



SR 520 Bridge Replacement and HOV Program

SR 520/I-5 Express Lanes Connection Project



SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements

Major Public Projects Construction Noise Variance #6733975-NV

Noise Monitoring Weekly Report Summary for Monday, January 29, 2024 to Sunday, February 4, 2024

PUBLISHED October 25, 2023

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 SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements 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 five 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

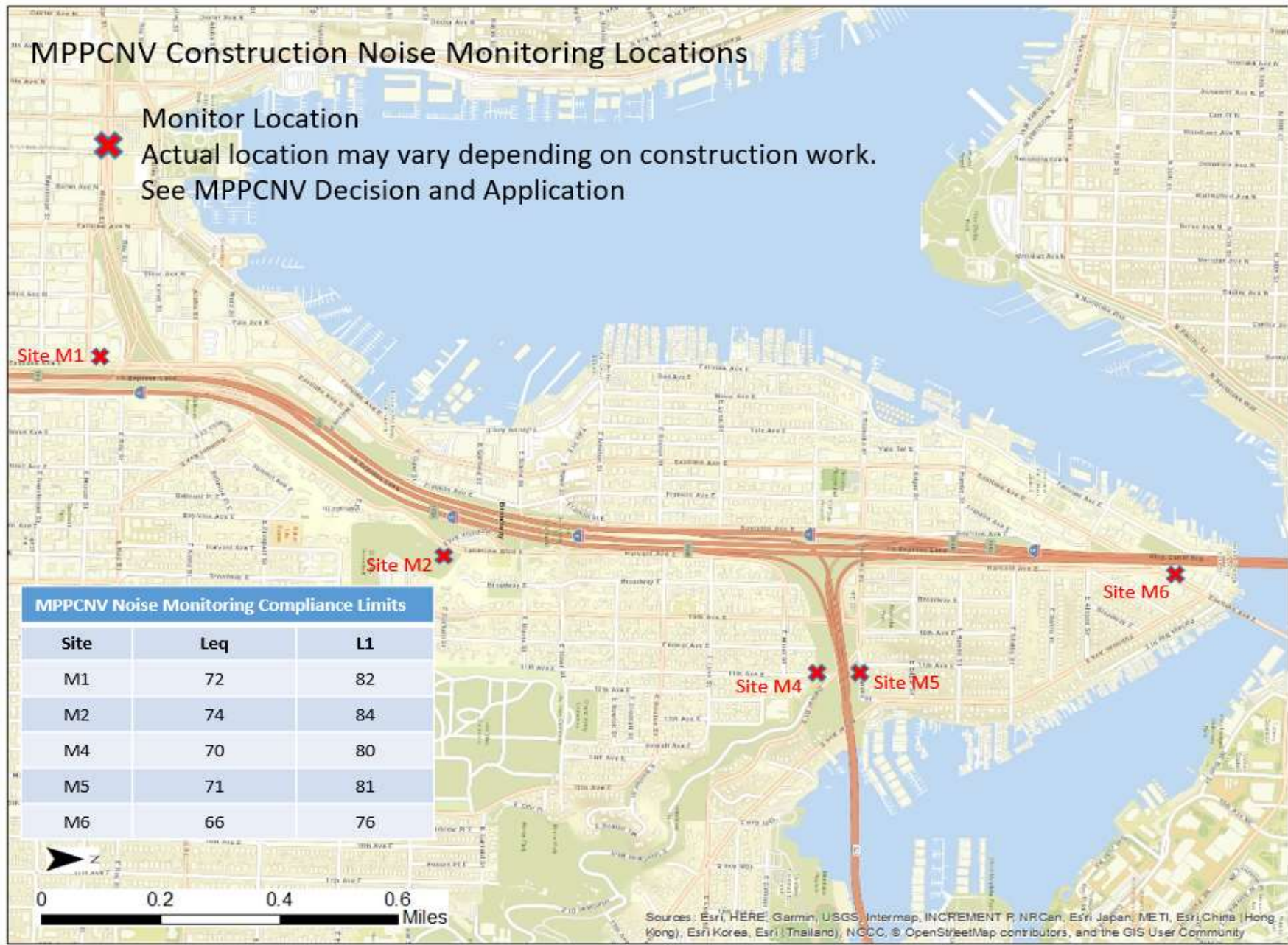
WSDOT is sharing this information as per the terms of the Major Public Project Construction Noise Variance (Permit #6733975).

