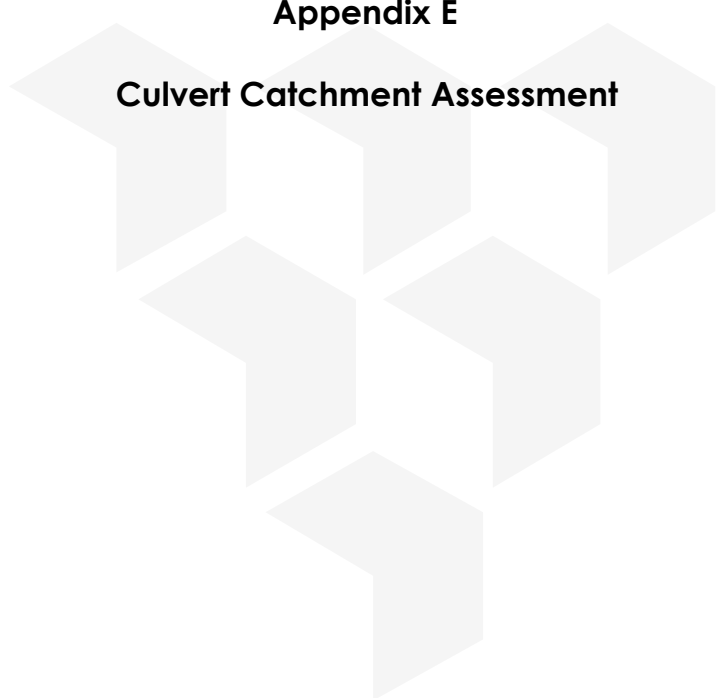
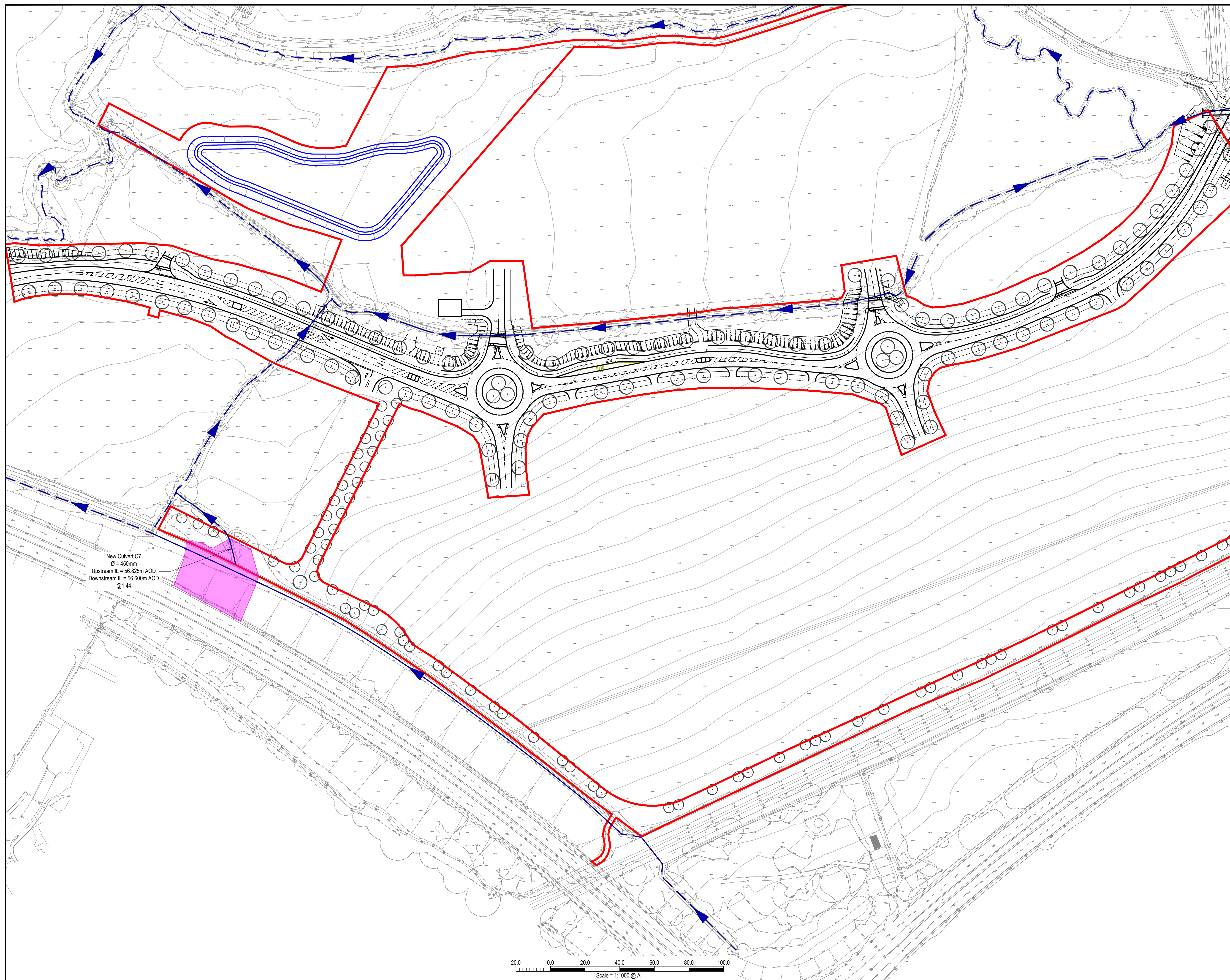




