

Camden Mill
Lower Bristol Road
Bath



Date 25/03/2024 14:23
File Catchment 3.SRCX

Designed by dwright
Checked by

Innovyze Source Control 2020.1.3

Summary of Results for 2 year Return Period

Half Drain Time : 31 minutes.

| Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Control (l/s) | Max Σ Outflow (l/s) | Max Volume (m³) | Status |
|------------------|---------------|---------------|------------------------|-------------------|---------------------|-----------------|--------|
| 30 min Summer | 8.286 | 0.286 | 272.9 | 21.0 | 293.9 | 830.8 | O K |
| 60 min Summer | 8.291 | 0.291 | 273.7 | 21.1 | 294.8 | 848.4 | O K |
| 120 min Summer | 8.313 | 0.313 | 276.7 | 21.4 | 298.1 | 914.0 | O K |
| 180 min Summer | 8.300 | 0.300 | 274.9 | 21.2 | 296.1 | 875.6 | O K |
| 240 min Summer | 8.277 | 0.277 | 271.7 | 20.9 | 292.6 | 804.9 | O K |
| 360 min Summer | 8.222 | 0.222 | 264.1 | 19.8 | 283.9 | 639.6 | O K |
| 480 min Summer | 8.170 | 0.170 | 257.0 | 15.4 | 272.5 | 487.4 | O K |
| 600 min Summer | 8.128 | 0.128 | 251.2 | 10.2 | 261.4 | 363.6 | O K |
| 720 min Summer | 8.094 | 0.094 | 246.6 | 6.1 | 252.8 | 266.7 | O K |
| 960 min Summer | 8.054 | 0.054 | 241.1 | 2.2 | 243.3 | 151.1 | O K |
| 1440 min Summer | 8.039 | 0.039 | 185.8 | 1.2 | 187.0 | 108.4 | O K |
| 2160 min Summer | 8.028 | 0.028 | 135.1 | 0.6 | 135.7 | 79.6 | O K |
| 2880 min Summer | 8.023 | 0.023 | 108.6 | 0.4 | 109.0 | 64.0 | O K |
| 4320 min Summer | 8.017 | 0.017 | 82.2 | 0.2 | 82.4 | 47.9 | O K |
| 5760 min Summer | 8.014 | 0.014 | 67.8 | 0.2 | 68.0 | 39.6 | O K |
| 7200 min Summer | 8.012 | 0.012 | 58.3 | 0.1 | 58.4 | 34.3 | O K |
| 8640 min Summer | 8.011 | 0.011 | 53.5 | 0.1 | 53.6 | 31.1 | O K |
| 10080 min Summer | 8.010 | 0.010 | 48.7 | 0.1 | 48.8 | 28.4 | O K |
| 30 min Winter | 8.328 | 0.328 | 278.8 | 21.6 | 300.4 | 960.1 | O K |
| 60 min Winter | 8.335 | 0.335 | 279.7 | 21.7 | 301.3 | 980.0 | O K |

| Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Discharge Volume (m³) | Time-Peak (mins) |
|------------------|--------------|---------------------|-----------------------|------------------|
| 30 min Summer | 22.544 | 0.0 | 1262.7 | 33 |
| 60 min Summer | 13.912 | 0.0 | 1558.8 | 52 |
| 120 min Summer | 9.465 | 0.0 | 2121.4 | 86 |
| 180 min Summer | 7.351 | 0.0 | 2471.8 | 120 |
| 240 min Summer | 6.071 | 0.0 | 2722.1 | 152 |
| 360 min Summer | 4.554 | 0.0 | 3062.6 | 216 |
| 480 min Summer | 3.668 | 0.0 | 3289.1 | 276 |
| 600 min Summer | 3.087 | 0.0 | 3460.7 | 336 |
| 720 min Summer | 2.676 | 0.0 | 3599.4 | 392 |
| 960 min Summer | 2.130 | 0.0 | 3820.1 | 500 |
| 1440 min Summer | 1.537 | 0.0 | 4136.4 | 736 |
| 2160 min Summer | 1.116 | 0.0 | 4503.8 | 1100 |
| 2880 min Summer | 0.895 | 0.0 | 4818.5 | 1468 |
| 4320 min Summer | 0.667 | 0.0 | 5387.4 | 2196 |
| 5760 min Summer | 0.549 | 0.0 | 5906.3 | 2872 |
| 7200 min Summer | 0.476 | 0.0 | 6407.1 | 3624 |
| 8640 min Summer | 0.427 | 0.0 | 6892.4 | 4352 |
| 10080 min Summer | 0.391 | 0.0 | 7367.7 | 5096 |
| 30 min Winter | 22.544 | 0.0 | 1418.9 | 35 |
| 60 min Winter | 13.912 | 0.0 | 1751.4 | 54 |