MPPCNV start date: Tuesday, August 23, 2022

MPPCNV days to date: 531

WEEKLY TOTALS	
Nights worked this week (under the MPPCNV)	5
Public nighttime noise issue comments to project	0
Project related exceedances this week	0
Other Project-related non-compliance events this week	0
Non-project-related noise exceedances this week	99

PROJECT TOTALS TO DATE	
Total Nights Worked	500
Total public noise issue comments to project	20
Total Project related exceedances	28
Total Other Project related non-compliance events	19
Total non-project related exceedances	13155



SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements

Major Public Project Construction Noise Variance - #6733975-NV

NOISE MONITORING - WEEKLY REPORT

Monday, January 29, 2024 to Sunday, February 4, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment in the Project area

Monday, January 29, 2024												
Site	Site limit (dBA)	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
M1 - 624 Yale Ave N	1 Hr Leq	72	68.6	67.3	65.5	63.0	64.2	62.5	65.6	69.2	N/A	N/A
	1 Hr L1	82	72.7	71.6	68.4	66.5	68.4	64.4	68.2	74.7	N/A	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	76.0	74.5	73.0	71.7	71.8	71.4	74.5	77.8	N/A	N/A
	1 Hr L1	84	78.1	76.9	75.9	75.0	75.3	75.0	77.6	79.9	N/A	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	60.6	58.6	55.3	53.3	53.1	53.4	56.9	62.3	N/A	N/A
	1 Hr L1	80	63.5	61.4	58.8	56.8	56.4	57.1	60.5	64.5	N/A	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	63.6	62.0	58.1	56.8	56.1	56.8	58.7	63.9	N/A	N/A
	1 Hr L1	81	66.8	65.2	61.2	59.7	58.2	58.7	61.8	66.1	N/A	N/A
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	63.3	61.7	59.7	58.7	60.3	59.4	62.9	78.5	N/A	N/A
	1 Hr L1	76	65.0	63.7	62.6	62.2	64.4	62.6	65.2	81.7	N/A	N/A
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	70.6	67.7	67.9	65.8	64.5	65.2	67.4	70.6	N/A	N/A
	1 Hr L1	81	72.2	69.5	69.9	68.4	66.9	67.3	69.0	72.4	N/A	N/A

Notes recorded by the on-site Independent Noise Monitor

Work:

Observed Walsh Excavator work at Roanoke
Observed Valley on site at I-5 Overpass

Public Comments:

Exceedances:

Site(s) M1, M2, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance Events:

None.

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.

L1 = L1 means the Sound level exceeded for 1 percent of the measurement duration (i.e., 36 seconds per hour)

Red = Noise Level Exceedance (Project Related)

Blue = Noise Level Exceedance (Not Project Related)

~ = No Data Available

SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements

Major Public Project Construction Noise Variance - #6733975-NV

NOISE MONITORING - WEEKLY REPORT

Monday, January 29, 2024 to Sunday, February 4, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment in the Project area

Tuesday, January 30, 2024													
Site	Site limit (dBA)	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am	
M1 - 624 Yale Ave N	1 Hr Leq	72	69.7	67.5	65.5	64.1	66.2	64.6	66.1	70.0	72.3	N/A	N/A
	1 Hr L1	82	73.2	72.1	68.8	66.9	71.1	66.8	69.1	73.9	76.4	N/A	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	76.2	74.9	73.2	71.3	71.2	72.0	74.4	77.6	78.0	N/A	N/A
	1 Hr L1	84	78.2	77.3	76.1	74.8	74.8	75.8	77.5	79.6	79.5	N/A	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	62.1	60.3	58.0	56.3	55.3	54.9	57.6	61.5	63.5	N/A	N/A
	1 Hr L1	80	64.1	62.6	60.4	58.7	57.7	57.9	60.5	63.8	65.1	N/A	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	63.2	60.9	58.4	55.7	56.3	56.8	60.3	64.3	67.5	N/A	N/A
	1 Hr L1	81	65.7	63.3	60.9	58.2	58.4	59.5	63.1	66.4	70.5	N/A	N/A
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	64.1	62.1	59.6	58.8	59.2	62.3	62.2	78.3	79.7	N/A	N/A
	1 Hr L1	76	64.9	63.9	62.5	61.9	62.1	64.1	64.8	81.3	81.9	N/A	N/A
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	70.3	67.8	67.8	66.2	63.4	63.6	66.6	69.3	71.7	N/A	N/A
	1 Hr L1	81	72.0	69.8	69.3	67.7	65.6	66.0	68.2	70.9	74.1	N/A	N/A
Notes recorded by the on-site Independent Noise Monitor													
<p><u>Work:</u> Observed Walsh working with excavator under the underpass near site #2 Observed work on I-5 Express Lane near 520 Overpass</p> <p><u>Public Comments:</u></p> <p><u>Exceedances:</u> Site(s) M1, M2, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.</p> <p><u>Non-Compliance Events:</u> None.</p>													

