

# **APPENDIX E**

## **GROUNDWATER MONITORING DATA**

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05035 L01 (00) DRAFT

| BH1<br>Manual dips | Depth to groundwater |        |
|--------------------|----------------------|--------|
|                    | (mbgl)               | (mAOD) |
| 15/10/2018         | Dry                  | Dry    |
| 14/11/2018         | Dry                  | Dry    |
| 12/12/2018         | 1.55                 | 4.998  |
| 16/01/2019         | 1.62                 | 4.928  |
| 25/01/2019         |                      |        |
| 30/01/2019         | 1.60                 | 4.948  |
| 13/02/2019         | 1.33                 | 5.218  |
| 01/03/2019         | 1.53                 | 5.023  |

| BH2<br>Manual dips | Depth to groundwater |        |
|--------------------|----------------------|--------|
|                    | (mbgl)               | (mAOD) |
| 15/10/2018         | 0.88                 | 6.031  |
| 14/11/2018         | 0.85                 | 6.061  |
| 12/12/2018         | 0.64                 | 6.271  |
| 16/01/2019         | 0.88                 | 6.031  |
| 25/01/2019         |                      |        |
| 30/01/2019         | 0.80                 | 6.111  |
| 13/02/2019         | 0.51                 | 6.406  |
| 01/03/2019         | 0.80                 | 6.111  |

| BH3<br>Manual dips | Depth to groundwater |        |
|--------------------|----------------------|--------|
|                    | (mbgl)               | (mAOD) |
| 15/10/2018         | 0.88                 | 5.232  |
| 14/11/2018         | 0.58                 | 5.532  |
| 12/12/2018         | 0.00                 | 6.112  |
| 16/01/2019         | 0.25                 | 5.862  |
| 25/01/2019         |                      |        |
| 30/01/2019         | 0.33                 | 5.782  |
| 13/02/2019         | 0.00                 | 6.112  |
| 01/03/2019         | 0.20                 | 5.912  |

| BH4<br>Manual dips | Depth to groundwater |        |
|--------------------|----------------------|--------|
|                    | (mbgl)               | (mAOD) |
| 15/10/2018         | 1.03                 | 5.236  |
| 14/11/2018         | 0.98                 | 5.286  |
| 12/12/2018         | 0.82                 | 5.446  |
| 16/01/2019         | 1.30                 | 4.966  |
| 25/01/2019         |                      |        |
| 30/01/2019         |                      |        |
| 13/02/2019         | 0.73                 | 5.536  |
| 01/03/2019         | 1.19                 | 5.081  |

| BH201<br>Manual dips | Depth to groundwater |        |
|----------------------|----------------------|--------|
|                      | (mbgl)               | (mAOD) |
| 15/10/2018           |                      |        |
| 14/11/2018           |                      |        |
| 12/12/2018           |                      |        |
| 16/01/2019           |                      |        |
| 25/01/2019           | 1.26                 | 4.512  |
| 30/01/2019           | 1.60                 | 4.167  |
| 13/02/2019           | 1.00                 | 4.772  |
| 01/03/2019           | 1.23                 | 4.537  |

| BH202<br>Manual dips | Depth to groundwater |        |
|----------------------|----------------------|--------|
|                      | (mbgl)               | (mAOD) |
| 15/10/2018           |                      |        |
| 14/11/2018           |                      |        |
| 12/12/2018           |                      |        |
| 16/01/2019           |                      |        |
| 25/01/2019           |                      |        |
| 30/01/2019           | 1.08                 | 4.669  |
| 13/02/2019           | 0.70                 | 5.052  |
| 01/03/2019           | 1.06                 | 4.689  |

| BH203<br>Manual dips | Depth to groundwater |        |
|----------------------|----------------------|--------|
|                      | (mbgl)               | (mAOD) |
| 15/10/2018           |                      |        |
| 14/11/2018           |                      |        |
| 12/12/2018           |                      |        |
| 16/01/2019           |                      |        |
| 25/01/2019           |                      |        |
| 30/01/2019           | 1.08                 | 4.669  |
| 13/02/2019           | 0.70                 | 5.052  |
| 01/03/2019           | 1.06                 | 4.689  |

| BH204<br>Manual dips | Depth to groundwater |        |
|----------------------|----------------------|--------|
|                      | (mbgl)               | (mAOD) |
| 15/10/2018           |                      |        |
| 14/11/2018           |                      |        |
| 12/12/2018           |                      |        |
| 16/01/2019           |                      |        |
| 25/01/2019           | 0.14                 | 5.653  |
| 30/01/2019           | 1.15                 | 4.643  |
| 13/02/2019           | 0.84                 | 4.958  |
| 01/03/2019           | 1.07                 | 4.723  |

| BH205       | Depth to groundwater |        |
|-------------|----------------------|--------|
| Manual dips | (mbgl)               | (mAOD) |
| 15/10/2018  |                      |        |
| 14/11/2018  |                      |        |
| 12/12/2018  |                      |        |
| 16/01/2019  |                      |        |
| 25/01/2019  |                      |        |
| 30/01/2019  | 1.08                 | 5.739  |
| 13/02/2019  | 0.92                 | 5.904  |
| 01/03/2019  | 1.07                 | 5.754  |

| BH206       | Depth to groundwater |        |
|-------------|----------------------|--------|
| Manual dips | (mbgl)               | (mAOD) |
| 15/10/2018  |                      |        |
| 14/11/2018  |                      |        |
| 12/12/2018  |                      |        |
| 16/01/2019  |                      |        |
| 25/01/2019  | 0.26                 | 6.115  |
| 30/01/2019  | 0.35                 | 6.025  |
| 13/02/2019  | 0.13                 | 6.250  |
| 01/03/2019  | 0.31                 | 6.065  |

| BH207       | Depth to groundwater |        |
|-------------|----------------------|--------|
| Manual dips | (mbgl)               | (mAOD) |
| 15/10/2018  |                      |        |
| 14/11/2018  |                      |        |
| 12/12/2018  |                      |        |
| 16/01/2019  |                      |        |
| 25/01/2019  |                      |        |
| 30/01/2019  | 0.25                 | 5.945  |
| 13/02/2019  | 0.01                 | 6.185  |
| 01/03/2019  | 0.22                 | 5.980  |

| BH208       | Depth to groundwater |        |
|-------------|----------------------|--------|
| Manual dips | (mbgl)               | (mAOD) |
| 15/10/2018  |                      |        |
| 14/11/2018  |                      |        |
| 12/12/2018  |                      |        |
| 16/01/2019  |                      |        |
| 25/01/2019  |                      |        |
| 30/01/2019  | 0.29                 | 5.790  |
| 13/02/2019  | 0.00                 | 6.080  |
| 01/03/2019  | 0.15                 | 5.930  |

| BH209       | Depth to groundwater |        |
|-------------|----------------------|--------|
| Manual dips | (mbgl)               | (mAOD) |
| 15/10/2018  |                      |        |
| 14/11/2018  |                      |        |
| 12/12/2018  |                      |        |
| 16/01/2019  |                      |        |
| 25/01/2019  |                      |        |
| 30/01/2019  | 1.08                 | 5.356  |
| 13/02/2019  | 0.58                 | 5.861  |
| 01/03/2019  | 1.04                 | 5.396  |

| BH210       | Depth to groundwater |        |
|-------------|----------------------|--------|
| Manual dips | (mbgl)               | (mAOD) |
| 15/10/2018  |                      |        |
| 14/11/2018  |                      |        |
| 12/12/2018  |                      |        |
| 16/01/2019  |                      |        |
| 25/01/2019  |                      |        |
| 30/01/2019  | 1.20                 | 4.896  |
| 13/02/2019  | 0.61                 | 5.486  |
| 01/03/2019  | 1.15                 | 4.951  |

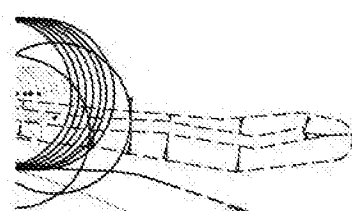
| BH211       | Depth to groundwater |        |
|-------------|----------------------|--------|
| Manual dips | (mbgl)               | (mAOD) |
| 15/10/2018  |                      |        |
| 14/11/2018  |                      |        |
| 12/12/2018  |                      |        |
| 16/01/2019  |                      |        |
| 25/01/2019  |                      |        |
| 30/01/2019  | 0.88                 | 5.830  |
| 13/02/2019  | 0.36                 | 6.350  |
| 01/03/2019  | 0.92                 | 5.790  |

Appendix (C)

Proposed Site Layout

# Taylor Wimpey

| SUB TOTAL      |                       | 196 | 209211 |
|----------------|-----------------------|-----|--------|
| AFFORDABLE 35% |                       |     |        |
| AA11           | 4 BEDROOM HOUSE       | 2   | 1083   |
| NA04           | 2 BEDROOM HOUSE       | 1   | 904    |
| NA22           | 2 BEDROOM HOUSE       | 2   | 850    |
| ZBCH           | 2 BEDROOM COACH HOUSE | 2   | 762    |
| ZB             | 2 BEDROOM FLAT        | 3   | 157    |
| UP             | 1 BEDROOM FLAT        | 3   | 541    |
| SUB TOTAL      |                       | 80  | 45284  |
| TOTAL          |                       | 280 | 274495 |



## Appendix (D)

### Existing Drainage Regime



## Appendix (E)

### Proposed Surface Water Strategy



NOTES

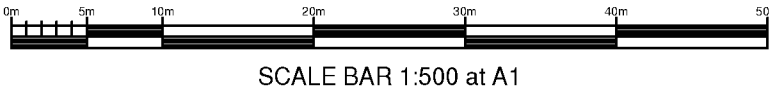
- All dimensions are in metres unless stated otherwise.
- Do not scale from this drawing. Only written dimensions are to be used.
- Site layout based on Cooper Baillie Planning Layout, drawing number CB\_84-139\_001 dated 28 February 2020.
- Level strategy is subject to further design development. Cover Levels is indicative only and subject to further detailed review
- The proposed surface and foul water drainage show is indicative only and subject to further design development. Detailed proposals for the surface and foul water drainage strategy will be provided as part of the Discharge of Conditions applications associated with the current Outline Planning Consent P.134.16.OUT
- ANY VARIANCE OR DISCREPANCY MUST BE REPORTED BACK TO RCP ENGINEERING BEFORE WORK BEGINS.**

KEY

- Site Boundary
- Proposed Surface Water Sewer
- Proposed Foul Water Sewer
- Clean coarse granular material nominal size 40/60mm
- Proposed Headwall
- Proposed Ground Level Taken From Level Strategy Plans WSC/E4775/016-019
- Existing Trees And Hedgerows To Be Kept

CDM NOTES

- EXISTING SERVICES.** Depth of existing services must be determined prior to works commencing. The contractor is responsible for establishing underground services in accordance with HSE Guidance note HS (G) 47. Any services which would be within the proposed construction layers must be lowered to below the sub-base.



SCALE BAR 1:500 at A1

|                                                                                                                                                                                                           |             |                     |                      |      |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------|----------------------|------|------|
| Rev.                                                                                                                                                                                                      | Date        | Details             | By                   | Chkd | Appd |
|                                                                                                                                                                                                           |             |                     |                      |      |      |
| Client:-                                                                                                                                                                                                  |             |                     |                      |      |      |
| <b>Taylor Wimpey</b>                                                                                                                                                                                      |             |                     |                      |      |      |
| Site:-                                                                                                                                                                                                    |             |                     | Drawing Title:-      |      |      |
| Sefter Road, Bognor                                                                                                                                                                                       |             |                     | SW DRAINAGE STRATEGY |      |      |
| Sheet 1 of 3                                                                                                                                                                                              |             |                     |                      |      |      |
| Date: January 2020                                                                                                                                                                                        |             | Scales: 1:500 at A1 |                      |      |      |
| Drawn: TK                                                                                                                                                                                                 | Checked: TK | Approved: TRS       |                      |      |      |
| Drawing No.                                                                                                                                                                                               |             |                     |                      |      |      |
| WSC/E4775/012                                                                                                                                                                                             |             |                     |                      |      |      |
| FOR INFORMATION ONLY                                                                                                                                                                                      |             |                     |                      |      |      |
|                                                                                                                      |             |                     |                      |      |      |
| Rogers Cory Partnership<br>Architectural and Civil Consultants<br>The Old School, Old School Road<br>Buck, Hampshire RG27 9BJ<br>T: 01254 769265 E: mail@rcpconsultants.co.uk W: www.rcpconsultants.co.uk |             |                     |                      |      |      |





## **Appendix (F)**

### **Micro Drainage Calculations**

|                                                    |                 |                                                                                     |
|----------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|
| Rogers Cory Ptn Ltd                                |                 | Page 0                                                                              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |                 |  |
| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
| File SW1-STRAT SEPARATE.MDX                        | Checked by      |                                                                                     |
| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

### STORM SEWER DESIGN by the Modified Rational Method

#### Design Criteria for Storm - Net 1

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

|                                      |        |                                       |       |
|--------------------------------------|--------|---------------------------------------|-------|
| Return Period (years)                | 2      | Add Flow / Climate Change (%)         | 10    |
| M5-60 (mm)                           | 19.000 | Minimum Backdrop Height (m)           | 0.000 |
| Ratio R                              | 0.350  | Maximum Backdrop Height (m)           | 0.000 |
| Maximum Rainfall (mm/hr)             | 50     | Min Design Depth for Optimisation (m) | 1.200 |
| Maximum Time of Concentration (mins) | 30     | Min Vel for Auto Design only (m/s)    | 1.00  |
| Foul Sewage (l/s/ha)                 | 0.000  | Min Slope for Optimisation (1:X)      | 500   |
| Volumetric Runoff Coeff.             | 0.750  |                                       |       |

Designed with Level Inverts

#### Network Design Table for Storm - Net 1

« - Indicates pipe capacity < flow

| PN    | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Auto<br>Design |
|-------|---------------|-------------|----------------|----------------|----------------|--------------------|-----------|-------------|-------------|----------------|
| 1.000 | 42.153        | 0.332       | 127.0          | 0.360          | 5.00           | 0.0                | 0.600     | o           | 525         | ⊗              |
| 2.000 | 39.209        | 0.234       | 167.6          | 0.040          | 5.00           | 0.0                | 0.600     | o           | 225         | ⊗              |
| 2.001 | 34.649        | 0.350       | 99.0           | 0.076          | 0.00           | 0.0                | 0.600     | o           | 375         | ⊗              |
| 2.002 | 23.441        | 0.206       | 114.0          | 0.189          | 0.00           | 0.0                | 0.600     | o           | 450         | ⊗              |
| 1.001 | 62.342        | 0.178       | 350.0          | 0.192          | 0.00           | 0.0                | 0.600     | o           | 600         | ⊗              |
| 3.000 | 48.508        | 0.146       | 332.0          | 0.165          | 5.00           | 0.0                | 0.600     | o           | 375         | ⊗              |
| 1.002 | 76.417        | 0.218       | 350.5          | 0.303          | 0.00           | 0.0                | 0.600     | o           | 600         | ⊗              |

#### Network Results Table

| PN    | Rain<br>(mm/hr) | T.C.<br>(mins) | US/IL<br>(m) | Σ I.Area<br>(ha) | Σ Base<br>Flow (l/s) | Foul<br>(l/s) | Add Flow<br>(l/s) | Vel<br>(m/s) | Cap<br>(l/s) | Flow<br>(l/s) |
|-------|-----------------|----------------|--------------|------------------|----------------------|---------------|-------------------|--------------|--------------|---------------|
| 1.000 | 50.00           | 5.35           | 5.335        | 0.360            | 0.0                  | 0.0           | 4.9               | 1.99         | 430.0        | 53.6          |
| 2.000 | 50.00           | 5.65           | 5.120        | 0.040            | 0.0                  | 0.0           | 0.5               | 1.01         | 40.0         | 6.0           |
| 2.001 | 50.00           | 5.97           | 5.715        | 0.116            | 0.0                  | 0.0           | 1.6               | 1.82         | 201.1        | 17.3          |
| 2.002 | 50.00           | 6.17           | 5.283        | 0.305            | 0.0                  | 0.0           | 4.1               | 1.90         | 302.7        | 45.4          |
| 1.001 | 50.00           | 6.97           | 4.928        | 0.857            | 0.0                  | 0.0           | 11.6              | 1.30         | 366.4        | 127.7         |
| 3.000 | 50.00           | 5.82           | 5.121        | 0.165            | 0.0                  | 0.0           | 2.2               | 0.99         | 109.2        | 24.6          |
| 1.002 | 50.00           | 7.96           | 4.750        | 1.325            | 0.0                  | 0.0           | 17.9              | 1.29         | 366.1        | 197.4         |

|                                                    |                 |                |                |                  |                      |                    |                   |              |              |                                                                                       |  |
|----------------------------------------------------|-----------------|----------------|----------------|------------------|----------------------|--------------------|-------------------|--------------|--------------|---------------------------------------------------------------------------------------|--|
| Rogers Cory Ptn Ltd                                |                 |                |                |                  |                      |                    |                   |              |              | Page 1                                                                                |  |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |                 |                |                |                  |                      |                    |                   |              |              |    |  |
| Date 01/01/0001                                    |                 |                |                |                  | Designed by Tim      |                    |                   |              |              |                                                                                       |  |
| File SW1-STRAT SEPARATE.MDX                        |                 |                |                |                  | Checked by           |                    |                   |              |              |                                                                                       |  |
| Micro Drainage                                     |                 |                |                |                  | Network 2014.1.1     |                    |                   |              |              |                                                                                       |  |
| <div>Network Design Table for Storm - Net 1</div>  |                 |                |                |                  |                      |                    |                   |              |              |                                                                                       |  |
| PN                                                 | Length<br>(m)   | Fall<br>(m)    | Slope<br>(1:X) | I.Area<br>(ha)   | T.E.<br>(mins)       | Base<br>Flow (l/s) | k<br>(mm)         | HYD<br>SECT  | DIA<br>(mm)  | Auto<br>Design                                                                        |  |
| 4.000                                              | 42.848          | 0.170          | 252.0          | 0.218            | 5.00                 | 0.0                | 0.600             | o            | 375          |    |  |
| 1.003                                              | 54.127          | 0.150          | 360.8          | 0.222            | 0.00                 | 0.0                | 0.600             | o            | 600          |    |  |
| 1.004                                              | 17.479          | 0.250          | 69.9           | 0.275            | 0.00                 | 0.0                | 0.600             | o            | 600          |    |  |
| 5.000                                              | 38.697          | 0.334          | 116.0          | 0.062            | 5.00                 | 0.0                | 0.600             | o            | 225          |    |  |
| 5.001                                              | 60.701          | 0.222          | 273.0          | 0.098            | 0.00                 | 0.0                | 0.600             | o            | 375          |    |  |
| 5.002                                              | 22.541          | 0.122          | 185.0          | 0.108            | 0.00                 | 0.0                | 0.600             | o            | 450          |    |  |
| 5.003                                              | 64.148          | 0.377          | 170.0          | 0.176            | 0.00                 | 0.0                | 0.600             | o            | 450          |    |  |
| 5.004                                              | 23.298          | 0.137          | 170.0          | 0.172            | 0.00                 | 0.0                | 0.600             | o            | 450          |    |  |
| 5.005                                              | 58.446          | 0.551          | 106.0          | 0.099            | 0.00                 | 0.0                | 0.600             | o            | 450          |    |  |
| 6.000                                              | 69.513          | 0.376          | 185.0          | 0.081            | 5.00                 | 0.0                | 0.600             | o            | 225          |    |  |
| 6.001                                              | 39.783          | 0.133          | 299.1          | 0.238            | 0.00                 | 0.0                | 0.600             | o            | 375          |   |  |
| 6.002                                              | 7.019           | 0.047          | 150.0          | 0.048            | 0.00                 | 0.0                | 0.600             | o            | 375          |  |  |
| 5.006                                              | 16.784          | 0.112          | 150.0          | 0.000            | 0.00                 | 0.0                | 0.600             | o            | 450          |  |  |
| 7.000                                              | 28.554          | 0.172          | 166.0          | 0.263            | 5.00                 | 0.0                | 0.600             | o            | 375          |  |  |
| 5.007                                              | 81.267          | 0.203          | 400.3          | 0.000            | 0.00                 | 0.0                | 0.600             | o            | 600          |  |  |
| <div>Network Results Table</div>                   |                 |                |                |                  |                      |                    |                   |              |              |                                                                                       |  |
| PN                                                 | Rain<br>(mm/hr) | T.C.<br>(mins) | US/IL<br>(m)   | Σ I.Area<br>(ha) | Σ Base<br>Flow (l/s) | Foul<br>(l/s)      | Add Flow<br>(l/s) | Vel<br>(m/s) | Cap<br>(l/s) | Flow<br>(l/s)                                                                         |  |
| 4.000                                              | 50.00           | 5.63           | 4.871          | 0.218            | 0.0                  | 0.0                | 3.0               | 1.14         | 125.5        | 32.5                                                                                  |  |
| 1.003                                              | 48.63           | 8.66           | 4.526          | 1.765            | 0.0                  | 0.0                | 23.2              | 1.28         | 360.8        | 255.7                                                                                 |  |
| 1.004                                              | 48.36           | 8.76           | 4.376          | 2.040            | 0.0                  | 0.0                | 26.7              | 2.92         | 824.2        | 293.9                                                                                 |  |
| 5.000                                              | 50.00           | 5.53           | 6.400          | 0.062            | 0.0                  | 0.0                | 0.8               | 1.21         | 48.2         | 9.2                                                                                   |  |
| 5.001                                              | 50.00           | 6.46           | 6.026          | 0.160            | 0.0                  | 0.0                | 2.2               | 1.09         | 120.6        | 23.8                                                                                  |  |
| 5.002                                              | 50.00           | 6.71           | 5.727          | 0.268            | 0.0                  | 0.0                | 3.6               | 1.49         | 237.2        | 39.9                                                                                  |  |
| 5.003                                              | 50.00           | 7.40           | 5.488          | 0.444            | 0.0                  | 0.0                | 6.0               | 1.56         | 247.5        | 66.1                                                                                  |  |
| 5.004                                              | 50.00           | 7.65           | 5.345          | 0.616            | 0.0                  | 0.0                | 8.3               | 1.56         | 247.5        | 91.8                                                                                  |  |
| 5.005                                              | 50.00           | 8.14           | 5.288          | 0.715            | 0.0                  | 0.0                | 9.7               | 1.97         | 314.0        | 106.5                                                                                 |  |
| 6.000                                              | 50.00           | 6.21           | 5.979          | 0.081            | 0.0                  | 0.0                | 1.1               | 0.96         | 38.1         | 12.1                                                                                  |  |
| 6.001                                              | 50.00           | 6.85           | 5.411          | 0.319            | 0.0                  | 0.0                | 4.3               | 1.04         | 115.1        | 47.5                                                                                  |  |
| 6.002                                              | 50.00           | 6.92           | 5.278          | 0.367            | 0.0                  | 0.0                | 5.0               | 1.48         | 163.1        | 54.7                                                                                  |  |
| 5.006                                              | 49.65           | 8.31           | 5.160          | 1.082            | 0.0                  | 0.0                | 14.5              | 1.66         | 263.6        | 160.0                                                                                 |  |
| 7.000                                              | 50.00           | 5.34           | 5.407          | 0.263            | 0.0                  | 0.0                | 3.6               | 1.40         | 155.0        | 39.2                                                                                  |  |
| 5.007                                              | 46.61           | 9.43           | 5.010          | 1.345            | 0.0                  | 0.0                | 17.0              | 1.21         | 342.4        | 186.8                                                                                 |  |
| ©1982-2014 XP Solutions                            |                 |                |                |                  |                      |                    |                   |              |              |                                                                                       |  |

