

Noise and Vibration

APPENDIX J



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Appendix J Noise and Vibration

J.1 DWELLING UNITS WITH NOISE AND VIBRATION IMPACTS

Table J-1. Number of Buildings and Dwelling Units with Moderate, Severe Noise Impacts, and Vibration Impacts by Segment and Totals Corridor wide

Segment	Number of Buildings with Moderate Noise Impacts	Number of Dwelling Units with Moderate Noise Impacts	Number of Buildings with Severe Noise Impacts	Number of Dwelling Units with Severe Noise Impacts	Number of Dwelling Units with Vibration Impacts
Segment 1	196	602	0	0	0
Segment 2	0	0	0	0	0
Segment 3	68	154	17	34	75
Segment 4	6	9	0	0	9
Total	270	765	17	34	84

Source: WSP, 2020

**Table J-2. Segment 1: Building Address of Moderate Noise Impacts and Number of Dwelling Units**

Address	Number of Dwelling Units at Location
32-41 55th St	3
32-39 55th St	3
32-45 55th St	3
32-24 56th St	3
32-22 56th St	3
32-20 56th St	3
32-18 56th St	3
54-17 31st Ave	26
55-20 32nd Ave	1
31-47 56th St	1
31-45 56th St	1
31-43 56th St	1
31-41 56th St	3
31-39 56th St	3
31-37 56th St	2
31-35 56th St	1
31-33 56th St	1
31-31 56th St	1
56-29 28th Ave	1
25-69 50th St	2
25-67 50th St	1
25-65 50th St	2
25-58 50th St	3
25-40 49th St	1
25-51 49th St	3
25-45 49th St	1
25-06 47th St	6
46-12 25th Ave	2
46-14 25th Ave	3
46-10 25th Ave	3
46-08 25th Ave	4
2465 45th St	3
45-05 25th Ave	3
45-07 25th Ave	3
45-09 25th Ave	3
45-11 25th Ave	3
45-15 25th Ave	3
42-14 Astoria Blvd S	2
42-16 Astoria Blvd S	2
42-18 Astoria Blvd S	2

**Table J-2. Segment 1: Building Address of Moderate Noise Impacts and Number of Dwelling Units (continued)**

Address	Number of Dwelling Units at Location
2404 43rd St	3
2409 43rd St	3
24-11 43rd St	3
24-15 43rd St	3
24-17 43rd St	3
24-14 43rd St	6
2333 41st St	2
40-11 23rd Rd	2
40-15 23rd Rd	2
23-35 Steinway St	2
23-33 Steinway St	2
23-31 Steinway St	2
23-20 Steinway St	4
23-24 Steinway St	1
23-28 Steinway St	4
2350 Steinway St	2
23-18 38th St	2
23-16 38th St	2
23-14 38th St	3
23-21 38th St	1
23-19 38th St	2
23-33 38th St	3
23-37 38th St	2
23-43 38th St	2
23-32 38th St	2
23-36 38th St	3
23-38 38th St	6
36-20 23rd Ave	2
36-18 23rd Ave	2
36-16 23rd Ave	2
36-14 23rd Ave	1
36-12 23rd Ave	3
36-10 23rd Ave	1
36-04 23rd Ave	1
37-02 23rd Ave	2
23-11 37th St	8
37-04 23rd Ave	2
37-06 23rd Ave	2
23-24 37th St	3
23-22 37th St	2
23-25 37th St	3
23-29 37th St	3
23-31 37th St	5



Table J-2. Segment 1: Building Address of Moderate Noise Impacts and Number of Dwelling Units (continued)

Address	Number of Dwelling Units at Location
23-19 36th St	2
23-17 36th St	3
23-15 36th St	2
23-10 36th St	6
23-12 36th St	6
23-14 36th St	6
23-16 36th St	6
35-01 23rd Ave	42
22-70 35th St	6
22-72 35th St	6
23-01 35th St	1
23-03 35th St	1
23-05 35th St	1
23-07 35th St	1
23-09 35th St	1
33-22 23rd Ave	3
2301 33 St	3
2925 23rd Ave	3
31-23 23rd Ave	2
22-71 33rd St	6
22-67 33rd St	6
22-65 33rd St	2
22-64 33rd St	3
22-72 31st St	3
22-74 31st St	3
22-50 29th St	2
22-48 29th St	3
22-44 29th St	4
22-63 29th St	2
22-65 29th St	2
22-77 29th St	5
22-66 29th St	3
22-68 29th St	4
22-70 29th St	4
22-47 28th St	5
22-43 28th St	5
22-44 28th St	2
22-42 28th St	2
22-67 28th St	4
22-63 28th St	3
2258 28th St	2
2262 28th St	3
2264 28th St	4



