

APPENDIX D
NOISE

RECEPTOR NOISE LEVEL CALCULATION (1)

| Site | Hour | EXISTING CONDITIONS | | | | | | | 2011 NO BUILD | | | 2011 BUILD | | | | |
|------|------|---------------------|-------|---------|--------|-------|--------|--------|---------------|-------|--------|------------|--------|-------|-------|--------|
| | | Volume | %Auto | %Medium | %Heavy | PCEs | Leq(1) | Factor | Volume | PCE's | Leq(1) | Auto | Medium | Heavy | PCEs | Leq(1) |
| 1 | AM | 150 | 96.0% | 2.0% | 2.0% | 447 | 67.5 | 41.00 | 158 | 471 | 67.7 | 8 | 4 | 2 | 713 | 69.5 |
| | MD | 230 | 91.0% | 6.0% | 3.0% | 1017 | 66.8 | 36.73 | 242 | 1070 | 67.0 | 3 | 4 | 2 | 1307 | 67.9 |
| | PM | 215 | 95.0% | 5.0% | 0.0% | 376 | 67.7 | 41.95 | 226 | 396 | 67.9 | 9 | 3 | 1 | 538 | 69.2 |
| 2 | AM | 320 | 95.0% | 4.0% | 1.0% | 781 | 68.9 | 39.97 | 347 | 847 | 69.3 | 37 | 4 | 2 | 1118 | 70.5 |
| | MD | 340 | 90.0% | 6.0% | 4.0% | 1788 | 68.1 | 35.58 | 359 | 1888 | 68.3 | 15 | 4 | 2 | 2137 | 68.9 |
| | PM | 320 | 90.0% | 4.0% | 6.0% | 2125 | 71.8 | 38.53 | 340 | 2258 | 72.1 | 23 | 2 | 1 | 2398 | 72.3 |
| 3 | AM | 230 | 58.0% | 14.0% | 28.0% | 6123 | 70.0 | 32.13 | 242 | 6442 | 70.2 | 12 | 4 | 2 | 6688 | 70.4 |
| | MD | 260 | 81.0% | 9.0% | 10.0% | 2795 | 69.8 | 35.34 | 273 | 2935 | 70.0 | 17 | 4 | 2 | 3186 | 70.4 |
| | PM | 160 | 71.0% | 18.0% | 11.0% | 2070 | 68.8 | 35.64 | 171 | 2213 | 69.1 | 21 | 3 | 1 | 2367 | 69.4 |
| 4 | AM | 85 | 84.0% | 8.0% | 8.0% | 758 | 69.1 | 40.30 | 98 | 874 | 69.7 | 34 | 0 | 0 | 908 | 69.9 |
| | MD | 85 | 92.0% | 4.0% | 4.0% | 422 | 65.6 | 39.35 | 96 | 476 | 66.1 | 0 | 0 | 0 | 476 | 66.1 |
| | PM | 100 | 94.0% | 4.0% | 2.0% | 328 | 66.1 | 40.94 | 111 | 364 | 66.6 | 31 | 0 | 0 | 395 | 66.9 |
| 5 | AM | 2470 | 91.0% | 3.0% | 6.0% | 16030 | 75.7 | 33.65 | 2625 | 17036 | 76.0 | 19 | 6 | 3 | 17406 | 76.1 |
| | MD | 2200 | 92.0% | 2.0% | 6.0% | 13948 | 73.6 | 32.15 | 2326 | 14747 | 73.8 | 7 | 6 | 3 | 15105 | 73.9 |
| | PM | 2780 | 98.0% | 1.0% | 1.0% | 5532 | 75.3 | 37.87 | 2947 | 5865 | 75.6 | 17 | 4 | 2 | 6116 | 75.7 |
| 6 | AM | 1725 | 97.0% | 2.0% | 1.0% | 3692 | 71.4 | 35.73 | 1843 | 3944 | 71.7 | 89 | 4 | 2 | 4267 | 72.0 |
| | MD | 1905 | 94.0% | 3.0% | 3.0% | 7563 | 72.2 | 33.41 | 2016 | 8004 | 72.4 | 55 | 4 | 2 | 8293 | 72.6 |
| | PM | 1830 | 96.0% | 2.0% | 2.0% | 5453 | 72.3 | 34.93 | 1951 | 5814 | 72.6 | 82 | 2 | 1 | 6013 | 72.7 |