## **Appendix E**

### **Culvert Catchment Assessment**



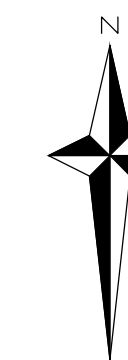


## NOTES

1. This drawing is to be read in conjunction with all relevant documents and specifications.
2. Dimensions scaleable for planning purposes only.
3. This drawing has been prepared for information purposes only and should not be used for tender or construction purposes.

KEY

- 
- Application boundary
- Open channel
- Pipe / Culvert
- Catchment area for new culvert  
= 1,521m<sup>2</sup>



|      |                               |            |    |     |
|------|-------------------------------|------------|----|-----|
| P2   | Application boundary updated. | 12/09/2025 | JD | CS  |
| P1   | First issue.                  | 03/09/2025 | JD | CS  |
| Rev. | Description                   | Date       | By | Chk |



-  Civil Engineering
-  Structural Engineering
-  Transport Planning
-  Highways Engineering
-  Building Surveying
-  Geomatics

Hertfordshire | Oxfordshire | Cambridgeshire | Bristol

Client : Legal & General  
(Strategic Land North Horsham) Ltd

Project: Mowbray (Land North of Horsham)

Title: RMA2 - Employment Land  
Culvert Catchment Assessment  
(Culvert C7)

Engineer : C. Salt                      Date : September 2025

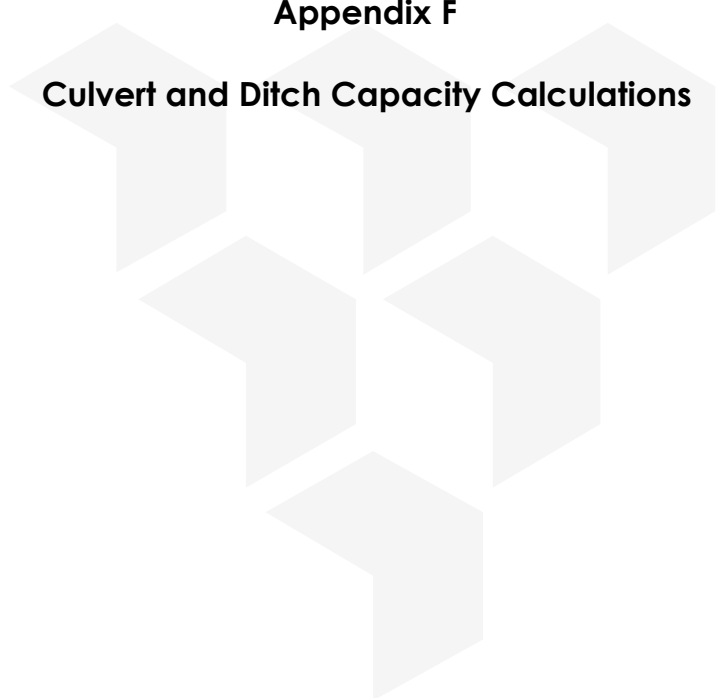
Director : J. Birch                      Scale : 1:1000 @ A1

|          |          |
|----------|----------|
| Status : | PLANNING |
|----------|----------|

