## Summary of Results for 10 year Return Period (+40%)

Half Drain Time : 1314 minutes.

| Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Volume (m³) | Status |
|---|---|---|---|---|---|
| 15 min Summer | 0.047 | 0.047 | 0.0 | 1.0 | O K |
| 30 min Summer | 0.061 | 0.061 | 0.0 | 1.3 | O K |
| 60 min Summer | 0.076 | 0.076 | 0.0 | 1.6 | O K |
| 120 min Summer | 0.093 | 0.093 | 0.0 | 2.0 | O K |
| 180 min Summer | 0.103 | 0.103 | 0.0 | 2.2 | Flood Risk |
| 240 min Summer | 0.109 | 0.109 | 0.0 | 2.3 | Flood Risk |
| 360 min Summer | 0.116 | 0.116 | 0.0 | 2.4 | Flood Risk |
| 480 min Summer | 0.120 | 0.120 | 0.0 | 2.5 | Flood Risk |
| 600 min Summer | 0.121 | 0.121 | 0.0 | 2.5 | Flood Risk |
| 720 min Summer | 0.122 | 0.122 | 0.0 | 2.5 | Flood Risk |
| 960 min Summer | 0.121 | 0.121 | 0.0 | 2.5 | Flood Risk |
| 1440 min Summer | 0.119 | 0.119 | 0.0 | 2.5 | Flood Risk |
| 2160 min Summer | 0.116 | 0.116 | 0.0 | 2.4 | Flood Risk |
| 2880 min Summer | 0.113 | 0.113 | 0.0 | 2.4 | Flood Risk |
| 4320 min Summer | 0.108 | 0.108 | 0.0 | 2.3 | Flood Risk |
| 5760 min Summer | 0.104 | 0.104 | 0.0 | 2.2 | Flood Risk |
| 7200 min Summer | 0.101 | 0.101 | 0.0 | 2.1 | Flood Risk |
| 8640 min Summer | 0.098 | 0.098 | 0.0 | 2.1 | O K |
| 10080 min Summer | 0.096 | 0.096 | 0.0 | 2.0 | O K |
| 15 min Winter | 0.052 | 0.052 | 0.0 | 1.1 | O K |

| Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Time-Peak (mins) |
|---|---|---|---|
| 15 min Summer | 87.620 | 0.0 | 19 |
| 30 min Summer | 57.683 | 0.0 | 34 |
| 60 min Summer | 36.448 | 0.0 | 64 |
| 120 min Summer | 22.639 | 0.0 | 124 |
| 180 min Summer | 16.928 | 0.0 | 182 |
| 240 min Summer | 13.676 | 0.0 | 242 |
| 360 min Summer | 10.003 | 0.0 | 362 |
| 480 min Summer | 7.960 | 0.0 | 482 |
| 600 min Summer | 6.652 | 0.0 | 602 |
| 720 min Summer | 5.738 | 0.0 | 720 |
| 960 min Summer | 4.539 | 0.0 | 950 |
| 1440 min Summer | 3.269 | 0.0 | 1152 |
| 2160 min Summer | 2.374 | 0.0 | 1536 |
| 2880 min Summer | 1.907 | 0.0 | 1936 |
| 4320 min Summer | 1.430 | 0.0 | 2768 |
| 5760 min Summer | 1.183 | 0.0 | 3576 |
| 7200 min Summer | 1.034 | 0.0 | 4392 |
| 8640 min Summer | 0.933 | 0.0 | 5192 |
| 10080 min Summer | 0.861 | 0.0 | 5952 |
| 15 min Winter | 87.620 | 0.0 | 19 |