67th

66th

RECEPTOR NOISE LEVEL CALCULATION (2)

| Site | Hour | Existing | | 2011 No Build | | 2011 Build | | Build Attenuation | |
|------|------|----------|--------|---------------|------------|------------|------------|-------------------|-------|
| | | Leq(1) | L10(1) | Leq(1) | Difference | Leq(1) | Difference | L10(1) | dB(A) |
| 1 | AM | 67.5 | 69.0 | 67.7 | 0.2 | 69.5 | 1.8 | 71.0 | 30 |
| | MD | 66.8 | 67.5 | 67.0 | 0.2 | 67.9 | 0.9 | 68.6 | |
| | PM | 67.7 | 68.0 | 67.9 | 0.2 | 69.2 | 1.3 | 69.5 | |
| 2 | AM | 68.9 | 71.0 | 69.3 | 0.4 | 70.5 | 1.2 | 72.6 | |
| | MD | 68.1 | 69.0 | 68.3 | 0.2 | 68.9 | 0.5 | 69.8 | |
| | PM | 71.8 | 74.5 | 72.1 | 0.3 | 72.3 | 0.3 | 75.0 | 30 |
| 3 | AM | 70.0 | 71.0 | 70.2 | 0.2 | 70.4 | 0.2 | 71.4 | |
| | MD | 69.8 | 73.0 | 70.0 | 0.2 | 70.4 | 0.4 | 73.6 | 30 |
| | PM | 68.8 | 67.5 | 69.1 | 0.3 | 69.4 | 0.3 | 68.1 | |
| 4 | AM | 69.1 | 69.5 | 69.7 | 0.6 | 69.9 | 0.2 | 70.3 | 30 |
| | MD | 65.6 | 67.5 | 66.1 | 0.5 | 66.1 | 0.0 | 68.0 | |
| | PM | 66.1 | 69.0 | 66.6 | 0.5 | 66.9 | 0.4 | 69.8 | |
| 5 | AM | 75.7 | 79.0 | 76.0 | 0.3 | 76.1 | 0.1 | 79.4 | 35 |
| | MD | 73.6 | 76.0 | 73.8 | 0.2 | 73.9 | 0.1 | 76.3 | |
| | PM | 75.3 | 78.0 | 75.6 | 0.3 | 75.7 | 0.2 | 78.4 | |
| 6 | AM | 71.4 | 74.5 | 71.7 | 0.3 | 72.0 | 0.3 | 75.1 | |
| | MD | 72.2 | 75.0 | 72.4 | 0.2 | 72.6 | 0.2 | 75.4 | 35 |
| | PM | 72.3 | 75.0 | 72.6 | 0.3 | 72.7 | 0.1 | 75.4 | |