|                                                    |                 |                |                |                |                      |                    |                   |              |              |                                                                                     |
|----------------------------------------------------|-----------------|----------------|----------------|----------------|----------------------|--------------------|-------------------|--------------|--------------|-------------------------------------------------------------------------------------|
| Rogers Cory Ptn Ltd                                |                 |                |                |                |                      |                    |                   |              |              | Page 2                                                                              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |                 |                |                |                |                      |                    |                   |              |              |  |
| Date 01/01/0001                                    |                 |                |                |                | Designed by Tim      |                    |                   |              |              |                                                                                     |
| File SW1-STRAT SEPARATE.MDX                        |                 |                |                |                | Checked by           |                    |                   |              |              |                                                                                     |
| Micro Drainage                                     |                 |                |                |                | Network 2014.1.1     |                    |                   |              |              |                                                                                     |
| <u>Network Design Table for Storm - Net 1</u>      |                 |                |                |                |                      |                    |                   |              |              |                                                                                     |
| PN                                                 | Length<br>(m)   | Fall<br>(m)    | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins)       | Base<br>Flow (l/s) | k<br>(mm)         | HYD<br>SECT  | DIA<br>(mm)  | Auto<br>Design                                                                      |
| 8.000                                              | 44.129          | 0.260          | 170.0          | 0.118          | 5.00                 | 0.0                | 0.600             | o            | 225          | ⊗                                                                                   |
| 8.001                                              | 31.817          | 0.468          | 68.0           | 0.046          | 0.00                 | 0.0                | 0.600             | o            | 225          | ⊗                                                                                   |
| 8.002                                              | 33.642          | 0.112          | 300.0          | 0.106          | 0.00                 | 0.0                | 0.600             | o            | 375          | ⊗                                                                                   |
| 8.003                                              | 58.925          | 0.202          | 291.7          | 0.065          | 0.00                 | 0.0                | 0.600             | o            | 450          | ⊗                                                                                   |
| 5.008                                              | 32.690          | 0.082          | 398.7          | 0.000          | 0.00                 | 0.0                | 0.600             | 2 \_ /       | 600          | ⊗                                                                                   |
| 5.009                                              | 17.114          | 0.043          | 398.0          | 0.000          | 0.00                 | 0.0                | 0.600             | o            | 600          | ⊗                                                                                   |
| 5.010                                              | 19.459          | 0.049          | 400.0          | 0.000          | 0.00                 | 0.0                | 0.600             | 2 \_ /       | 600          | ⊗                                                                                   |
| 5.011                                              | 45.631          | 0.115          | 396.8          | 0.000          | 0.00                 | 0.0                | 0.600             | o            | 600          | ⊗                                                                                   |
| 5.012                                              | 15.473          | 0.039          | 396.7          | 0.000          | 0.00                 | 0.0                | 0.600             | 2 \_ /       | 600          | ⊗                                                                                   |
| 5.013                                              | 31.386          | 0.078          | 400.0          | 0.000          | 0.00                 | 0.0                | 0.600             | o            | 600          | ⊗                                                                                   |
| 5.014                                              | 22.833          | 0.060          | 380.6          | 0.000          | 0.00                 | 0.0                | 0.600             | 2 \_ /       | 600          | ⊗                                                                                   |
| 9.000                                              | 50.470          | 0.297          | 170.0          | 0.053          | 5.00                 | 0.0                | 0.600             | o            | 375          | ⊗                                                                                   |
| 9.001                                              | 65.613          | 0.164          | 400.0          | 0.129          | 0.00                 | 0.0                | 0.600             | o            | 450          | ⊗                                                                                   |
| 9.002                                              | 18.651          | 0.565          | 33.0           | 0.169          | 0.00                 | 0.0                | 0.600             | o            | 450          | ⊗                                                                                   |
| 5.015                                              | 81.925          | 0.205          | 399.6          | 0.000          | 0.00                 | 0.0                | 0.600             | 3 \=/        | 600          | ⊗                                                                                   |
| 1.005                                              | 61.657          | 0.154          | 400.4          | 0.000          | 0.00                 | 0.0                | 0.600             | 2 \_ /       | 600          | ⊗                                                                                   |
| 1.006                                              | 16.802          | 0.042          | 400.0          | 0.000          | 0.00                 | 0.0                | 0.600             | 2 \_ /       | 600          | ⊗                                                                                   |
| <u>Network Results Table</u>                       |                 |                |                |                |                      |                    |                   |              |              |                                                                                     |
| PN                                                 | Rain<br>(mm/hr) | T.C.<br>(mins) | US/IL Σ<br>(m) | I.Area<br>(ha) | Σ Base<br>Flow (l/s) | Foul<br>(l/s)      | Add Flow<br>(l/s) | Vel<br>(m/s) | Cap<br>(l/s) | Flow<br>(l/s)                                                                       |
| 8.000                                              | 50.00           | 5.74           | 6.100          | 0.118          | 0.0                  | 0.0                | 1.6               | 1.00         | 39.8         | 17.6                                                                                |
| 8.001                                              | 50.00           | 6.07           | 5.840          | 0.164          | 0.0                  | 0.0                | 2.2               | 1.59         | 63.1         | 24.4                                                                                |
| 8.002                                              | 50.00           | 6.61           | 5.220          | 0.270          | 0.0                  | 0.0                | 3.7               | 1.04         | 115.0        | 40.2                                                                                |
| 8.003                                              | 50.00           | 7.44           | 5.032          | 0.335          | 0.0                  | 0.0                | 4.5               | 1.19         | 188.5        | 49.9                                                                                |
| 5.008                                              | 45.64           | 9.82           | 4.730          | 1.680          | 0.0                  | 0.0                | 20.8              | 1.39         | 498.8        | 228.4                                                                               |
| 5.009                                              | 45.09           | 10.06          | 4.648          | 1.680          | 0.0                  | 0.0                | 20.8              | 1.21         | 343.4        | 228.4                                                                               |
| 5.010                                              | 44.55           | 10.29          | 4.605          | 1.680          | 0.0                  | 0.0                | 20.8              | 1.38         | 498.0        | 228.4                                                                               |
| 5.011                                              | 43.19           | 10.92          | 4.557          | 1.680          | 0.0                  | 0.0                | 20.8              | 1.22         | 343.9        | 228.4                                                                               |
| 5.012                                              | 42.80           | 11.10          | 4.442          | 1.680          | 0.0                  | 0.0                | 20.8              | 1.39         | 500.0        | 228.4                                                                               |
| 5.013                                              | 41.96           | 11.53          | 4.404          | 1.680          | 0.0                  | 0.0                | 20.8              | 1.21         | 342.5        | 228.4                                                                               |
| 5.014                                              | 41.45           | 11.80          | 4.324          | 1.680          | 0.0                  | 0.0                | 20.8              | 1.42         | 510.7        | 228.4                                                                               |
| 9.000                                              | 50.00           | 5.61           | 5.650          | 0.053          | 0.0                  | 0.0                | 0.7               | 1.39         | 153.2        | 7.9                                                                                 |
| 9.001                                              | 50.00           | 6.69           | 5.128          | 0.182          | 0.0                  | 0.0                | 2.5               | 1.01         | 160.7        | 27.1                                                                                |
| 9.002                                              | 50.00           | 6.78           | 4.794          | 0.351          | 0.0                  | 0.0                | 4.8               | 3.55         | 564.4        | 52.3                                                                                |
| 5.015                                              | 40.50           | 12.32          | 4.264          | 2.031          | 0.0                  | 0.0                | 22.3              | 2.61         | 9403.5       | 245.1                                                                               |
| 1.005                                              | 39.24           | 13.07          | 4.059          | 4.071          | 0.0                  | 0.0                | 43.3              | 1.38         | 497.8        | 475.9                                                                               |
| 1.006                                              | 38.92           | 13.27          | 3.905          | 4.071          | 0.0                  | 0.0                | 43.3              | 1.38         | 498.0        | 475.9                                                                               |
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    |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
| <p style="text-align: center;"><u>Network Design Table for Storm - Net 1</u></p> <table><tr><th>PN</th><th>Length<br/>(m)</th><th>Fall<br/>(m)</th><th>Slope<br/>(1:X)</th><th>I.Area<br/>(ha)</th><th>T.E.<br/>(mins)</th><th>Base<br/>Flow (l/s)</th><th>k<br/>(mm)</th><th>HYD<br/>SECT</th><th>DIA<br/>(mm)</th><th>Auto<br/>Design</th></tr><tr><td>1.007</td><td>36.752</td><td>0.092</td><td>399.5</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>600</td><td>⊗</td></tr><tr><td>1.008</td><td>51.305</td><td>0.129</td><td>397.7</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>600</td><td>⊗</td></tr><tr><td>1.009</td><td>30.087</td><td>0.075</td><td>401.2</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>600</td><td>⊗</td></tr><tr><td>1.010</td><td>25.266</td><td>0.064</td><td>394.8</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>600</td><td>⊗</td></tr><tr><td>1.011</td><td>36.109</td><td>0.090</td><td>401.2</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>600</td><td>⊗</td></tr><tr><td>1.012</td><td>17.784</td><td>0.047</td><td>378.4</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>600</td><td>⊗</td></tr></table> <p style="text-align: center;"><u>Network Results Table</u></p> <table><tr><th>PN</th><th>Rain<br/>(mm/hr)</th><th>T.C.<br/>(mins)</th><th>US/IL<br/>(m)</th><th>Σ I.Area<br/>(ha)</th><th>Σ Base<br/>Flow (l/s)</th><th>Foul<br/>(l/s)</th><th>Add Flow<br/>(l/s)</th><th>Vel<br/>(m/s)</th><th>Cap<br/>(l/s)</th><th>Flow<br/>(l/s)</th></tr><tr><td>1.007</td><td>38.13</td><td>13.77</td><td>3.863</td><td>4.071</td><td>0.0</td><td>0.0</td><td>43.3</td><td>1.21</td><td>342.7</td><td>475.9</td></tr><tr><td>1.008</td><td>37.09</td><td>14.48</td><td>3.771</td><td>4.071</td><td>0.0</td><td>0.0</td><td>43.3</td><td>1.21</td><td>343.5</td><td>475.9</td></tr><tr><td>1.009</td><td>36.51</td><td>14.89</td><td>3.642</td><td>4.071</td><td>0.0</td><td>0.0</td><td>43.3</td><td>1.21</td><td>342.0</td><td>475.9</td></tr><tr><td>1.010</td><td>36.04</td><td>15.24</td><td>3.567</td><td>4.071</td><td>0.0</td><td>0.0</td><td>43.3</td><td>1.22</td><td>344.8</td><td>475.9</td></tr><tr><td>1.011</td><td>35.40</td><td>15.74</td><td>3.503</td><td>4.071</td><td>0.0</td><td>0.0</td><td>43.3</td><td>1.21</td><td>342.0</td><td>475.9</td></tr><tr><td>1.012</td><td>35.10</td><td>15.97</td><td>3.413</td><td>4.071</td><td>0.0</td><td>0.0</td><td>43.3</td><td>1.25</td><td>352.3</td><td>475.9</td></tr></table> <p style="text-align: center;"><u>Surcharged Outfall Details for Storm - Net 1</u></p> <table><tr><th>Outfall<br/>Pipe Number</th><th>Outfall<br/>Name</th><th>C. Level<br/>(m)</th><th>I. Level<br/>(m)</th><th>Min<br/>I. Level<br/>(m)</th><th>D,L<br/>(mm)</th><th>W<br/>(mm)</th></tr><tr><td>1.012</td><td>14</td><td>6.100</td><td>3.366</td><td>0.000</td><td>0</td><td>0</td></tr></table> <p style="text-align: center;">Datum (m) 6.100 Offset (mins) 0</p> <table><tr><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th></tr><tr><td>1</td><td>5.600</td><td>17</td><td>5.600</td><td>33</td><td>5.600</td><td>49</td><td>5.600</td><td>65</td><td>5.600</td><td>81</td><td>5.600</td></tr><tr><td>2</td><td>5.600</td><td>18</td><td>5.600</td><td>34</td><td>5.600</td><td>50</td><td>5.600</td><td>66</td><td>5.600</td><td>82</td><td>5.600</td></tr><tr><td>3</td><td>5.600</td><td>19</td><td>5.600</td><td>35</td><td>5.600</td><td>51</td><td>5.600</td><td>67</td><td>5.600</td><td>83</td><td>5.600</td></tr><tr><td>4</td><td>5.600</td><td>20</td><td>5.600</td><td>36</td><td>5.600</td><td>52</td><td>5.600</td><td>68</td><td>5.600</td><td>84</td><td>5.600</td></tr><tr><td>5</td><td>5.600</td><td>21</td><td>5.600</td><td>37</td><td>5.600</td><td>53</td><td>5.600</td><td>69</td><td>5.600</td><td>85</td><td>5.600</td></tr><tr><td>6</td><td>5.600</td><td>22</td><td>5.600</td><td>38</td><td>5.600</td><td>54</td><td>5.600</td><td>70</td><td>5.600</td><td>86</td><td>5.600</td></tr><tr><td>7</td><td>5.600</td><td>23</td><td>5.600</td><td>39</td><td>5.600</td><td>55</td><td>5.600</td><td>71</td><td>5.600</td><td>87</td><td>5.600</td></tr><tr><td>8</td><td>5.600</td><td>24</td><td>5.600</td><td>40</td><td>5.600</td><td>56</td><td>5.600</td><td>72</td><td>5.600</td><td>88</td><td>5.600</td></tr><tr><td>9</td><td>5.600</td><td>25</td><td>5.600</td><td>41</td><td>5.600</td><td>57</td><td>5.600</td><td>73</td><td>5.600</td><td>89</td><td>5.600</td></tr><tr><td>10</td><td>5.600</td><td>26</td><td>5.600</td><td>42</td><td>5.600</td><td>58</td><td>5.600</td><td>74</td><td>5.600</td><td>90</td><td>5.600</td></tr><tr><td>11</td><td>5.600</td><td>27</td><td>5.600</td><td>43</td><td>5.600</td><td>59</td><td>5.600</td><td>75</td><td>5.600</td><td>91</td><td>5.600</td></tr><tr><td>12</td><td>5.600</td><td>28</td><td>5.600</td><td>44</td><td>5.600</td><td>60</td><td>5.600</td><td>76</td><td>5.600</td><td>92</td><td>5.600</td></tr><tr><td>13</td><td>5.600</td><td>29</td><td>5.600</td><td>45</td><td>5.600</td><td>61</td><td>5.600</td><td>77</td><td>5.600</td><td>93</td><td>5.600</td></tr><tr><td>14</td><td>5.600</td><td>30</td><td>5.600</td><td>46</td><td>5.600</td><td>62</td><td>5.600</td><td>78</td><td>5.600</td><td>94</td><td>5.600</td></tr><tr><td>15</td><td>5.600</td><td>31</td><td>5.600</td><td>47</td><td>5.600</td><td>63</td><td>5.600</td><td>79</td><td>5.600</td><td>95</td><td>5.600</td></tr><tr><td>16</td><td>5.600</td><td>32</td><td>5.600</td><td>48</td><td>5.600</td><td>64</td><td>5.600</td><td>80</td><td>5.600</td><td>96</td><td>5.600</td></tr></table> <p style="text-align: center;">©1982-2014 XP Solutions</p> |                 |                 |                 |                        |                      |                    |                   |                |              |                                                                                     | PN           | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Auto<br>Design | 1.007 | 36.752 | 0.092 | 399.5 | 0.000 | 0.00 | 0.0 | 0.600 | o | 600 | ⊗ | 1.008 | 51.305 | 0.129 | 397.7 | 0.000 | 0.00 | 0.0 | 0.600 | o | 600 | ⊗ | 1.009 | 30.087 | 0.075 | 401.2 | 0.000 | 0.00 | 0.0 | 0.600 | o | 600 | ⊗ | 1.010 | 25.266 | 0.064 | 394.8 | 0.000 | 0.00 | 0.0 | 0.600 | o | 600 | ⊗ | 1.011 | 36.109 | 0.090 | 401.2 | 0.000 | 0.00 | 0.0 | 0.600 | o | 600 | ⊗ | 1.012 | 17.784 | 0.047 | 378.4 | 0.000 | 0.00 | 0.0 | 0.600 | o | 600 | ⊗ | PN | Rain<br>(mm/hr) | T.C.<br>(mins) | US/IL<br>(m) | Σ I.Area<br>(ha) | Σ Base<br>Flow (l/s) | Foul<br>(l/s) | Add Flow<br>(l/s) | Vel<br>(m/s) | Cap<br>(l/s) | Flow<br>(l/s) | 1.007 | 38.13 | 13.77 | 3.863 | 4.071 | 0.0 | 0.0 | 43.3 | 1.21 | 342.7 | 475.9 | 1.008 | 37.09 | 14.48 | 3.771 | 4.071 | 0.0 | 0.0 | 43.3 | 1.21 | 343.5 | 475.9 | 1.009 | 36.51 | 14.89 | 3.642 | 4.071 | 0.0 | 0.0 | 43.3 | 1.21 | 342.0 | 475.9 | 1.010 | 36.04 | 15.24 | 3.567 | 4.071 | 0.0 | 0.0 | 43.3 | 1.22 | 344.8 | 475.9 | 1.011 | 35.40 | 15.74 | 3.503 | 4.071 | 0.0 | 0.0 | 43.3 | 1.21 | 342.0 | 475.9 | 1.012 | 35.10 | 15.97 | 3.413 | 4.071 | 0.0 | 0.0 | 43.3 | 1.25 | 352.3 | 475.9 | Outfall<br>Pipe Number | Outfall<br>Name | C. Level<br>(m) | I. Level<br>(m) | Min<br>I. Level<br>(m) | D,L<br>(mm) | W<br>(mm) | 1.012 | 14 | 6.100 | 3.366 | 0.000 | 0 | 0 | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | 1 | 5.600 | 17 | 5.600 | 33 | 5.600 | 49 | 5.600 | 65 | 5.600 | 81 | 5.600 | 2 | 5.600 | 18 | 5.600 | 34 | 5.600 | 50 | 5.600 | 66 | 5.600 | 82 | 5.600 | 3 | 5.600 | 19 | 5.600 | 35 | 5.600 | 51 | 5.600 | 67 | 5.600 | 83 | 5.600 | 4 | 5.600 | 20 | 5.600 | 36 | 5.600 | 52 | 5.600 | 68 | 5.600 | 84 | 5.600 | 5 | 5.600 | 21 | 5.600 | 37 | 5.600 | 53 | 5.600 | 69 | 5.600 | 85 | 5.600 | 6 | 5.600 | 22 | 5.600 | 38 | 5.600 | 54 | 5.600 | 70 | 5.600 | 86 | 5.600 | 7 | 5.600 | 23 | 5.600 | 39 | 5.600 | 55 | 5.600 | 71 | 5.600 | 87 | 5.600 | 8 | 5.600 | 24 | 5.600 | 40 | 5.600 | 56 | 5.600 | 72 | 5.600 | 88 | 5.600 | 9 | 5.600 | 25 | 5.600 | 41 | 5.600 | 57 | 5.600 | 73 | 5.600 | 89 | 5.600 | 10 | 5.600 | 26 | 5.600 | 42 | 5.600 | 58 | 5.600 | 74 | 5.600 | 90 | 5.600 | 11 | 5.600 | 27 | 5.600 | 43 | 5.600 | 59 | 5.600 | 75 | 5.600 | 91 | 5.600 | 12 | 5.600 | 28 | 5.600 | 44 | 5.600 | 60 | 5.600 | 76 | 5.600 | 92 | 5.600 | 13 | 5.600 | 29 | 5.600 | 45 | 5.600 | 61 | 5.600 | 77 | 5.600 | 93 | 5.600 | 14 | 5.600 | 30 | 5.600 | 46 | 5.600 | 62 | 5.600 | 78 | 5.600 | 94 | 5.600 | 15 | 5.600 | 31 | 5.600 | 47 | 5.600 | 63 | 5.600 | 79 | 5.600 | 95 | 5.600 | 16 | 5.600 | 32 | 5.600 | 48 | 5.600 | 64 | 5.600 | 80 | 5.600 | 96 | 5.600 |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Length<br>(m)   | Fall<br>(m)     | Slope<br>(1:X)  | I.Area<br>(ha)         | T.E.<br>(mins)       | Base<br>Flow (l/s) | k<br>(mm)         | HYD<br>SECT    | DIA<br>(mm)  | Auto<br>Design                                                                      |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |                        |                 |                 |                 |                        |             |           |       |    |       |       |       |   |   |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
| 1.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 36.752          | 0.092           | 399.5           | 0.000                  | 0.00                 | 0.0                | 0.600             | o              | 600          | ⊗                                                                                   |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |                        |                 |                 |                 |                        |             |           |       |    |       |       |       |   |   |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
| 1.008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 51.305          | 0.129           | 397.7           | 0.000                  | 0.00                 | 0.0                | 0.600             | o              | 600          | ⊗                                                                                   |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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| 1.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 0.600             | o              | 600          | ⊗                                                                                   |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |                        |                 |                 |                 |                        |             |           |       |    |       |       |       |   |   |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |   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| 1.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 25.266          | 0.064           | 394.8           | 0.000                  | 0.00                 | 0.0                | 0.600             | o              | 600          | ⊗                                                                                   |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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| 1.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 36.109          | 0.090           | 401.2           | 0.000                  | 0.00                 | 0.0                | 0.600             | o              | 600          | ⊗                                                                                   |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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| 1.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 17.784          | 0.047           | 378.4           | 0.000                  | 0.00                 | 0.0                | 0.600             | o              | 600          | ⊗                                                                                   |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Foul<br>(l/s)      | Add Flow<br>(l/s) | Vel<br>(m/s)   | Cap<br>(l/s) | Flow<br>(l/s)                                                                       |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |  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| 1.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 38.13           | 13.77           | 3.863           | 4.071                  | 0.0                  | 0.0                | 43.3              | 1.21           | 342.7        | 475.9                                                                               |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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| 1.008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 37.09           | 14.48           | 3.771           | 4.071                  | 0.0                  | 0.0                | 43.3              | 1.21           | 343.5        | 475.9                                                                               |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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| 1.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 36.51           | 14.89           | 3.642           | 4.071                  | 0.0                  | 0.0                | 43.3              | 1.21           | 342.0        | 475.9                                                                               |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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| 1.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 43.3              | 1.22           | 344.8        | 475.9                                                                               |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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| 1.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 43.3              | 1.21           | 342.0        | 475.9                                                                               |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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| 1.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 35.10           | 15.97           | 3.413           | 4.071                  | 0.0                  | 0.0                | 43.3              | 1.25           | 352.3        | 475.9                                                                               |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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| Outfall<br>Pipe Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Level<br>(m) | D,L<br>(mm)          | W<br>(mm)          |                   |                |              |                                                                                     |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |                        |                 |                 |                 |                        |             |           |       |    |       |       |       |   |   |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
| 1.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14              | 6.100           | 3.366           | 0.000                  | 0                    | 0                  |                   |                |              |                                                                                     |              |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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| Time<br>(mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Time<br>(mins)     | Depth<br>(m)      | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 17              | 5.600           | 33                     | 5.600                | 49                 | 5.600             | 65             | 5.600        | 81                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 18              | 5.600           | 34                     | 5.600                | 50                 | 5.600             | 66             | 5.600        | 82                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 19              | 5.600           | 35                     | 5.600                | 51                 | 5.600             | 67             | 5.600        | 83                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 20              | 5.600           | 36                     | 5.600                | 52                 | 5.600             | 68             | 5.600        | 84                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |                        |                 |                 |                 |                        |             |           |       |    |       |       |       |   |   |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 21              | 5.600           | 37                     | 5.600                | 53                 | 5.600             | 69             | 5.600        | 85                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 22              | 5.600           | 38                     | 5.600                | 54                 | 5.600             | 70             | 5.600        | 86                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 23              | 5.600           | 39                     | 5.600                | 55                 | 5.600             | 71             | 5.600        | 87                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |                        |                 |                 |                 |                        |             |           |       |    |       |       |       |   |   |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 24              | 5.600           | 40                     | 5.600                | 56                 | 5.600             | 72             | 5.600        | 88                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 25              | 5.600           | 41                     | 5.600                | 57                 | 5.600             | 73             | 5.600        | 89                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 26              | 5.600           | 42                     | 5.600                | 58                 | 5.600             | 74             | 5.600        | 90                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |                        |                 |                 |                 |                        |             |           |       |    |       |       |       |   |   |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 27              | 5.600           | 43                     | 5.600                | 59                 | 5.600             | 75             | 5.600        | 91                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 28              | 5.600           | 44                     | 5.600                | 60                 | 5.600             | 76             | 5.600        | 92                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 29              | 5.600           | 45                     | 5.600                | 61                 | 5.600             | 77             | 5.600        | 93                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 30              | 5.600           | 46                     | 5.600                | 62                 | 5.600             | 78             | 5.600        | 94                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.600           | 31              | 5.600           | 47                     | 5.600                | 63                 | 5.600             | 79             | 5.600        | 95                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |                        |                 |                 |                 |                        |             |           |       |    |       |       |       |   |   |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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       | 5.600             | 80             | 5.600        | 96                                                                                  | 5.600        |               |             |                |                |                |                    |           |             |             |                |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |       |        |       |       |       |      |     |       |   |     |   |    |                 |                |              |                  |                      |               |                   |              |              |               |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |       |       |       |       |       |     |     |      |      |       |       |                        |                 |                 |                 |                        |             |           |       |    |       |       |       |   |   |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |   |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | 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|                                                    |              |                |                  |                |              |                                                                                     |
|----------------------------------------------------|--------------|----------------|------------------|----------------|--------------|-------------------------------------------------------------------------------------|
| Rogers Cory Ptn Ltd                                |              |                |                  |                |              | Page 4                                                                              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |              |                |                  |                |              |  |
| Date 01/01/0001                                    |              |                | Designed by Tim  |                |              |                                                                                     |
| File SW1-STRAT SEPARATE.MDX                        |              |                | Checked by       |                |              |                                                                                     |
| Micro Drainage                                     |              |                | Network 2014.1.1 |                |              |                                                                                     |
| Surcharged Outfall Details for Storm - Net 1       |              |                |                  |                |              |                                                                                     |
| Time<br>(mins)                                     | Depth<br>(m) | Time<br>(mins) | Depth<br>(m)     | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      |
| 97                                                 | 5.600        | 147            | 5.600            | 197            | 5.600        | 247                                                                                 |
| 98                                                 | 5.600        | 148            | 5.600            | 198            | 5.600        | 248                                                                                 |
| 99                                                 | 5.600        | 149            | 5.600            | 199            | 5.600        | 249                                                                                 |
| 100                                                | 5.600        | 150            | 5.600            | 200            | 5.600        | 250                                                                                 |
| 101                                                | 5.600        | 151            | 5.600            | 201            | 5.600        | 251                                                                                 |
| 102                                                | 5.600        | 152            | 5.600            | 202            | 5.600        | 252                                                                                 |
| 103                                                | 5.600        | 153            | 5.600            | 203            | 5.600        | 253                                                                                 |
| 104                                                | 5.600        | 154            | 5.600            | 204            | 5.600        | 254                                                                                 |
| 105                                                | 5.600        | 155            | 5.600            | 205            | 5.600        | 255                                                                                 |
| 106                                                | 5.600        | 156            | 5.600            | 206            | 5.600        | 256                                                                                 |
| 107                                                | 5.600        | 157            | 5.600            | 207            | 5.600        | 257                                                                                 |
| 108                                                | 5.600        | 158            | 5.600            | 208            | 5.600        | 258                                                                                 |
| 109                                                | 5.600        | 159            | 5.600            | 209            | 5.600        | 259                                                                                 |
| 110                                                | 5.600        | 160            | 5.600            | 210            | 5.600        | 260                                                                                 |
| 111                                                | 5.600        | 161            | 5.600            | 211            | 5.600        | 261                                                                                 |
| 112                                                | 5.600        | 162            | 5.600            | 212            | 5.600        | 262                                                                                 |
| 113                                                | 5.600        | 163            | 5.600            | 213            | 5.600        | 263                                                                                 |
| 114                                                | 5.600        | 164            | 5.600            | 214            | 5.600        | 264                                                                                 |
| 115                                                | 5.600        | 165            | 5.600            | 215            | 5.600        | 265                                                                                 |
| 116                                                | 5.600        | 166            | 5.600            | 216            | 5.600        | 266                                                                                 |
| 117                                                | 5.600        | 167            | 5.600            | 217            | 5.600        | 267                                                                                 |
| 118                                                | 5.600        | 168            | 5.600            | 218            | 5.600        | 268                                                                                 |
| 119                                                | 5.600        | 169            | 5.600            | 219            | 5.600        | 269                                                                                 |
| 120                                                | 5.600        | 170            | 5.600            | 220            | 5.600        | 270                                                                                 |
| 121                                                | 5.600        | 171            | 5.600            | 221            | 5.600        | 271                                                                                 |
| 122                                                | 5.600        | 172            | 5.600            | 222            | 5.600        | 272                                                                                 |
| 123                                                | 5.600        | 173            | 5.600            | 223            | 5.600        | 273                                                                                 |
| 124                                                | 5.600        | 174            | 5.600            | 224            | 5.600        | 274                                                                                 |
| 125                                                | 5.600        | 175            | 5.600            | 225            | 5.600        | 275                                                                                 |
| 126                                                | 5.600        | 176            | 5.600            | 226            | 5.600        | 276                                                                                 |
| 127                                                | 5.600        | 177            | 5.600            | 227            | 5.600        | 277                                                                                 |
| 128                                                | 5.600        | 178            | 5.600            | 228            | 5.600        | 278                                                                                 |
| 129                                                | 5.600        | 179            | 5.600            | 229            | 5.600        | 279                                                                                 |
| 130                                                | 5.600        | 180            | 5.600            | 230            | 5.600        | 280                                                                                 |
| 131                                                | 5.600        | 181            | 5.600            | 231            | 5.600        | 281                                                                                 |
| 132                                                | 5.600        | 182            | 5.600            | 232            | 5.600        | 282                                                                                 |
| 133                                                | 5.600        | 183            | 5.600            | 233            | 5.600        | 283                                                                                 |
| 134                                                | 5.600        | 184            | 5.600            | 234            | 5.600        | 284                                                                                 |
| 135                                                | 5.600        | 185            | 5.600            | 235            | 5.600        | 285                                                                                 |
| 136                                                | 5.600        | 186            | 5.600            | 236            | 5.600        | 286                                                                                 |
| 137                                                | 5.600        | 187            | 5.600            | 237            | 5.600        | 287                                                                                 |
| 138                                                | 5.600        | 188            | 5.600            | 238            | 5.600        | 288                                                                                 |
| 139                                                | 5.600        | 189            | 5.600            | 239            | 5.600        | 289                                                                                 |
| 140                                                | 5.600        | 190            | 5.600            | 240            | 5.600        | 290                                                                                 |
| 141                                                | 5.600        | 191            | 5.600            | 241            | 5.600        | 291                                                                                 |
| 142                                                | 5.600        | 192            | 5.600            | 242            | 5.600        | 292                                                                                 |
| 143                                                | 5.600        | 193            | 5.600            | 243            | 5.600        | 293                                                                                 |
| 144                                                | 5.600        | 194            | 5.600            | 244            | 5.600        | 294                                                                                 |
| 145                                                | 5.600        | 195            | 5.600            | 245            | 5.600        | 295                                                                                 |
| 146                                                | 5.600        | 196            | 5.600            | 246            | 5.600        | 296                                                                                 |
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|                                                    |              |                |              |                |                  |                |              |                |              |                                                                                     |              |
|----------------------------------------------------|--------------|----------------|--------------|----------------|------------------|----------------|--------------|----------------|--------------|-------------------------------------------------------------------------------------|--------------|
| Rogers Cory Ptn Ltd                                |              |                |              |                |                  |                |              |                |              | Page 5                                                                              |              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |              |                |              |                |                  |                |              |                |              |  |              |
| Date 01/01/0001                                    |              |                |              |                | Designed by Tim  |                |              |                |              |                                                                                     |              |
| File SW1-STRAT SEPARATE.MDX                        |              |                |              |                | Checked by       |                |              |                |              |                                                                                     |              |
| Micro Drainage                                     |              |                |              |                | Network 2014.1.1 |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm - Net 1       |              |                |              |                |                  |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                     | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m)     | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 397                                                | 5.600        | 447            | 5.600        | 497            | 5.600            | 547            | 5.600        | 597            | 5.600        | 647                                                                                 | 5.600        |
| 398                                                | 5.600        | 448            | 5.600        | 498            | 5.600            | 548            | 5.600        | 598            | 5.600        | 648                                                                                 | 5.600        |
| 399                                                | 5.600        | 449            | 5.600        | 499            | 5.600            | 549            | 5.600        | 599            | 5.600        | 649                                                                                 | 5.600        |
| 400                                                | 5.600        | 450            | 5.600        | 500            | 5.600            | 550            | 5.600        | 600            | 5.600        | 650                                                                                 | 5.600        |
| 401                                                | 5.600        | 451            | 5.600        | 501            | 5.600            | 551            | 5.600        | 601            | 5.600        | 651                                                                                 | 5.600        |
| 402                                                | 5.600        | 452            | 5.600        | 502            | 5.600            | 552            | 5.600        | 602            | 5.600        | 652                                                                                 | 5.600        |
| 403                                                | 5.600        | 453            | 5.600        | 503            | 5.600            | 553            | 5.600        | 603            | 5.600        | 653                                                                                 | 5.600        |
| 404                                                | 5.600        | 454            | 5.600        | 504            | 5.600            | 554            | 5.600        | 604            | 5.600        | 654                                                                                 | 5.600        |
| 405                                                | 5.600        | 455            | 5.600        | 505            | 5.600            | 555            | 5.600        | 605            | 5.600        | 655                                                                                 | 5.600        |
| 406                                                | 5.600        | 456            | 5.600        | 506            | 5.600            | 556            | 5.600        | 606            | 5.600        | 656                                                                                 | 5.600        |
| 407                                                | 5.600        | 457            | 5.600        | 507            | 5.600            | 557            | 5.600        | 607            | 5.600        | 657                                                                                 | 5.600        |
| 408                                                | 5.600        | 458            | 5.600        | 508            | 5.600            | 558            | 5.600        | 608            | 5.600        | 658                                                                                 | 5.600        |
| 409                                                | 5.600        | 459            | 5.600        | 509            | 5.600            | 559            | 5.600        | 609            | 5.600        | 659                                                                                 | 5.600        |
| 410                                                | 5.600        | 460            | 5.600        | 510            | 5.600            | 560            | 5.600        | 610            | 5.600        | 660                                                                                 | 5.600        |
| 411                                                | 5.600        | 461            | 5.600        | 511            | 5.600            | 561            | 5.600        | 611            | 5.600        | 661                                                                                 | 5.600        |
| 412                                                | 5.600        | 462            | 5.600        | 512            | 5.600            | 562            | 5.600        | 612            | 5.600        | 662                                                                                 | 5.600        |
| 413                                                | 5.600        | 463            | 5.600        | 513            | 5.600            | 563            | 5.600        | 613            | 5.600        | 663                                                                                 | 5.600        |
| 414                                                | 5.600        | 464            | 5.600        | 514            | 5.600            | 564            | 5.600        | 614            | 5.600        | 664                                                                                 | 5.600        |
| 415                                                | 5.600        | 465            | 5.600        | 515            | 5.600            | 565            | 5.600        | 615            | 5.600        | 665                                                                                 | 5.600        |
| 416                                                | 5.600        | 466            | 5.600        | 516            | 5.600            | 566            | 5.600        | 616            | 5.600        | 666                                                                                 | 5.600        |
| 417                                                | 5.600        | 467            | 5.600        | 517            | 5.600            | 567            | 5.600        | 617            | 5.600        | 667                                                                                 | 5.600        |
| 418                                                | 5.600        | 468            | 5.600        | 518            | 5.600            | 568            | 5.600        | 618            | 5.600        | 668                                                                                 | 5.600        |
| 419                                                | 5.600        | 469            | 5.600        | 519            | 5.600            | 569            | 5.600        | 619            | 5.600        | 669                                                                                 | 5.600        |
| 420                                                | 5.600        | 470            | 5.600        | 520            | 5.600            | 570            | 5.600        | 620            | 5.600        | 670                                                                                 | 5.600        |
| 421                                                | 5.600        | 471            | 5.600        | 521            | 5.600            | 571            | 5.600        | 621            | 5.600        | 671                                                                                 | 5.600        |
| 422                                                | 5.600        | 472            | 5.600        | 522            | 5.600            | 572            | 5.600        | 622            | 5.600        | 672                                                                                 | 5.600        |
| 423                                                | 5.600        | 473            | 5.600        | 523            | 5.600            | 573            | 5.600        | 623            | 5.600        | 673                                                                                 | 5.600        |
| 424                                                | 5.600        | 474            | 5.600        | 524            | 5.600            | 574            | 5.600        | 624            | 5.600        | 674                                                                                 | 5.600        |
| 425                                                | 5.600        | 475            | 5.600        | 525            | 5.600            | 575            | 5.600        | 625            | 5.600        | 675                                                                                 | 5.600        |
| 426                                                | 5.600        | 476            | 5.600        | 526            | 5.600            | 576            | 5.600        | 626            | 5.600        | 676                                                                                 | 5.600        |
| 427                                                | 5.600        | 477            | 5.600        | 527            | 5.600            | 577            | 5.600        | 627            | 5.600        | 677                                                                                 | 5.600        |
| 428                                                | 5.600        | 478            | 5.600        | 528            | 5.600            | 578            | 5.600        | 628            | 5.600        | 678                                                                                 | 5.600        |
| 429                                                | 5.600        | 479            | 5.600        | 529            | 5.600            | 579            | 5.600        | 629            | 5.600        | 679                                                                                 | 5.600        |
| 430                                                | 5.600        | 480            | 5.600        | 530            | 5.600            | 580            | 5.600        | 630            | 5.600        | 680                                                                                 | 5.600        |
| 431                                                | 5.600        | 481            | 5.600        | 531            | 5.600            | 581            | 5.600        | 631            | 5.600        | 681                                                                                 | 5.600        |
| 432                                                | 5.600        | 482            | 5.600        | 532            | 5.600            | 582            | 5.600        | 632            | 5.600        | 682                                                                                 | 5.600        |
| 433                                                | 5.600        | 483            | 5.600        | 533            | 5.600            | 583            | 5.600        | 633            | 5.600        | 683                                                                                 | 5.600        |
| 434                                                | 5.600        | 484            | 5.600        | 534            | 5.600            | 584            | 5.600        | 634            | 5.600        | 684                                                                                 | 5.600        |
| 435                                                | 5.600        | 485            | 5.600        | 535            | 5.600            | 585            | 5.600        | 635            | 5.600        | 685                                                                                 | 5.600        |
| 436                                                | 5.600        | 486            | 5.600        | 536            | 5.600            | 586            | 5.600        | 636            | 5.600        | 686                                                                                 | 5.600        |
| 437                                                | 5.600        | 487            | 5.600        | 537            | 5.600            | 587            | 5.600        | 637            | 5.600        | 687                                                                                 | 5.600        |
| 438                                                | 5.600        | 488            | 5.600        | 538            | 5.600            | 588            | 5.600        | 638            | 5.600        | 688                                                                                 | 5.600        |
| 439                                                | 5.600        | 489            | 5.600        | 539            | 5.600            | 589            | 5.600        | 639            | 5.600        | 689                                                                                 | 5.600        |
| 440                                                | 5.600        | 490            | 5.600        | 540            | 5.600            | 590            | 5.600        | 640            | 5.600        | 690                                                                                 | 5.600        |
| 441                                                | 5.600        | 491            | 5.600        | 541            | 5.600            | 591            | 5.600        | 641            | 5.600        | 691                                                                                 | 5.600        |
| 442                                                | 5.600        | 492            | 5.600        | 542            | 5.600            | 592            | 5.600        | 642            | 5.600        | 692                                                                                 | 5.600        |
| 443                                                | 5.600        | 493            | 5.600        | 543            | 5.600            | 593            | 5.600        | 643            | 5.600        | 693                                                                                 | 5.600        |
| 444                                                | 5.600        | 494            | 5.600        | 544            | 5.600            | 594            | 5.600        | 644            | 5.600        | 694                                                                                 | 5.600        |
| 445                                                | 5.600        | 495            | 5.600        | 545            | 5.600            | 595            | 5.600        | 645            | 5.600        | 695                                                                                 | 5.600        |
| 446                                                | 5.600        | 496            | 5.600        | 546            | 5.600            | 596            | 5.600        | 646            | 5.600        | 696                                                                                 | 5.600        |
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|                                                    |              |                |              |                |                  |                |              |                |              |                                                                                     |              |
|----------------------------------------------------|--------------|----------------|--------------|----------------|------------------|----------------|--------------|----------------|--------------|-------------------------------------------------------------------------------------|--------------|
| Rogers Cory Ptn Ltd                                |              |                |              |                |                  |                |              |                |              | Page 6                                                                              |              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |              |                |              |                |                  |                |              |                |              |  |              |
| Date 01/01/0001                                    |              |                |              |                | Designed by Tim  |                |              |                |              |                                                                                     |              |
| File SW1-STRAT SEPARATE.MDX                        |              |                |              |                | Checked by       |                |              |                |              |                                                                                     |              |
| Micro Drainage                                     |              |                |              |                | Network 2014.1.1 |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm - Net 1       |              |                |              |                |                  |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                     | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m)     | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 697                                                | 5.600        | 747            | 5.600        | 797            | 5.600            | 847            | 5.600        | 897            | 5.600        | 947                                                                                 | 5.600        |
| 698                                                | 5.600        | 748            | 5.600        | 798            | 5.600            | 848            | 5.600        | 898            | 5.600        | 948                                                                                 | 5.600        |
| 699                                                | 5.600        | 749            | 5.600        | 799            | 5.600            | 849            | 5.600        | 899            | 5.600        | 949                                                                                 | 5.600        |
| 700                                                | 5.600        | 750            | 5.600        | 800            | 5.600            | 850            | 5.600        | 900            | 5.600        | 950                                                                                 | 5.600        |
| 701                                                | 5.600        | 751            | 5.600        | 801            | 5.600            | 851            | 5.600        | 901            | 5.600        | 951                                                                                 | 5.600        |
| 702                                                | 5.600        | 752            | 5.600        | 802            | 5.600            | 852            | 5.600        | 902            | 5.600        | 952                                                                                 | 5.600        |
| 703                                                | 5.600        | 753            | 5.600        | 803            | 5.600            | 853            | 5.600        | 903            | 5.600        | 953                                                                                 | 5.600        |
| 704                                                | 5.600        | 754            | 5.600        | 804            | 5.600            | 854            | 5.600        | 904            | 5.600        | 954                                                                                 | 5.600        |
| 705                                                | 5.600        | 755            | 5.600        | 805            | 5.600            | 855            | 5.600        | 905            | 5.600        | 955                                                                                 | 5.600        |
| 706                                                | 5.600        | 756            | 5.600        | 806            | 5.600            | 856            | 5.600        | 906            | 5.600        | 956                                                                                 | 5.600        |
| 707                                                | 5.600        | 757            | 5.600        | 807            | 5.600            | 857            | 5.600        | 907            | 5.600        | 957                                                                                 | 5.600        |
| 708                                                | 5.600        | 758            | 5.600        | 808            | 5.600            | 858            | 5.600        | 908            | 5.600        | 958                                                                                 | 5.600        |
| 709                                                | 5.600        | 759            | 5.600        | 809            | 5.600            | 859            | 5.600        | 909            | 5.600        | 959                                                                                 | 5.600        |
| 710                                                | 5.600        | 760            | 5.600        | 810            | 5.600            | 860            | 5.600        | 910            | 5.600        | 960                                                                                 | 5.600        |
| 711                                                | 5.600        | 761            | 5.600        | 811            | 5.600            | 861            | 5.600        | 911            | 5.600        | 961                                                                                 | 5.600        |
| 712                                                | 5.600        | 762            | 5.600        | 812            | 5.600            | 862            | 5.600        | 912            | 5.600        | 962                                                                                 | 5.600        |
| 713                                                | 5.600        | 763            | 5.600        | 813            | 5.600            | 863            | 5.600        | 913            | 5.600        | 963                                                                                 | 5.600        |
| 714                                                | 5.600        | 764            | 5.600        | 814            | 5.600            | 864            | 5.600        | 914            | 5.600        | 964                                                                                 | 5.600        |
| 715                                                | 5.600        | 765            | 5.600        | 815            | 5.600            | 865            | 5.600        | 915            | 5.600        | 965                                                                                 | 5.600        |
| 716                                                | 5.600        | 766            | 5.600        | 816            | 5.600            | 866            | 5.600        | 916            | 5.600        | 966                                                                                 | 5.600        |
| 717                                                | 5.600        | 767            | 5.600        | 817            | 5.600            | 867            | 5.600        | 917            | 5.600        | 967                                                                                 | 5.600        |
| 718                                                | 5.600        | 768            | 5.600        | 818            | 5.600            | 868            | 5.600        | 918            | 5.600        | 968                                                                                 | 5.600        |
| 719                                                | 5.600        | 769            | 5.600        | 819            | 5.600            | 869            | 5.600        | 919            | 5.600        | 969                                                                                 | 5.600        |
| 720                                                | 5.600        | 770            | 5.600        | 820            | 5.600            | 870            | 5.600        | 920            | 5.600        | 970                                                                                 | 5.600        |
| 721                                                | 5.600        | 771            | 5.600        | 821            | 5.600            | 871            | 5.600        | 921            | 5.600        | 971                                                                                 | 5.600        |
| 722                                                | 5.600        | 772            | 5.600        | 822            | 5.600            | 872            | 5.600        | 922            | 5.600        | 972                                                                                 | 5.600        |
| 723                                                | 5.600        | 773            | 5.600        | 823            | 5.600            | 873            | 5.600        | 923            | 5.600        | 973                                                                                 | 5.600        |
| 724                                                | 5.600        | 774            | 5.600        | 824            | 5.600            | 874            | 5.600        | 924            | 5.600        | 974                                                                                 | 5.600        |
| 725                                                | 5.600        | 775            | 5.600        | 825            | 5.600            | 875            | 5.600        | 925            | 5.600        | 975                                                                                 | 5.600        |
| 726                                                | 5.600        | 776            | 5.600        | 826            | 5.600            | 876            | 5.600        | 926            | 5.600        | 976                                                                                 | 5.600        |
| 727                                                | 5.600        | 777            | 5.600        | 827            | 5.600            | 877            | 5.600        | 927            | 5.600        | 977                                                                                 | 5.600        |
| 728                                                | 5.600        | 778            | 5.600        | 828            | 5.600            | 878            | 5.600        | 928            | 5.600        | 978                                                                                 | 5.600        |
| 729                                                | 5.600        | 779            | 5.600        | 829            | 5.600            | 879            | 5.600        | 929            | 5.600        | 979                                                                                 | 5.600        |
| 730                                                | 5.600        | 780            | 5.600        | 830            | 5.600            | 880            | 5.600        | 930            | 5.600        | 980                                                                                 | 5.600        |
| 731                                                | 5.600        | 781            | 5.600        | 831            | 5.600            | 881            | 5.600        | 931            | 5.600        | 981                                                                                 | 5.600        |
| 732                                                | 5.600        | 782            | 5.600        | 832            | 5.600            | 882            | 5.600        | 932            | 5.600        | 982                                                                                 | 5.600        |
| 733                                                | 5.600        | 783            | 5.600        | 833            | 5.600            | 883            | 5.600        | 933            | 5.600        | 983                                                                                 | 5.600        |
| 734                                                | 5.600        | 784            | 5.600        | 834            | 5.600            | 884            | 5.600        | 934            | 5.600        | 984                                                                                 | 5.600        |
| 735                                                | 5.600        | 785            | 5.600        | 835            | 5.600            | 885            | 5.600        | 935            | 5.600        | 985                                                                                 | 5.600        |
| 736                                                | 5.600        | 786            | 5.600        | 836            | 5.600            | 886            | 5.600        | 936            | 5.600        | 986                                                                                 | 5.600        |
| 737                                                | 5.600        | 787            | 5.600        | 837            | 5.600            | 887            | 5.600        | 937            | 5.600        | 987                                                                                 | 5.600        |
| 738                                                | 5.600        | 788            | 5.600        | 838            | 5.600            | 888            | 5.600        | 938            | 5.600        | 988                                                                                 | 5.600        |
| 739                                                | 5.600        | 789            | 5.600        | 839            | 5.600            | 889            | 5.600        | 939            | 5.600        | 989                                                                                 | 5.600        |
| 740                                                | 5.600        | 790            | 5.600        | 840            | 5.600            | 890            | 5.600        | 940            | 5.600        | 990                                                                                 | 5.600        |
| 741                                                | 5.600        | 791            | 5.600        | 841            | 5.600            | 891            | 5.600        | 941            | 5.600        | 991                                                                                 | 5.600        |
| 742                                                | 5.600        | 792            | 5.600        | 842            | 5.600            | 892            | 5.600        | 942            | 5.600        | 992                                                                                 | 5.600        |
| 743                                                | 5.600        | 793            | 5.600        | 843            | 5.600            | 893            | 5.600        | 943            | 5.600        | 993                                                                                 | 5.600        |
| 744                                                | 5.600        | 794            | 5.600        | 844            | 5.600            | 894            | 5.600        | 944            | 5.600        | 994                                                                                 | 5.600        |
| 745                                                | 5.600        | 795            | 5.600        | 845            | 5.600            | 895            | 5.600        | 945            | 5.600        | 995                                                                                 | 5.600        |
| 746                                                | 5.600        | 796            | 5.600        | 846            | 5.600            | 896            | 5.600        | 946            | 5.600        | 996                                                                                 | 5.600        |
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|                                                    |              |                |              |                  |              |                |              |                |              |                                                                                     |              |
|----------------------------------------------------|--------------|----------------|--------------|------------------|--------------|----------------|--------------|----------------|--------------|-------------------------------------------------------------------------------------|--------------|
| Rogers Cory Ptn Ltd                                |              |                |              |                  |              |                |              |                |              | Page 7                                                                              |              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |              |                |              |                  |              |                |              |                |              |  |              |
| Date 01/01/0001                                    |              |                |              | Designed by Tim  |              |                |              |                |              |                                                                                     |              |
| File SW1-STRAT SEPARATE.MDX                        |              |                |              | Checked by       |              |                |              |                |              |                                                                                     |              |
| Micro Drainage                                     |              |                |              | Network 2014.1.1 |              |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm - Net 1       |              |                |              |                  |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                     | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)   | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 997                                                | 5.600        | 1047           | 5.600        | 1097             | 5.600        | 1147           | 5.600        | 1197           | 5.600        | 1247                                                                                | 5.600        |
| 998                                                | 5.600        | 1048           | 5.600        | 1098             | 5.600        | 1148           | 5.600        | 1198           | 5.600        | 1248                                                                                | 5.600        |
| 999                                                | 5.600        | 1049           | 5.600        | 1099             | 5.600        | 1149           | 5.600        | 1199           | 5.600        | 1249                                                                                | 5.600        |
| 1000                                               | 5.600        | 1050           | 5.600        | 1100             | 5.600        | 1150           | 5.600        | 1200           | 5.600        | 1250                                                                                | 5.600        |
| 1001                                               | 5.600        | 1051           | 5.600        | 1101             | 5.600        | 1151           | 5.600        | 1201           | 5.600        | 1251                                                                                | 5.600        |
| 1002                                               | 5.600        | 1052           | 5.600        | 1102             | 5.600        | 1152           | 5.600        | 1202           | 5.600        | 1252                                                                                | 5.600        |
| 1003                                               | 5.600        | 1053           | 5.600        | 1103             | 5.600        | 1153           | 5.600        | 1203           | 5.600        | 1253                                                                                | 5.600        |
| 1004                                               | 5.600        | 1054           | 5.600        | 1104             | 5.600        | 1154           | 5.600        | 1204           | 5.600        | 1254                                                                                | 5.600        |
| 1005                                               | 5.600        | 1055           | 5.600        | 1105             | 5.600        | 1155           | 5.600        | 1205           | 5.600        | 1255                                                                                | 5.600        |
| 1006                                               | 5.600        | 1056           | 5.600        | 1106             | 5.600        | 1156           | 5.600        | 1206           | 5.600        | 1256                                                                                | 5.600        |
| 1007                                               | 5.600        | 1057           | 5.600        | 1107             | 5.600        | 1157           | 5.600        | 1207           | 5.600        | 1257                                                                                | 5.600        |
| 1008                                               | 5.600        | 1058           | 5.600        | 1108             | 5.600        | 1158           | 5.600        | 1208           | 5.600        | 1258                                                                                | 5.600        |
| 1009                                               | 5.600        | 1059           | 5.600        | 1109             | 5.600        | 1159           | 5.600        | 1209           | 5.600        | 1259                                                                                | 5.600        |
| 1010                                               | 5.600        | 1060           | 5.600        | 1110             | 5.600        | 1160           | 5.600        | 1210           | 5.600        | 1260                                                                                | 5.600        |
| 1011                                               | 5.600        | 1061           | 5.600        | 1111             | 5.600        | 1161           | 5.600        | 1211           | 5.600        | 1261                                                                                | 5.600        |
| 1012                                               | 5.600        | 1062           | 5.600        | 1112             | 5.600        | 1162           | 5.600        | 1212           | 5.600        | 1262                                                                                | 5.600        |
| 1013                                               | 5.600        | 1063           | 5.600        | 1113             | 5.600        | 1163           | 5.600        | 1213           | 5.600        | 1263                                                                                | 5.600        |
| 1014                                               | 5.600        | 1064           | 5.600        | 1114             | 5.600        | 1164           | 5.600        | 1214           | 5.600        | 1264                                                                                | 5.600        |
| 1015                                               | 5.600        | 1065           | 5.600        | 1115             | 5.600        | 1165           | 5.600        | 1215           | 5.600        | 1265                                                                                | 5.600        |
| 1016                                               | 5.600        | 1066           | 5.600        | 1116             | 5.600        | 1166           | 5.600        | 1216           | 5.600        | 1266                                                                                | 5.600        |
| 1017                                               | 5.600        | 1067           | 5.600        | 1117             | 5.600        | 1167           | 5.600        | 1217           | 5.600        | 1267                                                                                | 5.600        |
| 1018                                               | 5.600        | 1068           | 5.600        | 1118             | 5.600        | 1168           | 5.600        | 1218           | 5.600        | 1268                                                                                | 5.600        |
| 1019                                               | 5.600        | 1069           | 5.600        | 1119             | 5.600        | 1169           | 5.600        | 1219           | 5.600        | 1269                                                                                | 5.600        |
| 1020                                               | 5.600        | 1070           | 5.600        | 1120             | 5.600        | 1170           | 5.600        | 1220           | 5.600        | 1270                                                                                | 5.600        |
| 1021                                               | 5.600        | 1071           | 5.600        | 1121             | 5.600        | 1171           | 5.600        | 1221           | 5.600        | 1271                                                                                | 5.600        |
| 1022                                               | 5.600        | 1072           | 5.600        | 1122             | 5.600        | 1172           | 5.600        | 1222           | 5.600        | 1272                                                                                | 5.600        |
| 1023                                               | 5.600        | 1073           | 5.600        | 1123             | 5.600        | 1173           | 5.600        | 1223           | 5.600        | 1273                                                                                | 5.600        |
| 1024                                               | 5.600        | 1074           | 5.600        | 1124             | 5.600        | 1174           | 5.600        | 1224           | 5.600        | 1274                                                                                | 5.600        |
| 1025                                               | 5.600        | 1075           | 5.600        | 1125             | 5.600        | 1175           | 5.600        | 1225           | 5.600        | 1275                                                                                | 5.600        |
| 1026                                               | 5.600        | 1076           | 5.600        | 1126             | 5.600        | 1176           | 5.600        | 1226           | 5.600        | 1276                                                                                | 5.600        |
| 1027                                               | 5.600        | 1077           | 5.600        | 1127             | 5.600        | 1177           | 5.600        | 1227           | 5.600        | 1277                                                                                | 5.600        |
| 1028                                               | 5.600        | 1078           | 5.600        | 1128             | 5.600        | 1178           | 5.600        | 1228           | 5.600        | 1278                                                                                | 5.600        |
| 1029                                               | 5.600        | 1079           | 5.600        | 1129             | 5.600        | 1179           | 5.600        | 1229           | 5.600        | 1279                                                                                | 5.600        |
| 1030                                               | 5.600        | 1080           | 5.600        | 1130             | 5.600        | 1180           | 5.600        | 1230           | 5.600        | 1280                                                                                | 5.600        |
| 1031                                               | 5.600        | 1081           | 5.600        | 1131             | 5.600        | 1181           | 5.600        | 1231           | 5.600        | 1281                                                                                | 5.600        |
| 1032                                               | 5.600        | 1082           | 5.600        | 1132             | 5.600        | 1182           | 5.600        | 1232           | 5.600        | 1282                                                                                | 5.600        |
| 1033                                               | 5.600        | 1083           | 5.600        | 1133             | 5.600        | 1183           | 5.600        | 1233           | 5.600        | 1283                                                                                | 5.600        |
| 1034                                               | 5.600        | 1084           | 5.600        | 1134             | 5.600        | 1184           | 5.600        | 1234           | 5.600        | 1284                                                                                | 5.600        |
| 1035                                               | 5.600        | 1085           | 5.600        | 1135             | 5.600        | 1185           | 5.600        | 1235           | 5.600        | 1285                                                                                | 5.600        |
| 1036                                               | 5.600        | 1086           | 5.600        | 1136             | 5.600        | 1186           | 5.600        | 1236           | 5.600        | 1286                                                                                | 5.600        |
| 1037                                               | 5.600        | 1087           | 5.600        | 1137             | 5.600        | 1187           | 5.600        | 1237           | 5.600        | 1287                                                                                | 5.600        |
| 1038                                               | 5.600        | 1088           | 5.600        | 1138             | 5.600        | 1188           | 5.600        | 1238           | 5.600        | 1288                                                                                | 5.600        |
| 1039                                               | 5.600        | 1089           | 5.600        | 1139             | 5.600        | 1189           | 5.600        | 1239           | 5.600        | 1289                                                                                | 5.600        |
| 1040                                               | 5.600        | 1090           | 5.600        | 1140             | 5.600        | 1190           | 5.600        | 1240           | 5.600        | 1290                                                                                | 5.600        |
| 1041                                               | 5.600        | 1091           | 5.600        | 1141             | 5.600        | 1191           | 5.600        | 1241           | 5.600        | 1291                                                                                | 5.600        |
| 1042                                               | 5.600        | 1092           | 5.600        | 1142             | 5.600        | 1192           | 5.600        | 1242           | 5.600        | 1292                                                                                | 5.600        |
| 1043                                               | 5.600        | 1093           | 5.600        | 1143             | 5.600        | 1193           | 5.600        | 1243           | 5.600        | 1293                                                                                | 5.600        |
| 1044                                               | 5.600        | 1094           | 5.600        | 1144             | 5.600        | 1194           | 5.600        | 1244           | 5.600        | 1294                                                                                | 5.600        |
| 1045                                               | 5.600        | 1095           | 5.600        | 1145             | 5.600        | 1195           | 5.600        | 1245           | 5.600        | 1295                                                                                | 5.600        |
| 1046                                               | 5.600        | 1096           | 5.600        | 1146             | 5.600        | 1196           | 5.600        | 1246           | 5.600        | 1296                                                                                | 5.600        |
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|                                                    |                 |                                                                                     |
|----------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|
| Rogers Cory Ptn Ltd                                |                 | Page 8                                                                              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |                 |  |
| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
| File SW1-STRAT SEPARATE.MDX                        | Checked by      |                                                                                     |
| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