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.

L1 = L1 means the Sound level exceeded for 1 percent of the measurement duration (i.e., 36 seconds per hour)

Red = Noise Level Exceedance (Project Related)

Blue = Noise Level Exceedance (Not Project Related)

~ = No Data Available

SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements

Major Public Project Construction Noise Variance - #6733975-NV

NOISE MONITORING - WEEKLY REPORT

Monday, January 29, 2024 to Sunday, February 4, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment in the Project area

Wednesday, January 31, 2024												
Site	Site limit (dBA)	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
M1 - 624 Yale Ave N	1 Hr Leq	72	68.7	66.7	67.9	69.7	66.7	65.7	66.1	69.6	71.9	N/A
	1 Hr L1	82	72.3	71.0	71.6	73.7	71.0	67.7	68.9	73.0	75.7	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	73.2	76.9	77.3	76.9	76.2	75.6	73.4	72.1	71.1	N/A
	1 Hr L1	84	74.9	78.5	78.8	78.6	78.1	78.0	76.5	75.4	74.6	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	63.4	64.6	64.2	62.9	61.1	59.2	56.9	54.5	54.3	N/A
	1 Hr L1	80	65.3	66.2	66.1	64.9	63.4	62.0	60.1	57.7	57.8	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	67.8	66.7	65.1	64.6	63.1	61.4	58.2	56.6	56.1	N/A
	1 Hr L1	81	70.2	69.1	67.7	67.4	65.9	64.1	60.7	59.1	58.8	N/A
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	80.0	77.9	77.1	76.2	74.8	65.5	60.1	59.1	59.2	N/A
	1 Hr L1	76	82.1	80.9	80.4	79.7	78.6	66.4	62.7	62.3	62.4	N/A
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	71.0	71.8	72.6	72.2	70.6	68.7	67.8	66.3	65.9	N/A
	1 Hr L1	81	73.4	73.9	74.3	73.9	72.1	71.0	69.4	68.4	67.5	N/A
Notes recorded by the on-site Independent Noise Monitor <u>Work:</u> Observed Walsh working with excavator under the underpass near site #2 Observed Transcon excavator work on the Mercer median <u>Public Comments:</u> None. <u>Exceedances:</u> Site(s) M1, M2, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors. <u>Non-Compliance Events:</u> None.												

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.

L1 = L1 means the Sound level exceeded for 1 percent of the measurement duration (i.e., 36 seconds per hour)

Red = Noise Level Exceedance (Project Related)

Blue = Noise Level Exceedance (Not Project Related)

~ = No Data Available

SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements

Major Public Project Construction Noise Variance - #6733975-NV

NOISE MONITORING - WEEKLY REPORT

Monday, January 29, 2024 to Sunday, February 4, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

