

SR 520 Montlake Project

Noise Monitoring Weekly Report Summary for **Monday, October 3, 2022** **to** **Sunday, October 9, 2022**

PUBLISHED October 12, 2022

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: **1151**

WEEKLY TOTALS	
Nights worked this week (under the MPPCNV)	5
Project related non-compliance this week	1
Nighttime noise issue comments to the project	0
Non-project-related noise exceedances this week	7

PROJECT TOTALS TO DATE	
Total Nights Worked (under the MPPCNV)	600
Total Project related non-compliance	117
Total noise issue comments to the project	125
Total non-project related exceedances	3902

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, October 3, 2022 to Sunday, October 9, 2022 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, October 3, 2022												
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	56.0	53.0	49.3	45.9	47.6	49.4	49.2	53.5	56.1	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	60.5	58.1	55.5	53.2	51.7	53.1	56.7	58.5	61.6	N/A	N/A
Site 3A - Canterbury Shores	62	49.8	48.3	47.6	52.7	52.7	52.8	53.1	53.9	53.8	N/A	N/A
Site 4A - 2110 E. Hamlin St	66	57.1	54.4	50.7	49.4	49.4	50.7	54.9	57.7	59.0	N/A	N/A
Site 5 - 2565 22nd Av E.	65	59.0	56.4	53.4	51.4	50.0	51.7	54.7	56.7	59.8	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	54.7	52.2	47.6	45.4	49.2	46.5	50.2	51.9	53.6	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	54.0	51.7	48.6	46.5	45.0	47.3	49.7	52.6	56.3	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	55.7	52.9	48.2	45.4	46.6	49.7	48.6	52.5	54.2	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	60.9	60.3	57.0	54.4	53.0	54.7	59.4	61.5	63.4	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	63.3	60.4	57.3	54.5	54.9	59	63.4	65.9	67.8	N/A	N/A

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

Elcon worked between 10:00pm and 3:20am checking lighting on the SR 520, 7 workers on site.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site 10 exceedance is due to public traffic. **(Non work related).**

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, October 3, 2022 to Sunday, October 9, 2022 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, October 4, 2022												
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	55.0	50.7	49.1	43.4	42.7	46.5	48.6	54.4	56.3	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	61.2	57.7	55.8	53.9	51.1	52.4	54.7	58.3	62.2	N/A	N/A
Site 3A - Canterbury Shores	62	50.0	47.6	41.1	35.7	34.6	38.5	38.9	45.0	48.9	N/A	N/A
Site 4A - 2110 E. Hamlin St	66	59.3	54.3	52.0	49.1	49.2	50.7	53.1	58.1	59.2	N/A	N/A
Site 5 - 2565 22nd Av E.	65	56.4	54.2	51.9	49.5	50.2	52.6	56.4	60.1	61.3	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	54.4	48.6	50.4	44.9	43.9	43.9	44.8	52.9	50.2	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	54.7	49.9	48.6	46.0	43.7	47.7	48.7	54.1	62.4	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	58.5	50.5	50.6	45.9	45.4	45.5	47.2	54.5	52.7	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	62.0	57.5	54.1	56.2	52.8	57.1	57.8	62.0	65.7	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	63.6	59.5	56.4	52.0	50.9	57.1	58.9	64.1	66.0	N/A	N/A

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

Elcon worked between 10:00pm and 3:30am working on Montlake to WB SR 520 reinstalling site camera 3 and working on WB SR 520, 7 workers on site. Graham worked between 4:40am and 4:50am on the DXEI ramp and laydown yard using a crane. American Bridge worked between 6:00am and 7:00am on the trestle pouring concrete.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site 10 exceedance is due to public traffic. **(Non work related).**