Surcharged Outfall Details for Storm - Net 1

| Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) |
|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|
| 1297           | 5.600        | 1321           | 5.600        | 1345           | 5.600        | 1369           | 5.600        | 1393           | 5.600        | 1417           | 5.600        |
| 1298           | 5.600        | 1322           | 5.600        | 1346           | 5.600        | 1370           | 5.600        | 1394           | 5.600        | 1418           | 5.600        |
| 1299           | 5.600        | 1323           | 5.600        | 1347           | 5.600        | 1371           | 5.600        | 1395           | 5.600        | 1419           | 5.600        |
| 1300           | 5.600        | 1324           | 5.600        | 1348           | 5.600        | 1372           | 5.600        | 1396           | 5.600        | 1420           | 5.600        |
| 1301           | 5.600        | 1325           | 5.600        | 1349           | 5.600        | 1373           | 5.600        | 1397           | 5.600        | 1421           | 5.600        |
| 1302           | 5.600        | 1326           | 5.600        | 1350           | 5.600        | 1374           | 5.600        | 1398           | 5.600        | 1422           | 5.600        |
| 1303           | 5.600        | 1327           | 5.600        | 1351           | 5.600        | 1375           | 5.600        | 1399           | 5.600        | 1423           | 5.600        |
| 1304           | 5.600        | 1328           | 5.600        | 1352           | 5.600        | 1376           | 5.600        | 1400           | 5.600        | 1424           | 5.600        |
| 1305           | 5.600        | 1329           | 5.600        | 1353           | 5.600        | 1377           | 5.600        | 1401           | 5.600        | 1425           | 5.600        |
| 1306           | 5.600        | 1330           | 5.600        | 1354           | 5.600        | 1378           | 5.600        | 1402           | 5.600        | 1426           | 5.600        |
| 1307           | 5.600        | 1331           | 5.600        | 1355           | 5.600        | 1379           | 5.600        | 1403           | 5.600        | 1427           | 5.600        |
| 1308           | 5.600        | 1332           | 5.600        | 1356           | 5.600        | 1380           | 5.600        | 1404           | 5.600        | 1428           | 5.600        |
| 1309           | 5.600        | 1333           | 5.600        | 1357           | 5.600        | 1381           | 5.600        | 1405           | 5.600        | 1429           | 5.600        |
| 1310           | 5.600        | 1334           | 5.600        | 1358           | 5.600        | 1382           | 5.600        | 1406           | 5.600        | 1430           | 5.600        |
| 1311           | 5.600        | 1335           | 5.600        | 1359           | 5.600        | 1383           | 5.600        | 1407           | 5.600        | 1431           | 5.600        |
| 1312           | 5.600        | 1336           | 5.600        | 1360           | 5.600        | 1384           | 5.600        | 1408           | 5.600        | 1432           | 5.600        |
| 1313           | 5.600        | 1337           | 5.600        | 1361           | 5.600        | 1385           | 5.600        | 1409           | 5.600        | 1433           | 5.600        |
| 1314           | 5.600        | 1338           | 5.600        | 1362           | 5.600        | 1386           | 5.600        | 1410           | 5.600        | 1434           | 5.600        |
| 1315           | 5.600        | 1339           | 5.600        | 1363           | 5.600        | 1387           | 5.600        | 1411           | 5.600        | 1435           | 5.600        |
| 1316           | 5.600        | 1340           | 5.600        | 1364           | 5.600        | 1388           | 5.600        | 1412           | 5.600        | 1436           | 5.600        |
| 1317           | 5.600        | 1341           | 5.600        | 1365           | 5.600        | 1389           | 5.600        | 1413           | 5.600        | 1437           | 5.600        |
| 1318           | 5.600        | 1342           | 5.600        | 1366           | 5.600        | 1390           | 5.600        | 1414           | 5.600        | 1438           | 5.600        |
| 1319           | 5.600        | 1343           | 5.600        | 1367           | 5.600        | 1391           | 5.600        | 1415           | 5.600        | 1439           | 5.600        |
| 1320           | 5.600        | 1344           | 5.600        | 1368           | 5.600        | 1392           | 5.600        | 1416           | 5.600        | 1440           | 5.600        |

Simulation Criteria for Storm - Net 1

|                                 |       |                                     |        |
|---------------------------------|-------|-------------------------------------|--------|
| Volumetric Runoff Coeff         | 0.840 | Additional Flow - % of Total Flow   | 10.000 |
| Areal Reduction Factor          | 1.000 | MADD Factor * 10m³/ha Storage       | 2.000  |
| Hot Start (mins)                | 0     | Inlet Coefficient                   | 0.800  |
| Hot Start Level (mm)            | 0     | Flow per Person per Day (l/per/day) | 0.000  |
| Manhole Headloss Coeff (Global) | 0.500 | Run Time (mins)                     | 60     |
| Foul Sewage per hectare (l/s)   | 0.000 | Output Interval (mins)              | 1      |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 6 |
| Number of Online Controls   | 4 | Number of Time/Area Diagrams | 0 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