Table J-2. Segment 1: Building Address of Moderate Noise Impacts and Number of Dwelling Units (continued)

Address	Number of Dwelling Units at Location
2260 27th St	6
2261 27th St	5
2265 27th St	6
2237 27th St	3
2243 27th St	5
2242 27th St	6
2238 27th St	2
2253 26th St	6
2257 26th St	6
2241 26th St	6
2238 26th St	3
2236 26th St	2
2234 26th St	2
2256 26th St	2
2258 26th St	3
2239 Crescent St	2
2237 Crescent St	2
2240 Crescent St	2
2238 Crescent St	2
2230 Crescent St	2
2253 Crescent St	2
2255 Crescent St	2
2254 Crescent St	3
2252 Crescent St	2
2258 Crescent St	3
2237 24th St	2
2235 24th St	3
2238 24th St	3
2234 24th St	3
2251 24th St	3
2253 24th St	2
2252 24th St	2
2256 24th St	2
2235 23rd St	6
2233 23rd St	3
2238 23rd St	3
2236 23rd St	2
2252 23rd St	2
2254 23rd St	3
2249 23rd St	3
2251 23rd St	2
2253 23rd St	2
2119 22nd Dr	2



Table J-2. Segment 1: Building Address of Moderate Noise Impacts and Number of Dwelling Units (continued)

Address	Number of Dwelling Units at Location
2117 22nd Dr	1
2115 22nd Dr	1
2113 22nd Dr	2
2111 22nd Dr	2
2251 21st St	3
2249 21st St	2
2239 21st St	3
2237 21st St	3
2235 21st St	4
2234 21st St	2
2232 21st St	2
2250 21st St	2
2252 21st St	2
1923 22nd Dr	1
1921 22nd Dr	1
1919 22nd Dr	1
1917 22nd Dr	1
1915 22nd Dr	2
1913 22nd Dr	2
1911 22nd Dr	2
1909 22nd Dr	3
1907 22nd Dr	2
1905 22nd Dr	2
1903 22nd Dr	2
1901 22nd Dr	2
2233 19th St	2
2235 19th St	2
Total	602

Source: WSP, 2020

**Table J-3. Segment 3 Building Address of Moderate Noise Impacts and Number of Dwelling Units**

Address	Number of Dwelling Units at Location
1604 Van Buren St	3
1606 Van Buren St	3
1609 Melville St	2
1611 Melville St	2
1606 Melville St	3
1608 Melville St	3
1607 Taylor Ave	3
1609 Taylor Ave	3
1602 Taylor Ave	2
1617 Garfield Street	1
1581 Bronxdale Ave	2
1554 Paulding Ave	1
1553 Bogart Ave	2
1558 Bogart Ave	3
1551 Radcliff Ave	1
975 Sackett Ave	3
977 Sackett Ave	3
979 Sackett Ave	3
981 Sackett Ave	2
983 Sackett Ave	2
985 Sackett Ave	1
987 Sackett Ave	1
989 Sackett Ave	2
991 Sackett Ave	2
1005 Sackett Ave	2
1035 Sackett Ave	2
1541 Hone Ave	2
1538 Hone Ave	1
2523 Poplar St	1
2527 Poplar St	1
2529 Poplar St	2
2531 Poplar St	3
2537 Poplar St	2
2543 Poplar St	2
2545 Poplar St	2
2547 Poplar St	2
2553 Poplar St	1
2549 Poplar St	2
1544 Hone Ave	1
1061 Sackett Ave	1
1067 Sackett Ave	3
1069 Sackett Ave	2

Table J-3. Segment 3 Building Address of Moderate Noise Impacts and Number of Dwelling Units (continued)

Address	Number of Dwelling Units at Location
1546 Hone Ave	1
1546 Lurting Ave	2
1077 Sackett Ave	2
1085 Sackett Ave	1
1087 Sackett Ave	1
1545 Haight Ave	2
1101 Sackett Ave	1
1103 Sackett Ave	1
1105 Sackett Ave	1
1541 Tomlinson Ave	1
1550 Lurting Ave	1
1541 Williamsbridge Rd	25
1555 Lurting Ave	1
1569 Bronxdale Ave	2
2403 Poplar St	2
2409 Poplar St	1
2411 Poplar St	2
2413 Poplar St	3
2415 Poplar St	3
2417 Poplar St	2
976 Sackett Ave	2
1550 Bogart Ave	2
978 Sackett Ave	2
988 Sackett Ave	3
990 Sackett Ave	3
1003 Sackett Ave	2
Total	154

Source: WSP, 2020

Table J-4. Segment 4 Building Address of Moderate Noise Impacts and Number of Dwelling Units