Thursday, February 1, 2024													
Site			10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
M1 - 624 Yale Ave N	1 Hr Leq	72	68.6	67.1	70.3	64.3	65.4	63.9	65.5	68.8	71.0	N/A	N/A
	1 Hr L1	82	71.5	70.6	73.3	66.3	69.9	66.7	68.1	72.4	74.4	N/A	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	76.5	75.0	74.0	72.5	72.3	72.5	74.5	77.4	78.1	N/A	N/A
	1 Hr L1	84	78.3	77.5	76.9	75.7	75.8	76.1	77.6	79.6	79.9	N/A	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	62.1	59.8	57.0	54.5	53.9	53.7	57.2	61.6	63.9	N/A	N/A
	1 Hr L1	80	64.4	62.5	60.2	58.1	57.3	57.2	60.2	64.2	65.6	N/A	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	64.1	61.7	59.4	56.3	55.7	56.5	59.6	63.5	66.5	N/A	N/A
	1 Hr L1	81	66.7	64.2	62.1	59.4	58.7	59.1	62.1	65.8	68.9	N/A	N/A
	1 Hr Leq	66	63.8	62.4	62.8	62.4	59.7	61.7	63.0	78.3	79.7	N/A	N/A
	1 Hr L1	76	65.8	64.6	63.9	64.1	63.1	64.8	65.5	81.6	82.2	N/A	N/A
	1 Hr Leq	71	70.7	70.2	66.9	65.0	65.0	66.2	68.7	70.2	72.8	N/A	N/A
	1 Hr L1	81	73.1	71.7	70.6	67.1	67.1	68.3	70.4	72.2	74.5	N/A	N/A
Observed pour wrapping up on Roanoke exit													
<u>Public Comments:</u> None.													
Exceedances: Site(s) M1, M2, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.													
<u>Non-Compliance Events:</u> None.													

L

SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements

Major Public Project Construction Noise Variance - #6733975-NV

NOISE MONITORING - WEEKLY REPORT

Monday, January 29, 2024 to Sunday, February 4, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment in the Project area

Friday, February 2, 2024													
Site	Site limit (dBA)	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am	
M1 - 624 Yale Ave N	1 Hr Leq	72	70.0	69.4	67.5	67.9	66.4	63.9	64.9	66.8	68.3	69.2	70.6
	1 Hr L1	82	73.4	73.0	72.7	71.9	71.3	67.4	68.8	70.7	72.6	73.2	74.1
M2 - 1547 Boylston Ave E	1 Hr Leq	74	76.7	76.7	75.5	74.4	74.4	72.2	72.3	73.7	75.8	77.4	78.4
	1 Hr L1	84	78.4	78.4	77.7	76.9	77.1	75.4	75.4	76.7	78.1	79.2	80.0
M4 - 3625 Federal Ave E	1 Hr Leq	70	62.7	61.4	60.1	58.3	56.3	54.7	55.6	58.0	60.7	62.7	63.7
	1 Hr L1	80	64.7	63.8	62.7	61.1	59.5	57.8	58.6	61.1	63.4	65.1	65.7
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	64.3	63.2	62.0	59.9	58.6	55.9	56.2	59.0	63.0	65.4	66.7
	1 Hr L1	81	67.0	65.7	64.7	62.4	61.4	58.7	59.4	62.1	65.1	68.7	70.1
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	75.7	66.4	62.5	61.8	60.9	59.8	59.9	63.5	70.8	66.2	77.4
	1 Hr L1	76	79.2	67.2	64.9	64.4	63.8	62.7	62.9	64.6	77.9	67.5	80.7
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	71.0	69.6	68.5	67.4	66.8	66.3	67.4	67.3	69.4	70.7	71.4
	1 Hr L1	81	72.6	71.7	70.5	69.1	68.7	68.4	68.4	69.0	70.7	72.3	73.7
Notes recorded by the on-site Independent Noise Monitor													
Work: No Work													
Public Comments: None.													
Exceedances: Site(s) M1, M2, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.													
Non-Compliance Events: None.													

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.

L1 = L1 means the Sound level exceeded for 1 percent of the measurement duration (i.e., 36 seconds per hour)

Red = Noise Level Exceedance (Project Related)

Blue = Noise Level Exceedance (Not Project Related)

~ = No Data Available

SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements

Major Public Project Construction Noise Variance - #6733975-NV

NOISE MONITORING - WEEKLY REPORT

Monday, January 29, 2024 to Sunday, February 4, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment in the Project area