Summary of Results for 2 year Return Period

| Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Control (l/s) | Max Σ Outflow (l/s) | Max Volume (m³) | Status |
|------------------|---------------|---------------|------------------------|-------------------|---------------------|-----------------|--------|
| 120 min Winter | 8.349 | 0.349 | 281.6 | 21.8 | 303.4 | 1023.1 | O K |
| 180 min Winter | 8.320 | 0.320 | 277.7 | 21.5 | 299.2 | 935.5 | O K |
| 240 min Winter | 8.279 | 0.279 | 272.0 | 20.9 | 292.9 | 812.0 | O K |
| 360 min Winter | 8.195 | 0.195 | 260.4 | 17.9 | 278.3 | 560.1 | O K |
| 480 min Winter | 8.124 | 0.124 | 250.6 | 9.7 | 260.4 | 352.4 | O K |
| 600 min Winter | 8.071 | 0.071 | 243.5 | 3.7 | 247.2 | 201.0 | O K |
| 720 min Winter | 8.048 | 0.048 | 232.1 | 1.8 | 233.8 | 136.6 | O K |
| 960 min Winter | 8.039 | 0.039 | 185.8 | 1.2 | 187.0 | 109.3 | O K |
| 1440 min Winter | 8.028 | 0.028 | 135.1 | 1.2 | 135.7 | 79.2 | O K |
| 2160 min Winter | 8.021 | 0.021 | 99.0 | 1.3 | 99.3 | 57.8 | O K |
| 2880 min Winter | 8.017 | 0.017 | 79.8 | 1.0 | 80.0 | 46.5 | O K |
| 4320 min Winter | 8.013 | 0.013 | 60.7 | 1.9 | 60.8 | 35.2 | O K |
| 5760 min Winter | 8.010 | 0.010 | 48.7 | 2.5 | 48.8 | 28.8 | O K |
| 7200 min Winter | 8.009 | 0.009 | 44.0 | 2.1 | 44.0 | 25.5 | O K |
| 8640 min Winter | 8.008 | 0.008 | 39.2 | 3.1 | 39.3 | 22.7 | O K |
| 10080 min Winter | 8.008 | 0.008 | 36.8 | 2.8 | 36.9 | 21.2 | O K |

| Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Discharge Volume (m³) | Time-Peak (mins) |
|------------------|--------------|---------------------|-----------------------|------------------|
| 120 min Winter | 9.465 | 0.0 | 2383.8 | 92 |
| 180 min Winter | 7.351 | 0.0 | 2777.6 | 128 |
| 240 min Winter | 6.071 | 0.0 | 3058.6 | 162 |
| 360 min Winter | 4.554 | 0.0 | 3441.3 | 226 |
| 480 min Winter | 3.668 | 0.0 | 3695.7 | 286 |
| 600 min Winter | 3.087 | 0.0 | 3888.4 | 336 |
| 720 min Winter | 2.676 | 0.0 | 4044.4 | 378 |
| 960 min Winter | 2.130 | 0.0 | 4292.2 | 498 |
| 1440 min Winter | 1.537 | 0.0 | 4648.0 | 738 |
| 2160 min Winter | 1.116 | 0.0 | 5060.7 | 1100 |
| 2880 min Winter | 0.895 | 0.0 | 5414.0 | 1460 |
| 4320 min Winter | 0.667 | 0.0 | 6053.0 | 2156 |
| 5760 min Winter | 0.549 | 0.0 | 6637.7 | 2864 |
| 7200 min Winter | 0.476 | 0.0 | 7199.8 | 3664 |
| 8640 min Winter | 0.427 | 0.0 | 7745.3 | 4256 |
| 10080 min Winter | 0.391 | 0.0 | 8279.1 | 5088 |

Camden Mill
 Lower Bristol Road
 Bath

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Innovyze


Rainfall Details

| | |
|-----------------------|---------------------------------|
| Rainfall Model | FEH |
| Return Period (years) | 2 |
| FEH Rainfall Version | 2013 |
| Site Location | GB 447876 213399 SP 47876 13399 |
| Data Type | Point |
| Summer Storms | Yes |
| Winter Storms | Yes |
| Cv (Summer) | 0.890 |
| Cv (Winter) | 1.000 |
| Shortest Storm (mins) | 30 |
| Longest Storm (mins) | 10080 |
| Climate Change % | +0 |

Time Area Diagram

Total Area (ha) 12.600

| Time (mins) | Area | Time (mins) | Area | Time (mins) | Area |
|-------------|---------|-------------|----------|-------------|----------|
| From: To: | (ha) | From: To: | (ha) | From: To: | (ha) |
| 0 | 5 4.200 | 5 | 10 4.200 | 10 | 15 4.200 |

| | | |
|---|-------------------------|---|
| BuroHappold Ltd | | Page 4 |
| Camden Mill Lower Bristol Road Bath | |  |
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Model Details

Storage is Online Cover Level (m) 10.000

Infiltration Basin Structure

Invert Level (m) 8.000 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.60120 Porosity 1.00
 Infiltration Coefficient Side (m/hr) 0.60120

| Depth (m) | Area (m ²) | Depth (m) | Area (m ²) |
|-----------|------------------------|-----------|------------------------|
| 0.000 | 2800.0 | 2.000 | 4501.7 |

Hydro-Brake® Optimum Outflow Control

Unit Reference MD-SHE-0196-2260-1900-2260
 Design Head (m) 1.900
 Design Flow (l/s) 22.6
 Flush-Flo™ Calculated
 Objective Minimise upstream storage
 Application Surface
 Sump Available Yes
 Diameter (mm) 196
 Invert Level (m) 8.000
 Minimum Outlet Pipe Diameter (mm) 225
 Suggested Manhole Diameter (mm) 1800

| Control Points | Head (m) | Flow (l/s) |
|---------------------------|----------|------------|
| Design Point (Calculated) | 1.900 | 22.6 |
| Flush-Flo™ | 0.552 | 22.6 |
| Kick-Flo® | 1.189 | 18.1 |
| Mean Flow over Head Range | - | 19.6 |

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

| Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 0.100 | 6.8 | 1.200 | 18.2 | 3.000 | 28.1 | 7.000 | 42.3 |
| 0.200 | 18.4 | 1.400 | 19.5 | 3.500 | 30.3 | 7.500 | 43.7 |
| 0.300 | 21.2 | 1.600 | 20.8 | 4.000 | 32.3 | 8.000 | 45.1 |
| 0.400 | 22.2 | 1.800 | 22.0 | 4.500 | 34.2 | 8.500 | 46.5 |
| 0.500 | 22.6 | 2.000 | 23.2 | 5.000 | 36.0 | 9.000 | 47.8 |
| 0.600 | 22.6 | 2.200 | 24.2 | 5.500 | 37.6 | 9.500 | 49.0 |
| 0.800 | 22.1 | 2.400 | 25.3 | 6.000 | 39.3 | | |
| 1.000 | 20.9 | 2.600 | 26.3 | 6.500 | 40.8 | | |