Synthetic Rainfall Details

|                       |                   |                       |        |
|-----------------------|-------------------|-----------------------|--------|
| Rainfall Model        | FSR               | Profile Type          | Winter |
| Return Period (years) | 2                 | Cv (Summer)           | 0.750  |
| Region                | England and Wales | Cv (Winter)           | 0.840  |
| M5-60 (mm)            | 19.000            | Storm Duration (mins) | 15     |
| Ratio R               | 0.350             |                       |        |

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|                                                    |                 |                                                                                     |
|----------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|
| Rogers Cory Ptn Ltd                                |                 | Page 9                                                                              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |                 |  |
| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
| File SW1-STRAT SEPARATE.MDX                        | Checked by      |                                                                                     |
| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

Online Controls for Storm - Net 1

Hydro-Brake Optimum® Manhole: 34, DS/PN: 5.009, Volume (m³): 129.2

|                                   |                            |
|-----------------------------------|----------------------------|
| Unit Reference                    | MD-SHE-0143-1000-1200-1000 |
| Design Head (m)                   | 1.200                      |
| Design Flow (l/s)                 | 10.0                       |
| Flush-Flo™                        | Calculated                 |
| Objective                         | Minimise upstream storage  |
| Diameter (mm)                     | 143                        |
| Invert Level (m)                  | 4.648                      |
| Minimum Outlet Pipe Diameter (mm) | 225                        |
| Suggested Manhole Diameter (mm)   | 1200                       |

| Control Points            | Head (m) | Flow (l/s) |
|---------------------------|----------|------------|
| Design Point (Calculated) | 1.200    | 10.0       |
| Flush-Flo™                | 0.357    | 10.0       |
| Kick-Flo®                 | 0.778    | 8.2        |
| Mean Flow over Head Range | -        | 8.7        |

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     | 5.1        | 1.200     | 10.0       | 3.000     | 15.4       | 7.000     | 23.2       |
| 0.200     | 9.4        | 1.400     | 10.8       | 3.500     | 16.6       | 7.500     | 23.9       |
| 0.300     | 9.9        | 1.600     | 11.5       | 4.000     | 17.7       | 8.000     | 24.7       |
| 0.400     | 10.0       | 1.800     | 12.1       | 4.500     | 18.7       | 8.500     | 25.4       |
| 0.500     | 9.8        | 2.000     | 12.7       | 5.000     | 19.7       | 9.000     | 26.1       |
| 0.600     | 9.5        | 2.200     | 13.3       | 5.500     | 20.6       | 9.500     | 26.8       |
| 0.800     | 8.3        | 2.400     | 13.9       | 6.000     | 21.5       |           |            |
| 1.000     | 9.2        | 2.600     | 14.4       | 6.500     | 22.3       |           |            |

Hydro-Brake Optimum® Manhole: 36, DS/PN: 5.011, Volume (m³): 127.5

|                                   |                            |
|-----------------------------------|----------------------------|
| Unit Reference                    | MD-SHE-0143-1000-1200-1000 |
| Design Head (m)                   | 1.200                      |
| Design Flow (l/s)                 | 10.0                       |
| Flush-Flo™                        | Calculated                 |
| Objective                         | Minimise upstream storage  |
| Diameter (mm)                     | 143                        |
| Invert Level (m)                  | 4.557                      |
| Minimum Outlet Pipe Diameter (mm) | 225                        |
| Suggested Manhole Diameter (mm)   | 1200                       |

| Control Points            | Head (m) | Flow (l/s) |
|---------------------------|----------|------------|
| Design Point (Calculated) | 1.200    | 10.0       |
| Flush-Flo™                | 0.357    | 10.0       |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|----------------|----------------------------|-----------------|---------------------------|-------------------|------------|---------------------------|------------|-----------|---------------------------|---------------|------|---------------------------|-------|-----------------------------------|------|---------------------------------|------|-------|------|-------|------|-------|------|-------|-----|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-----|-------|------|-------|------|-------|------|-------|-----|-------|------|-------|------|--|--|-------|-----|-------|------|-------|------|--|--|
| Rogers Cory Ptn Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            | Page 10                                                                             |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |  |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Date 01/01/0001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Designed by Tim            |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| File SW1-STRAT SEPARATE.MDX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Checked by                 |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            | Network 2014.1.1                                                                    |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| <u>Hydro-Brake Optimum® Manhole: 36, DS/PN: 5.011, Volume (m³): 127.5</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| <table><tr><td>Control Points</td><td>Head (m)</td><td>Flow (l/s)</td></tr><tr><td>Kick-Flo®</td><td>0.778</td><td>8.2</td></tr><tr><td>Mean Flow over Head Range</td><td>-</td><td>8.7</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            |                                                                                     | Control Points | Head (m)                   | Flow (l/s)      | Kick-Flo®                 | 0.778             | 8.2        | Mean Flow over Head Range | -          | 8.7       |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Control Points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Head (m)                   | Flow (l/s)                                                                          |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Kick-Flo®                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.778                      | 8.2                                                                                 |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Mean Flow over Head Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                          | 8.7                                                                                 |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| <p>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</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| <table><tr><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td></tr><tr><td>0.100</td><td>5.1</td><td>1.200</td><td>10.0</td><td>3.000</td><td>15.4</td><td>7.000</td><td>23.2</td></tr><tr><td>0.200</td><td>9.4</td><td>1.400</td><td>10.8</td><td>3.500</td><td>16.6</td><td>7.500</td><td>23.9</td></tr><tr><td>0.300</td><td>9.9</td><td>1.600</td><td>11.5</td><td>4.000</td><td>17.7</td><td>8.000</td><td>24.7</td></tr><tr><td>0.400</td><td>10.0</td><td>1.800</td><td>12.1</td><td>4.500</td><td>18.7</td><td>8.500</td><td>25.4</td></tr><tr><td>0.500</td><td>9.8</td><td>2.000</td><td>12.7</td><td>5.000</td><td>19.7</td><td>9.000</td><td>26.1</td></tr><tr><td>0.600</td><td>9.5</td><td>2.200</td><td>13.3</td><td>5.500</td><td>20.6</td><td>9.500</td><td>26.8</td></tr><tr><td>0.800</td><td>8.3</td><td>2.400</td><td>13.9</td><td>6.000</td><td>21.5</td><td></td><td></td></tr><tr><td>1.000</td><td>9.2</td><td>2.600</td><td>14.4</td><td>6.500</td><td>22.3</td><td></td><td></td></tr></table> |                            |                                                                                     | Depth (m)      | Flow (l/s)                 | Depth (m)       | Flow (l/s)                | Depth (m)         | Flow (l/s) | Depth (m)                 | Flow (l/s) | 0.100     | 5.1                       | 1.200         | 10.0 | 3.000                     | 15.4  | 7.000                             | 23.2 | 0.200                           | 9.4  | 1.400 | 10.8 | 3.500 | 16.6 | 7.500 | 23.9 | 0.300 | 9.9 | 1.600 | 11.5 | 4.000 | 17.7 | 8.000 | 24.7 | 0.400 | 10.0 | 1.800 | 12.1 | 4.500 | 18.7 | 8.500 | 25.4 | 0.500 | 9.8  | 2.000 | 12.7 | 5.000 | 19.7 | 9.000 | 26.1 | 0.600 | 9.5 | 2.200 | 13.3 | 5.500 | 20.6 | 9.500 | 26.8 | 0.800 | 8.3 | 2.400 | 13.9 | 6.000 | 21.5 |  |  | 1.000 | 9.2 | 2.600 | 14.4 | 6.500 | 22.3 |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Flow (l/s)                 | Depth (m)                                                                           | Flow (l/s)     | Depth (m)                  | Flow (l/s)      | Depth (m)                 | Flow (l/s)        |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5.1                        | 1.200                                                                               | 10.0           | 3.000                      | 15.4            | 7.000                     | 23.2              |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9.4                        | 1.400                                                                               | 10.8           | 3.500                      | 16.6            | 7.500                     | 23.9              |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9.9                        | 1.600                                                                               | 11.5           | 4.000                      | 17.7            | 8.000                     | 24.7              |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.0                       | 1.800                                                                               | 12.1           | 4.500                      | 18.7            | 8.500                     | 25.4              |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9.8                        | 2.000                                                                               | 12.7           | 5.000                      | 19.7            | 9.000                     | 26.1              |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9.5                        | 2.200                                                                               | 13.3           | 5.500                      | 20.6            | 9.500                     | 26.8              |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8.3                        | 2.400                                                                               | 13.9           | 6.000                      | 21.5            |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9.2                        | 2.600                                                                               | 14.4           | 6.500                      | 22.3            |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| <u>Hydro-Brake Optimum® Manhole: 38, DS/PN: 5.013, Volume (m³): 119.6</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| <table><tr><td>Unit Reference</td><td>MD-SHE-0138-1000-1500-1000</td></tr><tr><td>Design Head (m)</td><td>1.500</td></tr><tr><td>Design Flow (l/s)</td><td>10.0</td></tr><tr><td>Flush-Flo™</td><td>Calculated</td></tr><tr><td>Objective</td><td>Minimise upstream storage</td></tr><tr><td>Diameter (mm)</td><td>138</td></tr><tr><td>Invert Level (m)</td><td>4.404</td></tr><tr><td>Minimum Outlet Pipe Diameter (mm)</td><td>225</td></tr><tr><td>Suggested Manhole Diameter (mm)</td><td>1200</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                                                                                     | Unit Reference | MD-SHE-0138-1000-1500-1000 | Design Head (m) | 1.500                     | Design Flow (l/s) | 10.0       | Flush-Flo™                | Calculated | Objective | Minimise upstream storage | Diameter (mm) | 138  | Invert Level (m)          | 4.404 | Minimum Outlet Pipe Diameter (mm) | 225  | Suggested Manhole Diameter (mm) | 1200 |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Unit Reference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MD-SHE-0138-1000-1500-1000 |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Design Head (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.500                      |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Design Flow (l/s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10.0                       |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Flush-Flo™                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Calculated                 |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Objective                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Minimise upstream storage  |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Diameter (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 138                        |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Invert Level (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.404                      |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Minimum Outlet Pipe Diameter (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 225                        |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Suggested Manhole Diameter (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1200                       |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| <table><tr><td>Control Points</td><td>Head (m)</td><td>Flow (l/s)</td></tr><tr><td>Design Point (Calculated)</td><td>1.500</td><td>10.0</td></tr><tr><td>Flush-Flo™</td><td>0.441</td><td>10.0</td></tr><tr><td>Kick-Flo®</td><td>0.933</td><td>8.0</td></tr><tr><td>Mean Flow over Head Range</td><td>-</td><td>8.7</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                                                                                     | Control Points | Head (m)                   | Flow (l/s)      | Design Point (Calculated) | 1.500             | 10.0       | Flush-Flo™                | 0.441      | 10.0      | Kick-Flo®                 | 0.933         | 8.0  | Mean Flow over Head Range | -     | 8.7                               |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Control Points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Head (m)                   | Flow (l/s)                                                                          |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Design Point (Calculated)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.500                      | 10.0                                                                                |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Flush-Flo™                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.441                      | 10.0                                                                                |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Kick-Flo®                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.933                      | 8.0                                                                                 |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Mean Flow over Head Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                          | 8.7                                                                                 |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| <p>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</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                                     |                |                            |                 |                           |                   |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| <table><tr><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td></tr><tr><td>0.100</td><td>5.0</td><td>0.800</td><td>9.1</td><td>2.000</td><td>11.4</td><td>4.000</td><td>15.9</td></tr><tr><td>0.200</td><td>9.0</td><td>1.000</td><td>8.3</td><td>2.200</td><td>12.0</td><td>4.500</td><td>16.8</td></tr><tr><td>0.300</td><td>9.7</td><td>1.200</td><td>9.0</td><td>2.400</td><td>12.5</td><td>5.000</td><td>17.7</td></tr><tr><td>0.400</td><td>10.0</td><td>1.400</td><td>9.7</td><td>2.600</td><td>13.0</td><td>5.500</td><td>18.5</td></tr><tr><td>0.500</td><td>10.0</td><td>1.600</td><td>10.3</td><td>3.000</td><td>13.9</td><td>6.000</td><td>19.3</td></tr><tr><td>0.600</td><td>9.8</td><td>1.800</td><td>10.9</td><td>3.500</td><td>14.9</td><td>6.500</td><td>20.1</td></tr></table>                                                                                                                                                                                                                          |                            |                                                                                     | Depth (m)      | Flow (l/s)                 | Depth (m)       | Flow (l/s)                | Depth (m)         | Flow (l/s) | Depth (m)                 | Flow (l/s) | 0.100     | 5.0                       | 0.800         | 9.1  | 2.000                     | 11.4  | 4.000                             | 15.9 | 0.200                           | 9.0  | 1.000 | 8.3  | 2.200 | 12.0 | 4.500 | 16.8 | 0.300 | 9.7 | 1.200 | 9.0  | 2.400 | 12.5 | 5.000 | 17.7 | 0.400 | 10.0 | 1.400 | 9.7  | 2.600 | 13.0 | 5.500 | 18.5 | 0.500 | 10.0 | 1.600 | 10.3 | 3.000 | 13.9 | 6.000 | 19.3 | 0.600 | 9.8 | 1.800 | 10.9 | 3.500 | 14.9 | 6.500 | 20.1 |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Flow (l/s)                 | Depth (m)                                                                           | Flow (l/s)     | Depth (m)                  | Flow (l/s)      | Depth (m)                 | Flow (l/s)        |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5.0                        | 0.800                                                                               | 9.1            | 2.000                      | 11.4            | 4.000                     | 15.9              |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9.0                        | 1.000                                                                               | 8.3            | 2.200                      | 12.0            | 4.500                     | 16.8              |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9.7                        | 1.200                                                                               | 9.0            | 2.400                      | 12.5            | 5.000                     | 17.7              |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.0                       | 1.400                                                                               | 9.7            | 2.600                      | 13.0            | 5.500                     | 18.5              |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.0                       | 1.600                                                                               | 10.3           | 3.000                      | 13.9            | 6.000                     | 19.3              |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9.8                        | 1.800                                                                               | 10.9           | 3.500                      | 14.9            | 6.500                     | 20.1              |            |                           |            |           |                           |               |      |                           |       |                                   |      |                                 |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
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| Rogers Cory Ptn Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 | Page 11                                                                             |            |            |            |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
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| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |  |            |            |            |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Date 01/01/0001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Designed by Tim |                                                                                     |            |            |            |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| File SW1-STRAT SEPARATE.MDX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Checked by      |                                                                                     |            |            |            |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | Network 2014.1.1                                                                    |            |            |            |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| <p><u>Hydro-Brake Optimum® Manhole: 38, DS/PN: 5.013, Volume (m³): 119.6</u></p> <table border="1"> <thead> <tr> <th>Depth (m)</th> <th>Flow (l/s)</th> <th>Depth (m)</th> <th>Flow (l/s)</th> <th>Depth (m)</th> <th>Flow (l/s)</th> <th>Depth (m)</th> <th>Flow (l/s)</th> </tr> </thead> <tbody> <tr> <td>7.000</td> <td>20.8</td> <td>8.000</td> <td>22.2</td> <td>9.000</td> <td>23.5</td> <td></td> <td></td> </tr> <tr> <td>7.500</td> <td>21.5</td> <td>8.500</td> <td>22.8</td> <td>9.500</td> <td>24.1</td> <td></td> <td></td> </tr> </tbody> </table> <p><u>Hydro-Brake Optimum® Manhole: 7, DS/PN: 1.006, Volume (m³): 534.4</u></p> <p>Unit Reference MD-SHE-0134-1000-1800-1000<br/> Design Head (m) 1.800<br/> Design Flow (l/s) 10.0<br/> Flush-Flo™ Calculated<br/> Objective Minimise upstream storage<br/> Diameter (mm) 134<br/> Invert Level (m) 3.905<br/> Minimum Outlet Pipe Diameter (mm) 150<br/> Suggested Manhole Diameter (mm) 1500</p> <table border="1"> <thead> <tr> <th>Control Points</th> <th>Head (m)</th> <th>Flow (l/s)</th> </tr> </thead> <tbody> <tr> <td>Design Point (Calculated)</td> <td>1.800</td> <td>10.0</td> </tr> <tr> <td>Flush-Flo™</td> <td>0.525</td> <td>10.0</td> </tr> <tr> <td>Kick-Flo®</td> <td>1.089</td> <td>7.9</td> </tr> <tr> <td>Mean Flow over Head Range</td> <td>-</td> <td>8.7</td> </tr> </tbody> </table> <p>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</p> <table border="1"> <thead> <tr> <th>Depth (m)</th> <th>Flow (l/s)</th> <th>Depth (m)</th> <th>Flow (l/s)</th> <th>Depth (m)</th> <th>Flow (l/s)</th> <th>Depth (m)</th> <th>Flow (l/s)</th> </tr> </thead> <tbody> <tr><td>0.100</td><td>4.8</td><td>1.200</td><td>8.3</td><td>3.000</td><td>12.7</td><td>7.000</td><td>19.1</td></tr> <tr><td>0.200</td><td>8.6</td><td>1.400</td><td>8.9</td><td>3.500</td><td>13.7</td><td>7.500</td><td>19.7</td></tr> <tr><td>0.300</td><td>9.5</td><td>1.600</td><td>9.5</td><td>4.000</td><td>14.6</td><td>8.000</td><td>20.3</td></tr> <tr><td>0.400</td><td>9.8</td><td>1.800</td><td>10.0</td><td>4.500</td><td>15.4</td><td>8.500</td><td>20.9</td></tr> <tr><td>0.500</td><td>10.0</td><td>2.000</td><td>10.5</td><td>5.000</td><td>16.2</td><td>9.000</td><td>21.5</td></tr> <tr><td>0.600</td><td>9.9</td><td>2.200</td><td>11.0</td><td>5.500</td><td>17.0</td><td>9.500</td><td>22.1</td></tr> <tr><td>0.800</td><td>9.6</td><td>2.400</td><td>11.5</td><td>6.000</td><td>17.7</td><td></td><td></td></tr> <tr><td>1.000</td><td>8.7</td><td>2.600</td><td>11.9</td><td>6.500</td><td>18.4</td><td></td><td></td></tr> </tbody> </table> |                 |                                                                                     | Depth (m)  | Flow (l/s) | Depth (m)  | Flow (l/s) | Depth (m)  | Flow (l/s) | Depth (m) | Flow (l/s) | 7.000 | 20.8 | 8.000 | 22.2 | 9.000 | 23.5 |  |  | 7.500 | 21.5 | 8.500 | 22.8 | 9.500 | 24.1 |  |  | Control Points | Head (m) | Flow (l/s) | Design Point (Calculated) | 1.800 | 10.0 | Flush-Flo™ | 0.525 | 10.0 | Kick-Flo® | 1.089 | 7.9 | Mean Flow over Head Range | - | 8.7 | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.100 | 4.8 | 1.200 | 8.3 | 3.000 | 12.7 | 7.000 | 19.1 | 0.200 | 8.6 | 1.400 | 8.9 | 3.500 | 13.7 | 7.500 | 19.7 | 0.300 | 9.5 | 1.600 | 9.5 | 4.000 | 14.6 | 8.000 | 20.3 | 0.400 | 9.8 | 1.800 | 10.0 | 4.500 | 15.4 | 8.500 | 20.9 | 0.500 | 10.0 | 2.000 | 10.5 | 5.000 | 16.2 | 9.000 | 21.5 | 0.600 | 9.9 | 2.200 | 11.0 | 5.500 | 17.0 | 9.500 | 22.1 | 0.800 | 9.6 | 2.400 | 11.5 | 6.000 | 17.7 |  |  | 1.000 | 8.7 | 2.600 | 11.9 | 6.500 | 18.4 |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Flow (l/s)      | Depth (m)                                                                           | Flow (l/s) | Depth (m)  | Flow (l/s) | Depth (m)  | Flow (l/s) |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 7.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20.8            | 8.000                                                                               | 22.2       | 9.000      | 23.5       |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 7.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 21.5            | 8.500                                                                               | 22.8       | 9.500      | 24.1       |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Control Points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Head (m)        | Flow (l/s)                                                                          |            |            |            |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Design Point (Calculated)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.800           | 10.0                                                                                |            |            |            |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Flush-Flo™                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.525           | 10.0                                                                                |            |            |            |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Kick-Flo®                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.089           | 7.9                                                                                 |            |            |            |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Mean Flow over Head Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -               | 8.7                                                                                 |            |            |            |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Flow (l/s)      | Depth (m)                                                                           | Flow (l/s) | Depth (m)  | Flow (l/s) | Depth (m)  | Flow (l/s) |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4.8             | 1.200                                                                               | 8.3        | 3.000      | 12.7       | 7.000      | 19.1       |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.6             | 1.400                                                                               | 8.9        | 3.500      | 13.7       | 7.500      | 19.7       |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.5             | 1.600                                                                               | 9.5        | 4.000      | 14.6       | 8.000      | 20.3       |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.8             | 1.800                                                                               | 10.0       | 4.500      | 15.4       | 8.500      | 20.9       |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10.0            | 2.000                                                                               | 10.5       | 5.000      | 16.2       | 9.000      | 21.5       |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.9             | 2.200                                                                               | 11.0       | 5.500      | 17.0       | 9.500      | 22.1       |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.6             | 2.400                                                                               | 11.5       | 6.000      | 17.7       |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.7             | 2.600                                                                               | 11.9       | 6.500      | 18.4       |            |            |            |           |            |       |      |       |      |       |      |  |  |       |      |       |      |       |      |  |  |                |          |            |                           |       |      |            |       |      |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
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|                                                    |  |                                                                                     |
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| Rogers Cory Ptn Ltd                                |  | Page 12                                                                             |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |  |  |
| Date 01/01/0001<br>File SW1-STRAT SEPARATE.MDX     |  |                                                                                     |
| Designed by Tim<br>Checked by                      |  |                                                                                     |
| Micro Drainage                                     |  | Network 2014.1.1                                                                    |

Storage Structures for Storm - Net 1

Tank or Pond Manhole: 33, DS/PN: 5.008

Invert Level (m) 4.730

| Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) |
|-----------|------------------------|-----------|------------------------|
| 0.000     | 1969.0                 | 1.270     | 2731.8                 |

Tank or Pond Manhole: 35, DS/PN: 5.010

Invert Level (m) 4.605

| Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) |
|-----------|------------------------|-----------|------------------------|
| 0.000     | 541.5                  | 1.535     | 971.4                  |

Tank or Pond Manhole: 37, DS/PN: 5.012

Invert Level (m) 4.442

| Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) |
|-----------|------------------------|-----------|------------------------|
| 0.000     | 396.1                  | 1.838     | 833.7                  |

Swale Manhole: 39, DS/PN: 5.014

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

|                                      |         |                            |       |
|--------------------------------------|---------|----------------------------|-------|
| Infiltration Coefficient Base (m/hr) | 0.00000 | Length (m)                 | 23.7  |
| Infiltration Coefficient Side (m/hr) | 0.00000 | Side Slope (1:X)           | 4.0   |
| Safety Factor                        | 2.0     | Slope (1:X)                | 376.0 |
| Porosity                             | 1.00    | Cap Volume Depth (m)       | 0.000 |
| Invert Level (m)                     | 4.324   | Cap Infiltration Depth (m) | 0.000 |
| Base Width (m)                       | 1.0     | Include Swale Volume       | Yes   |

Swale Manhole: 27, DS/PN: 5.015

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

|                                      |         |                            |       |
|--------------------------------------|---------|----------------------------|-------|
| Infiltration Coefficient Base (m/hr) | 0.00000 | Length (m)                 | 81.9  |
| Infiltration Coefficient Side (m/hr) | 0.00000 | Side Slope (1:X)           | 4.0   |
| Safety Factor                        | 2.0     | Slope (1:X)                | 400.0 |
| Porosity                             | 1.00    | Cap Volume Depth (m)       | 0.000 |
| Invert Level (m)                     | 4.364   | Cap Infiltration Depth (m) | 0.000 |
| Base Width (m)                       | 1.0     | Include Swale Volume       | Yes   |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                                                                                     |                                      |         |            |      |                                      |         |                  |     |               |     |             |       |          |      |                      |       |                  |       |                            |       |                |     |                      |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|--------------------------------------|---------|------------|------|--------------------------------------|---------|------------------|-----|---------------|-----|-------------|-------|----------|------|----------------------|-------|------------------|-------|----------------------------|-------|----------------|-----|----------------------|-----|
| Rogers Cory Ptn Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 | Page 13                                                                             |                                      |         |            |      |                                      |         |                  |     |               |     |             |       |          |      |                      |       |                  |       |                            |       |                |     |                      |     |
| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |  |                                      |         |            |      |                                      |         |                  |     |               |     |             |       |          |      |                      |       |                  |       |                            |       |                |     |                      |     |
| Date 01/01/0001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Designed by Tim |                                                                                     |                                      |         |            |      |                                      |         |                  |     |               |     |             |       |          |      |                      |       |                  |       |                            |       |                |     |                      |     |
| File SW1-STRAT SEPARATE.MDX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Checked by      |                                                                                     |                                      |         |            |      |                                      |         |                  |     |               |     |             |       |          |      |                      |       |                  |       |                            |       |                |     |                      |     |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | Network 2014.1.1                                                                    |                                      |         |            |      |                                      |         |                  |     |               |     |             |       |          |      |                      |       |                  |       |                            |       |                |     |                      |     |
| <p style="text-align: center;"><u>Swale Manhole: 6, DS/PN: 1.005</u></p> <p>Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier</p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Length (m)</td> <td>61.7</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.00000</td> <td>Side Slope (1:X)</td> <td>4.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>400.0</td> </tr> <tr> <td>Porosity</td> <td>1.00</td> <td>Cap Volume Depth (m)</td> <td>0.000</td> </tr> <tr> <td>Invert Level (m)</td> <td>4.084</td> <td>Cap Infiltration Depth (m)</td> <td>0.000</td> </tr> <tr> <td>Base Width (m)</td> <td>1.0</td> <td>Include Swale Volume</td> <td>Yes</td> </tr> </table> |                 |                                                                                     | Infiltration Coefficient Base (m/hr) | 0.00000 | Length (m) | 61.7 | Infiltration Coefficient Side (m/hr) | 0.00000 | Side Slope (1:X) | 4.0 | Safety Factor | 2.0 | Slope (1:X) | 400.0 | Porosity | 1.00 | Cap Volume Depth (m) | 0.000 | Invert Level (m) | 4.084 | Cap Infiltration Depth (m) | 0.000 | Base Width (m) | 1.0 | Include Swale Volume | Yes |
| Infiltration Coefficient Base (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.00000         | Length (m)                                                                          | 61.7                                 |         |            |      |                                      |         |                  |     |               |     |             |       |          |      |                      |       |                  |       |                            |       |                |     |                      |     |
| Infiltration Coefficient Side (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.00000         | Side Slope (1:X)                                                                    | 4.0                                  |         |            |      |                                      |         |                  |     |               |     |             |       |          |      |                      |       |                  |       |                            |       |                |     |                      |     |
| Safety Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.0             | Slope (1:X)                                                                         | 400.0                                |         |            |      |                                      |         |                  |     |               |     |             |       |          |      |                      |       |                  |       |                            |       |                |     |                      |     |
| Porosity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.00            | Cap Volume Depth (m)                                                                | 0.000                                |         |            |      |                                      |         |                  |     |               |     |             |       |          |      |                      |       |                  |       |                            |       |                |     |                      |     |
| Invert Level (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4.084           | Cap Infiltration Depth (m)                                                          | 0.000                                |         |            |      |                                      |         |                  |     |               |     |             |       |          |      |                      |       |                  |       |                            |       |                |     |                      |     |
| Base Width (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.0             | Include Swale Volume                                                                | Yes                                  |         |            |      |                                      |         |                  |     |               |     |             |       |          |      |                      |       |                  |       |                            |       |                |     |                      |     |
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|                                                    |                 |                                                                                     |
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| Rogers Cory Ptn Ltd                                |                 | Page 14                                                                             |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |                 |  |
| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
| File SW1-STRAT SEPARATE.MDX                        | Checked by      |                                                                                     |
| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

1 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for Storm - Net 1

Simulation Criteria

|                                 |       |                                     |        |
|---------------------------------|-------|-------------------------------------|--------|
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow   | 10.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m³/ha Storage       | 2.000  |
| Hot Start Level (mm)            | 0     | Inlet Coefficient                   | 0.800  |
| Manhole Headloss Coeff (Global) | 0.500 | Flow per Person per Day (l/per/day) | 0.000  |
| Foul Sewage per hectare (l/s)   | 0.000 |                                     |        |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 6 |
| Number of Online Controls   | 4 | Number of Time/Area Diagrams | 0 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