Drawing No.  
MOW-RMA2-PH2-1207

Rev  
P2





## **Appendix F**

### **Culvert and Ditch Capacity Calculations**

**Rainfall Run-Off Calculation**  
**Mowbray, Horsham**  
**RMA2 Culverts**  
**(Culvert C1-C4)**

**General Inputs**

|                                   |         |                                  |
|-----------------------------------|---------|----------------------------------|
| Site Location                     | Horsham |                                  |
| Hydrological Region               | 6       |                                  |
| SAAR (mm)                         | 800     |                                  |
| Soil Type                         | 0.45    |                                  |
| SPR                               | 0.45    |                                  |
| M5-60 (mm)                        | 20      |                                  |
| r                                 | 0.35    |                                  |
| Total site area (m <sup>2</sup> ) | 6,007   | Post-development catchment area. |
| Runoff coefficient                | 0.55    | Based on sloping clay soils.     |
| Total site area (m <sup>2</sup> ) | 6,007   |                                  |

**Rainfall Calculation**

Method: Wall. procedure Z1 \* M5-60 Wall. procedure Z2 \* M5-D M100-D / D D \* Q<sub>BAR</sub>

**1 in 1 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 1) | M1-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|----------------|-----------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 0.64           | 12.8      | 12.8                            | <b>11.7</b>  |

**1 in 2 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 2) | M2-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|----------------|-----------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 0.81           | 16.2      | 16.2                            | <b>14.9</b>  |

**1 in 30 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 30) | M30-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|-----------------|------------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 1.54            | 30.8       | 30.8                            | <b>28.3</b>  |

**1 in 100 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 100) | M100-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|------------------|-------------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 2.03             | 40.6        | 40.6                            | <b>37.3</b>  |

**1 in 100 YEAR +45% CLIMATE CHANGE**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 100) | M100-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|------------------|-------------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 2.03             | 40.6        | 58.87                           | <b>54.0</b>  |

**PIPE CAPACITY**

| Diameter (mm) | Gradient | Capacity<br>(l/s) |
|---------------|----------|-------------------|
| 450           | 1:79     | <b>358.6</b>      |



**Rainfall Run-Off Calculation**  
**Mowbray, Horsham**  
**RMA2 Culverts**  
**(Culvert C5)**

**General Inputs**

|                                   |         |                                  |
|-----------------------------------|---------|----------------------------------|
| Site Location                     | Horsham |                                  |
| Hydrological Region               | 6       |                                  |
| SAAR (mm)                         | 800     |                                  |
| Soil Type                         | 0.45    |                                  |
| SPR                               | 0.45    |                                  |
| M5-60 (mm)                        | 20      |                                  |
| r                                 | 0.35    |                                  |
| Total site area (m <sup>2</sup> ) | 27,180  | Post-development catchment area. |
| Runoff coefficient                | 0.55    | Based on sloping clay soils.     |
| Total site area (m <sup>2</sup> ) | 27,180  |                                  |

**Rainfall Calculation**

Method: Wall. procedure Z1 \* M5-60 Wall. procedure Z2 \* M5-D M100-D / D D \* Q<sub>BAR</sub>

**1 in 1 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 1) | M1-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|----------------|-----------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 0.64           | 12.8      | 12.8                            | <b>53.2</b>  |

**1 in 2 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 2) | M2-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|----------------|-----------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 0.81           | 16.2      | 16.2                            | <b>67.3</b>  |

**1 in 30 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 30) | M30-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|-----------------|------------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 1.54            | 30.8       | 30.8                            | <b>127.9</b> |

**1 in 100 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 100) | M100-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|------------------|-------------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 2.03             | 40.6        | 40.6                            | <b>168.6</b> |

**1 in 100 YEAR +45% CLIMATE CHANGE**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 100) | M100-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|------------------|-------------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 2.03             | 40.6        | 58.87                           | <b>244.5</b> |

**PIPE CAPACITY**

| Diameter (mm) | Gradient | Capacity<br>(l/s) |
|---------------|----------|-------------------|
| 450           | 1:114    | <b>298.5</b>      |

**Rainfall Run-Off Calculation**  
**Mowbray, Horsham**  
**RMA2 Culverts**  
**(Culvert C6)**

**General Inputs**

|                                   |         |                                  |
|-----------------------------------|---------|----------------------------------|
| Site Location                     | Horsham |                                  |
| Hydrological Region               | 6       |                                  |
| SAAR (mm)                         | 800     |                                  |
| Soil Type                         | 0.45    |                                  |
| SPR                               | 0.45    |                                  |
| M5-60 (mm)                        | 20      |                                  |
| r                                 | 0.35    |                                  |
| Total site area (m <sup>2</sup> ) | 61,684  | Post-development catchment area. |
| Runoff coefficient                | 0.55    | Based on sloping clay soils.     |
| Total site area (m <sup>2</sup> ) | 61,684  |                                  |

