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

Half Drain Time : 2020 minutes.

| Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Volume (m³) | Status |
|---|---|---|---|---|---|
| 15 min Summer | 0.074 | 0.074 | 0.1 | 4.2 | O K |
| 30 min Summer | 0.099 | 0.099 | 0.1 | 5.6 | O K |
| 60 min Summer | 0.126 | 0.126 | 0.1 | 7.2 | Flood Risk |
| 120 min Summer | 0.148 | 0.148 | 0.1 | 8.4 | Flood Risk |
| 180 min Summer | 0.160 | 0.160 | 0.1 | 9.1 | Flood Risk |
| 240 min Summer | 0.169 | 0.169 | 0.1 | 9.6 | Flood Risk |
| 360 min Summer | 0.178 | 0.178 | 0.1 | 10.2 | Flood Risk |
| 480 min Summer | 0.184 | 0.184 | 0.1 | 10.5 | Flood Risk |
| 600 min Summer | 0.187 | 0.187 | 0.1 | 10.6 | Flood Risk |
| 720 min Summer | 0.189 | 0.189 | 0.1 | 10.7 | Flood Risk |
| 960 min Summer | 0.189 | 0.189 | 0.1 | 10.8 | Flood Risk |
| 1440 min Summer | 0.186 | 0.186 | 0.1 | 10.6 | Flood Risk |
| 2160 min Summer | 0.180 | 0.180 | 0.1 | 10.3 | Flood Risk |
| 2880 min Summer | 0.175 | 0.175 | 0.1 | 10.0 | Flood Risk |
| 4320 min Summer | 0.168 | 0.168 | 0.1 | 9.6 | Flood Risk |
| 5760 min Summer | 0.162 | 0.162 | 0.1 | 9.2 | Flood Risk |
| 7200 min Summer | 0.157 | 0.157 | 0.1 | 9.0 | Flood Risk |
| 8640 min Summer | 0.153 | 0.153 | 0.1 | 8.7 | Flood Risk |
| 10080 min Summer | 0.150 | 0.150 | 0.1 | 8.6 | Flood Risk |
| 15 min Winter | 0.083 | 0.083 | 0.1 | 4.7 | O K |

| Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Time-Peak (mins) |
|---|---|---|---|
| 15 min Summer | 141.164 | 0.0 | 19 |
| 30 min Summer | 94.700 | 0.0 | 34 |
| 60 min Summer | 60.903 | 0.0 | 64 |
| 120 min Summer | 36.128 | 0.0 | 124 |
| 180 min Summer | 26.473 | 0.0 | 184 |
| 240 min Summer | 21.126 | 0.0 | 244 |
| 360 min Summer | 15.214 | 0.0 | 362 |
| 480 min Summer | 12.016 | 0.0 | 482 |
| 600 min Summer | 9.993 | 0.0 | 602 |
| 720 min Summer | 8.590 | 0.0 | 722 |
| 960 min Summer | 6.756 | 0.0 | 962 |
| 1440 min Summer | 4.823 | 0.0 | 1440 |
| 2160 min Summer | 3.462 | 0.0 | 1756 |
| 2880 min Summer | 2.754 | 0.0 | 2132 |
| 4320 min Summer | 2.025 | 0.0 | 2940 |
| 5760 min Summer | 1.648 | 0.0 | 3752 |
| 7200 min Summer | 1.419 | 0.0 | 4608 |
| 8640 min Summer | 1.264 | 0.0 | 5440 |
| 10080 min Summer | 1.153 | 0.0 | 6248 |
| 15 min Winter | 141.164 | 0.0 | 19 |

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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 Volume (m³) | Status |
|---|---|---|---|---|---|
| 30 min Winter | 0.110 | 0.110 | 0.1 | 6.3 | Flood Risk |
| 60 min Winter | 0.141 | 0.141 | 0.1 | 8.1 | Flood Risk |
| 120 min Winter | 0.166 | 0.166 | 0.1 | 9.4 | Flood Risk |
| 180 min Winter | 0.180 | 0.180 | 0.1 | 10.3 | Flood Risk |
| 240 min Winter | 0.190 | 0.190 | 0.1 | 10.8 | Flood Risk |
| 360 min Winter | 0.201 | 0.201 | 0.1 | 11.4 | Flood Risk |
| 480 min Winter | 0.207 | 0.207 | 0.1 | 11.8 | Flood Risk |
| 600 min Winter | 0.211 | 0.211 | 0.1 | 12.1 | Flood Risk |
| 720 min Winter | 0.214 | 0.214 | 0.1 | 12.2 | Flood Risk |
| 960 min Winter | 0.216 | 0.216 | 0.1 | 12.3 | Flood Risk |
| 1440 min Winter | 0.215 | 0.215 | 0.1 | 12.3 | Flood Risk |
| 2160 min Winter | 0.208 | 0.208 | 0.1 | 11.9 | Flood Risk |
| 2880 min Winter | 0.201 | 0.201 | 0.1 | 11.4 | Flood Risk |
| 4320 min Winter | 0.190 | 0.190 | 0.1 | 10.8 | Flood Risk |
| 5760 min Winter | 0.180 | 0.180 | 0.1 | 10.2 | Flood Risk |
| 7200 min Winter | 0.171 | 0.171 | 0.1 | 9.7 | Flood Risk |
| 8640 min Winter | 0.162 | 0.162 | 0.1 | 9.3 | Flood Risk |
| 10080 min Winter | 0.155 | 0.155 | 0.1 | 8.8 | Flood Risk |

| Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Time-Peak (mins) |
|---|---|---|---|
| 30 min Winter | 94.700 | 0.0 | 34 |
| 60 min Winter | 60.903 | 0.0 | 64 |
| 120 min Winter | 36.128 | 0.0 | 122 |
| 180 min Winter | 26.473 | 0.0 | 182 |
| 240 min Winter | 21.126 | 0.0 | 240 |
| 360 min Winter | 15.214 | 0.0 | 358 |
| 480 min Winter | 12.016 | 0.0 | 476 |
| 600 min Winter | 9.993 | 0.0 | 592 |
| 720 min Winter | 8.590 | 0.0 | 708 |
| 960 min Winter | 6.756 | 0.0 | 940 |
| 1440 min Winter | 4.823 | 0.0 | 1386 |
| 2160 min Winter | 3.462 | 0.0 | 2016 |
| 2880 min Winter | 2.754 | 0.0 | 2280 |
| 4320 min Winter | 2.025 | 0.0 | 3200 |
| 5760 min Winter | 1.648 | 0.0 | 4096 |
| 7200 min Winter | 1.419 | 0.0 | 4976 |
| 8640 min Winter | 1.264 | 0.0 | 5880 |
| 10080 min Winter | 1.153 | 0.0 | 6752 |

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## Rainfall Details

| | |
|---|---|
| Rainfall Model | FEH |
| Return Period (years) | 100 |
| 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) 0.016

| Time (mins) From: | To: | Area (ha) |
|---|---|---|
| 0 | 4 | 0.016 |

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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) | 3.0 |
| Safety Factor | 2.0 | Length (m) | 20.0 |
| Porosity | 0.95 | Cap Volume Depth (m) | 0.000 |
| Invert Level (m) | 0.000 | | |

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