Synthetic Rainfall Details

|                                      |        |             |       |
|--------------------------------------|--------|-------------|-------|
| Rainfall Model                       | FSR    | Ratio R     | 0.350 |
| Region England and Wales Cv (Summer) |        |             | 0.750 |
| M5-60 (mm)                           | 19.000 | Cv (Winter) | 0.840 |

|                                    |                                 |
|------------------------------------|---------------------------------|
| Margin for Flood Risk Warning (mm) | 300.0                           |
| Analysis Timestep                  | 2.5 Second Increment (Extended) |
| DTS Status                         | OFF                             |
| DVD Status                         | ON                              |
| Inertia Status                     | ON                              |

|                          |                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------|
| Profile(s)               | Summer and Winter                                                                                   |
| Duration(s) (mins)       | 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 |
| Return Period(s) (years) | 1, 30, 100                                                                                          |
| Climate Change (%)       | 0, 0, 40                                                                                            |

| PN    | Storm        | Return Period | Climate Change | First X Surchage | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
|-------|--------------|---------------|----------------|------------------|---------------|------------------|----------|----------|
| 1.000 | 15 Winter    | 1             | 0%             | 100/15 Summer    | 100/15 Summer |                  |          | 4        |
| 2.000 | 15 Winter    | 1             | 0%             | 100/15 Summer    |               |                  |          |          |
| 2.001 | 15 Winter    | 1             | 0%             | 100/15 Summer    |               |                  |          |          |
| 2.002 | 15 Winter    | 1             | 0%             | 100/15 Summer    | 100/15 Summer |                  |          | 2        |
| 1.001 | 15 Winter    | 1             | 0%             | 30/15 Winter     |               |                  |          |          |
| 3.000 | 15 Winter    | 1             | 0%             | 30/15 Winter     | 100/15 Summer |                  |          | 4        |
| 1.002 | 10080 Winter | 1             | 0%             | 30/15 Summer     |               |                  |          |          |
| 4.000 | 10080 Winter | 1             | 0%             | 30/15 Summer     |               |                  |          |          |
| 1.003 | 10080 Winter | 1             | 0%             | 30/15 Summer     |               |                  |          |          |
| 1.004 | 10080 Winter | 1             | 0%             | 1/4320 Winter    |               |                  |          |          |
| 5.000 | 15 Winter    | 1             | 0%             | 100/15 Summer    |               |                  |          |          |
| 5.001 | 15 Winter    | 1             | 0%             | 100/15 Summer    |               |                  |          |          |
| 5.002 | 15 Winter    | 1             | 0%             | 30/15 Summer     | 100/15 Summer |                  |          | 3        |
| 5.003 | 15 Winter    | 1             | 0%             | 30/15 Summer     | 100/15 Summer |                  |          | 4        |
| 5.004 | 15 Winter    | 1             | 0%             | 30/15 Summer     |               |                  |          |          |
| 5.005 | 15 Winter    | 1             | 0%             | 30/15 Summer     |               |                  |          |          |
| 6.000 | 15 Winter    | 1             | 0%             | 100/15 Summer    | 100/15 Summer |                  |          | 3        |
| 6.001 | 15 Winter    | 1             | 0%             | 30/15 Summer     | 100/15 Summer |                  |          | 3        |
| 6.002 | 15 Winter    | 1             | 0%             | 30/15 Summer     | 100/15 Summer |                  |          | 2        |

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| Rogers Cory Ptn Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                  |                   |                               |                  | Page 15                                                                             |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                  |                   | Designed by Tim<br>Checked by |                  |  |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| Date 01/01/0001<br>File SW1-STRAT SEPARATE.MDX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                  |                   |                               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                  |                   | Network 2014.1.1              |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1 year Return Period Summary of Critical Results by Maximum Level (Rank 1)<br>for Storm - Net 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                  |                   |                               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Storm        | Return<br>Period | Climate<br>Change | First X<br>Surcharge          | First Y<br>Flood | First Z<br>Overflow                                                                 | O/F Lvl<br>Act. Exc.   |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15 Winter    | 1                | 0%                | 30/15 Summer                  |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 7.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15 Winter    | 1                | 0%                | 100/15 Summer                 |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15 Winter    | 1                | 0%                | 100/15 Summer                 |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 8.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15 Winter    | 1                | 0%                | 100/15 Summer                 |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 8.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15 Winter    | 1                | 0%                | 100/15 Summer                 |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 8.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15 Winter    | 1                | 0%                | 100/15 Summer                 |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 8.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15 Winter    | 1                | 0%                | 100/2880 Winter               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                |                               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                | 30/5760 Winter                |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                |                               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                | 30/2880 Winter                |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                |                               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                | 1/7200 Winter                 |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                |                               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 9.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15 Winter    | 1                | 0%                |                               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 9.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15 Winter    | 1                | 0%                | 100/2880 Winter               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 9.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                | 30/4320 Winter                |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                |                               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                |                               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                |                               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                | 1/120 Summer                  |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                | 1/120 Summer                  |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                | 1/60 Summer                   |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                | 1/60 Summer                   |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                | 1/60 Summer                   |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10080 Winter | 1                | 0%                | 1/60 Summer                   | 100/5760 Winter  |                                                                                     | 4                      |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| <table><tr><td colspan="2">Water</td><td colspan="2">Flooded</td><td colspan="2">Pipe</td><td colspan="2"></td></tr><tr><td>PN</td><td>US/MH Name</td><td>Level (m)</td><td>Surch'd Depth (m)</td><td>Volume (m³)</td><td>Flow / Cap.</td><td>O'flow (l/s)</td><td>Pipe Flow (l/s) Status</td></tr><tr><td>1.000</td><td>1</td><td>5.462</td><td>-0.398</td><td>0.000</td><td>0.13</td><td>0.0</td><td>49.1 OK</td></tr><tr><td>2.000</td><td>15</td><td>6.177</td><td>-0.168</td><td>0.000</td><td>0.15</td><td>0.0</td><td>5.6 OK</td></tr><tr><td>2.001</td><td>16</td><td>5.786</td><td>-0.304</td><td>0.000</td><td>0.08</td><td>0.0</td><td>14.4 OK</td></tr><tr><td>2.002</td><td>17</td><td>5.397</td><td>-0.336</td><td>0.000</td><td>0.15</td><td>0.0</td><td>36.5 OK</td></tr><tr><td>1.001</td><td>2</td><td>5.167</td><td>-0.361</td><td>0.000</td><td>0.32</td><td>0.0</td><td>103.8 OK</td></tr><tr><td>3.000</td><td>45</td><td>5.242</td><td>-0.254</td><td>0.000</td><td>0.22</td><td>0.0</td><td>22.6 OK</td></tr><tr><td>1.002</td><td>3</td><td>5.069</td><td>-0.281</td><td>0.000</td><td>0.01</td><td>0.0</td><td>3.1 OK</td></tr><tr><td>4.000</td><td>46</td><td>5.069</td><td>-0.177</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.5 OK</td></tr><tr><td>1.003</td><td>4</td><td>5.069</td><td>-0.057</td><td>0.000</td><td>0.01</td><td>0.0</td><td>4.1 OK</td></tr><tr><td>1.004</td><td>5</td><td>5.069</td><td>0.093</td><td>0.000</td><td>0.01</td><td>0.0</td><td>4.7 SURCHARGED</td></tr><tr><td>5.000</td><td>18</td><td>6.466</td><td>-0.159</td><td>0.000</td><td>0.18</td><td>0.0</td><td>8.5 OK</td></tr><tr><td>5.001</td><td>19</td><td>6.132</td><td>-0.269</td><td>0.000</td><td>0.17</td><td>0.0</td><td>19.5 OK</td></tr><tr><td>5.002</td><td>20</td><td>5.848</td><td>-0.329</td><td>0.000</td><td>0.16</td><td>0.0</td><td>31.6 OK</td></tr><tr><td>5.003</td><td>21</td><td>5.634</td><td>-0.304</td><td>0.000</td><td>0.22</td><td>0.0</td><td>50.6 OK</td></tr><tr><td>5.004</td><td>22</td><td>5.534</td><td>-0.261</td><td>0.000</td><td>0.32</td><td>0.0</td><td>66.2 OK</td></tr><tr><td>5.005</td><td>23</td><td>5.474</td><td>-0.264</td><td>0.000</td><td>0.26</td><td>0.0</td><td>75.3 OK</td></tr><tr><td>6.000</td><td>28</td><td>6.055</td><td>-0.140</td><td>0.000</td><td>0.30</td><td>0.0</td><td>11.1 OK</td></tr><tr><td>6.001</td><td>29</td><td>5.569</td><td>-0.217</td><td>0.000</td><td>0.36</td><td>0.0</td><td>37.6 OK</td></tr><tr><td>6.002</td><td>30</td><td>5.443</td><td>-0.210</td><td>0.000</td><td>0.40</td><td>0.0</td><td>43.1 OK</td></tr></table> |              |                  |                   |                               |                  |                                                                                     |                        | Water |  | Flooded |  | Pipe |  |  |  | PN | US/MH Name | Level (m) | Surch'd Depth (m) | Volume (m³) | Flow / Cap. | O'flow (l/s) | Pipe Flow (l/s) Status | 1.000 | 1 | 5.462 | -0.398 | 0.000 | 0.13 | 0.0 | 49.1 OK | 2.000 | 15 | 6.177 | -0.168 | 0.000 | 0.15 | 0.0 | 5.6 OK | 2.001 | 16 | 5.786 | -0.304 | 0.000 | 0.08 | 0.0 | 14.4 OK | 2.002 | 17 | 5.397 | -0.336 | 0.000 | 0.15 | 0.0 | 36.5 OK | 1.001 | 2 | 5.167 | -0.361 | 0.000 | 0.32 | 0.0 | 103.8 OK | 3.000 | 45 | 5.242 | -0.254 | 0.000 | 0.22 | 0.0 | 22.6 OK | 1.002 | 3 | 5.069 | -0.281 | 0.000 | 0.01 | 0.0 | 3.1 OK | 4.000 | 46 | 5.069 | -0.177 | 0.000 | 0.00 | 0.0 | 0.5 OK | 1.003 | 4 | 5.069 | -0.057 | 0.000 | 0.01 | 0.0 | 4.1 OK | 1.004 | 5 | 5.069 | 0.093 | 0.000 | 0.01 | 0.0 | 4.7 SURCHARGED | 5.000 | 18 | 6.466 | -0.159 | 0.000 | 0.18 | 0.0 | 8.5 OK | 5.001 | 19 | 6.132 | -0.269 | 0.000 | 0.17 | 0.0 | 19.5 OK | 5.002 | 20 | 5.848 | -0.329 | 0.000 | 0.16 | 0.0 | 31.6 OK | 5.003 | 21 | 5.634 | -0.304 | 0.000 | 0.22 | 0.0 | 50.6 OK | 5.004 | 22 | 5.534 | -0.261 | 0.000 | 0.32 | 0.0 | 66.2 OK | 5.005 | 23 | 5.474 | -0.264 | 0.000 | 0.26 | 0.0 | 75.3 OK | 6.000 | 28 | 6.055 | -0.140 | 0.000 | 0.30 | 0.0 | 11.1 OK | 6.001 | 29 | 5.569 | -0.217 | 0.000 | 0.36 | 0.0 | 37.6 OK | 6.002 | 30 | 5.443 | -0.210 | 0.000 | 0.40 | 0.0 | 43.1 OK |
| Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              | Flooded          |                   | Pipe                          |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | US/MH Name   | Level (m)        | Surch'd Depth (m) | Volume (m³)                   | Flow / Cap.      | O'flow (l/s)                                                                        | Pipe Flow (l/s) Status |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1            | 5.462            | -0.398            | 0.000                         | 0.13             | 0.0                                                                                 | 49.1 OK                |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 2.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15           | 6.177            | -0.168            | 0.000                         | 0.15             | 0.0                                                                                 | 5.6 OK                 |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 2.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 16           | 5.786            | -0.304            | 0.000                         | 0.08             | 0.0                                                                                 | 14.4 OK                |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 2.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 17           | 5.397            | -0.336            | 0.000                         | 0.15             | 0.0                                                                                 | 36.5 OK                |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2            | 5.167            | -0.361            | 0.000                         | 0.32             | 0.0                                                                                 | 103.8 OK               |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 3.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 45           | 5.242            | -0.254            | 0.000                         | 0.22             | 0.0                                                                                 | 22.6 OK                |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3            | 5.069            | -0.281            | 0.000                         | 0.01             | 0.0                                                                                 | 3.1 OK                 |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 4.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 46           | 5.069            | -0.177            | 0.000                         | 0.00             | 0.0                                                                                 | 0.5 OK                 |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4            | 5.069            | -0.057            | 0.000                         | 0.01             | 0.0                                                                                 | 4.1 OK                 |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 1.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5            | 5.069            | 0.093             | 0.000                         | 0.01             | 0.0                                                                                 | 4.7 SURCHARGED         |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 18           | 6.466            | -0.159            | 0.000                         | 0.18             | 0.0                                                                                 | 8.5 OK                 |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19           | 6.132            | -0.269            | 0.000                         | 0.17             | 0.0                                                                                 | 19.5 OK                |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20           | 5.848            | -0.329            | 0.000                         | 0.16             | 0.0                                                                                 | 31.6 OK                |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 21           | 5.634            | -0.304            | 0.000                         | 0.22             | 0.0                                                                                 | 50.6 OK                |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 22           | 5.534            | -0.261            | 0.000                         | 0.32             | 0.0                                                                                 | 66.2 OK                |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 5.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 23           | 5.474            | -0.264            | 0.000                         | 0.26             | 0.0                                                                                 | 75.3 OK                |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 6.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 28           | 6.055            | -0.140            | 0.000                         | 0.30             | 0.0                                                                                 | 11.1 OK                |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 6.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 29           | 5.569            | -0.217            | 0.000                         | 0.36             | 0.0                                                                                 | 37.6 OK                |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| 6.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30           | 5.443            | -0.210            | 0.000                         | 0.40             | 0.0                                                                                 | 43.1 OK                |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |
| ©1982-2014 XP Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                  |                   |                               |                  |                                                                                     |                        |       |  |         |  |      |  |  |  |    |            |           |                   |             |             |              |                        |       |   |       |        |       |      |     |         |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |          |       |    |       |        |       |      |     |         |       |   |       |        |       |      |     |        |       |    |       |        |       |      |     |        |       |   |       |        |       |      |     |        |       |   |       |       |       |      |     |                |       |    |       |        |       |      |     |        |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |       |    |       |        |       |      |     |         |

|                                                                                                               |  |  |  |                  |  |  |  |                                                                                     |
|---------------------------------------------------------------------------------------------------------------|--|--|--|------------------|--|--|--|-------------------------------------------------------------------------------------|
| Rogers Cory Ptn Ltd                                                                                           |  |  |  |                  |  |  |  | Page 16                                                                             |
| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                            |  |  |  |                  |  |  |  |  |
| Date 01/01/0001                                                                                               |  |  |  | Designed by Tim  |  |  |  |                                                                                     |
| File SW1-STRAT SEPARATE.MDX                                                                                   |  |  |  | Checked by       |  |  |  |                                                                                     |
| Micro Drainage                                                                                                |  |  |  | Network 2014.1.1 |  |  |  |                                                                                     |
| <u>1 year Return Period Summary of Critical Results by Maximum Level (Rank 1)</u><br><u>for Storm - Net 1</u> |  |  |  |                  |  |  |  |                                                                                     |
|                                                                                                               |  |  |  |                  |  |  |  |                                                                                     |
|                                                                                                               |  |  |  |                  |  |  |  |                                                                                     |
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| Rogers Cory Ptn Ltd                                |                 | Page 17                                                                             |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |                 |  |
| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
| File SW1-STRAT SEPARATE.MDX                        | Checked by      |                                                                                     |
| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for Storm - Net 1

Simulation Criteria

|                                 |       |                                     |        |
|---------------------------------|-------|-------------------------------------|--------|
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow   | 10.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m³/ha Storage       | 2.000  |
| Hot Start Level (mm)            | 0     | Inlet Coefficient                   | 0.800  |
| Manhole Headloss Coeff (Global) | 0.500 | Flow per Person per Day (l/per/day) | 0.000  |
| Foul Sewage per hectare (l/s)   | 0.000 |                                     |        |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 6 |
| Number of Online Controls   | 4 | Number of Time/Area Diagrams | 0 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

Synthetic Rainfall Details

|                          |             |             |       |
|--------------------------|-------------|-------------|-------|
| Rainfall Model           | FSR         | Ratio R     | 0.350 |
| Region England and Wales | Cv (Summer) | 0.750       |       |
| M5-60 (mm)               | 19.000      | Cv (Winter) | 0.840 |

|                                    |                                 |
|------------------------------------|---------------------------------|
| Margin for Flood Risk Warning (mm) | 300.0                           |
| Analysis Timestep                  | 2.5 Second Increment (Extended) |
| DTS Status                         | OFF                             |
| DVD Status                         | ON                              |
| Inertia Status                     | ON                              |

|                          |                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------|
| Profile(s)               | Summer and Winter                                                                                   |
| Duration(s) (mins)       | 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 |
| Return Period(s) (years) | 1, 30, 100                                                                                          |
| Climate Change (%)       | 0, 0, 40                                                                                            |

| PN    | Storm        | Return Period | Climate Change | First X Surchage | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
|-------|--------------|---------------|----------------|------------------|---------------|------------------|----------|----------|
| 1.000 | 15 Winter    | 30            | 0%             | 100/15 Summer    | 100/15 Summer |                  |          | 4        |
| 2.000 | 15 Winter    | 30            | 0%             | 100/15 Summer    |               |                  |          |          |
| 2.001 | 15 Winter    | 30            | 0%             | 100/15 Summer    |               |                  |          |          |
| 2.002 | 15 Winter    | 30            | 0%             | 100/15 Summer    | 100/15 Summer |                  |          | 2        |
| 1.001 | 15 Winter    | 30            | 0%             | 30/15 Winter     |               |                  |          |          |
| 3.000 | 15 Winter    | 30            | 0%             | 30/15 Winter     | 100/15 Summer |                  |          | 4        |
| 1.002 | 15 Winter    | 30            | 0%             | 30/15 Summer     |               |                  |          |          |
| 4.000 | 10080 Winter | 30            | 0%             | 30/15 Summer     |               |                  |          |          |
| 1.003 | 10080 Winter | 30            | 0%             | 30/15 Summer     |               |                  |          |          |
| 1.004 | 10080 Winter | 30            | 0%             | 1/4320 Winter    |               |                  |          |          |
| 5.000 | 15 Winter    | 30            | 0%             | 100/15 Summer    |               |                  |          |          |
| 5.001 | 15 Winter    | 30            | 0%             | 100/15 Summer    |               |                  |          |          |
| 5.002 | 15 Winter    | 30            | 0%             | 30/15 Summer     | 100/15 Summer |                  |          | 3        |
| 5.003 | 15 Winter    | 30            | 0%             | 30/15 Summer     | 100/15 Summer |                  |          | 4        |
| 5.004 | 15 Winter    | 30            | 0%             | 30/15 Summer     |               |                  |          |          |
| 5.005 | 15 Winter    | 30            | 0%             | 30/15 Summer     |               |                  |          |          |
| 6.000 | 15 Winter    | 30            | 0%             | 100/15 Summer    | 100/15 Summer |                  |          | 3        |
| 6.001 | 15 Winter    | 30            | 0%             | 30/15 Summer     | 100/15 Summer |                  |          | 3        |
| 6.002 | 15 Winter    | 30            | 0%             | 30/15 Summer     | 100/15 Summer |                  |          | 2        |

