

SR 520 Montlake Project

Noise Monitoring Weekly Report Summary for **Monday, December 2, 2019** to **Sunday, December 8, 2019**

PUBLISHED DECEMBER 11, 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: **115**

WEEKLY TOTALS

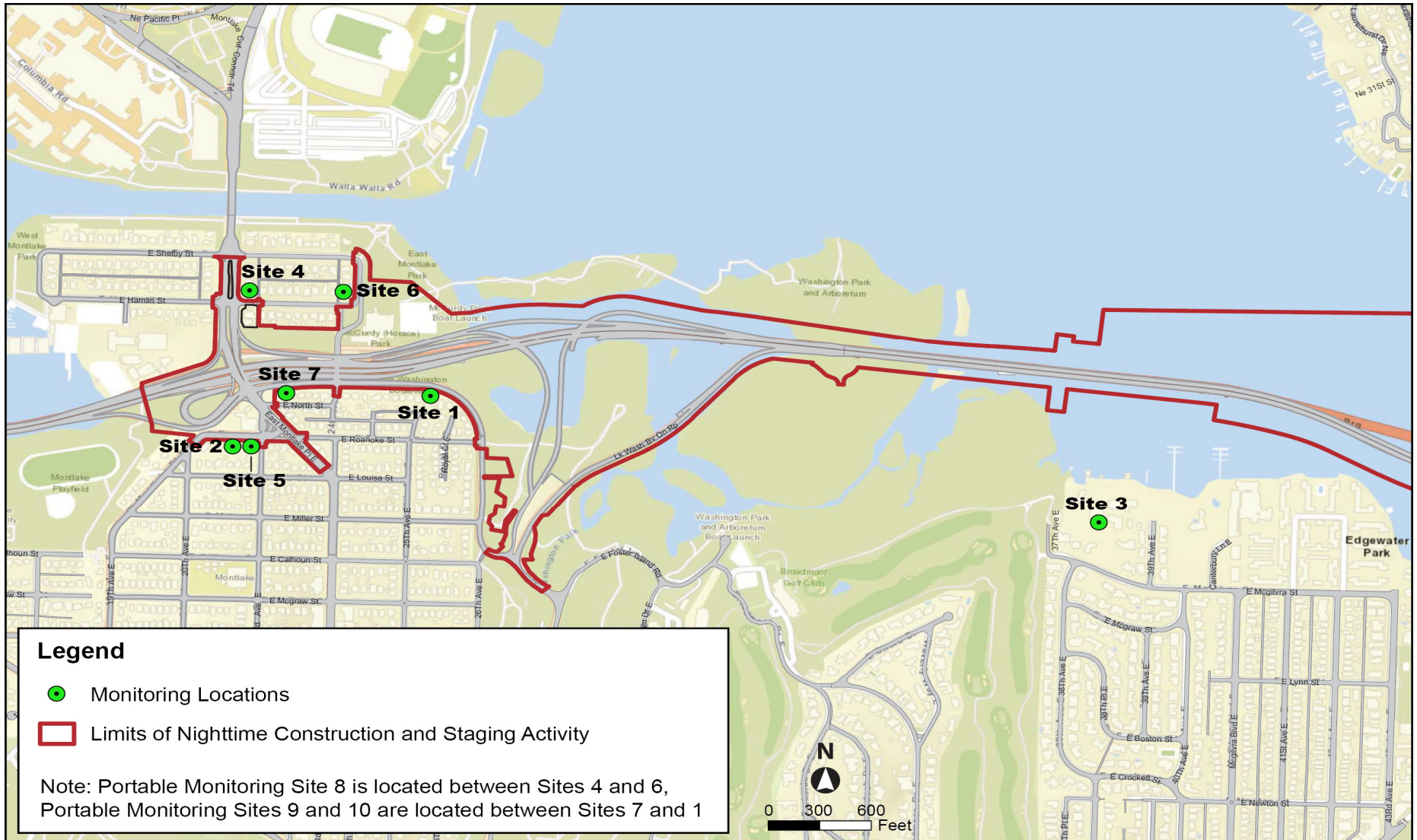
Nights worked this week (under the MPPCNV)	5
Project related non-compliance this week	0
Nighttime noise issue comments to the project	0
Non-project-related noise exceedances this week	48