Saturday, February 3, 2024													
Site	Site limit (dBA)	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am	
M1 - 624 Yale Ave N	1 Hr Leq	72	69.9	69.0	69.0	66.6	66.5	63.2	63.1	65.0	69.1	68.0	70.6
	1 Hr L1	82	73.5	73.1	72.9	71.3	71.2	65.9	66.0	68.3	72.1	72.4	73.4
M2 - 1547 Boylston Ave E	1 Hr Leq	74	77.1	76.9	76.2	74.9	74.6	71.7	73.1	72.8	74.8	76.2	77.5
	1 Hr L1	84	78.6	78.6	78.1	77.2	77.2	74.8	75.1	75.6	77.2	78.5	79.5
M4 - 3625 Federal Ave E	1 Hr Leq	70	63.5	61.9	60.3	58.5	57.8	55.7	56.0	58.5	62.2	62.4	63.5
	1 Hr L1	80	64.8	63.9	62.5	61.1	60.3	58.5	58.7	61.0	63.6	64.2	65.3
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	64.7	63.1	61.6	59.3	57.9	55.2	54.7	57.6	65.9	62.6	64.3
	1 Hr L1	81	67.4	65.5	63.9	62.1	60.6	58.4	57.9	60.4	63.8	65.0	67.2
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	76.1	67.2	62.1	61.2	60.4	58.9	59.2	60.4	62.6	73.0	75.6
	1 Hr L1	76	79.6	67.8	64.1	63.5	63.0	61.7	62.0	63.0	64.8	79.0	79.2
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	70.9	70.0	73.0	67.5	66.8	65.3	65.6	66.3	80.5	70.1	71.2
	1 Hr L1	81	73.0	71.7	71.3	69.1	68.6	67.3	67.8	68.2	70.3	71.4	73.3
Notes recorded by the on-site Independent Noise Monitor													
<p><u>Work:</u> Observed Walsh working with wooden barriers at Mercer onramp Observed excavator warming up on Mercer site (am)</p> <p><u>Public Comments:</u> None.</p> <p><u>Exceedances:</u> Site(s) M1, M2, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.</p> <p><u>Non-Compliance Events:</u> None.</p>													

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.

L1 = L1 means the Sound level exceeded for 1 percent of the measurement duration (i.e., 36 seconds per hour)

Red = Noise Level Exceedance (Project Related)

Blue = Noise Level Exceedance (Not Project Related)

~ = No Data Available

SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements

Major Public Project Construction Noise Variance - #6733975-NV

NOISE MONITORING - WEEKLY REPORT

Monday, January 29, 2024 to Sunday, February 4, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment in the Project area

Sunday, February 4, 2024													
Site			10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
M1 - 624 Yale Ave N	1 Hr Leq	72	69.5	67.1	66.0	63.3	62.4	62.2	65.5	68.9	70.9	N/A	N/A
	1 Hr L1	82	73.6	71.2	70.7	65.8	63.9	64.0	68.3	72.4	74.3	N/A	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	76.1	75.1	73.8	72.7	71.8	71.8	75.0	77.7	78.9	N/A	N/A
	1 Hr L1	84	78.0	77.5	76.5	75.8	75.2	75.1	77.7	79.7	80.4	N/A	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	62.4	60.2	57.8	56.5	55.9	55.9	60.2	64.8	65.6	N/A	N/A
	1 Hr L1	80	64.1	62.3	60.5	58.8	58.4	58.4	62.5	66.4	66.8	N/A	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	62.7	59.8	57.4	55.4	54.8	54.7	58.9	63.7	65.9	N/A	N/A
	1 Hr L1	81	65.0	62.2	60.2	57.9	57.3	57.4	61.6	65.7	68.2	N/A	N/A
	1 Hr Leq	66	75.0	64.4	60.7	59.7	59.6	60.5	63.5	78.7	80.0	N/A	N/A
	1 Hr L1	76	78.7	65.7	63.5	62.8	63.0	63.8	66.1	82.0	82.2	N/A	N/A
	1 Hr Leq	71	69.9	67.7	66.4	64.9	64.1	65.8	68.3	71.5	72.7	N/A	N/A
	1 Hr L1	81	71.7	69.6	68.2	67.3	66.7	67.1	70.4	73.2	74.4	N/A	N/A
Notes recorded by the on-site Independent Noise Monitor													
<p><u>Work:</u> No Work</p> <p><u>Public Comments:</u> None.</p> <p><u>Exceedances:</u> Site(s) M1, M2, M5, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.</p> <p><u>Non-Compliance Events:</u> None.</p>													

L

SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements

Major Public Project Construction Noise Variance - #6733975-NV

NOISE MONITORING - WEEKLY REPORT

Monday, January 29, 2024 to Sunday, February 4, 2024 10 p.m. to 7 a.m. (weekdays)/ 9a.m. (weekends)

Public Comment Log			
Date / Time	To/From	Issue	Resolution