**Rainfall Calculation**

Method: Wall. procedure Z1 \* M5-60 Wall. procedure Z2 \* M5-D M100-D / D D \* Q<sub>BAR</sub>

**1 in 1 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 1) | M1-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|----------------|-----------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 0.64           | 12.8      | 12.8                            | <b>120.6</b> |

**1 in 2 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 2) | M2-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|----------------|-----------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 0.81           | 16.2      | 16.2                            | <b>152.7</b> |

**1 in 30 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 30) | M30-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|-----------------|------------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 1.54            | 30.8       | 30.8                            | <b>290.3</b> |

**1 in 100 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 100) | M100-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|------------------|-------------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 2.03             | 40.6        | 40.6                            | <b>382.6</b> |

**1 in 100 YEAR +45% CLIMATE CHANGE**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 100) | M100-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|------------------|-------------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 2.03             | 40.6        | 58.87                           | <b>554.8</b> |

**PIPE CAPACITY**

| Diameter (mm) | Gradient | Capacity<br>(l/s) |
|---------------|----------|-------------------|
| 600           | 1:81     | <b>762.8</b>      |



**Rainfall Run-Off Calculation**  
**Mowbray, Horsham**  
**RMA2 Culverts**  
**(Culvert C7)**

**General Inputs**

|                                   |         |                                  |
|-----------------------------------|---------|----------------------------------|
| Site Location                     | Horsham |                                  |
| Hydrological Region               | 6       |                                  |
| SAAR (mm)                         | 800     |                                  |
| Soil Type                         | 0.45    |                                  |
| SPR                               | 0.45    |                                  |
| M5-60 (mm)                        | 20      |                                  |
| r                                 | 0.35    |                                  |
| Total site area (m <sup>2</sup> ) | 1,521   | Post-development catchment area. |
| Runoff coefficient                | 0.55    | Based on sloping clay soils.     |
| Total site area (m <sup>2</sup> ) | 1,521   |                                  |

**Rainfall Calculation**

Method: Wall. procedure Z1 \* M5-60 Wall. procedure Z2 \* M5-D M100-D / D D \* Q<sub>BAR</sub>

**1 in 1 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 1) | M1-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|----------------|-----------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 0.64           | 12.8      | 12.8                            | <b>3.0</b>   |

**1 in 2 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 2) | M2-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|----------------|-----------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 0.81           | 16.2      | 16.2                            | <b>3.8</b>   |

**1 in 30 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 30) | M30-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|-----------------|------------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 1.54            | 30.8       | 30.8                            | <b>7.2</b>   |

**1 in 100 YEAR**

| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 100) | M100-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|------------------|-------------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 2.03             | 40.6        | 40.6                            | <b>9.4</b>   |

**1 in 100 YEAR +45% CLIMATE CHANGE**

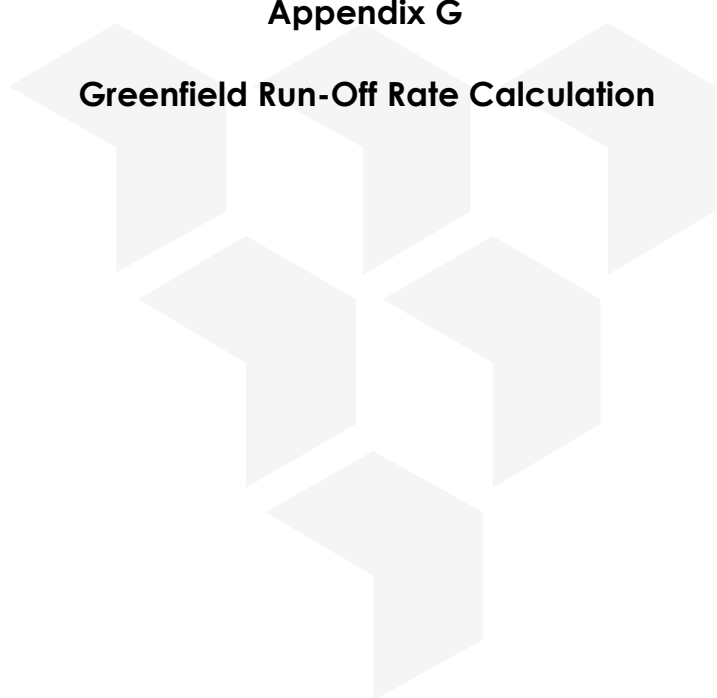
| Storm Duration D (min) | Z1   | M5-D (mm) | Z2<br>(1 in 100) | M100-D (mm) | Rainfall Intensity<br>i (mm/hr) | Runoff (l/s) |
|------------------------|------|-----------|------------------|-------------|---------------------------------|--------------|
| 60                     | 1.00 | 20        | 2.03             | 40.6        | 58.87                           | <b>13.7</b>  |