PROJECT TOTALS TO DATE

Total Nights Worked (under the MPPCNV)	40
Total Project related non-compliance	8
Total noise issue comments to the project	19
Total non-project related exceedances	641

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, December 2, 2019 to Sunday, December 8, 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 are:

Monday, December 2, 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	67	58.0	54.2	53.3	50.6	51.2	49.0	53.4	56.1	60.1	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	62.5	58.7	58.3	55.0	54.3	53.8	60.0	60.5	64.3	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	54.5	47.5	48.1	46.3	47.1	45.6	46.9	48.0	50.5	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	68.2	64.2	69.7	60.3	59.2	59.8	63.5	67.2	69.2	N/A	N/A
Site 5 - 2565 22nd Av E.	65	60.9	56.4	55.6	52.9	52.7	51.3	57.3	57.6	61.9	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	58.7	54.5	55.0	52.1	51.7	48.0	52.3	55.9	56.3	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	57.4	53.3	53.9	49.6	50.2	47.9	52.3	56.4	59.3	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	58.7	53.7	56.1	50.7	51.4	46.8	51.9	55.4	57.0	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	77.5	69.8	59.6	54.6	56.2	55.3	60.7	62.8	67.6	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	61.5	57.3	59.3	53.7	54.1	51.4	56.9	60.4	64.0	N/A	N/A

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

- Traffic signal at the intersection of Lake Washington Blvd E and 24th Ave E.
- Contractor worked between 10 p.m. and 4:10 a.m.
- Gary Stensland with Graham ECM and the WSDOT INM noticed that Site #9 and Site #10 swapped locations from the previous weeks.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site #4 & #9 exceedances are not project-related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

None.

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, project related

Blue = Noise level exceedance, not project related

~ = No Data Available

= No contract work . Portable monitors are not being used (not needed).

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

Monday, December 2, 2019 to Sunday, December 8, 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 are:

Tuesday, December 3, 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	67	54.4	51.6	50.4	47.1	47.8	46.2	50.7	56.5	59.4	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	60.8	58.5	55.8	53.7	52.3	53.4	61.1	61.0	63.3	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	48.1	46.8	47.0	45.7	46.1	45.2	46.2	49.3	49.8	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	66.1	63.6	61.2	59.4	58.2	59.4	69.2	67.3	68.4	N/A	N/A
Site 5 - 2565 22nd Av E.	65	59.1	57.0	53.9	51.5	50.2	51.0	56.7	58.2	60.9	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	55.5	53.5	52.6	49.4	49.5	48.0	51.5	55.3	55.8	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	53.7	51.8	50.8	48.1	47.9	47.8	53.1	55.8	58.6	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	56.1	53.3	51.3	47.8	48.3	46.5	54.4	55.2	56.7	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	59.1	57.2	56.3	49.2	50.6	48.8	53.9	63.2	67.3	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	58.9	56.5	54.7	52.6	52.1	53.0	59.7	60.3	63.6	N/A	N/A

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

-Traffic signal at the intersection of Lake Washington Blvd E and 24th Ave E.
-Contractor worked between 10 p.m. and 5:10 a.m.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site #4 & #9 exceedances are not project-related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

None.