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Lower Bristol Road
Bath



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Summary of Results for 10 year Return Period (+10%)

Half Drain Time : 64 minutes.

| Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Control (l/s) | Max Σ Outflow (l/s) | Max Volume (m³) | Status |
|------------------|---------------|---------------|------------------------|-------------------|---------------------|-----------------|--------|
| 30 min Summer | 8.623 | 0.623 | 320.0 | 22.6 | 342.6 | 1894.2 | O K |
| 60 min Summer | 8.668 | 0.668 | 326.4 | 22.6 | 348.8 | 2043.1 | O K |
| 120 min Summer | 8.683 | 0.683 | 328.5 | 22.6 | 350.9 | 2093.0 | O K |
| 180 min Summer | 8.660 | 0.660 | 325.2 | 22.6 | 347.6 | 2016.1 | O K |
| 240 min Summer | 8.626 | 0.626 | 320.4 | 22.6 | 343.0 | 1904.7 | O K |
| 360 min Summer | 8.547 | 0.547 | 309.3 | 22.6 | 331.9 | 1648.2 | O K |
| 480 min Summer | 8.467 | 0.467 | 298.1 | 22.5 | 320.6 | 1392.6 | O K |
| 600 min Summer | 8.393 | 0.393 | 287.8 | 22.2 | 310.0 | 1160.5 | O K |
| 720 min Summer | 8.327 | 0.327 | 278.6 | 21.6 | 300.1 | 956.1 | O K |
| 960 min Summer | 8.219 | 0.219 | 263.7 | 19.7 | 283.5 | 632.7 | O K |
| 1440 min Summer | 8.092 | 0.092 | 246.3 | 5.8 | 252.1 | 259.4 | O K |
| 2160 min Summer | 8.044 | 0.044 | 210.1 | 1.5 | 211.6 | 122.4 | O K |
| 2880 min Summer | 8.035 | 0.035 | 166.5 | 0.9 | 167.4 | 97.3 | O K |
| 4320 min Summer | 8.026 | 0.026 | 123.0 | 0.5 | 123.5 | 71.7 | O K |
| 5760 min Summer | 8.021 | 0.021 | 99.0 | 0.3 | 99.3 | 57.8 | O K |
| 7200 min Summer | 8.018 | 0.018 | 84.6 | 0.3 | 84.8 | 49.6 | O K |
| 8640 min Summer | 8.016 | 0.016 | 75.0 | 0.2 | 75.2 | 43.9 | O K |
| 10080 min Summer | 8.014 | 0.014 | 67.8 | 0.2 | 68.0 | 39.6 | O K |
| 30 min Winter | 8.707 | 0.707 | 331.9 | 22.6 | 354.2 | 2174.5 | O K |
| 60 min Winter | 8.768 | 0.768 | 340.5 | 22.6 | 362.7 | 2379.7 | O K |

| Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Discharge Volume (m³) | Time-Peak (mins) |
|------------------|--------------|---------------------|-----------------------|------------------|
| 30 min Summer | 43.927 | 0.0 | 2461.6 | 36 |
| 60 min Summer | 27.024 | 0.0 | 3029.1 | 60 |
| 120 min Summer | 16.992 | 0.0 | 3809.7 | 92 |
| 180 min Summer | 12.754 | 0.0 | 4289.5 | 128 |
| 240 min Summer | 10.327 | 0.0 | 4630.9 | 162 |
| 360 min Summer | 7.576 | 0.0 | 5096.3 | 228 |
| 480 min Summer | 6.028 | 0.0 | 5406.9 | 292 |
| 600 min Summer | 5.030 | 0.0 | 5639.3 | 356 |
| 720 min Summer | 4.329 | 0.0 | 5823.9 | 416 |
| 960 min Summer | 3.405 | 0.0 | 6107.2 | 534 |
| 1440 min Summer | 2.420 | 0.0 | 6512.6 | 760 |
| 2160 min Summer | 1.727 | 0.0 | 6970.5 | 1100 |
| 2880 min Summer | 1.367 | 0.0 | 7355.3 | 1468 |
| 4320 min Summer | 0.996 | 0.0 | 8040.8 | 2196 |
| 5760 min Summer | 0.805 | 0.0 | 8660.0 | 2888 |
| 7200 min Summer | 0.688 | 0.0 | 9256.3 | 3616 |
| 8640 min Summer | 0.609 | 0.0 | 9833.4 | 4360 |
| 10080 min Summer | 0.552 | 0.0 | 10398.7 | 4992 |
| 30 min Winter | 43.927 | 0.0 | 2766.0 | 37 |
| 60 min Winter | 27.024 | 0.0 | 3403.6 | 60 |

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Summary of Results for 10 year Return Period (+10%)

| Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Control (l/s) | Max Σ Outflow (l/s) | Max Volume (m³) | Status |
|------------------|---------------|---------------|------------------------|-------------------|---------------------|-----------------|--------|
| 120 min Winter | 8.782 | 0.782 | 342.5 | 22.6 | 364.7 | 2428.2 | O K |
| 180 min Winter | 8.744 | 0.744 | 337.1 | 22.6 | 359.4 | 2299.0 | O K |
| 240 min Winter | 8.691 | 0.691 | 329.6 | 22.6 | 352.0 | 2119.8 | O K |
| 360 min Winter | 8.571 | 0.571 | 312.7 | 22.6 | 335.3 | 1725.3 | O K |
| 480 min Winter | 8.454 | 0.454 | 296.3 | 22.5 | 318.8 | 1351.1 | O K |
| 600 min Winter | 8.350 | 0.350 | 281.8 | 21.8 | 303.6 | 1026.1 | O K |
| 720 min Winter | 8.260 | 0.260 | 269.4 | 20.6 | 290.0 | 754.9 | O K |
| 960 min Winter | 8.131 | 0.131 | 251.6 | 10.6 | 262.2 | 373.2 | O K |
| 1440 min Winter | 8.044 | 0.044 | 212.6 | 1.5 | 214.1 | 124.0 | O K |
| 2160 min Winter | 8.032 | 0.032 | 152.0 | 1.1 | 152.7 | 89.2 | O K |
| 2880 min Winter | 8.025 | 0.025 | 120.6 | 1.6 | 121.1 | 70.6 | O K |
| 4320 min Winter | 8.019 | 0.019 | 89.4 | 1.1 | 89.7 | 52.1 | O K |
| 5760 min Winter | 8.015 | 0.015 | 72.6 | 0.9 | 72.8 | 42.3 | O K |
| 7200 min Winter | 8.013 | 0.013 | 60.7 | 3.1 | 60.8 | 35.9 | O K |
| 8640 min Winter | 8.012 | 0.012 | 55.9 | 2.7 | 56.0 | 32.4 | O K |
| 10080 min Winter | 8.010 | 0.010 | 48.7 | 2.5 | 48.8 | 28.6 | O K |

| Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Discharge Volume (m³) | Time-Peak (mins) |
|------------------|--------------|---------------------|-----------------------|------------------|
| 120 min Winter | 16.992 | 0.0 | 4280.7 | 100 |
| 180 min Winter | 12.754 | 0.0 | 4819.8 | 138 |
| 240 min Winter | 10.327 | 0.0 | 5203.3 | 174 |
| 360 min Winter | 7.576 | 0.0 | 5726.1 | 244 |
| 480 min Winter | 6.028 | 0.0 | 6075.4 | 312 |
| 600 min Winter | 5.030 | 0.0 | 6336.3 | 374 |
| 720 min Winter | 4.329 | 0.0 | 6545.3 | 434 |
| 960 min Winter | 3.405 | 0.0 | 6862.2 | 546 |
| 1440 min Winter | 2.420 | 0.0 | 7317.7 | 736 |
| 2160 min Winter | 1.727 | 0.0 | 7832.6 | 1100 |
| 2880 min Winter | 1.367 | 0.0 | 8264.5 | 1432 |
| 4320 min Winter | 0.996 | 0.0 | 9034.4 | 2192 |
| 5760 min Winter | 0.805 | 0.0 | 9730.6 | 2944 |
| 7200 min Winter | 0.688 | 0.0 | 10400.7 | 3672 |
| 8640 min Winter | 0.609 | 0.0 | 11048.7 | 4296 |
| 10080 min Winter | 0.552 | 0.0 | 11682.8 | 5136 |

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Rainfall Details

| | |
|-----------------------|---------------------------------|
| Rainfall Model | FEH |
| Return Period (years) | 10 |
| FEH Rainfall Version | 2013 |
| Site Location | GB 447876 213399 SP 47876 13399 |
| Data Type | Point |
| Summer Storms | Yes |
| Winter Storms | Yes |
| Cv (Summer) | 0.890 |
| Cv (Winter) | 1.000 |
| Shortest Storm (mins) | 30 |
| Longest Storm (mins) | 10080 |
| Climate Change % | +10 |

Time Area Diagram

Total Area (ha) 12.600

| Time (mins) | Area | Time (mins) | Area | Time (mins) | Area |
|-------------|---------|-------------|----------|-------------|----------|
| From: To: | (ha) | From: To: | (ha) | From: To: | (ha) |
| 0 | 5 4.200 | 5 | 10 4.200 | 10 | 15 4.200 |

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Model Details

Storage is Online Cover Level (m) 10.000

Infiltration Basin Structure

Invert Level (m) 8.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.60120 Porosity 1.00
Infiltration Coefficient Side (m/hr) 0.60120

| Depth (m) | Area (m ²) | Depth (m) | Area (m ²) |
|-----------|------------------------|-----------|------------------------|
| 0.000 | 2800.0 | 2.000 | 4501.7 |

Hydro-Brake® Optimum Outflow Control

Unit Reference MD-SHE-0196-2260-1900-2260
Design Head (m) 1.900
Design Flow (l/s) 22.6
Flush-Flo™ Calculated
Objective Minimise upstream storage
Application Surface
Sump Available Yes
Diameter (mm) 196
Invert Level (m) 8.000
Minimum Outlet Pipe Diameter (mm) 225
Suggested Manhole Diameter (mm) 1800

| Control Points | Head (m) | Flow (l/s) |
|---------------------------|----------|------------|
| Design Point (Calculated) | 1.900 | 22.6 |
| Flush-Flo™ | 0.552 | 22.6 |
| Kick-Flo® | 1.189 | 18.1 |
| Mean Flow over Head Range | - | 19.6 |

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

| Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 0.100 | 6.8 | 1.200 | 18.2 | 3.000 | 28.1 | 7.000 | 42.3 |
| 0.200 | 18.4 | 1.400 | 19.5 | 3.500 | 30.3 | 7.500 | 43.7 |
| 0.300 | 21.2 | 1.600 | 20.8 | 4.000 | 32.3 | 8.000 | 45.1 |
| 0.400 | 22.2 | 1.800 | 22.0 | 4.500 | 34.2 | 8.500 | 46.5 |
| 0.500 | 22.6 | 2.000 | 23.2 | 5.000 | 36.0 | 9.000 | 47.8 |
| 0.600 | 22.6 | 2.200 | 24.2 | 5.500 | 37.6 | 9.500 | 49.0 |
| 0.800 | 22.1 | 2.400 | 25.3 | 6.000 | 39.3 | | |
| 1.000 | 20.9 | 2.600 | 26.3 | 6.500 | 40.8 | | |

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Summary of Results for 30 year Return Period (+20%)

Half Drain Time : 91 minutes.

| Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Control (l/s) | Max Σ Outflow (l/s) | Max Volume (m³) | Status |
|------------------|---------------|---------------|------------------------|-------------------|---------------------|-----------------|--------|
| 30 min Summer | 8.931 | 0.931 | 363.9 | 22.6 | 385.2 | 2946.1 | O K |
| 60 min Summer | 9.031 | 1.031 | 378.2 | 22.6 | 398.7 | 3303.1 | O K |
| 120 min Summer | 9.047 | 1.047 | 380.6 | 22.6 | 400.9 | 3362.3 | O K |
| 180 min Summer | 9.018 | 1.018 | 376.4 | 22.6 | 397.1 | 3257.3 | O K |
| 240 min Summer | 8.978 | 0.978 | 370.5 | 22.6 | 391.6 | 3112.2 | O K |
| 360 min Summer | 8.887 | 0.887 | 357.5 | 22.6 | 379.1 | 2789.7 | O K |
| 480 min Summer | 8.794 | 0.794 | 344.2 | 22.6 | 366.3 | 2466.8 | O K |
| 600 min Summer | 8.704 | 0.704 | 331.5 | 22.6 | 353.8 | 2164.3 | O K |
| 720 min Summer | 8.621 | 0.621 | 319.7 | 22.6 | 342.3 | 1888.2 | O K |
| 960 min Summer | 8.475 | 0.475 | 299.2 | 22.5 | 321.7 | 1416.3 | O K |
| 1440 min Summer | 8.261 | 0.261 | 269.5 | 20.6 | 290.1 | 756.3 | O K |
| 2160 min Summer | 8.094 | 0.094 | 246.6 | 6.1 | 252.6 | 265.8 | O K |
| 2880 min Summer | 8.046 | 0.046 | 222.3 | 1.6 | 223.9 | 130.0 | O K |
| 4320 min Summer | 8.034 | 0.034 | 161.6 | 0.9 | 162.5 | 94.2 | O K |
| 5760 min Summer | 8.027 | 0.027 | 127.8 | 0.6 | 128.4 | 75.2 | O K |
| 7200 min Summer | 8.023 | 0.023 | 108.6 | 0.4 | 109.0 | 63.7 | O K |
| 8640 min Summer | 8.020 | 0.020 | 96.6 | 0.3 | 96.9 | 56.4 | O K |
| 10080 min Summer | 8.018 | 0.018 | 87.0 | 0.3 | 87.3 | 50.6 | O K |
| 30 min Winter | 9.049 | 1.049 | 380.8 | 22.6 | 401.1 | 3367.9 | O K |
| 60 min Winter | 9.170 | 1.170 | 398.4 | 22.6 | 416.9 | 3816.8 | O K |

| Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Discharge Volume (m³) | Time-Peak (mins) |
|------------------|--------------|---------------------|-----------------------|------------------|
| 30 min Summer | 64.350 | 0.0 | 3606.7 | 38 |
| 60 min Summer | 39.805 | 0.0 | 4462.5 | 62 |
| 120 min Summer | 24.311 | 0.0 | 5452.6 | 98 |
| 180 min Summer | 18.051 | 0.0 | 6071.2 | 132 |
| 240 min Summer | 14.526 | 0.0 | 6514.5 | 166 |
| 360 min Summer | 10.577 | 0.0 | 7115.1 | 236 |
| 480 min Summer | 8.380 | 0.0 | 7516.5 | 302 |
| 600 min Summer | 6.971 | 0.0 | 7815.7 | 366 |
| 720 min Summer | 5.985 | 0.0 | 8052.5 | 430 |
| 960 min Summer | 4.690 | 0.0 | 8412.9 | 554 |
| 1440 min Summer | 3.312 | 0.0 | 8911.2 | 788 |
| 2160 min Summer | 2.338 | 0.0 | 9438.6 | 1128 |
| 2880 min Summer | 1.833 | 0.0 | 9867.2 | 1448 |
| 4320 min Summer | 1.315 | 0.0 | 10618.1 | 2192 |
| 5760 min Summer | 1.049 | 0.0 | 11292.0 | 2880 |
| 7200 min Summer | 0.888 | 0.0 | 11950.2 | 3616 |
| 8640 min Summer | 0.780 | 0.0 | 12586.9 | 4392 |
| 10080 min Summer | 0.701 | 0.0 | 13213.2 | 4976 |
| 30 min Winter | 64.350 | 0.0 | 4052.6 | 38 |
| 60 min Winter | 39.805 | 0.0 | 5015.4 | 64 |

Camden Mill
Lower Bristol Road
Bath



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Summary of Results for 30 year Return Period (+20%)

| Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Control (l/s) | Max Σ Outflow (l/s) | Max Volume (m³) | Status |
|------------------|---------------|---------------|------------------------|-------------------|---------------------|-----------------|--------|
| 120 min Winter | 9.197 | 1.197 | 402.3 | 22.6 | 420.4 | 3916.9 | O K |
| 180 min Winter | 9.159 | 1.159 | 396.8 | 22.6 | 415.5 | 3774.0 | O K |
| 240 min Winter | 9.099 | 1.099 | 388.1 | 22.6 | 407.8 | 3554.4 | O K |
| 360 min Winter | 8.966 | 0.966 | 368.9 | 22.6 | 390.0 | 3071.5 | O K |
| 480 min Winter | 8.831 | 0.831 | 349.5 | 22.6 | 371.5 | 2596.8 | O K |
| 600 min Winter | 8.704 | 0.704 | 331.5 | 22.6 | 353.8 | 2164.4 | O K |
| 720 min Winter | 8.588 | 0.588 | 315.1 | 22.6 | 337.7 | 1780.3 | O K |
| 960 min Winter | 8.391 | 0.391 | 287.5 | 22.1 | 309.6 | 1152.4 | O K |
| 1440 min Winter | 8.138 | 0.138 | 252.6 | 11.5 | 264.1 | 392.2 | O K |
| 2160 min Winter | 8.043 | 0.043 | 205.3 | 1.4 | 206.7 | 120.3 | O K |
| 2880 min Winter | 8.034 | 0.034 | 161.6 | 1.5 | 162.5 | 94.6 | O K |
| 4320 min Winter | 8.024 | 0.024 | 115.8 | 1.5 | 116.3 | 68.3 | O K |
| 5760 min Winter | 8.020 | 0.020 | 94.2 | 1.2 | 94.5 | 55.0 | O K |
| 7200 min Winter | 8.017 | 0.017 | 79.8 | 1.0 | 80.0 | 46.6 | O K |
| 8640 min Winter | 8.015 | 0.015 | 70.2 | 1.2 | 70.4 | 41.0 | O K |
| 10080 min Winter | 8.013 | 0.013 | 63.1 | 3.2 | 63.2 | 36.8 | O K |

| Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Discharge Volume (m³) | Time-Peak (mins) |
|------------------|--------------|---------------------|-----------------------|------------------|
| 120 min Winter | 24.311 | 0.0 | 6126.4 | 104 |
| 180 min Winter | 18.051 | 0.0 | 6823.4 | 142 |
| 240 min Winter | 14.526 | 0.0 | 7321.0 | 180 |
| 360 min Winter | 10.577 | 0.0 | 7994.6 | 254 |
| 480 min Winter | 8.380 | 0.0 | 8445.8 | 324 |
| 600 min Winter | 6.971 | 0.0 | 8781.8 | 390 |
| 720 min Winter | 5.985 | 0.0 | 9048.0 | 456 |
| 960 min Winter | 4.690 | 0.0 | 9452.9 | 578 |
| 1440 min Winter | 3.312 | 0.0 | 10012.8 | 800 |
| 2160 min Winter | 2.338 | 0.0 | 10605.5 | 1104 |
| 2880 min Winter | 1.833 | 0.0 | 11086.8 | 1452 |
| 4320 min Winter | 1.315 | 0.0 | 11931.1 | 2204 |
| 5760 min Winter | 1.049 | 0.0 | 12687.5 | 2872 |
| 7200 min Winter | 0.888 | 0.0 | 13426.6 | 3648 |
| 8640 min Winter | 0.780 | 0.0 | 14143.0 | 4488 |
| 10080 min Winter | 0.701 | 0.0 | 14846.7 | 5136 |

Camden Mill
 Lower Bristol Road
 Bath

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Rainfall Details

| | |
|-----------------------|---------------------------------|
| Rainfall Model | FEH |
| Return Period (years) | 30 |
| FEH Rainfall Version | 2013 |
| Site Location | GB 447876 213399 SP 47876 13399 |
| Data Type | Point |
| Summer Storms | Yes |
| Winter Storms | Yes |
| Cv (Summer) | 0.890 |
| Cv (Winter) | 1.000 |
| Shortest Storm (mins) | 30 |
| Longest Storm (mins) | 10080 |
| Climate Change % | +20 |

Time Area Diagram

Total Area (ha) 12.600

| Time (mins) | Area | Time (mins) | Area | Time (mins) | Area |
|-------------|---------|-------------|----------|-------------|----------|
| From: To: | (ha) | From: To: | (ha) | From: To: | (ha) |
| 0 | 5 4.200 | 5 | 10 4.200 | 10 | 15 4.200 |

Camden Mill
 Lower Bristol Road
 Bath

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Model Details

Storage is Online Cover Level (m) 10.000

Infiltration Basin Structure

Invert Level (m) 8.000 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.60120 Porosity 1.00
 Infiltration Coefficient Side (m/hr) 0.60120

| Depth (m) | Area (m ²) | Depth (m) | Area (m ²) |
|-----------|------------------------|-----------|------------------------|
| 0.000 | 2800.0 | 2.000 | 4501.7 |

Hydro-Brake® Optimum Outflow Control

Unit Reference MD-SHE-0196-2260-1900-2260
 Design Head (m) 1.900
 Design Flow (l/s) 22.6
 Flush-Flo™ Calculated
 Objective Minimise upstream storage
 Application Surface
 Sump Available Yes
 Diameter (mm) 196
 Invert Level (m) 8.000
 Minimum Outlet Pipe Diameter (mm) 225
 Suggested Manhole Diameter (mm) 1800

| Control Points | Head (m) | Flow (l/s) |
|---------------------------|----------|------------|
| Design Point (Calculated) | 1.900 | 22.6 |
| Flush-Flo™ | 0.552 | 22.6 |
| Kick-Flo® | 1.189 | 18.1 |
| Mean Flow over Head Range | - | 19.6 |

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

| Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 0.100 | 6.8 | 1.200 | 18.2 | 3.000 | 28.1 | 7.000 | 42.3 |
| 0.200 | 18.4 | 1.400 | 19.5 | 3.500 | 30.3 | 7.500 | 43.7 |
| 0.300 | 21.2 | 1.600 | 20.8 | 4.000 | 32.3 | 8.000 | 45.1 |
| 0.400 | 22.2 | 1.800 | 22.0 | 4.500 | 34.2 | 8.500 | 46.5 |
| 0.500 | 22.6 | 2.000 | 23.2 | 5.000 | 36.0 | 9.000 | 47.8 |
| 0.600 | 22.6 | 2.200 | 24.2 | 5.500 | 37.6 | 9.500 | 49.0 |
| 0.800 | 22.1 | 2.400 | 25.3 | 6.000 | 39.3 | | |
| 1.000 | 20.9 | 2.600 | 26.3 | 6.500 | 40.8 | | |

Camden Mill
Lower Bristol Road
Bath



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Innovyze Source Control 2020.1.3

Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 127 minutes.

| Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Control (l/s) | Max E Outflow (l/s) | Max Volume (m ³) | Status |
|------------------|---------------|---------------|------------------------|-------------------|---------------------|------------------------------|------------|
| 30 min Summer | 9.398 | 1.398 | 431.9 | 22.6 | 451.4 | 4694.6 | O K |
| 60 min Summer | 9.579 | 1.579 | 458.7 | 22.6 | 479.4 | 5421.8 | O K |
| 120 min Summer | 9.625 | 1.625 | 465.7 | 22.6 | 486.6 | 5613.2 | O K |
| 180 min Summer | 9.606 | 1.606 | 462.8 | 22.6 | 483.7 | 5534.7 | O K |
| 240 min Summer | 9.566 | 1.566 | 456.8 | 22.6 | 477.4 | 5370.0 | O K |
| 360 min Summer | 9.467 | 1.467 | 442.0 | 22.6 | 462.0 | 4967.7 | O K |
| 480 min Summer | 9.365 | 1.365 | 427.0 | 22.6 | 446.3 | 4561.8 | O K |
| 600 min Summer | 9.264 | 1.264 | 412.1 | 22.6 | 430.7 | 4171.5 | O K |
| 720 min Summer | 9.166 | 1.166 | 397.8 | 22.6 | 416.4 | 3801.2 | O K |
| 960 min Summer | 8.984 | 0.984 | 371.4 | 22.6 | 392.4 | 3133.3 | O K |
| 1440 min Summer | 8.684 | 0.684 | 328.6 | 22.6 | 351.0 | 2094.7 | O K |
| 2160 min Summer | 8.369 | 0.369 | 284.5 | 22.0 | 306.4 | 1086.5 | O K |
| 2880 min Summer | 8.183 | 0.183 | 258.7 | 16.7 | 275.5 | 524.5 | O K |
| 4320 min Summer | 8.047 | 0.047 | 227.2 | 1.7 | 228.9 | 132.5 | O K |
| 5760 min Summer | 8.037 | 0.037 | 178.6 | 1.1 | 179.6 | 105.5 | O K |
| 7200 min Summer | 8.031 | 0.031 | 149.5 | 0.8 | 150.3 | 88.1 | O K |
| 8640 min Summer | 8.027 | 0.027 | 130.2 | 0.6 | 130.8 | 76.6 | O K |
| 10080 min Summer | 8.025 | 0.025 | 118.2 | 0.5 | 118.7 | 69.1 | O K |
| 30 min Winter | 9.560 | 1.560 | 455.9 | 22.6 | 476.4 | 5342.9 | O K |
| 60 min Winter | 9.768 | 1.768 | 487.1 | 22.6 | 508.9 | 6215.0 | Flood Risk |

| Storm Event | Rain (mm/hr) | Flooded Volume (m ³) | Discharge Volume (m ³) | Time-Peak (mins) |
|------------------|--------------|----------------------------------|------------------------------------|------------------|
| 30 min Summer | 97.695 | 0.0 | 5477.8 | 39 |
| 60 min Summer | 60.761 | 0.0 | 6813.8 | 64 |
| 120 min Summer | 36.541 | 0.0 | 8195.3 | 108 |
| 180 min Summer | 27.028 | 0.0 | 9092.8 | 140 |
| 240 min Summer | 21.730 | 0.0 | 9747.2 | 174 |
| 360 min Summer | 15.828 | 0.0 | 10649.9 | 242 |
| 480 min Summer | 12.545 | 0.0 | 11254.2 | 312 |
| 600 min Summer | 10.431 | 0.0 | 11697.1 | 378 |
| 720 min Summer | 8.949 | 0.0 | 12041.8 | 444 |
| 960 min Summer | 6.994 | 0.0 | 12547.4 | 574 |
| 1440 min Summer | 4.908 | 0.0 | 13207.9 | 820 |
| 2160 min Summer | 3.428 | 0.0 | 13838.4 | 1172 |
| 2880 min Summer | 2.661 | 0.0 | 14322.4 | 1512 |
| 4320 min Summer | 1.875 | 0.0 | 15135.9 | 2200 |
| 5760 min Summer | 1.473 | 0.0 | 15852.3 | 2936 |
| 7200 min Summer | 1.231 | 0.0 | 16567.4 | 3672 |
| 8640 min Summer | 1.070 | 0.0 | 17270.2 | 4304 |
| 10080 min Summer | 0.954 | 0.0 | 17966.0 | 5048 |
| 30 min Winter | 97.695 | 0.0 | 6154.8 | 39 |
| 60 min Winter | 60.761 | 0.0 | 7655.9 | 64 |

Camden Mill
Lower Bristol Road
Bath



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Summary of Results for 100 year Return Period (+40%)

| Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Control (l/s) | Max Σ Outflow (l/s) | Max Volume (m³) | Status |
|------------------|---------------|---------------|------------------------|-------------------|---------------------|-----------------|------------|
| 120 min Winter | 9.838 | 1.838 | 497.7 | 22.6 | 519.9 | 6517.1 | Flood Risk |
| 180 min Winter | 9.815 | 1.815 | 494.2 | 22.6 | 516.4 | 6419.3 | Flood Risk |
| 240 min Winter | 9.767 | 1.767 | 486.9 | 22.6 | 508.7 | 6210.9 | Flood Risk |
| 360 min Winter | 9.627 | 1.627 | 466.0 | 22.6 | 486.9 | 5621.8 | O K |
| 480 min Winter | 9.483 | 1.483 | 444.5 | 22.6 | 464.6 | 5032.6 | O K |
| 600 min Winter | 9.342 | 1.342 | 423.6 | 22.6 | 442.8 | 4474.5 | O K |
| 720 min Winter | 9.207 | 1.207 | 403.8 | 22.6 | 422.0 | 3953.9 | O K |
| 960 min Winter | 8.956 | 0.956 | 367.4 | 22.6 | 388.7 | 3034.4 | O K |
| 1440 min Winter | 8.559 | 0.559 | 311.0 | 22.6 | 333.6 | 1685.5 | O K |
| 2160 min Winter | 8.190 | 0.190 | 259.7 | 17.4 | 277.1 | 544.9 | O K |
| 2880 min Winter | 8.049 | 0.049 | 234.5 | 1.8 | 236.3 | 136.9 | O K |
| 4320 min Winter | 8.035 | 0.035 | 166.5 | 2.2 | 167.4 | 97.2 | O K |
| 5760 min Winter | 8.027 | 0.027 | 130.2 | 1.7 | 130.8 | 76.4 | O K |
| 7200 min Winter | 8.023 | 0.023 | 108.6 | 1.4 | 109.0 | 63.4 | O K |
| 8640 min Winter | 8.020 | 0.020 | 96.6 | 1.2 | 96.9 | 56.4 | O K |
| 10080 min Winter | 8.018 | 0.018 | 84.6 | 1.1 | 84.8 | 49.7 | O K |

| Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Discharge Volume (m³) | Time-Peak (mins) |
|------------------|--------------|---------------------|-----------------------|------------------|
| 120 min Winter | 36.541 | 0.0 | 9208.2 | 116 |
| 180 min Winter | 27.028 | 0.0 | 10216.6 | 148 |
| 240 min Winter | 21.730 | 0.0 | 10951.8 | 186 |
| 360 min Winter | 15.828 | 0.0 | 11966.2 | 262 |
| 480 min Winter | 12.545 | 0.0 | 12645.1 | 334 |
| 600 min Winter | 10.431 | 0.0 | 13142.9 | 406 |
| 720 min Winter | 8.949 | 0.0 | 13530.2 | 474 |
| 960 min Winter | 6.994 | 0.0 | 14098.3 | 606 |
| 1440 min Winter | 4.908 | 0.0 | 14842.1 | 854 |
| 2160 min Winter | 3.428 | 0.0 | 15549.4 | 1188 |
| 2880 min Winter | 2.661 | 0.0 | 16093.2 | 1440 |
| 4320 min Winter | 1.875 | 0.0 | 17006.4 | 2204 |
| 5760 min Winter | 1.473 | 0.0 | 17811.2 | 2904 |
| 7200 min Winter | 1.231 | 0.0 | 18616.8 | 3544 |
| 8640 min Winter | 1.070 | 0.0 | 19404.9 | 4384 |
| 10080 min Winter | 0.954 | 0.0 | 20186.7 | 5072 |

Camden Mill
 Lower Bristol Road
 Bath

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Rainfall Details

| | |
|-----------------------|---------------------------------|
| Rainfall Model | FEH |
| Return Period (years) | 100 |
| FEH Rainfall Version | 2013 |
| Site Location | GB 447876 213399 SP 47876 13399 |
| Data Type | Point |
| Summer Storms | Yes |
| Winter Storms | Yes |
| Cv (Summer) | 0.890 |
| Cv (Winter) | 1.000 |
| Shortest Storm (mins) | 30 |
| Longest Storm (mins) | 10080 |
| Climate Change % | +40 |

Time Area Diagram

Total Area (ha) 12.600

| Time (mins) | Area | Time (mins) | Area | Time (mins) | Area |
|-------------|---------|-------------|----------|-------------|----------|
| From: To: | (ha) | From: To: | (ha) | From: To: | (ha) |
| 0 | 5 4.200 | 5 | 10 4.200 | 10 | 15 4.200 |

Camden Mill
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 Bath

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Source Control 2020.1.3

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Model Details

Storage is Online Cover Level (m) 10.000

Infiltration Basin Structure

Invert Level (m) 8.000 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.60120 Porosity 1.00
 Infiltration Coefficient Side (m/hr) 0.60120

| Depth (m) | Area (m ²) | Depth (m) | Area (m ²) |
|-----------|------------------------|-----------|------------------------|
| 0.000 | 2800.0 | 2.000 | 4501.7 |

Hydro-Brake® Optimum Outflow Control

Unit Reference MD-SHE-0196-2260-1900-2260
 Design Head (m) 1.900
 Design Flow (l/s) 22.6
 Flush-Flo™ Calculated
 Objective Minimise upstream storage
 Application Surface
 Sump Available Yes
 Diameter (mm) 196
 Invert Level (m) 8.000
 Minimum Outlet Pipe Diameter (mm) 225
 Suggested Manhole Diameter (mm) 1800

| Control Points | Head (m) | Flow (l/s) |
|---------------------------|----------|------------|
| Design Point (Calculated) | 1.900 | 22.6 |
| Flush-Flo™ | 0.552 | 22.6 |
| Kick-Flo® | 1.189 | 18.1 |
| Mean Flow over Head Range | - | 19.6 |

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

| Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 0.100 | 6.8 | 1.200 | 18.2 | 3.000 | 28.1 | 7.000 | 42.3 |
| 0.200 | 18.4 | 1.400 | 19.5 | 3.500 | 30.3 | 7.500 | 43.7 |
| 0.300 | 21.2 | 1.600 | 20.8 | 4.000 | 32.3 | 8.000 | 45.1 |
| 0.400 | 22.2 | 1.800 | 22.0 | 4.500 | 34.2 | 8.500 | 46.5 |
| 0.500 | 22.6 | 2.000 | 23.2 | 5.000 | 36.0 | 9.000 | 47.8 |
| 0.600 | 22.6 | 2.200 | 24.2 | 5.500 | 37.6 | 9.500 | 49.0 |
| 0.800 | 22.1 | 2.400 | 25.3 | 6.000 | 39.3 | | |
| 1.000 | 20.9 | 2.600 | 26.3 | 6.500 | 40.8 | | |