.4	54.0	51.1	50.2	49.7	52.9	57.5	61.4	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63dB	52.7	48.8	50.8	46.2	44.7	45.0	47.8	51.7	53.9	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66dB	66.9	64.8	62.1	58.4	57.4	56.3	59.5	65.2	69.8	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66dB	65.3	61.8	59.1	55.6	61.7	54.0	57.4	62.5	67.0	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 9/19/19.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Not project related.

Legend

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

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Red = Noise Level Exceedance

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SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT
Monday, September 16, 2019 to Sunday, September 22, 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 20, 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	64.50	64.50	62.80	61.00	59.60	58.20	56.90	58.50	62.30	64.60	65.10
Site 2 - 2015 E. Roanoke St	78dB	64.20	63.50	62.30	60.20	62.00	56.10	55.80	58.50	62.20	64.50	65.90
Site 3 - 3810 E. McGilvra St	62dB	56.30	54.90	53.50	51.20	49.70	47.70	47.30	48.40	51.40	53.60	55.20
Site 4 - 2800 Montlake Blvd E	66dB	66.50	65.00	69.20	61.10	61.10	57.70	58.30	63.60	65.90	66.80	67.90
Site 5 - 2565 22nd Av E.	65dB	62.30	61.50	60.10	58.60	60.90	55.60	55.80	57.40	60.40	62.30	63.60
Site 6 - 2160 E. Hamlin St	63dB	59.10	58.70	58.50	59.10	56.80	54.00	55.00	58.20	61.40	59.80	58.00
Site 7 - 2209 E. Lake Wa Blvd	66dB	60.40	60.20	59.60	58.70	60.50	58.90	57.70	59.90	60.60	61.90	61.70
Site 8 - Portable Between Sites 4 and 6	63dB	57.60	55.80	54.70	53.30	52.40	49.60	49.10	52.10	55.00	54.80	56.90
Site 9 - Portable Between Sites 1 and 7	66dB	68.20	67.80	65.90	64.90	65.20	66.00	64.90	65.30	69.10	70.80	69.30
Site 10 - Portable Between Sites 1 and 7	66dB	65.60	65.30	65.20	63.20	65.30	64.10	63.20	65.00	66.20	69.70	68.90

*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 barrier removal, grinding, paving, and temporary drainage structures.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

- Site #4: INM did not receive phone alerts. After reviewing reported Geoscope data early Saturday AM found exceedances after the fact. On Monday 9/23/19 after listening to Geoscope audio data for Friday PM - Saturday AM it is believed that all exceedances at that location are not project work related, just regular traffic on Montlake Blvd.
- Site #9: INM did not receive phone alerts. After reviewing reported Geoscope data early Saturday AM found exceedances after the fact. On Monday 9/23/19 after listening to Geoscope audio data for Friday PM - Saturday AM it is believed that all exceedances at that location are not project work related, just regular traffic on Lk WA BLVD.
- Site #10: Received 3 phone alerts (11:28pm 66dB), (3:00am 65dB), (6:00am 65dB) Maximum allowable limit for site# 10 is 66dB. All 3 alarms were sent incorrectly as the system alert limit was set for 63dB, they were within allowable 66dB limits. All 3 exceedances were reported to SDCl. Working with Design-Builder to correct system settings

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

Monday, September 16, 2019 to Sunday, September 22, 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 21, 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	63.6	62.6	61.6	61	58.4	60	54.7	57.7	58.9	60.2	62.9
Site 2 - 2015 E. Roanoke St	78dB	63.2	62.1	60.6	59.7	57.7	59.1	56	57.7	60	61.5	63.9
Site 3 - 3810 E. McGilvra St	62dB	54.6	52.7	50.8	49.9	49.5	48.6	47.9	47.5	49.4	50.4	53
Site 4 - 2800 Montlake Blvd E	66dB	65.3	64.2	63.4	64	59.4	68.3	61.3	61.6	65.3	66.0	67.9
Site 5 - 2565 22nd Av E.	65dB	61	60	58.9	59.5	56.8	57.5	56.0	56.5	58.5	59.7	61.8
Site 6 - 2160 E. Hamlin St	63dB	56.2	56.6	60.9	55.8	55.2	55.7	52.3	54.3	54.4	55.3	57.3
Site 7 - 2209 E. Lake Wa Blvd	66dB	59.1	59.2	63.8	60.8	55.9	56.2	54.1	54.4	56.5	57.7	60.2
Site 8 - Portable Between Sites 4 and 6	63dB	53.2	52.7	56.7	52.2	51.1	52.6	47.7	50.4	52.2	53.7	56.7
Site 9 - Portable Between Sites 1 and 7	66dB	67.5	66.4	65.6	67.3	62	67.8	62.5	64.7	64.9	64.6	67.8
Site 10 - Portable Between Sites 1 and 7	66dB	64.9	65.2	68.9	71.1	62.4	66.6	58.6	60.7	63.3	64.5	67.5

*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 barrier removal and replacement, roadway striping.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site #4: Exceedance was normal public traffic noise. Not construction related.

Site #9: Exceedances were normal public traffic noise. Not construction related.

Site #10: Exceedances were normal public traffic noise. Not construction related.

Legend

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N/A = Time Period not applicable to MPPCNV

Red = Noise Level Exceedance

Blue = Noise level exceedance, not project related

~ = No Data Available

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

Monday, September 16, 2019 to Sunday, September 22, 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 22, 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	60.9	58.1	55.6	52.2	51.5	51.6	55.9	61.3	65.7	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	62.1	60.2	58.1	55.4	54.4	56.2	58.5	62.4	66.7	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	52.1	50.5	51.4	47.5	47.0	46.8	47.6	50.3	53.3	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	71.6	65.5	63.7	59.4	56.9	59.1	63.4	67.7	70.7	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	60.4	59.4	58.3	55.9	55.0	55.5	57.3	60.2	63.5	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	53.2	50.3	50.5	47.5	46.5	47.0	51.4	55.5	59.7	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	57.5	54.4	52.8	49.4	48.3	50.2	52.3	57.2	61.3	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63dB	52.7	48.7	48.5	46.3	44.8	47.0	48.5	52.5	56.5	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66dB	65.2	63.0	60.3	56.5	56.0	56.6	59.8	65.0	69.5	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66dB	64.6	62.0	60.4	55.7	54.5	57.3	57.8	62.8	67.6	N/A	N/A

*1-Hour Leq

Notes recorded by the on-site Independent Noise Monitor

Work:

Geotech work on the EB Bridge of SR 520, finishing the sample drilling. They left the site at 0300 hrs.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site #4: Exceedances were normal public traffic noise. Not construction related.

Site #9: Exceedances were normal public traffic noise. Not construction related.

Site #10: Exceedances were normal public traffic noise. Not construction related.

Legend

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

N/A = Time Period not applicable to MPPCNV

Red = Noise Level Exceedance

Blue = Noise level exceedance, not project related

~ = No Data Available