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, project related

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, December 2, 2019 to Sunday, December 8, 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 are:

Wednesday, December 4, 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	67	55.6	53.2	51.0	49.4	48.8	50.4	51.8	57.0	61.3	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	61.9	63.3	57.9	55.7	53.9	56.6	59.2	62.4	66.5	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	48.3	47.5	46.5	45.9	45.8	45.3	46.1	48.8	51.0	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	66.3	70.1	61.4	60.2	57.9	60.0	63.8	67.1	69.6	N/A	N/A
Site 5 - 2565 22nd Av E.	65	59.6	59.7	55.3	53.2	51.6	53.0	56.2	59.3	63.5	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	51.5	49.5	48.3	47.9	47.9	44.4	47.1	51.4	53.4	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	54.7	53.8	50.2	50.1	49.7	49.1	50.6	56.2	59.5	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	53.3	53.4	49.7	48.5	47.7	44.9	48.9	53.8	55.3	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	60.7	56.8	57.4	51.9	56.8	58.8	58.7	63.8	68.3	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	59.3	60.6	54.5	53.6	52.7	54.3	55.4	61.1	64.1	N/A	N/A
*Hourly-Average Leq (dBA)												

Notes recorded by the on-site Independent Noise Monitor

Work:

-Traffic signal at the intersection of Lake Washington Blvd E and 24th Ave E.
-Contractor worked between 10 p.m. and 3:10 a.m.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site #4 & #9 exceedances are not project-related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

None.

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, project related

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, December 2, 2019 to Sunday, December 8, 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 are:

Thursday, December 5, 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	67	57.9	54.5	51.3	48.9	48.6	49.1	50.3	56.9	61.0	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	62.9	60.5	58.2	57.1	71.3	56.2	58.2	62.1	65.2	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	48.7	47.6	48.4	46.0	45.5	45.3	46.1	49.1	51.0	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	68.0	65.3	61.5	59.8	67.2	59.7	63.9	67.6	69.5	N/A	N/A
Site 5 - 2565 22nd Av E.	65	60.6	58.1	56.0	54.7	68.0	53.5	55.6	59.6	63.2	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	54.4	53.0	52.8	48.1	47.9	45.8	47.6	54.6	56.8	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	57.0	53.7	52.1	51.0	53.1	49.3	50.4	55.9	59.1	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	56.0	53.5	51.6	47.7	52.0	46.3	49.6	55.6	57.9	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	65.0	61.8	54.5	52.0	53.8	57.5	56.9	63.8	67.8	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	61.9	58.4	55.7	56.0	56.3	54.9	55.5	61.3	64.2	N/A	N/A

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

-Arboretum on-ramp signal removal.
-Traffic signal at the intersection of Lake Washington Blvd E and 24th Ave E.
-Contractor worked between 10pm and 2:40 a.m.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Sites #4, #5, & #9 exceedances are not project-related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

None.

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, project related

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, December 2, 2019 to Sunday, December 8, 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 are:

Friday, December 6, 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	67	58.6	56.6	56.3	53.8	53.2	52.4	51.8	53.4	55.7	59.4	60.8
Site 2 - 2015 E. Roanoke St	78	62.4	62.4	60.1	58.5	57.2	58.1	58.0	58.5	61.3	62.2	64.0
Site 3 - 3810 E. McGilvra St	62	49.5	49.0	48.9	46.9	49.7	52.1	51.2	51.2	52.2	50.5	51.8
Site 4 - 2800 Montlake Blvd E	66	67.1	66.1	65.0	65.1	63.1	62.0	63.1	66.0	69.5	68.6	69.6
Site 5 - 2565 22nd Av E.	65	60.1	59.9	57.7	56.3	56.3	57.1	56.5	56.5	59.0	59.5	61.6
Site 6 - 2160 E. Hamlin St	63	57.4	53.2	55.7	51.8	53.0	51.5	50.1	52.4	54.8	55.4	57.9
Site 7 - 2209 E. Lake Wa Blvd	66	57.3	55.2	55.7	53.9	52.3	51.5	50.1	52.5	55.4	58.1	59.9
Site 8 - Portable Between Sites 4 and 6	63	57.1	54.7	54.0	51.8	52.8	51.1	50.9	53.3	55.9	56.1	59.0
Site 9 - Portable Between Sites 1 and 7	66	66.2	64.2	62.6	61.4	59.0	57.1	56.8	61.1	63.5	66.6	68.6
Site 10 - Portable Between Sites 1 and 7	66	62.4	60.7	60.8	59.3	57.1	55.4	55.0	58.1	61.0	63.6	65.6