**PIPE CAPACITY**

| Diameter (mm) | Gradient | Capacity<br>(l/s) |
|---------------|----------|-------------------|
| 450           | 1:44     | <b>480.6</b>      |

**Existing Ditch Capacity Calculations**  
**Mowbray, Horsham**  
**RMA2 - Employment Land**

| <b>Culvert Location Reference:</b> |                |                | <b>C1</b>    | <b>C2</b>    | <b>C3</b>    | <b>C4</b>    | <b>C5</b>  | <b>C6</b>    | <b>C7</b>    |
|------------------------------------|----------------|----------------|--------------|--------------|--------------|--------------|------------|--------------|--------------|
| Base Width                         | w              | m              | 0.8          | 0.80         | 0.80         | 0.8          | 1.00       | 1.20         | 0.82         |
| Height                             | r              | m              | 0.57         | 0.56         | 0.64         | 0.65         | 0.45       | 1.00         | 1.00         |
| Side Width 1                       |                |                | 0.85         | 0.60         | 1.00         | 0.85         | 0.54       | 0.90         | 1.20         |
| Side Width 2                       |                |                | 0.75         | 1.00         | 0.90         | 0.75         | 1.16       | 0.90         | 0.63         |
| Slope                              | S              | m/m            | 0.008        | 0.009        | 0.007        | 0.013        | 0.006      | 0.006        | 0.025        |
| Area                               | A              | m <sup>2</sup> | 0.912        | 0.896        | 1.120        | 1.040        | 0.833      | 2.100        | 1.735        |
| Perimeter                          | P              | m              | 2.765        | 2.767        | 3.092        | 2.863        | 2.947      | 3.891        | 3.564        |
| Hydraulic Radius                   | R <sub>H</sub> | m              | 0.330        | 0.324        | 0.362        | 0.363        | 0.282      | 0.540        | 0.487        |
| Manning's n                        | n              | -              | 0.035        | 0.035        | 0.035        | 0.035        | 0.035      | 0.035        | 0.035        |
| Velocity                           | V              | m/s            | 1.225        | 1.291        | 1.210        | 1.637        | 0.969      | 1.453        | 2.796        |
| Flow Rate                          | Q              | l/s            | <b>1,117</b> | <b>1,156</b> | <b>1,355</b> | <b>1,702</b> | <b>807</b> | <b>3,051</b> | <b>4,850</b> |



## **Appendix G**

### **Greenfield Run-Off Rate Calculation**



This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013), the SuDS Manual C753 (CIRIA, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

## Project details

|               |            |
|---------------|------------|
| Date          | 19/06/2025 |
| Calculated by | CS         |
| Reference     | 8220585    |
| Model version | 2.0.1      |

## Location

|               |         |
|---------------|---------|
| Site name     | Mowbray |
| Site location | Horsham |



|               |        |
|---------------|--------|
| Site easting  | 519314 |
| Site northing | 133364 |

## Site details

|                      |   |    |
|----------------------|---|----|
| Total site area (ha) | 1 | ha |
|----------------------|---|----|