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|                                                                                                  |              |                  |                   |                      |                  |                                                                                     |                      |
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| Rogers Cory Ptn Ltd                                                                              |              |                  |                   |                      |                  | Page 18                                                                             |                      |
| The Old School<br>Old School Road<br>Hook RG27 9NJ                                               |              |                  |                   |                      |                  |  |                      |
| Date 01/01/0001                                                                                  |              |                  |                   | Designed by Tim      |                  |                                                                                     |                      |
| File SW1-STRAT SEPARATE.MDX                                                                      |              |                  |                   | Checked by           |                  |                                                                                     |                      |
| Micro Drainage                                                                                   |              |                  |                   | Network 2014.1.1     |                  |                                                                                     |                      |
| 30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)<br>for Storm - Net 1 |              |                  |                   |                      |                  |                                                                                     |                      |
| PN                                                                                               | Storm        | Return<br>Period | Climate<br>Change | First X<br>Surcharge | First Y<br>Flood | First Z<br>Overflow                                                                 | O/F Lvl<br>Act. Exc. |
| 5.000                                                                                            | 15 Winter    | 30               | 0%                | 30/15 Summer         |                  |                                                                                     |                      |
| 7.000                                                                                            | 15 Winter    | 30               | 0%                | 100/15 Summer        |                  |                                                                                     |                      |
| 5.007                                                                                            | 15 Winter    | 30               | 0%                | 100/15 Summer        |                  |                                                                                     |                      |
| 8.000                                                                                            | 15 Winter    | 30               | 0%                | 100/15 Summer        |                  |                                                                                     |                      |
| 8.001                                                                                            | 15 Winter    | 30               | 0%                | 100/15 Summer        |                  |                                                                                     |                      |
| 8.002                                                                                            | 15 Winter    | 30               | 0%                | 100/15 Summer        |                  |                                                                                     |                      |
| 8.003                                                                                            | 10080 Winter | 30               | 0%                | 100/2880 Winter      |                  |                                                                                     |                      |
| 5.008                                                                                            | 10080 Winter | 30               | 0%                |                      |                  |                                                                                     |                      |
| 5.009                                                                                            | 10080 Winter | 30               | 0%                | 30/5760 Winter       |                  |                                                                                     |                      |
| 5.010                                                                                            | 10080 Winter | 30               | 0%                |                      |                  |                                                                                     |                      |
| 5.011                                                                                            | 10080 Winter | 30               | 0%                | 30/2880 Winter       |                  |                                                                                     |                      |
| 5.012                                                                                            | 10080 Winter | 30               | 0%                |                      |                  |                                                                                     |                      |
| 5.013                                                                                            | 10080 Winter | 30               | 0%                | 1/7200 Winter        |                  |                                                                                     |                      |
| 5.014                                                                                            | 10080 Winter | 30               | 0%                |                      |                  |                                                                                     |                      |
| 9.000                                                                                            | 15 Winter    | 30               | 0%                |                      |                  |                                                                                     |                      |
| 9.001                                                                                            | 10080 Winter | 30               | 0%                | 100/2880 Winter      |                  |                                                                                     |                      |
| 9.002                                                                                            | 10080 Winter | 30               | 0%                | 30/4320 Winter       |                  |                                                                                     |                      |
| 5.015                                                                                            | 10080 Winter | 30               | 0%                |                      |                  |                                                                                     |                      |
| 1.005                                                                                            | 10080 Winter | 30               | 0%                |                      |                  |                                                                                     |                      |
| 1.006                                                                                            | 10080 Winter | 30               | 0%                |                      |                  |                                                                                     |                      |
| 1.007                                                                                            | 10080 Winter | 30               | 0%                | 1/120 Summer         |                  |                                                                                     |                      |
| 1.008                                                                                            | 10080 Winter | 30               | 0%                | 1/120 Summer         |                  |                                                                                     |                      |
| 1.009                                                                                            | 10080 Winter | 30               | 0%                | 1/60 Summer          |                  |                                                                                     |                      |
| 1.010                                                                                            | 10080 Winter | 30               | 0%                | 1/60 Summer          |                  |                                                                                     |                      |
| 1.011                                                                                            | 10080 Winter | 30               | 0%                | 1/60 Summer          |                  |                                                                                     |                      |
| 1.012                                                                                            | 10080 Winter | 30               | 0%                | 1/60 Summer          | 100/5760 Winter  |                                                                                     | 4                    |
|                                                                                                  |              |                  |                   |                      |                  |                                                                                     |                      |
|                                                                                                  | US/MH        | Water<br>Level   | Surch'd           | Flooded<br>Volume    | Flow /           | Pipe<br>O'flow                                                                      | Pipe<br>Flow         |
| PN                                                                                               | Name         | (m)              | Depth (m)         | (m³)                 | Cap.             | (l/s)                                                                               | (l/s)                |
|                                                                                                  |              |                  |                   |                      |                  |                                                                                     | Status               |
| 1.000                                                                                            | 1            | 5.588            | -0.272            | 0.000                | 0.32             | 0.0                                                                                 | 119.8 OK             |
| 2.000                                                                                            | 15           | 6.213            | -0.132            | 0.000                | 0.36             | 0.0                                                                                 | 13.6 OK              |
| 2.001                                                                                            | 16           | 5.836            | -0.254            | 0.000                | 0.22             | 0.0                                                                                 | 40.1 OK              |
| 2.002                                                                                            | 17           | 5.592            | -0.141            | 0.000                | 0.43             | 0.0                                                                                 | 108.3 OK             |
| 1.001                                                                                            | 2            | 5.529            | 0.001             | 0.000                | 0.75             | 0.0                                                                                 | 247.0 SURCHARGED     |
| 3.000                                                                                            | 45           | 5.508            | 0.012             | 0.000                | 0.50             | 0.0                                                                                 | 50.8 SURCHARGED      |
| 1.002                                                                                            | 3            | 5.428            | 0.078             | 0.000                | 0.96             | 0.0                                                                                 | 320.6 SURCHARGED     |
| 4.000                                                                                            | 46           | 5.355            | 0.109             | 0.000                | 0.01             | 0.0                                                                                 | 0.9 SURCHARGED       |
| 1.003                                                                                            | 4            | 5.355            | 0.229             | 0.000                | 0.02             | 0.0                                                                                 | 7.4 SURCHARGED       |
| 1.004                                                                                            | 5            | 5.355            | 0.379             | 0.000                | 0.02             | 0.0                                                                                 | 8.5 SURCHARGED       |
| 5.000                                                                                            | 18           | 6.508            | -0.117            | 0.000                | 0.45             | 0.0                                                                                 | 20.7 OK              |
| 5.001                                                                                            | 19           | 6.368            | -0.033            | 0.000                | 0.45             | 0.0                                                                                 | 51.3 OK              |
| 5.002                                                                                            | 20           | 6.296            | 0.119             | 0.000                | 0.37             | 0.0                                                                                 | 73.1 SURCHARGED      |
| 5.003                                                                                            | 21           | 6.226            | 0.288             | 0.000                | 0.45             | 0.0                                                                                 | 102.4 SURCHARGED     |
| 5.004                                                                                            | 22           | 6.081            | 0.286             | 0.000                | 0.64             | 0.0                                                                                 | 130.8 SURCHARGED     |
| 5.005                                                                                            | 23           | 5.953            | 0.215             | 0.000                | 0.56             | 0.0                                                                                 | 161.5 SURCHARGED     |
| 6.000                                                                                            | 28           | 6.120            | -0.075            | 0.000                | 0.70             | 0.0                                                                                 | 25.7 OK              |
| 6.001                                                                                            | 29           | 5.963            | 0.177             | 0.000                | 0.86             | 0.0                                                                                 | 90.3 SURCHARGED      |
| 6.002                                                                                            | 30           | 5.876            | 0.223             | 0.000                | 0.88             | 0.0                                                                                 | 94.0 SURCHARGED      |
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| Rogers Cory Ptn Ltd                                                         |       |       |           |                  |               |       | Page 19                                                                             |            |
| The Old School<br>Old School Road<br>Hook RG27 9NJ                          |       |       |           |                  |               |       |  |            |
| Date 01/01/0001                                                             |       |       |           | Designed by Tim  |               |       |                                                                                     |            |
| File SW1-STRAT SEPARATE.MDX                                                 |       |       |           | Checked by       |               |       |                                                                                     |            |
| Micro Drainage                                                              |       |       |           | Network 2014.1.1 |               |       |                                                                                     |            |
| 30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) |       |       |           |                  |               |       |                                                                                     |            |
| for Storm - Net 1                                                           |       |       |           |                  |               |       |                                                                                     |            |
|                                                                             |       | Water |           | Flooded          |               | Pipe  |                                                                                     |            |
|                                                                             | US/MH | Level | Surch'd   | Volume           | Flow / O'flow | Flow  |                                                                                     |            |
| PN                                                                          | Name  | (m)   | Depth (m) | (m³)             | Cap.          | (l/s) | (l/s)                                                                               | Status     |
| 5.006                                                                       | 31    | 5.785 | 0.175     | 0.000            | 1.33          | 0.0   | 251.7                                                                               | SURCHARGED |
| 7.000                                                                       | 40    | 5.655 | -0.127    | 0.000            | 0.64          | 0.0   | 87.4                                                                                | OK         |
| 5.007                                                                       | 32    | 5.598 | -0.012    | 0.000            | 1.00          | 0.0   | 315.4                                                                               | OK         |
| 8.000                                                                       | 41    | 6.325 | 0.000     | 0.000            | 0.99          | 0.0   | 37.6                                                                                | OK         |
| 8.001                                                                       | 42    | 6.007 | -0.058    | 0.000            | 0.89          | 0.0   | 52.4                                                                                | OK         |
| 8.002                                                                       | 43    | 5.493 | -0.102    | 0.000            | 0.84          | 0.0   | 86.8                                                                                | OK         |
| 8.003                                                                       | 44    | 5.343 | -0.139    | 0.000            | 0.01          | 0.0   | 1.4                                                                                 | OK         |
| 5.008                                                                       | 33    | 5.343 | -0.647    | 0.000            | 0.00          | 0.0   | 2.0                                                                                 | OK         |
| 5.009                                                                       | 34    | 5.343 | 0.095     | 0.000            | 0.01          | 0.0   | 2.1                                                                                 | SURCHARGED |
| 5.010                                                                       | 35    | 5.343 | -0.937    | 0.000            | 0.00          | 0.0   | 1.6                                                                                 | OK         |
| 5.011                                                                       | 36    | 5.343 | 0.186     | 0.000            | 0.01          | 0.0   | 1.6                                                                                 | SURCHARGED |
| 5.012                                                                       | 37    | 5.345 | -0.935    | 0.000            | 0.00          | 0.0   | 1.5                                                                                 | OK         |
| 5.013                                                                       | 38    | 5.345 | 0.341     | 0.000            | 0.01          | 0.0   | 1.5                                                                                 | SURCHARGED |
| 5.014                                                                       | 39    | 5.355 | -0.975    | 0.000            | 0.00          | 0.0   | 1.3                                                                                 | OK         |
| 9.000                                                                       | 24    | 5.739 | -0.286    | 0.000            | 0.13          | 0.0   | 18.0                                                                                | OK         |
| 9.001                                                                       | 25    | 5.355 | -0.223    | 0.000            | 0.01          | 0.0   | 0.8                                                                                 | OK         |
| 9.002                                                                       | 26    | 5.355 | 0.111     | 0.000            | 0.00          | 0.0   | 1.4                                                                                 | SURCHARGED |
| 5.015                                                                       | 27    | 5.355 | -0.925    | 0.000            | 0.00          | 0.0   | 1.4                                                                                 | OK         |
| 1.005                                                                       | 6     | 5.355 | -0.645    | 0.000            | 0.00          | 0.0   | 2.2                                                                                 | OK         |
| 1.006                                                                       | 7     | 5.355 | -0.615    | 0.000            | 0.00          | 0.0   | 1.8                                                                                 | OK         |
| 1.007                                                                       | 8     | 5.409 | 0.946     | 0.000            | 0.16          | 0.0   | 45.7                                                                                | SURCHARGED |
| 1.008                                                                       | 9     | 5.435 | 1.064     | 0.000            | 0.13          | 0.0   | 38.9                                                                                | SURCHARGED |
| 1.009                                                                       | 10    | 5.496 | 1.254     | 0.000            | 0.11          | 0.0   | 29.3                                                                                | SURCHARGED |
| 1.010                                                                       | 11    | 5.523 | 1.356     | 0.000            | 0.07          | 0.0   | 19.8                                                                                | SURCHARGED |
| 1.011                                                                       | 12    | 5.536 | 1.433     | 0.000            | 0.03          | 0.0   | 9.8                                                                                 | SURCHARGED |
| 1.012                                                                       | 13    | 5.542 | 1.529     | 0.000            | 0.00          | 0.0   | 0.0                                                                                 | SURCHARGED |
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|                                                                                                       |                                                                                                     |                                                                                     |                   |               |                  |          |          |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|---------------|------------------|----------|----------|
| Rogers Cory Ptn Ltd                                                                                   |                                                                                                     | Page 20                                                                             |                   |               |                  |          |          |
| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                    |                                                                                                     |  |                   |               |                  |          |          |
| Date 01/01/0001                                                                                       | Designed by Tim                                                                                     |                                                                                     |                   |               |                  |          |          |
| File SW1-STRAT SEPARATE.MDX                                                                           | Checked by                                                                                          |                                                                                     |                   |               |                  |          |          |
| Micro Drainage                                                                                        | Network 2014.1.1                                                                                    |                                                                                     |                   |               |                  |          |          |
| <u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm - Net 1</u> |                                                                                                     |                                                                                     |                   |               |                  |          |          |
| <u>Simulation Criteria</u>                                                                            |                                                                                                     |                                                                                     |                   |               |                  |          |          |
| Areal Reduction Factor                                                                                | 1.000                                                                                               | Additional Flow - % of Total Flow 10.000                                            |                   |               |                  |          |          |
| Hot Start (mins)                                                                                      | 0                                                                                                   | MADD Factor * 10m³/ha Storage 2.000                                                 |                   |               |                  |          |          |
| Hot Start Level (mm)                                                                                  | 0                                                                                                   | Inlet Coefficient 0.800                                                             |                   |               |                  |          |          |
| Manhole Headloss Coeff (Global)                                                                       | 0.500                                                                                               | Flow per Person per Day (l/per/day) 0.000                                           |                   |               |                  |          |          |
| Foul Sewage per hectare (l/s)                                                                         | 0.000                                                                                               |                                                                                     |                   |               |                  |          |          |
| Number of Input Hydrographs                                                                           | 0                                                                                                   | Number of Storage Structures 6                                                      |                   |               |                  |          |          |
| Number of Online Controls                                                                             | 4                                                                                                   | Number of Time/Area Diagrams 0                                                      |                   |               |                  |          |          |
| Number of Offline Controls                                                                            | 0                                                                                                   | Number of Real Time Controls 0                                                      |                   |               |                  |          |          |
| <u>Synthetic Rainfall Details</u>                                                                     |                                                                                                     |                                                                                     |                   |               |                  |          |          |
| Rainfall Model                                                                                        | FSR                                                                                                 | Ratio R 0.350                                                                       |                   |               |                  |          |          |
| Region England and Wales                                                                              | Cv (Summer) 0.750                                                                                   |                                                                                     |                   |               |                  |          |          |
| M5-60 (mm)                                                                                            | 19.000                                                                                              | Cv (Winter) 0.840                                                                   |                   |               |                  |          |          |
| Margin for Flood Risk Warning (mm)                                                                    |                                                                                                     | 300.0                                                                               |                   |               |                  |          |          |
| Analysis Timestep                                                                                     | 2.5 Second Increment (Extended)                                                                     |                                                                                     |                   |               |                  |          |          |
| DTS Status                                                                                            |                                                                                                     | OFF                                                                                 |                   |               |                  |          |          |
| DVD Status                                                                                            |                                                                                                     | ON                                                                                  |                   |               |                  |          |          |
| Inertia Status                                                                                        |                                                                                                     | ON                                                                                  |                   |               |                  |          |          |
| Profile(s)                                                                                            |                                                                                                     | Summer and Winter                                                                   |                   |               |                  |          |          |
| Duration(s) (mins)                                                                                    | 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 |                                                                                     |                   |               |                  |          |          |
| Return Period(s) (years)                                                                              |                                                                                                     | 1, 30, 100                                                                          |                   |               |                  |          |          |
| Climate Change (%)                                                                                    |                                                                                                     | 0, 0, 40                                                                            |                   |               |                  |          |          |
| PN                                                                                                    | Storm                                                                                               | Return Climate Period Change                                                        | First X Surcharge | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
| 1.000                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 100/15 Summer     | 100/15 Summer |                  |          | 4        |
| 2.000                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 100/15 Summer     |               |                  |          |          |
| 2.001                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 100/15 Summer     |               |                  |          |          |
| 2.002                                                                                                 | 15 Summer                                                                                           | 100 +40%                                                                            | 100/15 Summer     | 100/15 Summer |                  |          | 2        |
| 1.001                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 30/15 Winter      |               |                  |          |          |
| 3.000                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 30/15 Winter      | 100/15 Summer |                  |          | 4        |
| 1.002                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 30/15 Summer      |               |                  |          |          |
| 4.000                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 30/15 Summer      |               |                  |          |          |
| 1.003                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 30/15 Summer      |               |                  |          |          |
| 1.004                                                                                                 | 10080 Winter                                                                                        | 100 +40%                                                                            | 1/4320 Winter     |               |                  |          |          |
| 5.000                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 100/15 Summer     |               |                  |          |          |
| 5.001                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 100/15 Summer     |               |                  |          |          |
| 5.002                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 30/15 Summer      | 100/15 Summer |                  |          | 3        |
| 5.003                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 30/15 Summer      | 100/15 Summer |                  |          | 4        |
| 5.004                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 30/15 Summer      |               |                  |          |          |
| 5.005                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 30/15 Summer      |               |                  |          |          |
| 6.000                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 100/15 Summer     | 100/15 Summer |                  |          | 3        |
| 6.001                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 30/15 Summer      | 100/15 Summer |                  |          | 3        |
| 6.002                                                                                                 | 15 Winter                                                                                           | 100 +40%                                                                            | 30/15 Summer      | 100/15 Summer |                  |          | 2        |
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| Rogers Cory Ptn Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |               |                   |                   |                 |                  | Page 21                                                                             |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
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| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |               |                   |                   |                 |                  |  |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| Date 01/01/0001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |               |                   | Designed by Tim   |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| File SW1-STRAT SEPARATE.MDX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |               |                   | Checked by        |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |               |                   | Network 2014.1.1  |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| <u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm - Net 1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |               |                   |                   |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Storm        | Return Period | Climate Change    | First X Surcharge | First Y Flood   | First Z Overflow | O/F Act.                                                                            | Lvl Exc.   |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15 Winter    | 100           | +40%              | 30/15 Summer      |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 7.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15 Winter    | 100           | +40%              | 100/15 Summer     |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15 Winter    | 100           | +40%              | 100/15 Summer     |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 8.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15 Winter    | 100           | +40%              | 100/15 Summer     |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 8.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15 Winter    | 100           | +40%              | 100/15 Summer     |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 8.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 100/15 Summer     |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 8.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 100/2880 Winter   |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              |                   |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 30/5760 Winter    |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              |                   |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 30/2880 Winter    |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              |                   |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 1/7200 Winter     |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              |                   |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 9.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15 Winter    | 100           | +40%              |                   |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 9.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 100/2880 Winter   |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 9.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 30/4320 Winter    |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              |                   |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              |                   |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              |                   |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 1/120 Summer      |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 1/120 Summer      |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 1/60 Summer       |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 1/60 Summer       |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 1/60 Summer       |                 |                  |                                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10080 Winter | 100           | +40%              | 1/60 Summer       | 100/5760 Winter |                  |                                                                                     | 4          |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| <table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th colspan="2">Water</th><th colspan="2">Flooded</th><th colspan="2">Pipe</th><th rowspan="2">Status</th></tr><tr><th>Level (m)</th><th>Surch'd Depth (m)</th><th>Volume (m³)</th><th>Flow / Cap.</th><th>O'flow (l/s)</th><th>Pipe Flow (l/s)</th></tr><tr><td>1.000</td><td>1</td><td>6.775</td><td>0.915</td><td>15.389</td><td>0.40</td><td>0.0</td><td>151.3</td><td>FLOOD</td></tr><tr><td>2.000</td><td>15</td><td>7.179</td><td>0.834</td><td>0.000</td><td>0.56</td><td>0.0</td><td>21.3</td><td>FLOOD RISK</td></tr><tr><td>2.001</td><td>16</td><td>7.084</td><td>0.994</td><td>0.000</td><td>0.31</td><td>0.0</td><td>55.2</td><td>FLOOD RISK</td></tr><tr><td>2.002</td><td>17</td><td>6.920</td><td>1.187</td><td>0.069</td><td>0.52</td><td>0.0</td><td>129.9</td><td>FLOOD</td></tr><tr><td>1.001</td><td>2</td><td>6.794</td><td>1.266</td><td>0.000</td><td>0.97</td><td>0.0</td><td>319.7</td><td>FLOOD RISK</td></tr><tr><td>3.000</td><td>45</td><td>6.579</td><td>1.083</td><td>7.989</td><td>0.81</td><td>0.0</td><td>82.1</td><td>FLOOD</td></tr><tr><td>1.002</td><td>3</td><td>6.619</td><td>1.269</td><td>0.000</td><td>1.45</td><td>0.0</td><td>485.8</td><td>SURCHARGED</td></tr><tr><td>4.000</td><td>46</td><td>6.305</td><td>1.059</td><td>0.000</td><td>1.00</td><td>0.0</td><td>114.9</td><td>FLOOD RISK</td></tr><tr><td>1.003</td><td>4</td><td>6.144</td><td>1.018</td><td>0.000</td><td>2.16</td><td>0.0</td><td>668.5</td><td>SURCHARGED</td></tr><tr><td>1.004</td><td>5</td><td>5.739</td><td>0.763</td><td>0.000</td><td>0.03</td><td>0.0</td><td>14.5</td><td>SURCHARGED</td></tr><tr><td>5.000</td><td>18</td><td>7.488</td><td>0.863</td><td>0.000</td><td>0.75</td><td>0.0</td><td>34.2</td><td>FLOOD RISK</td></tr><tr><td>5.001</td><td>19</td><td>7.287</td><td>0.886</td><td>0.000</td><td>0.69</td><td>0.0</td><td>77.7</td><td>FLOOD RISK</td></tr><tr><td>5.002</td><td>20</td><td>7.150</td><td>0.973</td><td>0.452</td><td>0.65</td><td>0.0</td><td>126.8</td><td>FLOOD</td></tr><tr><td>5.003</td><td>21</td><td>7.040</td><td>1.102</td><td>19.908</td><td>0.70</td><td>0.0</td><td>161.6</td><td>FLOOD</td></tr><tr><td>5.004</td><td>22</td><td>7.080</td><td>1.285</td><td>0.000</td><td>0.99</td><td>0.0</td><td>203.5</td><td>FLOOD RISK</td></tr><tr><td>5.005</td><td>23</td><td>6.979</td><td>1.241</td><td>0.000</td><td>0.86</td><td>0.0</td><td>248.3</td><td>FLOOD RISK</td></tr><tr><td>6.000</td><td>28</td><td>7.171</td><td>0.976</td><td>1.130</td><td>1.06</td><td>0.0</td><td>39.1</td><td>FLOOD</td></tr><tr><td>6.001</td><td>29</td><td>6.833</td><td>1.047</td><td>3.248</td><td>1.41</td><td>0.0</td><td>147.6</td><td>FLOOD</td></tr><tr><td>6.002</td><td>30</td><td>6.631</td><td>0.978</td><td>0.892</td><td>1.58</td><td>0.0</td><td>168.9</td><td>FLOOD</td></tr></table> |              |               |                   |                   |                 |                  |                                                                                     |            | PN | US/MH Name | Water |  | Flooded |  | Pipe |  | Status | Level (m) | Surch'd Depth (m) | Volume (m³) | Flow / Cap. | O'flow (l/s) | Pipe Flow (l/s) | 1.000 | 1 | 6.775 | 0.915 | 15.389 | 0.40 | 0.0 | 151.3 | FLOOD | 2.000 | 15 | 7.179 | 0.834 | 0.000 | 0.56 | 0.0 | 21.3 | FLOOD RISK | 2.001 | 16 | 7.084 | 0.994 | 0.000 | 0.31 | 0.0 | 55.2 | FLOOD RISK | 2.002 | 17 | 6.920 | 1.187 | 0.069 | 0.52 | 0.0 | 129.9 | FLOOD | 1.001 | 2 | 6.794 | 1.266 | 0.000 | 0.97 | 0.0 | 319.7 | FLOOD RISK | 3.000 | 45 | 6.579 | 1.083 | 7.989 | 0.81 | 0.0 | 82.1 | FLOOD | 1.002 | 3 | 6.619 | 1.269 | 0.000 | 1.45 | 0.0 | 485.8 | SURCHARGED | 4.000 | 46 | 6.305 | 1.059 | 0.000 | 1.00 | 0.0 | 114.9 | FLOOD RISK | 1.003 | 4 | 6.144 | 1.018 | 0.000 | 2.16 | 0.0 | 668.5 | SURCHARGED | 1.004 | 5 | 5.739 | 0.763 | 0.000 | 0.03 | 0.0 | 14.5 | SURCHARGED | 5.000 | 18 | 7.488 | 0.863 | 0.000 | 0.75 | 0.0 | 34.2 | FLOOD RISK | 5.001 | 19 | 7.287 | 0.886 | 0.000 | 0.69 | 0.0 | 77.7 | FLOOD RISK | 5.002 | 20 | 7.150 | 0.973 | 0.452 | 0.65 | 0.0 | 126.8 | FLOOD | 5.003 | 21 | 7.040 | 1.102 | 19.908 | 0.70 | 0.0 | 161.6 | FLOOD | 5.004 | 22 | 7.080 | 1.285 | 0.000 | 0.99 | 0.0 | 203.5 | FLOOD RISK | 5.005 | 23 | 6.979 | 1.241 | 0.000 | 0.86 | 0.0 | 248.3 | FLOOD RISK | 6.000 | 28 | 7.171 | 0.976 | 1.130 | 1.06 | 0.0 | 39.1 | FLOOD | 6.001 | 29 | 6.833 | 1.047 | 3.248 | 1.41 | 0.0 | 147.6 | FLOOD | 6.002 | 30 | 6.631 | 0.978 | 0.892 | 1.58 | 0.0 | 168.9 | FLOOD |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US/MH Name   | Water         |                   | Flooded           |                 | Pipe             |                                                                                     | Status     |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              | Level (m)     | Surch'd Depth (m) | Volume (m³)       | Flow / Cap.     | O'flow (l/s)     | Pipe Flow (l/s)                                                                     |            |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1            | 6.775         | 0.915             | 15.389            | 0.40            | 0.0              | 151.3                                                                               | FLOOD      |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 2.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15           | 7.179         | 0.834             | 0.000             | 0.56            | 0.0              | 21.3                                                                                | FLOOD RISK |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 2.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16           | 7.084         | 0.994             | 0.000             | 0.31            | 0.0              | 55.2                                                                                | FLOOD RISK |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 2.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 17           | 6.920         | 1.187             | 0.069             | 0.52            | 0.0              | 129.9                                                                               | FLOOD      |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2            | 6.794         | 1.266             | 0.000             | 0.97            | 0.0              | 319.7                                                                               | FLOOD RISK |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 3.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 45           | 6.579         | 1.083             | 7.989             | 0.81            | 0.0              | 82.1                                                                                | FLOOD      |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3            | 6.619         | 1.269             | 0.000             | 1.45            | 0.0              | 485.8                                                                               | SURCHARGED |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 4.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 46           | 6.305         | 1.059             | 0.000             | 1.00            | 0.0              | 114.9                                                                               | FLOOD RISK |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4            | 6.144         | 1.018             | 0.000             | 2.16            | 0.0              | 668.5                                                                               | SURCHARGED |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 1.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5            | 5.739         | 0.763             | 0.000             | 0.03            | 0.0              | 14.5                                                                                | SURCHARGED |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18           | 7.488         | 0.863             | 0.000             | 0.75            | 0.0              | 34.2                                                                                | FLOOD RISK |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 19           | 7.287         | 0.886             | 0.000             | 0.69            | 0.0              | 77.7                                                                                | FLOOD RISK |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20           | 7.150         | 0.973             | 0.452             | 0.65            | 0.0              | 126.8                                                                               | FLOOD      |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 21           | 7.040         | 1.102             | 19.908            | 0.70            | 0.0              | 161.6                                                                               | FLOOD      |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22           | 7.080         | 1.285             | 0.000             | 0.99            | 0.0              | 203.5                                                                               | FLOOD RISK |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 5.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 23           | 6.979         | 1.241             | 0.000             | 0.86            | 0.0              | 248.3                                                                               | FLOOD RISK |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 6.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28           | 7.171         | 0.976             | 1.130             | 1.06            | 0.0              | 39.1                                                                                | FLOOD      |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 6.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 29           | 6.833         | 1.047             | 3.248             | 1.41            | 0.0              | 147.6                                                                               | FLOOD      |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
| 6.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 30           | 6.631         | 0.978             | 0.892             | 1.58            | 0.0              | 168.9                                                                               | FLOOD      |    |            |       |  |         |  |      |  |        |           |                   |             |             |              |                 |       |   |       |       |        |      |     |       |       |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |   |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |   |       |       |       |      |     |       |            |       |   |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |      |            |       |    |       |       |       |      |     |       |       |       |    |       |       |        |      |     |       |       |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |       |            |       |    |       |       |       |      |     |      |       |       |    |       |       |       |      |     |       |       |       |    |       |       |       |      |     |       |       |
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|                                                                                                       |              |              |                  |                  |               |               |                                                                                     |             |
|-------------------------------------------------------------------------------------------------------|--------------|--------------|------------------|------------------|---------------|---------------|-------------------------------------------------------------------------------------|-------------|
| Rogers Cory Ptn Ltd                                                                                   |              |              |                  |                  |               |               | Page 22                                                                             |             |
| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                    |              |              |                  |                  |               |               |  |             |
| Date 01/01/0001                                                                                       |              |              |                  | Designed by Tim  |               |               |                                                                                     |             |
| File SW1-STRAT SEPARATE.MDX                                                                           |              |              |                  | Checked by       |               |               |                                                                                     |             |
| Micro Drainage                                                                                        |              |              |                  | Network 2014.1.1 |               |               |                                                                                     |             |
| <u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm - Net 1</u> |              |              |                  |                  |               |               |                                                                                     |             |
|                                                                                                       |              | <b>Water</b> |                  | <b>Flooded</b>   |               | <b>Pipe</b>   |                                                                                     |             |
|                                                                                                       | <b>US/MH</b> | <b>Level</b> | <b>Surch'd</b>   | <b>Volume</b>    | <b>Flow /</b> | <b>O'flow</b> | <b>Flow</b>                                                                         |             |
| <b>PN</b>                                                                                             | <b>Name</b>  | <b>(m)</b>   | <b>Depth (m)</b> | <b>(m³)</b>      | <b>Cap.</b>   | <b>(l/s)</b>  | <b>(l/s)</b>                                                                        |             |
|                                                                                                       |              |              |                  |                  |               |               | <b>Status</b>                                                                       |             |
| 5.006                                                                                                 | 31           | 6.501        | 0.891            | 0.000            | 2.11          | 0.0           | 398.5                                                                               | FLOOD RISK  |
| 7.000                                                                                                 | 40           | 6.209        | 0.427            | 0.000            | 1.07          | 0.0           | 146.3                                                                               | SURCHARGED  |
| 5.007                                                                                                 | 32           | 5.983        | 0.373            | 0.000            | 1.72          | 0.0           | 540.7                                                                               | SURCHARGED  |
| 8.000                                                                                                 | 41           | 7.180        | 0.855            | 0.000            | 1.57          | 0.0           | 59.5                                                                                | FLOOD RISK  |
| 8.001                                                                                                 | 42           | 6.529        | 0.464            | 0.000            | 1.35          | 0.0           | 80.1                                                                                | FLOOD RISK  |
| 8.002                                                                                                 | 43           | 5.723        | 0.128            | 0.000            | 0.02          | 0.0           | 1.9                                                                                 | SURCHARGED  |
| 8.003                                                                                                 | 44           | 5.723        | 0.241            | 0.000            | 0.01          | 0.0           | 2.3                                                                                 | SURCHARGED  |
| 5.008                                                                                                 | 33           | 5.723        | -0.267           | 0.000            | 0.00          | 0.0           | 2.2                                                                                 | FLOOD RISK* |
| 5.009                                                                                                 | 34           | 5.723        | 0.475            | 0.000            | 0.01          | 0.0           | 2.4                                                                                 | SURCHARGED  |
| 5.010                                                                                                 | 35           | 5.723        | -0.557           | 0.000            | 0.00          | 0.0           | 2.3                                                                                 | OK          |
| 5.011                                                                                                 | 36           | 5.723        | 0.566            | 0.000            | 0.01          | 0.0           | 2.3                                                                                 | SURCHARGED  |
| 5.012                                                                                                 | 37           | 5.726        | -0.554           | 0.000            | 0.00          | 0.0           | 1.9                                                                                 | OK          |
| 5.013                                                                                                 | 38           | 5.726        | 0.722            | 0.000            | 0.01          | 0.0           | 1.9                                                                                 | SURCHARGED  |
| 5.014                                                                                                 | 39           | 5.739        | -0.591           | 0.000            | 0.00          | 0.0           | 1.6                                                                                 | OK          |
| 9.000                                                                                                 | 24           | 5.772        | -0.253           | 0.000            | 0.23          | 0.0           | 31.9                                                                                | OK          |
| 9.001                                                                                                 | 25           | 5.739        | 0.161            | 0.000            | 0.01          | 0.0           | 1.3                                                                                 | SURCHARGED  |
| 9.002                                                                                                 | 26           | 5.739        | 0.495            | 0.000            | 0.01          | 0.0           | 2.4                                                                                 | SURCHARGED  |
| 5.015                                                                                                 | 27           | 5.739        | -0.541           | 0.000            | 0.00          | 0.0           | 1.8                                                                                 | OK          |
| 1.005                                                                                                 | 6            | 5.739        | -0.261           | 0.000            | 0.00          | 0.0           | 3.0                                                                                 | FLOOD RISK* |
| 1.006                                                                                                 | 7            | 5.739        | -0.231           | 0.000            | 0.00          | 0.0           | 2.2                                                                                 | FLOOD RISK  |
| 1.007                                                                                                 | 8            | 5.769        | 1.306            | 0.000            | 0.17          | 0.0           | 50.3                                                                                | FLOOD RISK  |
| 1.008                                                                                                 | 9            | 5.800        | 1.429            | 0.000            | 0.14          | 0.0           | 42.5                                                                                | SURCHARGED  |
| 1.009                                                                                                 | 10           | 5.847        | 1.605            | 0.000            | 0.11          | 0.0           | 32.0                                                                                | SURCHARGED  |
| 1.010                                                                                                 | 11           | 5.854        | 1.687            | 0.000            | 0.08          | 0.0           | 21.7                                                                                | SURCHARGED  |
| 1.011                                                                                                 | 12           | 5.851        | 1.748            | 0.000            | 0.04          | 0.0           | 10.7                                                                                | SURCHARGED  |
| 1.012                                                                                                 | 13           | 5.846        | 1.833            | 0.407            | 0.00          | 0.0           | 0.0                                                                                 | FLOOD       |
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|                                                    |                 |                                                                                     |
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| Rogers Cory Ptn Ltd                                |                 | Page 0                                                                              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |                 |  |
| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
| File SW2-STRAT SEPARATE.MDX                        | Checked by      |                                                                                     |
| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

### STORM SEWER DESIGN by the Modified Rational Method

#### Design Criteria for Storm - Net 2

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

|                                      |        |                                       |       |
|--------------------------------------|--------|---------------------------------------|-------|
| Return Period (years)                | 2      | Add Flow / Climate Change (%)         | 10    |
| M5-60 (mm)                           | 19.000 | Minimum Backdrop Height (m)           | 0.000 |
| Ratio R                              | 0.350  | Maximum Backdrop Height (m)           | 0.000 |
| Maximum Rainfall (mm/hr)             | 50     | Min Design Depth for Optimisation (m) | 1.200 |
| Maximum Time of Concentration (mins) | 30     | Min Vel for Auto Design only (m/s)    | 1.00  |
| Foul Sewage (l/s/ha)                 | 0.000  | Min Slope for Optimisation (1:X)      | 500   |
| Volumetric Runoff Coeff.             | 0.750  |                                       |       |

Designed with Level Soffits

#### Network Design Table for Storm - Net 2

| PN     | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Auto<br>Design                                                                        |
|--------|---------------|-------------|----------------|----------------|----------------|--------------------|-----------|-------------|-------------|---------------------------------------------------------------------------------------|
| S1.000 | 13.258        | 0.158       | 84.0           | 0.000          | 5.00           | 0.0                | 0.600     | o           | 375         |  |
| S2.000 | 20.954        | 0.655       | 32.0           | 0.048          | 5.00           | 0.0                | 0.600     | o           | 375         |  |
| S3.000 | 55.510        | 0.325       | 170.8          | 0.070          | 5.00           | 0.0                | 0.600     | o           | 450         |  |
| S3.001 | 39.463        | 0.132       | 300.0          | 0.153          | 0.00           | 0.0                | 0.600     | o           | 450         |  |
| S3.002 | 25.951        | 0.150       | 173.0          | 0.088          | 0.00           | 0.0                | 0.600     | o           | 450         |  |
| S4.000 | 22.000        | 0.129       | 170.0          | 0.150          | 5.00           | 0.0                | 0.600     | o           | 450         |  |
| S4.001 | 52.519        | 0.453       | 116.0          | 0.052          | 0.00           | 0.0                | 0.600     | o           | 450         |  |
| S3.003 | 17.584        | 0.054       | 325.6          | 0.129          | 0.00           | 0.0                | 0.600     | o           | 525         |  |
| S3.004 | 23.249        | 0.072       | 325.0          | 0.046          | 0.00           | 0.0                | 0.600     | o           | 525         |  |

#### Network Results Table

| PN     | Rain<br>(mm/hr) | T.C.<br>(mins) | US/IL E<br>(m) | I.Area<br>(ha) | E Base<br>Flow (l/s) | Foul<br>(l/s) | Add Flow<br>(l/s) | Vel<br>(m/s) | Cap<br>(l/s) | Flow<br>(l/s) |
|--------|-----------------|----------------|----------------|----------------|----------------------|---------------|-------------------|--------------|--------------|---------------|
| S1.000 | 50.00           | 5.11           | 4.600          | 0.000          | 0.0                  | 0.0           | 0.0               | 1.98         | 218.5        | 0.0           |
| S2.000 | 50.00           | 5.11           | 5.142          | 0.048          | 0.0                  | 0.0           | 0.6               | 3.21         | 354.9        | 7.1           |
| S3.000 | 50.00           | 5.60           | 5.150          | 0.070          | 0.0                  | 0.0           | 0.9               | 1.55         | 246.9        | 10.4          |
| S3.001 | 50.00           | 6.16           | 4.823          | 0.223          | 0.0                  | 0.0           | 3.0               | 1.17         | 185.8        | 33.2          |
| S3.002 | 50.00           | 6.44           | 4.691          | 0.311          | 0.0                  | 0.0           | 4.2               | 1.54         | 245.4        | 46.3          |
| S4.000 | 50.00           | 5.24           | 5.210          | 0.150          | 0.0                  | 0.0           | 2.0               | 1.56         | 247.5        | 22.3          |
| S4.001 | 50.00           | 5.70           | 5.075          | 0.202          | 0.0                  | 0.0           | 2.7               | 1.89         | 300.1        | 30.1          |
| S3.003 | 50.00           | 6.68           | 4.546          | 0.642          | 0.0                  | 0.0           | 8.7               | 1.24         | 267.5        | 95.6          |
| S3.004 | 50.00           | 6.99           | 4.491          | 0.688          | 0.0                  | 0.0           | 9.3               | 1.24         | 267.8        | 102.5         |