Address	Number of Dwelling Units at Location
32 Birch St	1
40 Birch St	1
44 Birch St	1
48 Birch St	1
50 Birch St	1
57 Beechwood Ave	4
Total	9

Source: WSP, 2020



Table J-5. Segment 3 Building Address of Severe Noise Impacts and Number of Dwelling Units

Address	Number of Dwelling Units at Location
2453 Poplar St	2
2457 Poplar St	2
1526 Paulding Ave	3
1524 Paulding Ave	3
1535 Hone Ave	2
1538 Hone Ave	1
1540 Hone Ave	1
1539 Hone Ave	1
1541 Lurting Ave	1
1543 Lurting Ave	1
1542 Lurting Ave	3
1540 Lurting Ave	4
2511 Poplar St	2
2515 Poplar St	2
2517 Poplar St	2
2519 Poplar St	2
2521 Poplar St	2
Total	34

Source: WSP, 2020

**Table J-6. Segment 3 Building Address of Vibration Impacts and Number of Dwelling Units**

Address	Number of Dwelling Units at Location
1569 Bronxdale Ave	2
2403 Poplar St	2
2409 Poplar St	1
2411 Poplar St	2
2413 Poplar St	3
2415 Poplar St	3
2417 Poplar St	2
2453 Poplar St	2
2457 Poplar St	2
1526 Paulding Ave	3
1524 Paulding Ave	3
1550 Bogart Ave	2
976 Sackett Ave	2
978 Sackett Ave	2
988 Sackett Ave	3
990 Sackett Ave	3
1003 Sackett Ave	2
1535 Hone Ave	2
1540 Hone Ave	1
1539 Hone Ave	1
1543 Lurting Ave	1
1542 Lurting Ave	3
1540 Lurting Ave	4
2511 Poplar St	2
2515 Poplar St	2
2517 Poplar St	2
2519 Poplar St	2
2521 Poplar St	2
1604 Van Buren St	3
1609 Melville St	2
1608 Melville St	3
1609 Taylor Ave	3
1602 Taylor Ave	2
1617 Garfield Street	1
Total	75



Table J-7. Segment 4 Building Address of Vibration Impacts and Number of Dwelling Units

Address	Number of Dwelling Units at Location
32 Birch St	1
40 Birch St	1
44 Birch St	1
48 Birch St	1
50 Birch St	1
57 Beechwood Ave	4
Total	9

Source: WSP, 2020

Table J-8. Segment 3 Noise Abatement Measures Employed at Severe Impact Properties

Address	Number of Benefitting Dwelling	Attenuation Achieved by Noise Barrier (Expected Noise Reduction)	Attenuation Achieved by STC 40 Rated Replacement Window (Noise Reduction Over Current Indoor Noise Level Inside Home) ³
2511 Poplar Street	2	Yes (4 - 7 dBA) ²	No (NA) ¹
2515 Poplar Street	2	Yes (4 - 7 dBA) ²	No (NA) ¹
2517 Poplar Street	2	Yes (4 - 7 dBA) ²	No (NA) ¹
2519 Poplar Street	2	Yes (4 - 7 dBA) ²	No (NA) ¹
2521 Poplar Street	2	Yes (4 - 7 dBA) ²	No (NA) ¹
2453 Poplar St	2	No (NA) ¹	Yes (10 dBA or more) ³
2457 Poplar St	2	No (NA) ¹	Yes (10 dBA or more) ³
1526 Paulding Ave	3	No (NA) ¹	Yes (10 dBA or more) ³
1524 Paulding Ave	3	No (NA) ¹	Yes (10 dBA or more) ³
1535 Hone Ave	2	No (NA) ¹	Yes (10 dBA or more) ³
1540 Hone Ave	1	No (NA) ¹	Yes (10 dBA or more) ³
1538 Hone Ave	1	No (NA) ¹	Yes (10 dBA or more) ³
1539 Hone Ave	1	No (NA) ¹	Yes (10 dBA or more) ³
1543 Lurting Ave	1	No (NA) ¹	Yes (10 dBA or more) ³
1541 Lurting Ave	1	No (NA) ¹	Yes (10 dBA or more) ³
1542 Lurting Ave	3	Yes (4 - 7 dBA) ²	No (NA) ¹
1540 Lurting Ave	4	Yes (4 - 7 dBA) ²	No (NA) ¹
Total Number of Building (Dwelling Benefits) Achieved by Noise Barrier versus Window Replacement		7 (17)	10 (17)

Source: WSP, 2020

¹ (NA) Not Applicable for this proposed abatement measure.

² In the absence of noise modeling, estimated noise reduction range achieved by proposed noise barrier.

³ In the absence of noise modeling, estimated minimum indoor noise reduction achieved by proposed double pane replacement soundproof windows rated at STC 40 over existing interior noise levels experienced today inside this property.