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, October 3, 2022 to Sunday, October 9, 2022 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, October 5, 2022												
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	54.9	54.1	49.5	49.5	48.7	48.9	50.7	55.6	58.7	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	58.9	57.4	55.8	54.4	52.9	52.6	55.6	59.4	61.9	N/A	N/A
Site 3A - Canterbury Shores	62	46.8	46	47.7	52.6	52.8	52.8	52.9	54.1	54.7	N/A	N/A
Site 4A - 2110 E. Hamlin St	66	56.4	55.3	52.5	51.7	52	51.2	53.4	57.6	59.4	N/A	N/A
Site 5 - 2565 22nd Av E.	65	57.6	56.3	54	52.6	51.6	50.9	53.6	57.7	60.1	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	56.5	55.7	51.4	49.8	50.3	50.9	48.5	51.7	53.5	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	53.8	52.6	49.5	51.2	47.9	48.3	49.7	54.4	57.3	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	56.3	55.7	51.2	49.6	50.2	49.7	50.1	53.5	55	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	59.2	58	58.4	59	55	54.1	57.2	62	64.8	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	63.1	60.4	56.9	58.7	54.6	56.6	59	64.5	66.8	N/A	N/A

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

Elcon worked between 10:00pm and 3:40am checking lighting on the SR 520, 7 workers on site. Graham worked between 4:00am and 5:40am setting drainage structures. American Bridge worked between 6:00am and 7:00am pouring concrete on the trestle.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site 10 exceedance is due to public traffic. **(Non work related).**

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

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= 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, October 3, 2022 to Sunday, October 9, 2022 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, October 6, 2022												
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	54.8	53.9	51.2	48.1	52.6	50.8	54.6	55.4	59.3	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	59.7	59.1	56.1	54.4	56.8	53.7	56.5	59.6	62.4	N/A	N/A
Site 3A - Canterbury Shores	62	48.3	48.5	46.5	44.0	47.9	44.5	45.8	49.4	51.9	N/A	N/A
Site 4A - 2110 E. Hamlin St	66	56.3	55.5	53.0	51.7	55.0	51.0	54.0	58.2	59.8	N/A	N/A
Site 5 - 2565 22nd Av E.	65	58.1	57.5	54.4	52.6	55.6	51.9	54.9	57.9	60.7	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	55.5	55.0	54.3	51.6	55.2	50.1	52.9	55.7	55.4	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	53.5	54.7	50.8	47.9	53.0	48.6	54.0	54.9	58.6	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	54.4	55.1	52.8	50.6	54.1	49.7	53.3	55.4	57.5	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	59.7	67.2	56.4	54.1	60.4	55.6	59.1	61.5	66.3	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	63.0	61.0	58.7	54.8	57.0	59.5	60.8	63.5	67.3	N/A	N/A

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

Elcon worked between 10:00pm and 1:20am working on pulling conduit on Pier 2 West, 5 workers on site.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Sites 9 & 10 exceedances are due to public traffic. **(Non work related).**

Non-Compliance:

None

Legend

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Monday, October 3, 2022 to Sunday, October 9, 2022 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, October 7, 2022												
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	55.9	58.3	52.7	51.5	52.2	51.3	52.6	52.8	54.6	57.3	59.7
Site 2 - 2015 E. Roanoke St	78	61.9	62.1	58.4	56.5	57.0	55.1	56.0	57.2	59.6	61.2	62.3
Site 3A - Canterbury Shores	62	51.3	52.5	49.7	53.5	53.4	53.3	53.3	54.1	54.8	53.8	53.7
Site 4A - 2110 E. Hamlin St	66	57.9	62.6	54.7	53.1	53.6	52.1	52.9	54.3	56.9	58.3	59.7
Site 5 - 2565 22nd Av E.	65	60.5	61.2	56.9	54.9	55.6	53.6	54.7	55.7	58.0	59.8	61.0
Site 6 - 2160 E. Hamlin St	63	55.0	58.0	53.1	53.6	54.2	55.1	57.2	58.1	57.4	57.8	57.7
Site 7 - 2209 E. Lake Wa Blvd	66	54.3	60.0	51.5	51.5	54.3	54.7	57.9	56.9	56.9	57.0	58.8
Site 8 - Portable Between Sites 4 and 6	63	56.0	61.0	53.3	52.9	53.6	53.0	53.3	54.1	54.4	56.5	59.1
Site 9 - Portable Between Sites 1 and 7	66	61.2	62.1	58.6	56.5	60.4	56.9	61.6	60.9	62.3	62.8	64.4
Site 10 - Portable Between Sites 1 and 7	66	63.7	63.5	59.6	58.5	61.0	57.0	59.3	59.8	62.2	65.2	67.9

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

Graham worked between 2:00am and 9:00am working on the Montlake Lid pouring concrete.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site 10 exceedance is due to public traffic. **(Non work related)**.

