## Section VI. Chart for Determining BMP Sizing (Revised 10/27/2015)

| | BMP | | | | | | |
|---|---|---|---|---|---|---|---|
| | Rain Garden/ BioRetention | Infiltration Trench | Infiltration Bed | Infiltration Berm | Rain Barrel (55 Gal Typ) | PA Native Decidious Tree* | PA Native Evergreen Tree* |
| | Variable Determing Size | | | | | | |
| Volume Required ($ft^3$) | Area ($ft^2$) | Length (ft) | Area ($ft^2$) | Length (ft) | Quantity (ea) | Quantity (ea) | Quantity (ea) |
| 50 | 36 | 31 | 83 | 11 | 7 | 8 | 5 |
| 100 | 84 | 63 | 167 | 22 | 14 | 17 | 10 |
| 150 | 132 | 94 | 250 | 33 | 20 | 25 | 15 |
| 200 | 178 | 125 | 333 | 44 | 27 | 33 | 20 |
| 250 | 228 | 156 | 417 | 56 | 34 | 42 | 25 |
| 300 | 278 | 188 | 500 | 67 | 41 | 50 | 30 |
| 350 | 326 | 219 | 583 | 78 | 48 | 58 | 35 |
| 400 | 377 | 250 | 667 | 89 | 54 | 67 | 40 |
| 450 | 427 | 281 | 750 | 100 | 61 | 75 | 45 |
| 500 | 477 | 313 | 833 | 111 | 68 | 83 | 50 |
| 550 | 529 | 344 | 917 | 122 | 75 | 92 | 55 |
| 600 | 581 | 375 | 1000 | 133 | 82 | 100 | 60 |
| 650 | 630 | 406 | 1083 | 144 | 88 | N/A | N/A |
| 700 | 679 | 437 | 1167 | 156 | 95 | N/A | N/A |
| 750 | 729 | 469 | 1250 | 167 | 102 | N/A | N/A |
| 800 | 781 | 500 | 1333 | 178 | 109 | N/A | N/A |
| 850 | 827 | 531 | 1417 | 189 | 116 | N/A | N/A |
| 900 | 880 | 562 | 1500 | 200 | 122 | N/A | N/A |
| 950 | 933 | 594 | 1583 | 211 | 129 | N/A | N/A |
| 1000 | 983 | 625 | 1667 | 222 | 136 | N/A | N/A |
| 1050 | 983 | 656 | 1750 | 233 | 143 | N/A | N/A |
| 1100 | 1086 | 687 | 1833 | 244 | 150 | N/A | N/A |
| 1150 | 1136 | 719 | 1917 | 256 | 156 | N/A | N/A |
| 1200 | 1187 | 750 | 2000 | 267 | 163 | N/A | N/A |
| 1250 | 1239 | 781 | 2083 | 278 | 170 | N/A | N/A |
| 1300 | 1289 | 812 | 2167 | 289 | 177 | N/A | N/A |
| 1350 | 1340 | 844 | 2250 | 300 | 184 | N/A | N/A |
| 1400 | 1391 | 875 | 2333 | 311 | 190 | N/A | N/A |
| 1450 | 1444 | 906 | 2417 | 322 | 197 | N/A | N/A |
| 1500 | 1494 | 937 | 2500 | 333 | 204 | N/A | N/A |
| 1550 | 1544 | 969 | 2583 | 344 | 211 | N/A | N/A |
| 1600 | 1596 | 1000 | 2667 | 356 | 218 | N/A | N/A |
| 1650 | 1648 | 1031 | 2750 | 367 | 224 | N/A | N/A |
| 1700 | 1702 | 1062 | 2833 | 378 | 231 | N/A | N/A |
| 1750 | 1751 | 1094 | 2917 | 389 | 238 | N/A | N/A |
| 1800 | 1802 | 1125 | 3000 | 400 | 245 | N/A | N/A |
| 1850 | 1853 | 1156 | 3083 | 411 | 252 | N/A | N/A |
| 1900 | 1905 | 1187 | 3167 | 422 | 258 | N/A | N/A |
| 1950 | 1958 | 1218 | 3250 | 433 | 265 | N/A | N/A |
| 2000 | 2007 | 1250 | 3333 | 444 | 272 | N/A | N/A |
| 2050 | 2061 | 1281 | 3417 | 456 | 279 | N/A | N/A |
| 2100 | 2111 | 1312 | 3500 | 467 | 286 | N/A | N/A |
| 2150 | 2162 | 1343 | 3583 | 478 | 292 | N/A | N/A |
| 2200 | 2214 | 1375 | 3667 | 489 | 299 | N/A | N/A |
| 2250 | 2264 | 1406 | 3750 | 500 | 306 | N/A | N/A |
| 2300 | 2318 | 1437 | 3833 | 511 | 313 | N/A | N/A |
| 2350 | 2369 | 1468 | 3917 | 522 | 320 | N/A | N/A |
| 2400 | 2421 | 1500 | 4000 | 533 | 326 | N/A | N/A |
| 2450 | 2470 | 1531 | 4083 | 544 | 333 | N/A | N/A |
| 2500 | 2525 | 1562 | 4167 | 556 | 340 | N/A | N/A |

*No more than 25% of total volume can be mitigated by use of trees