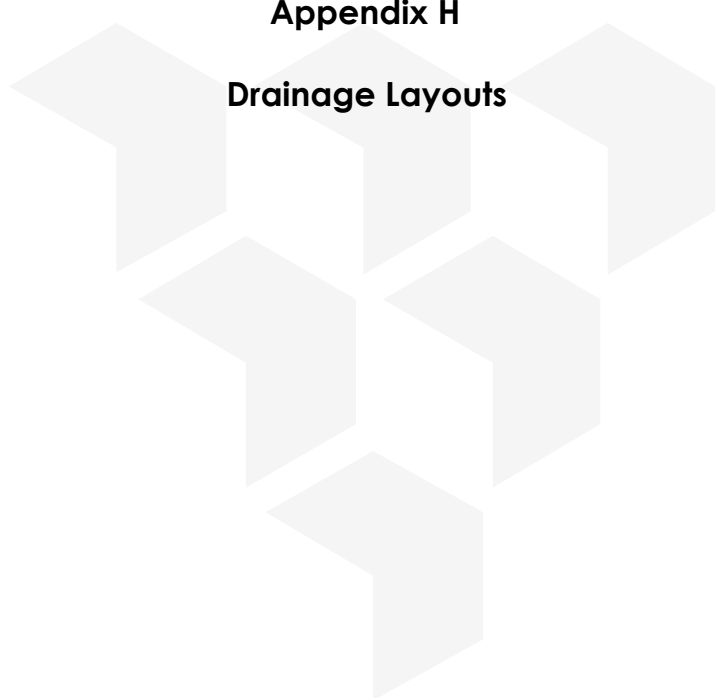
We use cookies on this site to enhance your user experience

By clicking the Accept button, you agree to us doing so.

OK, I AGREE

MORE INFO

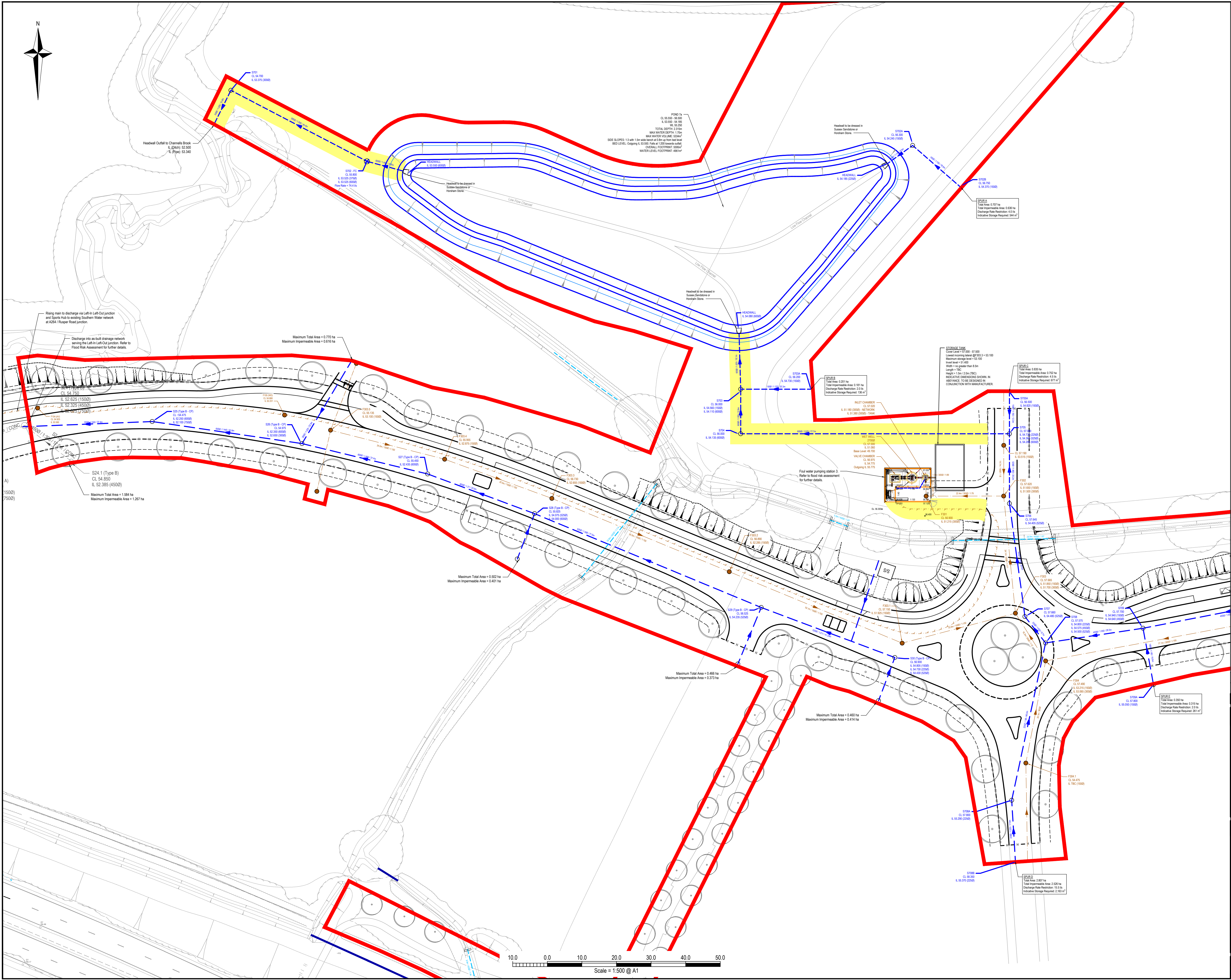
**By clicking the Accept button, you agree to us doing so.**