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|                                                    |  |  |  |  |  |                  |  |  |  |                                                                                     |  |
|----------------------------------------------------|--|--|--|--|--|------------------|--|--|--|-------------------------------------------------------------------------------------|--|
| Rogers Cory Ptn Ltd                                |  |  |  |  |  |                  |  |  |  | Page 1                                                                              |  |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |  |  |  |  |  |                  |  |  |  |  |  |
| Date 01/01/0001                                    |  |  |  |  |  | Designed by Tim  |  |  |  |                                                                                     |  |
| File SW2-STRAT SEPARATE.MDX                        |  |  |  |  |  | Checked by       |  |  |  |                                                                                     |  |
| Micro Drainage                                     |  |  |  |  |  | Network 2014.1.1 |  |  |  |                                                                                     |  |

Network Design Table for Storm - Net 2

| PN     | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Auto<br>Design                                                                      |
|--------|---------------|-------------|----------------|----------------|----------------|--------------------|-----------|-------------|-------------|-------------------------------------------------------------------------------------|
| S3.005 | 31.226        | 0.104       | 300.0          | 0.039          | 0.00           | 0.0                | 0.600     | o           | 525         |  |
| S2.001 | 18.031        | 0.036       | 500.0          | 0.075          | 0.00           | 0.0                | 0.600     | o           | 600         |  |
| S1.001 | 8.840         | 0.022       | 405.0          | 0.000          | 0.00           | 0.0                | 0.600     | oo          | 450         |  |
| S1.002 | 19.772        | 0.040       | 500.0          | 0.000          | 0.00           | 0.0                | 0.600     | o           | 600         |  |
| S1.003 | 16.254        | 0.041       | 396.4          | 0.000          | 0.00           | 0.0                | 0.600     | o           | 600         |  |
| S1.004 | 4.800         | 0.012       | 400.0          | 0.000          | 0.00           | 0.0                | 0.600     | o           | 600         |  |

Network Results Table

| PN     | Rain<br>(mm/hr) | T.C.<br>(mins) | US/IL<br>(m) | I.Area<br>(ha) | Base<br>Flow (l/s) | Foul<br>Flow (l/s) | Add Flow<br>(l/s) | Vel<br>(m/s) | Cap<br>(l/s) | Flow<br>(l/s) |
|--------|-----------------|----------------|--------------|----------------|--------------------|--------------------|-------------------|--------------|--------------|---------------|
| S3.005 | 50.00           | 7.39           | 4.419        | 0.727          | 0.0                | 0.0                | 9.8               | 1.29         | 278.8        | 108.3         |
| S2.001 | 50.00           | 7.67           | 4.261        | 0.850          | 0.0                | 0.0                | 11.5              | 1.08         | 306.0        | 126.6         |
| S1.001 | 50.00           | 7.82           | 4.114        | 0.850          | 0.0                | 0.0                | 11.5              | 1.00         | 319.4        | 126.6         |
| S1.002 | 50.00           | 8.12           | 4.093        | 0.850          | 0.0                | 0.0                | 11.5              | 1.08         | 306.0        | 126.6         |
| S1.003 | 49.54           | 8.35           | 4.053        | 0.850          | 0.0                | 0.0                | 11.5              | 1.22         | 344.1        | 126.6         |
| S1.004 | 49.35           | 8.41           | 4.012        | 0.850          | 0.0                | 0.0                | 11.5              | 1.21         | 342.5        | 126.6         |

Free Flowing Outfall Details for Storm - Net 2

| Outfall<br>Pipe Number | Outfall<br>Name | C. Level<br>(m) | I. Level<br>(m) | Min<br>I. Level<br>(m) | D,L<br>(mm) | W<br>(mm) |
|------------------------|-----------------|-----------------|-----------------|------------------------|-------------|-----------|
| S1.004                 | S52             | 5.500           | 4.000           | 0.000                  | 0           | 0         |

Simulation Criteria for Storm - Net 2

|                                 |       |                                     |        |
|---------------------------------|-------|-------------------------------------|--------|
| Volumetric Runoff Coeff         | 0.750 | Additional Flow - % of Total Flow   | 10.000 |
| Areal Reduction Factor          | 1.000 | MADD Factor * 10m³/ha Storage       | 2.000  |
| Hot Start (mins)                | 0     | Inlet Coefficient                   | 0.800  |
| Hot Start Level (mm)            | 0     | Flow per Person per Day (l/per/day) | 0.000  |
| Manhole Headloss Coeff (Global) | 0.500 | Run Time (mins)                     | 60     |
| Foul Sewage per hectare (l/s)   | 0.000 | Output Interval (mins)              | 1      |
| Number of Input Hydrographs     | 0     | Number of Storage Structures        | 3      |
| Number of Online Controls       | 1     | Number of Time/Area Diagrams        | 0      |
| Number of Offline Controls      | 0     | Number of Real Time Controls        | 0      |

Synthetic Rainfall Details

|                       |     |            |                   |
|-----------------------|-----|------------|-------------------|
| Rainfall Model        | FSR | Region     | England and Wales |
| Return Period (years) | 2   | M5-60 (mm) | 19.000            |

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|                                                                                                                                                                                                                                                   |                 |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|
| Rogers Cory Ptn Ltd                                                                                                                                                                                                                               |                 | Page 2                                                                              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                                                                                                                                                                |                 |  |
| Date 01/01/0001                                                                                                                                                                                                                                   | Designed by Tim |                                                                                     |
| File SW2-STRAT SEPARATE.MDX                                                                                                                                                                                                                       | Checked by      |                                                                                     |
| Micro Drainage                                                                                                                                                                                                                                    |                 | Network 2014.1.1                                                                    |
| <p style="text-align: center;"><u>Synthetic Rainfall Details</u></p> <p style="text-align: center;"> Ratio R    0.350                      Cv (Winter)   0.840<br/> Profile Type Summer Storm Duration (mins)    30<br/> Cv (Summer)   0.750 </p> |                 |                                                                                     |
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|                                                    |                 |                                                                                     |
|----------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|
| Rogers Cory Ptn Ltd                                |                 | Page 3                                                                              |
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| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
| File SW2-STRAT SEPARATE.MDX                        | Checked by      |                                                                                     |
| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

Online Controls for Storm - Net 2

Hydro-Brake Optimum® Manhole: S51a, DS/PN: S1.004, Volume (m³): 9.2

|                                   |                            |
|-----------------------------------|----------------------------|
| Unit Reference                    | MD-SHE-0086-3500-1200-3500 |
| Design Head (m)                   | 1.200                      |
| Design Flow (l/s)                 | 3.5                        |
| Flush-Flo™                        | Calculated                 |
| Objective                         | Minimise upstream storage  |
| Diameter (mm)                     | 86                         |
| Invert Level (m)                  | 4.012                      |
| Minimum Outlet Pipe Diameter (mm) | 100                        |
| Suggested Manhole Diameter (mm)   | 1200                       |

| Control Points            | Head (m) | Flow (l/s) |
|---------------------------|----------|------------|
| Design Point (Calculated) | 1.200    | 3.5        |
| Flush-Flo™                | 0.364    | 3.5        |
| Kick-Flo®                 | 0.741    | 2.8        |
| Mean Flow over Head Range | -        | 3.1        |

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     | 2.6        | 1.200     | 3.5        | 3.000     | 5.3        | 7.000     | 7.9        |
| 0.200     | 3.3        | 1.400     | 3.7        | 3.500     | 5.7        | 7.500     | 8.2        |
| 0.300     | 3.5        | 1.600     | 4.0        | 4.000     | 6.1        | 8.000     | 8.5        |
| 0.400     | 3.5        | 1.800     | 4.2        | 4.500     | 6.4        | 8.500     | 8.7        |
| 0.500     | 3.4        | 2.000     | 4.4        | 5.000     | 6.8        | 9.000     | 9.0        |
| 0.600     | 3.3        | 2.200     | 4.6        | 5.500     | 7.1        | 9.500     | 9.2        |
| 0.800     | 2.9        | 2.400     | 4.8        | 6.000     | 7.4        |           |            |
| 1.000     | 3.2        | 2.600     | 5.0        | 6.500     | 7.7        |           |            |

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|                                                    |                 |                                                                                     |
|----------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|
| Rogers Cory Ptn Ltd                                |                 | Page 4                                                                              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |                 |  |
| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
| File SW2-STRAT SEPARATE.MDX                        | Checked by      |                                                                                     |
| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

Storage Structures for Storm - Net 2

Tank or Pond Manhole: S48, DS/PN: S1.000

Invert Level (m) 4.600

| Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) |
|-----------|------------------------|-----------|------------------------|
| 0.000     | 95.2                   | 1.180     | 325.6                  |

Tank or Pond Manhole: S49, DS/PN: S1.001

Invert Level (m) 4.225

| Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) |
|-----------|------------------------|-----------|------------------------|-----------|------------------------|
| 0.000     | 140.0                  | 1.200     | 140.0                  | 1.210     | 0.0                    |

Tank or Pond Manhole: S51, DS/PN: S1.003

Invert Level (m) 4.167

| Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) |
|-----------|------------------------|-----------|------------------------|
| 0.000     | 121.6                  | 1.333     | 374.2                  |

|                                                    |                 |                                                                                     |
|----------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|
| Rogers Cory Ptn Ltd                                |                 | Page 5                                                                              |
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| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
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| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

1 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for Storm - Net 2

Simulation Criteria

|                                 |       |                                     |        |
|---------------------------------|-------|-------------------------------------|--------|
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow   | 10.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m³/ha Storage       | 2.000  |
| Hot Start Level (mm)            | 0     | Inlet Coefficient                   | 0.800  |
| Manhole Headloss Coeff (Global) | 0.500 | Flow per Person per Day (l/per/day) | 0.000  |
| Foul Sewage per hectare (l/s)   | 0.000 |                                     |        |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 3 |
| Number of Online Controls   | 1 | Number of Time/Area Diagrams | 0 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

Synthetic Rainfall Details

|                                      |        |             |       |
|--------------------------------------|--------|-------------|-------|
| Rainfall Model                       | FSR    | Ratio R     | 0.350 |
| Region England and Wales Cv (Summer) | 0.750  |             |       |
| M5-60 (mm)                           | 19.000 | Cv (Winter) | 0.840 |

|                                    |                                 |
|------------------------------------|---------------------------------|
| Margin for Flood Risk Warning (mm) | 300.0                           |
| Analysis Timestep                  | 2.5 Second Increment (Extended) |
| DTS Status                         | OFF                             |
| DVD Status                         | ON                              |
| Inertia Status                     | ON                              |

|                          |                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------|
| Profile(s)               | Summer and Winter                                                                                   |
| Duration(s) (mins)       | 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 |
| Return Period(s) (years) | 1, 30, 100                                                                                          |
| Climate Change (%)       | 0, 0, 40                                                                                            |

| PN     | Storm      | Return Climate Period | Climate Change | First X Surchage | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
|--------|------------|-----------------------|----------------|------------------|---------------|------------------|----------|----------|
| S1.000 | 360 Winter | 1                     | 0%             | 100/60           | Summer        |                  |          |          |
| S2.000 | 15 Winter  | 1                     | 0%             |                  |               |                  |          |          |
| S3.000 | 15 Winter  | 1                     | 0%             | 100/15           | Summer        |                  |          |          |
| S3.001 | 15 Winter  | 1                     | 0%             | 100/15           | Summer        |                  |          |          |
| S3.002 | 15 Winter  | 1                     | 0%             | 30/15            | Winter        |                  |          |          |
| S4.000 | 15 Winter  | 1                     | 0%             | 100/15           | Winter        |                  |          |          |
| S4.001 | 15 Winter  | 1                     | 0%             | 100/15           | Winter        |                  |          |          |
| S3.003 | 15 Winter  | 1                     | 0%             | 30/15            | Winter        |                  |          |          |
| S3.004 | 15 Winter  | 1                     | 0%             | 30/15            | Winter        |                  |          |          |
| S3.005 | 15 Winter  | 1                     | 0%             | 30/15            | Winter        |                  |          |          |
| S2.001 | 15 Winter  | 1                     | 0%             | 30/240           | Winter        |                  |          |          |
| S1.001 | 360 Winter | 1                     | 0%             | 30/15            | Winter        |                  |          |          |
| S1.002 | 360 Winter | 1                     | 0%             | 30/60            | Summer        |                  |          |          |
| S1.003 | 360 Winter | 1                     | 0%             | 30/30            | Winter        |                  |          |          |
| S1.004 | 360 Winter | 1                     | 0%             | 30/30            | Summer        |                  |          |          |

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|                                                                                                               |              |                 |                  |                                                                                     |               |               |              |               |
|---------------------------------------------------------------------------------------------------------------|--------------|-----------------|------------------|-------------------------------------------------------------------------------------|---------------|---------------|--------------|---------------|
| Rogers Cory Ptn Ltd                                                                                           |              |                 |                  |                                                                                     |               |               | Page 6       |               |
| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                            |              |                 |                  |  |               |               |              |               |
| Date 01/01/0001                                                                                               |              | Designed by Tim |                  |                                                                                     |               |               |              |               |
| File SW2-STRAT SEPARATE.MDX                                                                                   |              | Checked by      |                  |                                                                                     |               |               |              |               |
| Micro Drainage                                                                                                |              |                 |                  | Network 2014.1.1                                                                    |               |               |              |               |
| <u>1 year Return Period Summary of Critical Results by Maximum Level (Rank 1)</u><br><u>for Storm - Net 2</u> |              |                 |                  |                                                                                     |               |               |              |               |
|                                                                                                               |              | <b>Water</b>    |                  | <b>Flooded</b>                                                                      |               | <b>Pipe</b>   |              |               |
|                                                                                                               | <b>US/MH</b> | <b>Level</b>    | <b>Surch'd</b>   | <b>Volume</b>                                                                       | <b>Flow /</b> | <b>O'flow</b> | <b>Flow</b>  |               |
| <b>PN</b>                                                                                                     | <b>Name</b>  | <b>(m)</b>      | <b>Depth (m)</b> | <b>(m³)</b>                                                                         | <b>Cap.</b>   | <b>(l/s)</b>  | <b>(l/s)</b> | <b>Status</b> |
| S1.000                                                                                                        | S48          | 4.600           | -0.375           | 0.000                                                                               | 0.00          | 0.0           | 0.0          | OK            |
| S2.000                                                                                                        | S53          | 5.180           | -0.337           | 0.000                                                                               | 0.02          | 0.0           | 6.7          | OK            |
| S3.000                                                                                                        | S55          | 5.210           | -0.390           | 0.000                                                                               | 0.04          | 0.0           | 9.5          | OK            |
| S3.001                                                                                                        | S56          | 4.945           | -0.328           | 0.000                                                                               | 0.16          | 0.0           | 26.7         | OK            |
| S3.002                                                                                                        | S57          | 4.830           | -0.311           | 0.000                                                                               | 0.17          | 0.0           | 36.1         | OK            |
| S4.000                                                                                                        | S61          | 5.306           | -0.354           | 0.000                                                                               | 0.10          | 0.0           | 20.6         | OK            |
| S4.001                                                                                                        | S62          | 5.170           | -0.355           | 0.000                                                                               | 0.10          | 0.0           | 26.6         | OK            |
| S3.003                                                                                                        | S58          | 4.768           | -0.303           | 0.000                                                                               | 0.37          | 0.0           | 74.7         | OK            |
| S3.004                                                                                                        | S59          | 4.714           | -0.302           | 0.000                                                                               | 0.36          | 0.0           | 77.9         | OK            |
| S3.005                                                                                                        | S60          | 4.641           | -0.303           | 0.000                                                                               | 0.34          | 0.0           | 81.0         | OK            |
| S2.001                                                                                                        | S54          | 4.553           | -0.308           | 0.000                                                                               | 0.48          | 0.0           | 91.1         | OK            |
| S1.001                                                                                                        | S49          | 4.523           | -0.041           | 0.000                                                                               | 0.07          | 0.0           | 12.5         | OK            |
| S1.002                                                                                                        | S50          | 4.522           | -0.171           | 0.000                                                                               | 0.06          | 0.0           | 12.1         | OK            |
| S1.003                                                                                                        | S51          | 4.521           | -0.132           | 0.000                                                                               | 0.02          | 0.0           | 4.3          | OK            |
| S1.004                                                                                                        | S51a         | 4.520           | -0.092           | 0.000                                                                               | 0.02          | 0.0           | 3.5          | OK            |
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|                                                    |                 |                                                                                     |
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| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
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| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for Storm - Net 2

Simulation Criteria

|                                 |       |                                     |        |
|---------------------------------|-------|-------------------------------------|--------|
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow   | 10.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m³/ha Storage       | 2.000  |
| Hot Start Level (mm)            | 0     | Inlet Coefficient                   | 0.800  |
| Manhole Headloss Coeff (Global) | 0.500 | Flow per Person per Day (l/per/day) | 0.000  |
| Foul Sewage per hectare (l/s)   | 0.000 |                                     |        |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 3 |
| Number of Online Controls   | 1 | Number of Time/Area Diagrams | 0 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

Synthetic Rainfall Details

|                |                   |             |       |
|----------------|-------------------|-------------|-------|
| Rainfall Model | FSR               | Ratio R     | 0.350 |
| Region         | England and Wales | Cv (Summer) | 0.750 |
| M5-60 (mm)     | 19.000            | Cv (Winter) | 0.840 |

|                                    |                                 |
|------------------------------------|---------------------------------|
| Margin for Flood Risk Warning (mm) | 300.0                           |
| Analysis Timestep                  | 2.5 Second Increment (Extended) |
| DTS Status                         | OFF                             |
| DVD Status                         | ON                              |
| Inertia Status                     | ON                              |

|                          |                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------|
| Profile(s)               | Summer and Winter                                                                                   |
| Duration(s) (mins)       | 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 |
| Return Period(s) (years) | 1, 30, 100                                                                                          |
| Climate Change (%)       | 0, 0, 40                                                                                            |

| PN     | Storm      | Return Climate Period | Climate Change | First X Surchage | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
|--------|------------|-----------------------|----------------|------------------|---------------|------------------|----------|----------|
| S1.000 | 600 Winter | 30                    | 0%             | 100/60           | Summer        |                  |          |          |
| S2.000 | 15 Winter  | 30                    | 0%             |                  |               |                  |          |          |
| S3.000 | 15 Winter  | 30                    | 0%             | 100/15           | Summer        |                  |          |          |
| S3.001 | 15 Winter  | 30                    | 0%             | 100/15           | Summer        |                  |          |          |
| S3.002 | 15 Winter  | 30                    | 0%             | 30/15            | Winter        |                  |          |          |
| S4.000 | 15 Winter  | 30                    | 0%             | 100/15           | Winter        |                  |          |          |
| S4.001 | 15 Winter  | 30                    | 0%             | 100/15           | Winter        |                  |          |          |
| S3.003 | 15 Winter  | 30                    | 0%             | 30/15            | Winter        |                  |          |          |
| S3.004 | 15 Winter  | 30                    | 0%             | 30/15            | Winter        |                  |          |          |
| S3.005 | 15 Winter  | 30                    | 0%             | 30/15            | Winter        |                  |          |          |
| S2.001 | 600 Winter | 30                    | 0%             | 30/240           | Winter        |                  |          |          |
| S1.001 | 600 Winter | 30                    | 0%             | 30/15            | Winter        |                  |          |          |
| S1.002 | 600 Winter | 30                    | 0%             | 30/60            | Summer        |                  |          |          |
| S1.003 | 600 Winter | 30                    | 0%             | 30/30            | Winter        |                  |          |          |
| S1.004 | 600 Winter | 30                    | 0%             | 30/30            | Summer        |                  |          |          |

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|                                                                                                                |              |              |                  |                  |               |               |                                                                                     |               |
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| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                             |              |              |                  |                  |               |               |  |               |
| Date 01/01/0001                                                                                                |              |              |                  | Designed by Tim  |               |               |                                                                                     |               |
| File SW2-STRAT SEPARATE.MDX                                                                                    |              |              |                  | Checked by       |               |               |                                                                                     |               |
| Micro Drainage                                                                                                 |              |              |                  | Network 2014.1.1 |               |               |                                                                                     |               |
| <u>30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)</u><br><u>for Storm - Net 2</u> |              |              |                  |                  |               |               |                                                                                     |               |
|                                                                                                                |              | <b>Water</b> |                  | <b>Flooded</b>   |               | <b>Pipe</b>   |                                                                                     |               |
|                                                                                                                | <b>US/MH</b> | <b>Level</b> | <b>Surch'd</b>   | <b>Volume</b>    | <b>Flow /</b> | <b>O'flow</b> | <b>Flow</b>                                                                         |               |
| <b>PN</b>                                                                                                      | <b>Name</b>  | <b>(m)</b>   | <b>Depth (m)</b> | <b>(m³)</b>      | <b>Cap.</b>   | <b>(l/s)</b>  | <b>(l/s)</b>                                                                        | <b>Status</b> |
| S1.000                                                                                                         | S48          | 4.922        | -0.053           | 0.000            | 0.01          | 0.0           | 1.0                                                                                 | OK            |
| S2.000                                                                                                         | S53          | 5.198        | -0.319           | 0.000            | 0.05          | 0.0           | 16.3                                                                                | OK            |
| S3.000                                                                                                         | S55          | 5.256        | -0.344           | 0.000            | 0.10          | 0.0           | 23.3                                                                                | OK            |
| S3.001                                                                                                         | S56          | 5.244        | -0.029           | 0.000            | 0.42          | 0.0           | 69.7                                                                                | OK            |
| S3.002                                                                                                         | S57          | 5.180        | 0.039            | 0.000            | 0.42          | 0.0           | 86.9                                                                                | SURCHARGED    |
| S4.000                                                                                                         | S61          | 5.363        | -0.297           | 0.000            | 0.25          | 0.0           | 50.5                                                                                | OK            |
| S4.001                                                                                                         | S62          | 5.229        | -0.296           | 0.000            | 0.25          | 0.0           | 68.1                                                                                | OK            |
| S3.003                                                                                                         | S58          | 5.072        | 0.001            | 0.000            | 0.89          | 0.0           | 181.1                                                                               | SURCHARGED    |
| S3.004                                                                                                         | S59          | 5.026        | 0.010            | 0.000            | 0.88          | 0.0           | 188.3                                                                               | SURCHARGED    |
| S3.005                                                                                                         | S60          | 4.947        | 0.003            | 0.000            | 0.77          | 0.0           | 180.0                                                                               | SURCHARGED    |
| S2.001                                                                                                         | S54          | 4.923        | 0.062            | 0.000            | 0.15          | 0.0           | 28.3                                                                                | SURCHARGED    |
| S1.001                                                                                                         | S49          | 4.923        | 0.359            | 0.000            | 0.14          | 0.0           | 25.3                                                                                | SURCHARGED    |
| S1.002                                                                                                         | S50          | 4.923        | 0.230            | 0.000            | 0.12          | 0.0           | 25.1                                                                                | SURCHARGED    |
| S1.003                                                                                                         | S51          | 4.923        | 0.270            | 0.000            | 0.03          | 0.0           | 5.9                                                                                 | SURCHARGED    |
| S1.004                                                                                                         | S51a         | 4.961        | 0.349            | 0.000            | 0.02          | 0.0           | 3.5                                                                                 | SURCHARGED    |
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| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm - Net 2

Simulation Criteria

|                                 |       |                                     |        |
|---------------------------------|-------|-------------------------------------|--------|
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow   | 10.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m³/ha Storage       | 2.000  |
| Hot Start Level (mm)            | 0     | Inlet Coefficient                   | 0.800  |
| Manhole Headloss Coeff (Global) | 0.500 | Flow per Person per Day (l/per/day) | 0.000  |
| Foul Sewage per hectare (l/s)   | 0.000 |                                     |        |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 3 |
| Number of Online Controls   | 1 | Number of Time/Area Diagrams | 0 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

Synthetic Rainfall Details

|                                      |        |             |       |
|--------------------------------------|--------|-------------|-------|
| Rainfall Model                       | FSR    | Ratio R     | 0.350 |
| Region England and Wales Cv (Summer) | 0.750  |             |       |
| M5-60 (mm)                           | 19.000 | Cv (Winter) | 0.840 |

|                                    |                                 |
|------------------------------------|---------------------------------|
| Margin for Flood Risk Warning (mm) | 300.0                           |
| Analysis Timestep                  | 2.5 Second Increment (Extended) |
| DTS Status                         | OFF                             |
| DVD Status                         | ON                              |
| Inertia Status                     | ON                              |

|                          |                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------|
| Profile(s)               | Summer and Winter                                                                                   |
| Duration(s) (mins)       | 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 |
| Return Period(s) (years) | 1, 30, 100                                                                                          |
| Climate Change (%)       | 0, 0, 40                                                                                            |

| PN     | Storm      | Return Period | Climate Change | First X Surchage | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
|--------|------------|---------------|----------------|------------------|---------------|------------------|----------|----------|
| S1.000 | 960 Winter | 100           | +40%           | 100/60           | Summer        |                  |          |          |
| S2.000 | 960 Winter | 100           | +40%           |                  |               |                  |          |          |
| S3.000 | 15 Winter  | 100           | +40%           | 100/15           | Summer        |                  |          |          |
| S3.001 | 15 Winter  | 100           | +40%           | 100/15           | Summer        |                  |          |          |
| S3.002 | 15 Winter  | 100           | +40%           | 30/15            | Winter        |                  |          |          |
| S4.000 | 15 Winter  | 100           | +40%           | 100/15           | Winter        |                  |          |          |
| S4.001 | 15 Winter  | 100           | +40%           | 100/15           | Winter        |                  |          |          |
| S3.003 | 15 Winter  | 100           | +40%           | 30/15            | Winter        |                  |          |          |
| S3.004 | 960 Winter | 100           | +40%           | 30/15            | Winter        |                  |          |          |
| S3.005 | 960 Winter | 100           | +40%           | 30/15            | Winter        |                  |          |          |
| S2.001 | 960 Winter | 100           | +40%           | 30/240           | Winter        |                  |          |          |
| S1.001 | 960 Winter | 100           | +40%           | 30/15            | Winter        |                  |          |          |
| S1.002 | 960 Winter | 100           | +40%           | 30/60            | Summer        |                  |          |          |
| S1.003 | 960 Winter | 100           | +40%           | 30/30            | Winter        |                  |          |          |
| S1.004 | 960 Winter | 100           | +40%           | 30/30            | Summer        |                  |          |          |

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| File SW2-STRAT SEPARATE.MDX                        | Checked by      |                  |
| Micro Drainage                                     |                 | Network 2014.1.1 |

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm - Net 2

| PN     | US/MH Name | Water     |                   | Flooded     |             | Pipe         |                 | Status     |
|--------|------------|-----------|-------------------|-------------|-------------|--------------|-----------------|------------|
|        |            | Level (m) | Surch'd Depth (m) | Volume (m³) | Flow / Cap. | O'flow (1/s) | Pipe Flow (1/s) |            |
| S1.000 | S48        | 5.425     | 0.450             | 0.000       | 0.01        | 0.0          | 1.3             | SURCHARGED |
| S2.000 | S53        | 5.426     | -0.091            | 0.000       | 0.01        | 0.0          | 2.2             | OK         |
| S3.000 | S55        | 5.792     | 0.192             | 0.000       | 0.16        | 0.0          | 35.1            | SURCHARGED |
| S3.001 | S56        | 5.682     | 0.409             | 0.000       | 0.63        | 0.0          | 104.4           | SURCHARGED |
| S3.002 | S57        | 5.582     | 0.441             | 0.000       | 0.70        | 0.0          | 145.4           | SURCHARGED |
| S4.000 | S61        | 5.728     | 0.068             | 0.000       | 0.45        | 0.0          | 90.7            | SURCHARGED |
| S4.001 | S62        | 5.605     | 0.080             | 0.000       | 0.39        | 0.0          | 108.0           | SURCHARGED |
| S3.003 | S58        | 5.460     | 0.389             | 0.000       | 1.42        | 0.0          | 289.0           | SURCHARGED |
| S3.004 | S59        | 5.428     | 0.412             | 0.000       | 0.14        | 0.0          | 31.0            | SURCHARGED |
| S3.005 | S60        | 5.427     | 0.483             | 0.000       | 0.14        | 0.0          | 32.6            | SURCHARGED |
| S2.001 | S54        | 5.426     | 0.565             | 0.000       | 0.20        | 0.0          | 37.9            | SURCHARGED |
| S1.001 | S49        | 5.425     | 0.861             | 0.000       | 0.13        | 0.0          | 24.0            | SURCHARGED |
| S1.002 | S50        | 5.425     | 0.732             | 0.000       | 0.12        | 0.0          | 23.8            | SURCHARGED |
| S1.003 | S51        | 5.425     | 0.772             | 0.000       | 0.03        | 0.0          | 6.4             | FLOOD RISK |
| S1.004 | S51a       | 5.464     | 0.852             | 0.000       | 0.02        | 0.0          | 3.6             | FLOOD RISK |

|                                                    |                 |                                                                                     |
|----------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|
| Rogers Cory Ptn Ltd                                |                 | Page 0                                                                              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ |                 |  |
| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
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| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm - Net 3