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

- American Bridge worked on BMP/Containment maintenance underneath span 2 of the old eastbound bridge.
- Crews started work at 7:15 a.m.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Sites #4 & #9 exceedances are not project related.
No work happened before 7:15 a.m. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

None.

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, project related

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, December 2, 2019 to Sunday, December 8, 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 are:

Saturday, December 7, 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	67	60.2	58.5	55.9	53.8	52.8	50.1	50.0	50.3	54.3	55.8	58.7
Site 2 - 2015 E. Roanoke St	78	64.1	62.7	64.0	60.5	58.5	55.8	67.2	56.5	61.0	61.5	63.0
Site 3 - 3810 E. McGilvra St	62	50.4	49.5	47.9	47.0	46.7	45.6	45.7	46.1	48.8	47.9	51.4
Site 4 - 2800 Montlake Blvd E	66	67.5	68.2	67.1	62.6	61.8	59.8	67.7	62.8	67.3	67.0	68.2
Site 5 - 2565 22nd Av E.	65	61.4	60.0	61.6	57.6	55.6	53.3	57.1	54.0	60.0	58.9	61.2
Site 6 - 2160 E. Hamlin St	63	54.1	53.9	51.8	47.3	47.5	46.5	47.9	47.4	52.2	52.6	57.2
Site 7 - 2209 E. Lake Wa Blvd	66	58.8	57.8	57.5	52.5	51.2	48.2	49.9	48.9	54.8	55.5	58.2
Site 8 - Portable Between Sites 4 and 6	63	55.9	56.3	54.3	49.3	49.3	47.5	50.8	49.0	53.8	53.9	57.7
Site 9 - Portable Between Sites 1 and 7	66	67.7	65.7	62.8	60.3	57.5	53.7	53.6	54.3	60.9	63.8	66.7
Site 10 - Portable Between Sites 1 and 7	66	63.7	62.8	62.9	57.6	55.9	52.9	55.0	54.0	59.0	61.0	63.5

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

No nighttime construction work performed.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Not project-related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

None.

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, project related

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, December 2, 2019 to Sunday, December 8, 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 are:

Sunday, December 8, 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	67	56.5	53.2	52.1	52.8	49.1	49.6	52.0	57.7	61.1	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	60.8	58.4	56.2	55.0	52.9	56.0	63.5	62.7	65.2	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	48.5	46.9	46.0	45.9	45.3	45.5	46.2	48.6	50.9	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	65.3	63.8	61.8	62.0	58.1	58.8	72.7	67.9	70.2	N/A	N/A
Site 5 - 2565 22nd Av E.	65	58.4	55.7	53.6	52.6	50.1	52.9	59.6	59.9	62.6	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	53.4	50.4	48.2	49.2	46.6	46.3	48.0	51.5	54.5	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	55.2	52.2	51.2	52.0	49.1	50.9	53.5	55.7	60.7	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	54.6	51.7	48.6	49.9	46.8	46.9	55.0	54.0	55.9	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	62.9	60.4	58.3	58.9	52.5	54.0	57.7	66.4	68.3	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	59.8	57.0	55.1	56.5	50.3	53.9	60.1	60.3	64.6	N/A	N/A

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

No nighttime construction work performed.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Not project-related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

None.

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, project related

Blue = Noise level exceedance, not project related

~ = No Data Available

SR 520 Montlake to Lake Washington I/C and Bridge Replacement Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT
Monday, December 2, 2019 to Sunday, December 8, 2019 **10 p.m. to 7 a.m. (weekdays) 9a.m. (weekends)**

[illegible]