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## Summary of Results for 10 year Return Period (+40%)

| Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Volume (m³) | Status |
|---|---|---|---|---|---|
| 30 min Winter | 0.069 | 0.069 | 0.0 | 1.4 | O K |
| 60 min Winter | 0.086 | 0.086 | 0.0 | 1.8 | O K |
| 120 min Winter | 0.105 | 0.105 | 0.0 | 2.2 | Flood Risk |
| 180 min Winter | 0.116 | 0.116 | 0.0 | 2.4 | Flood Risk |
| 240 min Winter | 0.123 | 0.123 | 0.0 | 2.6 | Flood Risk |
| 360 min Winter | 0.131 | 0.131 | 0.0 | 2.7 | Flood Risk |
| 480 min Winter | 0.136 | 0.136 | 0.0 | 2.8 | Flood Risk |
| 600 min Winter | 0.138 | 0.138 | 0.0 | 2.9 | Flood Risk |
| 720 min Winter | 0.139 | 0.139 | 0.0 | 2.9 | Flood Risk |
| 960 min Winter | 0.139 | 0.139 | 0.0 | 2.9 | Flood Risk |
| 1440 min Winter | 0.136 | 0.136 | 0.0 | 2.8 | Flood Risk |
| 2160 min Winter | 0.131 | 0.131 | 0.0 | 2.7 | Flood Risk |
| 2880 min Winter | 0.126 | 0.126 | 0.0 | 2.6 | Flood Risk |
| 4320 min Winter | 0.117 | 0.117 | 0.0 | 2.5 | Flood Risk |
| 5760 min Winter | 0.109 | 0.109 | 0.0 | 2.3 | Flood Risk |
| 7200 min Winter | 0.102 | 0.102 | 0.0 | 2.1 | Flood Risk |
| 8640 min Winter | 0.096 | 0.096 | 0.0 | 2.0 | O K |
| 10080 min Winter | 0.091 | 0.091 | 0.0 | 1.9 | O K |

| Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Time-Peak (mins) |
|---|---|---|---|
| 30 min Winter | 57.683 | 0.0 | 33 |
| 60 min Winter | 36.448 | 0.0 | 62 |
| 120 min Winter | 22.639 | 0.0 | 122 |
| 180 min Winter | 16.928 | 0.0 | 180 |
| 240 min Winter | 13.676 | 0.0 | 240 |
| 360 min Winter | 10.003 | 0.0 | 356 |
| 480 min Winter | 7.960 | 0.0 | 472 |
| 600 min Winter | 6.652 | 0.0 | 588 |
| 720 min Winter | 5.738 | 0.0 | 700 |
| 960 min Winter | 4.539 | 0.0 | 924 |
| 1440 min Winter | 3.269 | 0.0 | 1340 |
| 2160 min Winter | 2.374 | 0.0 | 1664 |
| 2880 min Winter | 1.907 | 0.0 | 2108 |
| 4320 min Winter | 1.430 | 0.0 | 3024 |
| 5760 min Winter | 1.183 | 0.0 | 3872 |
| 7200 min Winter | 1.034 | 0.0 | 4688 |
| 8640 min Winter | 0.933 | 0.0 | 5536 |
| 10080 min Winter | 0.861 | 0.0 | 6352 |

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## Rainfall Details

| | |
|---|---|
| Rainfall Model | FEH |
| Return Period (years) | 10 |
| FEH Rainfall Version | 2013 |
| Site Location | GB 497682 103581 SU 97682 03581 |
| Data Type | Point |
| Summer Storms | Yes |
| Winter Storms | Yes |
| Cv (Summer) | 0.750 |
| Cv (Winter) | 0.840 |
| Shortest Storm (mins) | 15 |
| Longest Storm (mins) | 10080 |
| Climate Change % | +40 |

## Time Area Diagram

Total Area (ha) 0.006

| Time (mins) From: | To: | Area (ha) |
|---|---|---|
| 0 | 4 | 0.006 |

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## Model Details

Storage is Online Cover Level (m) 0.400

## Infiltration Blanket Structure

| | | | |
|---|---|---|---|
| Infiltration Coefficient Base (m/hr) | 0.00612 | Diameter/Width (m) | 2.0 |
| Safety Factor | 2.0 | Length (m) | 11.0 |
| Porosity | 0.95 | Cap Volume Depth (m) | 0.000 |
| Invert Level (m) | 0.000 | | |

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