Non-Compliance:

Design Builder Graham was observed operating during the MPPCNV monitoring hours:

- 2:01am with an equipment (Concrete Pump) having pure tonal backup alarm on the Montlake Lid, working on setting up for the concrete pour. The TNV #6926488-NV was covering this work, but condition 4 of the TNV states, "No tonal backup alarms will be allowed." Because of this the TNV offers no exception to the normal MPPCNV rules against pure tone backup alarms. The alarm went off for approximately 1 minute before the concrete pump was moved into position where is staved for the remainder of work which ended after 9:00am and was no longer covered by the MPPCNV.

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SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT
Monday, October 3, 2022 to Sunday, October 9, 2022 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, October 8, 2022												
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	57.4	55.8	54	54.9	52.2	49	46.6	49.3	52.3	55.5	57.0
Site 2 - 2015 E. Roanoke St	78	62.1	60.8	59	58.3	61.7	54.2	53.1	55.4	57.6	60.3	60.7
Site 3A - Canterbury Shores	62	52.0	49.6	49.0	48.0	47.0	43.5	43.2	43.4	46.1	49.3	50.5
Site 4A - 2110 E. Hamlin St	66	58.1	57.0	54.6	54.6	58.1	50.1	49.6	52.2	55.8	57.8	58.3
Site 5 - 2565 22nd Av E.	65	60.6	59.4	57.4	56.6	60.7	52.4	51.8	54.1	55.8	58.8	59.5
Site 6 - 2160 E. Hamlin St	63	55.4	55.4	53.7	56.5	57.0	51.7	51.6	51.8	54.0	56.1	55.1
Site 7 - 2209 E. Lake Wa Blvd	66	55.1	54.6	52.1	54.0	55.2	50.2	46.4	49.4	51.7	54.5	55.2
Site 8 - Portable Between Sites 4 and 6	63	56.4	56.9	54.7	55.5	55.3	50.9	49.5	51.0	53.9	56.6	56.4
Site 9 - Portable Between Sites 1 and 7	66	61.9	61.2	58.9	58.6	63.4	56.8	52.9	56.6	57.5	61.7	61.1
Site 10 - Portable Between Sites 1 and 7	66	64.9	63.1	61.4	59.9	58.2	56.6	51.6	58.0	59.8	63.9	65.3

*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:

No Exceedances

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

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Major Public Project Construction Noise Variance
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Monday, October 3, 2022 to Sunday, October 9, 2022 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, October 9, 2022												
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	54.6	51.9	49.5	46.9	45.7	46.3	49.3	55.9	58.2	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	59.6	58.0	55.4	55.6	53.3	52.3	56.1	59.2	61.8	N/A	N/A
Site 3A - Canterbury Shores	62	50.5	47.4	45.5	43.1	41.5	41.4	43.4	49.8	50.9	N/A	N/A
Site 4A - 2110 E. Hamlin St	66	56.6	54.8	52.7	50.5	49.6	49.7	54.4	58.0	60.0	N/A	N/A
Site 5 - 2565 22nd Av E.	65	57.9	56.3	54.1	54.4	52.8	50.5	54.2	57.2	60.3	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	57.1	56.4	53.2	51.0	49.5	50.0	51.0	56.0	58.6	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	54.1	52.1	49.4	51.7	46.8	45.9	50.5	54.9	58.2	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	56.1	54.7	52.3	50.7	48.3	49.1	50.9	56.3	57.7	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	60.0	58.0	55.6	64.6	53.6	53.2	62.9	61.8	63.7	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	61.7	58.8	56.2	~	~	~	~	~	~	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:

No Exceedances

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

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Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, October 3, 2022 to Sunday, October 9, 2022

10 p.m. to 7 a.m. (weekdays)/9a.m. (weekends)

Public Comment Log			
Date / Time	To/From	Issue	Resolution