NOISE MONITORING RESULTS

| Site | Time | Leq | L1 | L10 | L50 | L90 |
|------|------|------|------|------|------|------|
| 1 | AM | 67.5 | 76.5 | 69.0 | 65.5 | 64.5 |
| | MD | 66.8 | 78.0 | 67.5 | 64.0 | 62.5 |
| | PM | 67.7 | 77.5 | 68.0 | 65.0 | 64.0 |
| 2 | AM | 68.9 | 77.0 | 71.0 | 66.5 | 65.5 |
| | MD | 68.1 | 78.0 | 69.0 | 65.5 | 64.5 |
| | PM | 71.8 | 81.5 | 74.5 | 68.5 | 66.5 |
| 3 | AM | 70.0 | 81.5 | 71.0 | 63.5 | 61.5 |
| | MD | 69.8 | 78.5 | 73.0 | 67.5 | 61.0 |
| | PM | 68.8 | 82.5 | 67.5 | 61.0 | 59.5 |
| 4 | AM | 69.1 | 82.0 | 69.5 | 63.5 | 61.0 |
| | MD | 65.6 | 75.5 | 67.5 | 63.0 | 59.5 |
| | PM | 66.1 | 76.0 | 69.0 | 62.0 | 59.0 |
| 5 | AM | 75.7 | 84.5 | 79.0 | 73.5 | 67.0 |
| | MD | 73.6 | 82.5 | 76.0 | 71.0 | 67.0 |
| | PM | 75.3 | 85.0 | 78.0 | 73.0 | 65.5 |
| 6 | AM | 71.4 | 80.0 | 74.5 | 69.0 | 64.5 |
| | MD | 72.2 | 81.0 | 75.0 | 69.5 | 63.0 |
| | PM | 72.3 | 82.0 | 75.0 | 69.5 | 62.5 |