## **Appendix H**

### **Drainage Layouts**





- NOTES**
1. This drawing is to be read in conjunction with all other relevant documents and specifications.
  2. Do not scale from this drawing.
  3. This drawing is for planning purposes only and must not be used for any other purpose.
  4. Any discrepancies between this drawing and any other relevant information must be reported to the engineer at the earliest possible stage.

- KEY**
- Application boundary
  - Proposed foul water sewer and manhole
  - Proposed foul water rising main from foul water pump station 3 (FWPS3)
  - Proposed surface water sewer and manhole
  - Proposed culvert
  - Existing culvert
  - 3m drainage easement

|      |                                           |            |    |      |
|------|-------------------------------------------|------------|----|------|
| P2   | Additional detail added.                  | 03/09/2025 | DS | CS   |
| P1   | Preliminary issue for comment and review. | 11/08/2025 | MM | CS   |
| Rev. | Description                               | Date       | By | chkd |

**Glanville**  
Survey > Plan > Engineer

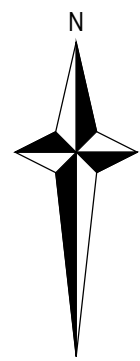
**Civil Engineering**

- Structural Engineering
- Transport Planning
- Highways Engineering
- Building Surveying
- Geomatics

Hertfordshire | Oxfordshire | Cambridgeshire | Bristol

|             |                                                           |
|-------------|-----------------------------------------------------------|
| Client:     | Legal & General<br>(Strategic Land North Horsham) Ltd     |
| Project:    | Mowbray (Land North of Horsham)                           |
| Title:      | RMA2 – Employment Land<br>Drainage Layout<br>Sheet 1 of 3 |
| Engineer:   | C. Salt                                                   |
| Director:   | J. Birch                                                  |
| Status:     | PLANNING                                                  |
| Drawing No. | MOW-RMA2-PH2-1201                                         |
| Rev         | P2                                                        |