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

|                                      |        |                                       |       |
|--------------------------------------|--------|---------------------------------------|-------|
| Return Period (years)                | 2      | Add Flow / Climate Change (%)         | 10    |
| M5-60 (mm)                           | 19.000 | Minimum Backdrop Height (m)           | 0.000 |
| Ratio R                              | 0.350  | Maximum Backdrop Height (m)           | 0.000 |
| Maximum Rainfall (mm/hr)             | 50     | Min Design Depth for Optimisation (m) | 1.200 |
| Maximum Time of Concentration (mins) | 30     | Min Vel for Auto Design only (m/s)    | 1.00  |
| Foul Sewage (l/s/ha)                 | 0.000  | Min Slope for Optimisation (1:X)      | 500   |
| Volumetric Runoff Coeff.             | 0.750  |                                       |       |

Designed with Level Soffits

Network Design Table for Storm - Net 3

| PN     | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Auto<br>Design |
|--------|---------------|-------------|----------------|----------------|----------------|--------------------|-----------|-------------|-------------|----------------|
| S1.000 | 14.269        | 0.096       | 148.6          | 0.000          | 5.00           | 0.0                | 0.600     | o           | 375         | ⚙              |
| S1.001 | 23.185        | 0.155       | 149.6          | 0.182          | 0.00           | 0.0                | 0.600     | o           | 450         | ⚙              |
| S1.002 | 61.727        | 0.461       | 133.9          | 0.103          | 0.00           | 0.0                | 0.600     | o           | 525         | ⚙              |
| S1.003 | 21.771        | 0.090       | 241.9          | 0.115          | 0.00           | 0.0                | 0.600     | o           | 600         | ⚙              |
| S1.004 | 27.991        | 0.076       | 368.3          | 0.154          | 0.00           | 0.0                | 0.600     | o           | 750         | ⚙              |
| S1.005 | 7.811         | 0.023       | 339.6          | 0.000          | 0.00           | 0.0                | 0.600     | o           | 750         | ⚙              |
| S1.006 | 3.074         | 0.023       | 133.7          | 0.000          | 0.00           | 0.0                | 0.600     | o           | 750         | ⚙              |

Network Results Table

| PN     | Rain<br>(mm/hr) | T.C.<br>(mins) | US/IL<br>(m) | Σ I.Area<br>(ha) | Σ Base<br>Flow (l/s) | Foul<br>(l/s) | Add Flow<br>(l/s) | Vel<br>(m/s) | Cap<br>(l/s) | Flow<br>(l/s) |
|--------|-----------------|----------------|--------------|------------------|----------------------|---------------|-------------------|--------------|--------------|---------------|
| S1.000 | 50.00           | 5.16           | 5.120        | 0.000            | 0.0                  | 0.0           | 0.0               | 1.48         | 163.9        | 0.0           |
| S1.001 | 50.00           | 5.39           | 4.949        | 0.182            | 0.0                  | 0.0           | 2.5               | 1.66         | 264.0        | 27.1          |
| S1.002 | 50.00           | 5.92           | 4.719        | 0.285            | 0.0                  | 0.0           | 3.9               | 1.93         | 418.7        | 42.5          |
| S1.003 | 50.00           | 6.16           | 4.183        | 0.400            | 0.0                  | 0.0           | 5.4               | 1.56         | 441.4        | 59.6          |
| S1.004 | 50.00           | 6.48           | 3.943        | 0.554            | 0.0                  | 0.0           | 7.5               | 1.45         | 641.6        | 82.5          |
| S1.005 | 50.00           | 6.56           | 3.867        | 0.554            | 0.0                  | 0.0           | 7.5               | 1.51         | 668.4        | 82.5          |
| S1.006 | 50.00           | 6.59           | 3.844        | 0.554            | 0.0                  | 0.0           | 7.5               | 2.42         | 1068.7       | 82.5          |

Free Flowing Outfall Details for Storm - Net 3

| Outfall<br>Pipe Number | Outfall<br>Name | C. Level<br>(m) | I. Level<br>(m) | Min<br>I. Level<br>(m) | D,L<br>(mm) | W<br>(mm) |
|------------------------|-----------------|-----------------|-----------------|------------------------|-------------|-----------|
| S1.006                 | S60             | 5.500           | 3.821           | 0.000                  | 0           | 0         |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|
| Rogers Cory Ptn Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | Page 1                                                                              |
| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |  |
| Date 01/01/0001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Designed by Tim |                                                                                     |
| File SW3-STRAT SEPARATE.MDX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Checked by      |                                                                                     |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 | Network 2014.1.1                                                                    |
| <p style="text-align: center;"><u>Simulation Criteria for Storm - Net 3</u></p> <p> Volumetric Runoff Coeff 0.840      Additional Flow - % of Total Flow 10.000<br/> Areal Reduction Factor 1.000      MADD Factor * 10m³/ha Storage 2.000<br/> Hot Start (mins) 0      Inlet Coefficient 0.800<br/> Hot Start Level (mm) 0      Flow per Person per Day (l/per/day) 0.000<br/> Manhole Headloss Coeff (Global) 0.500      Run Time (mins) 480<br/> Foul Sewage per hectare (l/s) 0.000      Output Interval (mins) 4 </p> <p> Number of Input Hydrographs 0      Number of Storage Structures 1<br/> Number of Online Controls 1      Number of Time/Area Diagrams 0<br/> Number of Offline Controls 0      Number of Real Time Controls 0 </p> <p style="text-align: center;"><u>Synthetic Rainfall Details</u></p> <p> Rainfall Model      FSR      Profile Type Winter<br/> Return Period (years) 100      Cv (Summer) 0.750<br/> Region England and Wales      Cv (Winter) 0.840<br/> M5-60 (mm) 19.000      Storm Duration (mins) 240<br/> Ratio R 0.350 </p> |                 |                                                                                     |
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|                                                    |                 |                                                                                     |
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| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
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| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

Online Controls for Storm - Net 3

Hydro-Brake Optimum® Manhole: S59a, DS/PN: S1.006, Volume (m³): 8.3

|                                           |                           |
|-------------------------------------------|---------------------------|
| Unit Reference MD-SHE-0105-5000-1000-5000 |                           |
| Design Head (m)                           | 1.000                     |
| Design Flow (l/s)                         | 5.0                       |
| Flush-Flo™                                | Calculated                |
| Objective                                 | Minimise upstream storage |
| Diameter (mm)                             | 105                       |
| Invert Level (m)                          | 3.844                     |
| Minimum Outlet Pipe Diameter (mm)         | 150                       |
| Suggested Manhole Diameter (mm)           | 1200                      |

| Control Points            | Head (m) | Flow (l/s) |
|---------------------------|----------|------------|
| Design Point (Calculated) | 1.000    | 5.0        |
| Flush-Flo™                | 0.296    | 5.0        |
| Kick-Flo®                 | 0.637    | 4.1        |
| Mean Flow over Head Range | -        | 4.3        |

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     | 3.6        | 1.200     | 5.4        | 3.000     | 8.4        | 7.000     | 12.5       |
| 0.200     | 4.8        | 1.400     | 5.8        | 3.500     | 9.0        | 7.500     | 12.9       |
| 0.300     | 5.0        | 1.600     | 6.2        | 4.000     | 9.6        | 8.000     | 13.3       |
| 0.400     | 4.9        | 1.800     | 6.6        | 4.500     | 10.1       | 8.500     | 13.7       |
| 0.500     | 4.7        | 2.000     | 6.9        | 5.000     | 10.6       | 9.000     | 14.1       |
| 0.600     | 4.3        | 2.200     | 7.2        | 5.500     | 11.1       | 9.500     | 14.5       |
| 0.800     | 4.5        | 2.400     | 7.5        | 6.000     | 11.6       |           |            |
| 1.000     | 5.0        | 2.600     | 7.8        | 6.500     | 12.1       |           |            |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|-----------|------------------------|-------|-------|-------|-------|-------|-------|
| The Old School<br>Old School Road<br>Hook RG27 9NJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |  |                        |                        |                        |                        |           |                        |       |       |       |       |       |       |
| Date 01/01/0001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Designed by Tim        |                                                                                     |                        |                        |                        |                        |           |                        |       |       |       |       |       |       |
| File SW3-STRAT SEPARATE.MDX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Checked by             |                                                                                     |                        |                        |                        |                        |           |                        |       |       |       |       |       |       |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        | Network 2014.1.1                                                                    |                        |                        |                        |                        |           |                        |       |       |       |       |       |       |
| <p style="text-align: center;"><u>Storage Structures for Storm - Net 3</u></p> <p style="text-align: center;"><u>Tank or Pond Manhole: S59, DS/PN: S1.005</u></p> <p style="text-align: center;">Invert Level (m) 4.197</p> <table border="1"> <thead> <tr> <th>Depth (m)</th> <th>Area (m<sup>2</sup>)</th> <th>Depth (m)</th> <th>Area (m<sup>2</sup>)</th> <th>Depth (m)</th> <th>Area (m<sup>2</sup>)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>184.1</td> <td>1.000</td> <td>378.0</td> <td>1.300</td> <td>450.0</td> </tr> </tbody> </table> |                        |                                                                                     | Depth (m)              | Area (m <sup>2</sup> ) | Depth (m)              | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) | 0.000 | 184.1 | 1.000 | 378.0 | 1.300 | 450.0 |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Area (m <sup>2</sup> ) | Depth (m)                                                                           | Area (m <sup>2</sup> ) | Depth (m)              | Area (m <sup>2</sup> ) |                        |           |                        |       |       |       |       |       |       |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 184.1                  | 1.000                                                                               | 378.0                  | 1.300                  | 450.0                  |                        |           |                        |       |       |       |       |       |       |
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|                                                    |                 |                                                                                     |
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| Date 01/01/0001                                    | Designed by Tim |                                                                                     |
| File SW3-STRAT SEPARATE.MDX                        | Checked by      |                                                                                     |
| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

1 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for Storm - Net 3

Simulation Criteria

|                                 |       |                                     |        |
|---------------------------------|-------|-------------------------------------|--------|
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow   | 10.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m³/ha Storage       | 2.000  |
| Hot Start Level (mm)            | 0     | Inlet Coefficient                   | 0.800  |
| Manhole Headloss Coeff (Global) | 0.500 | Flow per Person per Day (l/per/day) | 0.000  |
| Foul Sewage per hectare (l/s)   | 0.000 |                                     |        |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 1 |
| Number of Online Controls   | 1 | Number of Time/Area Diagrams | 0 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

Synthetic Rainfall Details

|                                      |        |             |       |
|--------------------------------------|--------|-------------|-------|
| Rainfall Model                       | FSR    | Ratio R     | 0.350 |
| Region England and Wales Cv (Summer) | 0.750  |             |       |
| M5-60 (mm)                           | 19.000 | Cv (Winter) | 0.840 |

|                                    |                                 |
|------------------------------------|---------------------------------|
| Margin for Flood Risk Warning (mm) | 300.0                           |
| Analysis Timestep                  | 2.5 Second Increment (Extended) |
| DTS Status                         | OFF                             |
| DVD Status                         | ON                              |
| Inertia Status                     | ON                              |

|                          |                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------|
| Profile(s)               | Summer and Winter                                                                                   |
| Duration(s) (mins)       | 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 |
| Return Period(s) (years) | 1, 30, 100                                                                                          |
| Climate Change (%)       | 0, 0, 40                                                                                            |

| PN     | Storm      | Return Climate Period | Climate Change | First X Surge | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
|--------|------------|-----------------------|----------------|---------------|---------------|------------------|----------|----------|
| S1.000 | 360 Winter | 1                     | 0%             |               |               |                  |          |          |
| S1.001 | 15 Winter  | 1                     | 0%             |               |               |                  |          |          |
| S1.002 | 15 Winter  | 1                     | 0%             |               |               |                  |          |          |
| S1.003 | 120 Winter | 1                     | 0%             | 100/15 Summer |               |                  |          |          |
| S1.004 | 120 Winter | 1                     | 0%             | 30/120 Winter |               |                  |          |          |
| S1.005 | 120 Winter | 1                     | 0%             | 30/60 Winter  |               |                  |          |          |
| S1.006 | 120 Winter | 1                     | 0%             | 30/60 Summer  |               |                  |          |          |

| PN     | US/MH Name | Water     |                   | Flooded     |                   | Pipe         |            | Status |
|--------|------------|-----------|-------------------|-------------|-------------------|--------------|------------|--------|
|        |            | Level (m) | Surch'd Depth (m) | Volume (m³) | Flow / Cap. (l/s) | O'flow (l/s) | Flow (l/s) |        |
| S1.000 | S54        | 5.120     | -0.375            | 0.000       | 0.00              | 0.0          | 0.0        | OK     |
| S1.001 | S55        | 5.044     | -0.355            | 0.000       | 0.10              | 0.0          | 21.4       | OK     |
| S1.002 | S56        | 4.824     | -0.420            | 0.000       | 0.09              | 0.0          | 33.3       | OK     |
| S1.003 | S57        | 4.367     | -0.416            | 0.000       | 0.06              | 0.0          | 19.3       | OK     |
| S1.004 | S58        | 4.366     | -0.327            | 0.000       | 0.05              | 0.0          | 25.4       | OK     |
| S1.005 | S59        | 4.365     | -0.252            | 0.000       | 0.02              | 0.0          | 6.7        | OK     |
| S1.006 | S59a       | 4.366     | -0.228            | 0.000       | 0.01              | 0.0          | 5.0        | OK     |

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| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for Storm - Net 3

Simulation Criteria

|                                 |       |                                     |        |
|---------------------------------|-------|-------------------------------------|--------|
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow   | 10.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m³/ha Storage       | 2.000  |
| Hot Start Level (mm)            | 0     | Inlet Coefficient                   | 0.800  |
| Manhole Headloss Coeff (Global) | 0.500 | Flow per Person per Day (l/per/day) | 0.000  |
| Foul Sewage per hectare (l/s)   | 0.000 |                                     |        |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 1 |
| Number of Online Controls   | 1 | Number of Time/Area Diagrams | 0 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

Synthetic Rainfall Details

|                                      |        |             |       |
|--------------------------------------|--------|-------------|-------|
| Rainfall Model                       | FSR    | Ratio R     | 0.350 |
| Region England and Wales Cv (Summer) | 0.750  |             |       |
| M5-60 (mm)                           | 19.000 | Cv (Winter) | 0.840 |

|                                    |                                 |
|------------------------------------|---------------------------------|
| Margin for Flood Risk Warning (mm) | 300.0                           |
| Analysis Timestep                  | 2.5 Second Increment (Extended) |
| DTS Status                         | OFF                             |
| DVD Status                         | ON                              |
| Inertia Status                     | ON                              |

|                          |                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------|
| Profile(s)               | Summer and Winter                                                                                   |
| Duration(s) (mins)       | 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 |
| Return Period(s) (years) | 1, 30, 100                                                                                          |
| Climate Change (%)       | 0, 0, 40                                                                                            |

| PN     | Storm      | Return Climate Period | Climate Change | First X Surge | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
|--------|------------|-----------------------|----------------|---------------|---------------|------------------|----------|----------|
| S1.000 | 360 Winter | 30                    | 0%             |               |               |                  |          |          |
| S1.001 | 15 Summer  | 30                    | 0%             |               |               |                  |          |          |
| S1.002 | 15 Summer  | 30                    | 0%             |               |               |                  |          |          |
| S1.003 | 120 Winter | 30                    | 0%             | 100/15 Summer |               |                  |          |          |
| S1.004 | 240 Winter | 30                    | 0%             | 30/120 Winter |               |                  |          |          |
| S1.005 | 240 Winter | 30                    | 0%             | 30/60 Winter  |               |                  |          |          |
| S1.006 | 360 Winter | 30                    | 0%             | 30/60 Summer  |               |                  |          |          |

| PN     | US/MH Name | Water     |                   | Flooded     |             | Pipe         |                 | Status     |
|--------|------------|-----------|-------------------|-------------|-------------|--------------|-----------------|------------|
|        |            | Level (m) | Surch'd Depth (m) | Volume (m³) | Flow / Cap. | O'flow (l/s) | Pipe Flow (l/s) |            |
| S1.000 | S54        | 5.120     | -0.375            | 0.000       | 0.00        | 0.0          | 0.0             | OK         |
| S1.001 | S55        | 5.118     | -0.281            | 0.000       | 0.30        | 0.0          | 66.4            | OK         |
| S1.002 | S56        | 4.905     | -0.339            | 0.000       | 0.26        | 0.0          | 100.7           | OK         |
| S1.003 | S57        | 4.755     | -0.028            | 0.000       | 0.13        | 0.0          | 42.4            | OK         |
| S1.004 | S58        | 4.734     | 0.041             | 0.000       | 0.07        | 0.0          | 34.4            | SURCHARGED |
| S1.005 | S59        | 4.734     | 0.117             | 0.000       | 0.02        | 0.0          | 5.9             | SURCHARGED |
| S1.006 | S59a       | 4.728     | 0.134             | 0.000       | 0.01        | 0.0          | 5.0             | SURCHARGED |

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| Micro Drainage                                     |                 | Network 2014.1.1                                                                    |

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm - Net 3

Simulation Criteria

|                                 |       |                                     |        |
|---------------------------------|-------|-------------------------------------|--------|
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow   | 10.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m³/ha Storage       | 2.000  |
| Hot Start Level (mm)            | 0     | Inlet Coefficient                   | 0.800  |
| Manhole Headloss Coeff (Global) | 0.500 | Flow per Person per Day (l/per/day) | 0.000  |
| Foul Sewage per hectare (l/s)   | 0.000 |                                     |        |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 1 |
| Number of Online Controls   | 1 | Number of Time/Area Diagrams | 0 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

Synthetic Rainfall Details

|                          |                    |         |       |
|--------------------------|--------------------|---------|-------|
| Rainfall Model           | FSR                | Ratio R | 0.350 |
| Region England and Wales | Cv (Summer)        | 0.750   |       |
| M5-60 (mm)               | 19.000 Cv (Winter) | 0.840   |       |

|                                    |                                 |
|------------------------------------|---------------------------------|
| Margin for Flood Risk Warning (mm) | 300.0                           |
| Analysis Timestep                  | 2.5 Second Increment (Extended) |
| DTS Status                         | OFF                             |
| DVD Status                         | ON                              |
| Inertia Status                     | ON                              |

|                          |                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------|
| Profile(s)               | Summer and Winter                                                                                   |
| Duration(s) (mins)       | 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 |
| Return Period(s) (years) | 1, 30, 100                                                                                          |
| Climate Change (%)       | 0, 0, 40                                                                                            |

| PN     | Storm      | Return Period | Climate Change | First X Surge | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
|--------|------------|---------------|----------------|---------------|---------------|------------------|----------|----------|
| S1.000 | 360 Winter | 100           | +40%           |               |               |                  |          |          |
| S1.001 | 360 Winter | 100           | +40%           |               |               |                  |          |          |
| S1.002 | 360 Winter | 100           | +40%           |               |               |                  |          |          |
| S1.003 | 360 Winter | 100           | +40%           | 100/15 Summer |               |                  |          |          |
| S1.004 | 360 Winter | 100           | +40%           | 30/120 Winter |               |                  |          |          |
| S1.005 | 360 Winter | 100           | +40%           | 30/60 Winter  |               |                  |          |          |
| S1.006 | 360 Winter | 100           | +40%           | 30/60 Summer  |               |                  |          |          |

| PN     | US/MH Name | Water     |                   | Flooded     |             | Pipe         |                 | Status     |
|--------|------------|-----------|-------------------|-------------|-------------|--------------|-----------------|------------|
|        |            | Level (m) | Surch'd Depth (m) | Volume (m³) | Flow / Cap. | O'flow (l/s) | Pipe Flow (l/s) |            |
| S1.000 | S54        | 5.245     | -0.250            | 0.000       | 0.00        | 0.0          | 0.0             | OK         |
| S1.001 | S55        | 5.245     | -0.154            | 0.000       | 0.08        | 0.0          | 17.4            | OK         |
| S1.002 | S56        | 5.244     | 0.000             | 0.000       | 0.07        | 0.0          | 27.2            | OK         |
| S1.003 | S57        | 5.233     | 0.450             | 0.000       | 0.11        | 0.0          | 38.0            | SURCHARGED |
| S1.004 | S58        | 5.232     | 0.539             | 0.000       | 0.11        | 0.0          | 51.9            | SURCHARGED |
| S1.005 | S59        | 5.232     | 0.615             | 0.000       | 0.03        | 0.0          | 10.0            | SURCHARGED |
| S1.006 | S59a       | 5.246     | 0.652             | 0.000       | 0.01        | 0.0          | 5.7             | FLOOD RISK |

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## Appendix (G)

### SuDS Maintenance Strategy

**Land North of Sefter Road  
Bognor Regis, West Sussex**

**OWNERS MANUAL**

**Relating to Surface Water Drainage Maintenance**

The site has been designed in accordance with Sustainable Drainage Systems (SuDS) techniques.

An extract from the SuDS Manual (CIRIA C753) states “Sedimentation is one of the primary removal mechanisms in SUDS. Most pollution in runoff is attached to sediment particles and therefore removal of sediment results in a significant reduction in pollutant loads..”.

In order to remove sedimentation the surface water drainage design utilises deep seal trapped gullies throughout, catchpit manholes upstream of the surface water granular filter drains and bio-retention areas in attenuation ponds.

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- 1) Explanation of the Surface Water Drainage System
- 2) Operating and Maintenance Responsibility
- 3) Maintenance Schedule for catchpits, control chambers, flow control devices and gullies
- 4) Maintenance Schedule for attenuation basins, bioretention areas and swales
- 5) Maintenance Schedule for filter trenches and porous pipework
- 6) Maintenance Schedule for solid wall pipes
- 7) Reasons for Maintenance

## **1) Explanation of the Surface Water Drainage System**

The Principle of SUDs has been adopted for the whole of the site, calculations have been carried out using MicroDrainage with a storm return period of 100 years and an allowance of 40% for climate change and 10% allowance for urban creep.

Generally roof water drains direct to the domestic drainage system within each curtilage and from there will be directed to the below ground surface water network

Hardstanding areas and access roads or drives, drain to trapped gullies which outfall to the surface water drainage system within the site.

## **2) Operating and Maintenance Responsibility**

Taylor Wimpey (TW) are responsible for maintaining the surface water drainage systems on this site during the construction period. A management company nominated by TW which during the construction period will have TW as the sole directors. Upon handover and occupation, a Maintenance Company will be handed over to residents who will take over as Directors.

The Management Company will appoint a managing agent who will ensure that the SuDS are maintained as set out in this document. The maintenance and operation will be funded through contributions from the residents to the maintenance company.

### 3) Maintenance Schedule for catchpits, control chambers, flow control devices and gullies

#### Flow Control Maintenance

Normally, little maintenance is required as there are no moving parts within the Flow Control. The Flow Control is fitted with pivoting by-pass door, which allows the manhole to be drained down should blockage occur. It is recommended that the unit be inspected at six monthly intervals with hose down if required. All flow controls are typically manufactured from grade 304 Stainless Steel which has an estimated life span in excess of the design life of drainage systems.

| Maintenance Schedule | Required Action                                                                                                             | Recommended Frequency                  |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Regular maintenance  | Inspect and identify any areas that are not operating correctly. If required, take remedial action.                         | Monthly for 3 months, then six monthly |
|                      | Debris removal from catchment surface (where may cause risks to performance)                                                | Monthly                                |
|                      | Remove sediment and oil deposits from all trapped gullies.                                                                  | Annually, or as required.              |
|                      | Remove sediment from structures upstream of the cellular storage tanks.                                                     | Annually, or as required.              |
| Remedial actions     | Repair/rehabilitation of inlets, outlets, overflows and vents.                                                              | As required                            |
| Monitoring           | Inspect/check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed. | Annually and after large storms        |

**4) Maintenance Schedule for Attenuation basins , bio-retention areas and swales**

| <b>Maintenance Schedule</b> | <b>Required Action</b>                                                                                                            | <b>Recommended Frequency</b>                                                            |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Regular maintenance         | Litter and debris removal.                                                                                                        | Monthly                                                                                 |
|                             | Grass cutting – for spillways and access routes.                                                                                  | Monthly (during growing season), or as required.                                        |
|                             | Grass cutting – meadow grass in and around basin.                                                                                 | Annually                                                                                |
|                             | Manage other vegetation and remove nuisance plants.                                                                               | Monthly (at start, then as required).                                                   |
|                             | Tidy all dead growth before start of growing season.                                                                              | Annually.                                                                               |
|                             | Remove sediment from inlets, outlet and forebay.                                                                                  | Annually (or as required).                                                              |
| Occasional maintenance      | Check for poor vegetation growth due to lack of sunlight or leaf dropping litter and cut back adjacent vegetation where possible/ | Annually                                                                                |
|                             | Re-seed areas of poor vegetation growth. Alter plant types to better suit conditions, if required                                 | Annually, or if bare soil is exposed over 10% or more of the basin/swale treatment area |
|                             | Prune and trim trees and remove cuttings.                                                                                         | 2 years (or as required). Ensure this is undertaken outside of bird nesting season.     |
| Remedial actions            | Repair of erosion or other damage by re-turfing or reseeding.                                                                     | As required                                                                             |
|                             | Re-level uneven surfaces and reinstate design levels.                                                                             | As required.                                                                            |
|                             | Repair/rehabilitation of inlets, outlets and overflows.                                                                           | As required.                                                                            |

|            |                                                                                                            |                              |
|------------|------------------------------------------------------------------------------------------------------------|------------------------------|
| Monitoring | Remove and dispose of oils or petrol residues using safe standard practices                                | As required                  |
|            | Inspect inlets, outlets and overflows for blockages, and clear if required.                                | Monthly/ after large storms. |
|            | Inspect banksides, structures, pipework etc. for evidence of physical damage.                              | Monthly/ after large storms. |
|            | Inspect inlets and facility surface for silt accumulation. Establish appropriate silt removal frequencies. | Half yearly.                 |
|            | Check flow control device and other mechanical devices.                                                    | Half yearly.                 |

## 5) Maintenance Schedule for Filter trenches and porous pipework

| Maintenance Schedule   | Required Action                                                                                                                                       | Recommended Frequency                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Regular maintenance    | Litter and debris removal from trench surface, access chambers and pre-treatment devices.                                                             | Monthly (or as required).                                                 |
|                        | Removal and washing of exposed stones on the trench surface.                                                                                          | Annual (bi-annual the first year) or when silt is evident on the surface. |
|                        | Trimming of any roots that may be causing blockages.                                                                                                  | Annual (semi-annual the first year).                                      |
|                        | Remove weeds on the trench surface.                                                                                                                   | Monthly (at start, then as required).                                     |
| Occasional maintenance | Removal of sediment from pre-treatment devices.                                                                                                       | Six monthly                                                               |
|                        | Remove tree roots or trees that grow close to the trench.                                                                                             | As required.                                                              |
|                        | At locations with high pollution loads, remove surface geotextile and replace, and wash or replace filter media.                                      | Five yearly.                                                              |
| Remedial actions       | Clear perforated pipework of blockages.                                                                                                               | As required.                                                              |
|                        | Rehabilitate infiltration or filtration surfaces.                                                                                                     | As required.                                                              |
|                        | Replace geotextiles and clean and replace filter media, if clogging occurs.                                                                           | As required.                                                              |
|                        | Inspect inlets, outlets and inspection points for blockages, clogging, standing water and structural damage.                                          | As required.                                                              |
| Monitoring             | Inspect pre-treatment systems, inlets, trench surfaces and perforated pipework for silt accumulation. Establish appropriate silt removal frequencies. | Half yearly.                                                              |

## 6) Maintenance Schedule for Grilles

| Maintenance Schedule   | Required Action                                                                                            | Recommended Frequency     |
|------------------------|------------------------------------------------------------------------------------------------------------|---------------------------|
| Regular maintenance    | Litter and debris removal.                                                                                 | Monthly (or as required). |
| Occasional maintenance | Check moving parts and locks. Oil and ensure free moving. Replace when necessary.                          | As required.              |
| Remedial actions       | Remove build-up of sediment.                                                                               | As required.              |
| Monitoring             | Inspect for blockages, and clear if required.                                                              | Monthly                   |
|                        | Inspect inlets and facility surface for silt accumulation. Establish appropriate silt removal frequencies. | Half yearly.              |

## 7) Maintenance Schedule for solid wall pipes

| Maintenance Schedule | Required Action                                                                                                                                | Recommended Frequency                   |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Regular maintenance  | Inspect and identify any areas that are not operating correctly. If required, take remedial action.                                            | Monthly for 3 months, then six monthly. |
|                      | Debris removal from catchment surface (where may cause risks to performance)                                                                   | Monthly                                 |
|                      | Inspect chambers and manholes for evidence of pipes operating correctly and take remedial action if necessary, to include jetting of pipework. | Monthly for 3 months, then annually     |

## 8) Reasons for Maintenance

Surface water contains variable amounts of sediment which settles out at certain locations and could cause blockages if left. Road gullies also trap oil and prevent it entering the surface water sewer system.