New York Blood Center
Noise PCE Analysis

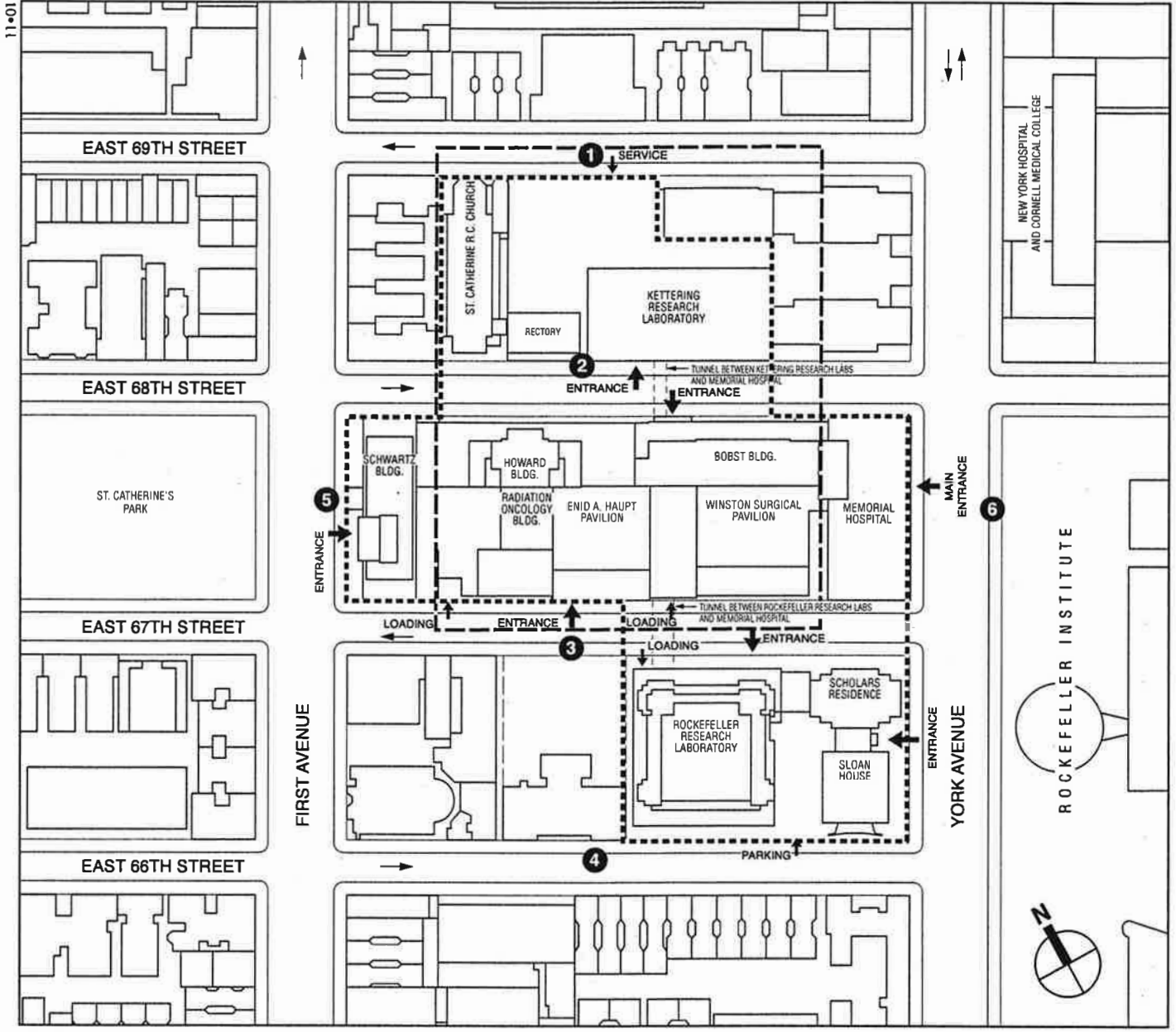
| Site | Time | Existing (2001) | | | | | | | | 2020 Existing | | | | | | | 2026 No Action | | | | | | | 2026 With Action | | | | | | |
|------|------|-----------------|------|--------|-------|-----|-----|------|------|---------------|----|----|-----|------|------|------|----------------|----|----|-----|------|------|------|------------------|----|----|-----|------|------|------|
| | | Leq | L10 | Volume | %auto | %MT | %HT | %bus | PCEs | Auto | MT | HT | Bus | PCEs | Leq | L10 | Auto | MT | HT | Bus | PCEs | Leq | L10 | Auto | MT | HT | Bus | PCEs | Leq | L10 |
| 2 | AM | 68.9 | 71.0 | 320 | 95% | 4% | 1% | 0% | 781 | 259 | 38 | 5 | 8 | 1132 | 70.5 | 73.5 | 266 | 39 | 5 | 8 | 1152 | 70.6 | 73.6 | 276 | 40 | 5 | 8 | 1175 | 70.7 | 73.7 |
| | MD | 68.1 | 69.0 | 340 | 90% | 6% | 4% | 0% | 1788 | 256 | 58 | 5 | 6 | 1353 | 68.1 | 71.1 | 264 | 60 | 5 | 6 | 1387 | 68.2 | 71.2 | 265 | 60 | 5 | 6 | 1388 | 68.2 | 71.2 |
| | PM | 71.8 | 74.5 | 320 | 90% | 4% | 6% | 0% | 2125 | 240 | 21 | 2 | 7 | 733 | 71.8 | 74.8 | 247 | 21 | 2 | 7 | 740 | 71.8 | 74.8 | 248 | 21 | 2 | 7 | 741 | 71.8 | 74.8 |
| 4 | AM | 69.1 | 69.5 | 85 | 84% | 8% | 8% | 0% | 758 | 369 | 54 | 7 | 12 | 1616 | 72.4 | 75.4 | 377 | 56 | 7 | 12 | 1650 | 72.5 | 75.5 | 388 | 58 | 7 | 13 | 1705 | 72.6 | 75.6 |
| | MD | 65.6 | 67.5 | 85 | 92% | 4% | 4% | 0% | 422 | 358 | 83 | 7 | 9 | 1928 | 72.2 | 75.2 | 368 | 85 | 7 | 9 | 1964 | 72.3 | 75.3 | 373 | 87 | 7 | 9 | 1995 | 72.3 | 75.3 |
| | PM | 66.1 | 69.0 | 100 | 94% | 4% | 2% | 0% | 328 | 390 | 37 | 3 | 12 | 1228 | 71.8 | 74.8 | 399 | 38 | 3 | 12 | 1250 | 71.9 | 74.9 | 400 | 38 | 3 | 12 | 1251 | 71.9 | 74.9 |

New York Blood Center

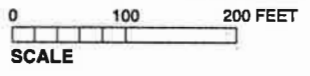
Total Traffic and St. Catherine's Playground Noise Calculations

| Source | | | | | | | | | | | | | |
|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Early Childhood School Playground | | | | | | | | | | | | | |

| Build Condition | Receiver Location | Time | Early Childhood School Playground Leq(1) at boundary | Meas location | Existing 2020 Leq(1) | 2026 Leq(1) | Distance | | Playground L _{eq(1)} at Receptor | Total L _{eq(1)} at Receptor | L10(1) Addition | Total L ₁₀₍₁₎ at Receptor | Change | Impact? |
|--------------------|--------------------|--------------|--|---------------|----------------------|-------------|----------|-----------------|---|--------------------------------------|-----------------|--------------------------------------|--------|-----------|
| | | | | | | | feet | Attenuation dBA | | | | | | |
| | | | | | | | | | | | | | | |
| No Action | NYBC - 68th Street | AM (7-9 AM) | 71.5 | 2 | 70.5 | 70.6 | 60 | 9.5 | 62.0 | 71.2 | 3.0 | 74.2 | 0.7 | NO IMPACT |
| | | MD (12-1 PM) | 71.5 | | 68.1 | 68.2 | 60 | 9.5 | 62.0 | 69.1 | 3.0 | 72.1 | 1.0 | NO IMPACT |
| | | PM (4-6 PM) | 71.5 | | 71.8 | 71.8 | 60 | 9.5 | 62.0 | 72.2 | 3.0 | 75.2 | 0.4 | NO IMPACT |
| | NYBC - 66th Street | AM (7-9 AM) | 71.5 | 4 | 72.4 | 72.5 | 250 | 17.4 | 54.1 | 72.6 | 3.0 | 75.6 | 0.2 | NO IMPACT |
| | | MD (12-1 PM) | 71.5 | | 72.2 | 72.3 | 250 | 17.4 | 54.1 | 72.4 | 3.0 | 75.4 | 0.2 | NO IMPACT |
| | | PM (4-6 PM) | 71.5 | | 71.8 | 71.9 | 250 | 17.4 | 54.1 | 72.0 | 3.0 | 75.0 | 0.2 | NO IMPACT |
| With Action | NYBC - 68th Street | AM (7-9 AM) | 71.5 | 2 | 70.5 | 70.7 | 60 | 9.5 | 62.0 | 71.2 | 3.0 | 74.2 | 0.0 | NO IMPACT |
| | | MD (12-1 PM) | 71.5 | | 68.1 | 68.2 | 60 | 9.5 | 62.0 | 69.1 | 3.0 | 72.1 | 0.0 | NO IMPACT |
| | | PM (4-6 PM) | 71.5 | | 71.8 | 71.8 | 60 | 9.5 | 62.0 | 72.2 | 3.0 | 75.2 | 0.0 | NO IMPACT |
| | NYBC - 66th Street | AM (7-9 AM) | 71.5 | 4 | 72.4 | 72.6 | 250 | 17.4 | 54.1 | 72.6 | 3.0 | 75.6 | 0.0 | NO IMPACT |
| | | MD (12-1 PM) | 71.5 | | 72.2 | 72.3 | 250 | 17.4 | 54.1 | 72.4 | 3.0 | 75.4 | 0.0 | NO IMPACT |
| | | PM (4-6 PM) | 71.5 | | 71.8 | 71.9 | 250 | 17.4 | 54.1 | 72.0 | 3.0 | 75.0 | 0.0 | NO IMPACT |



- Boundary of Proposed Rezoning Area
- Boundary of Proposed Large Scale Community Facility Development
- ① Noise Receptor Location



Noise Receptor Locations
 FIGURE 15-1