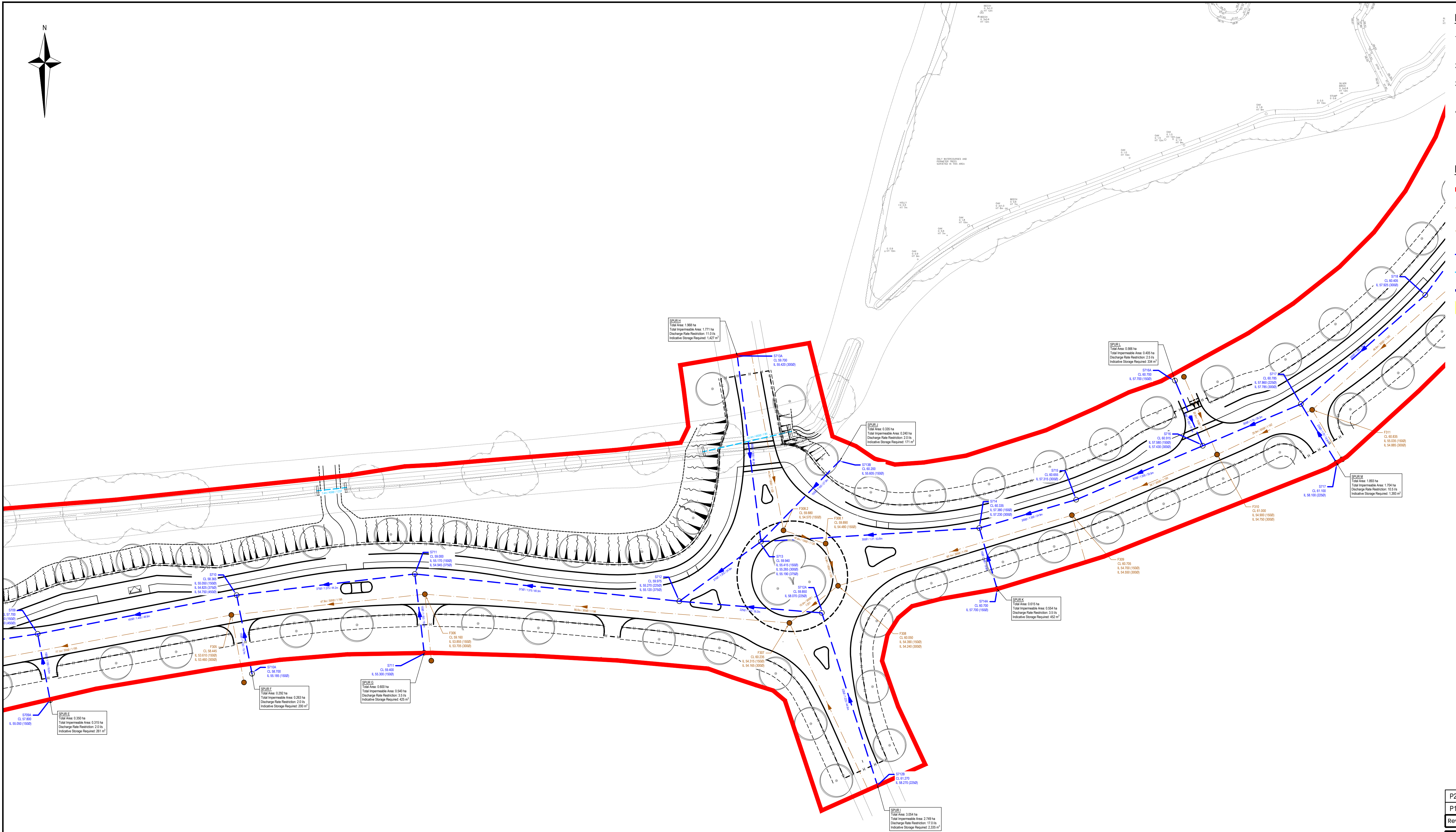


NOTES

1. This drawing is to be read in conjunction with all other relevant documents and specifications.
2. Do not scale from this drawing.
3. This drawing is for planning purposes only and must not be used for any other purpose.
4. Any discrepancies between this drawing and any other relevant information must be reported to the engineer at the earliest possible stage.

KEY

- Application boundary
- Proposed foul water sewer and manhole
- Proposed foul water rising main from foul water pump station 3 (FWPS3)
- Proposed surface water sewer and manhole
- Proposed culvert
- Existing culvert
- 3m drainage easement



|      |                                           |            |    |      |
|------|-------------------------------------------|------------|----|------|
| P2   | Additional detail added.                  | 03/09/2025 | DS | CS   |
| P1   | Preliminary issue for comment and review. | 11/08/2025 | MM | CS   |
| Rev. | Description                               | Date       | By | Chkd |

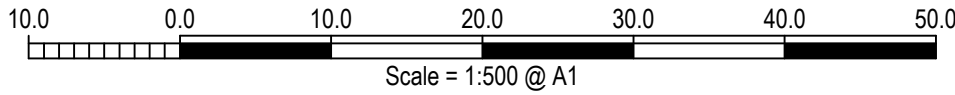
**Glanville**  
Survey > Plan > Engineer

**Civil Engineering**

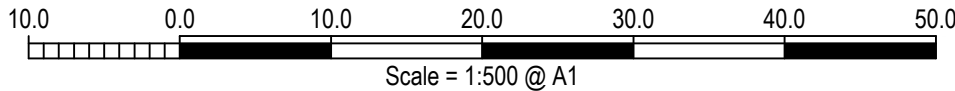
- Structural Engineering
- Transport Planning
- Highways Engineering
- Building Surveying
- Geomatics

Hertfordshire | Oxfordshire | Cambridgeshire | Bristol

|                     |                                                           |             |           |
|---------------------|-----------------------------------------------------------|-------------|-----------|
| Client :            | Legal & General<br>(Strategic Land North Horsham) Ltd     |             |           |
| Project :           | Mowbray (Land North of Horsham)                           |             |           |
| Title :             | RMA2 – Employment Land<br>Drainage Layout<br>Sheet 2 of 3 |             |           |
| Engineer : C. Salt  | Date :                                                    | August 2025 |           |
| Director : J. Birch | Scale :                                                   | 1:500 @ A1  |           |
| Status : PLANNING   |                                                           |             |           |
| Drawing No.         | MOW-RMA2-PH2-1202                                         |             | Rev<br>P2 |





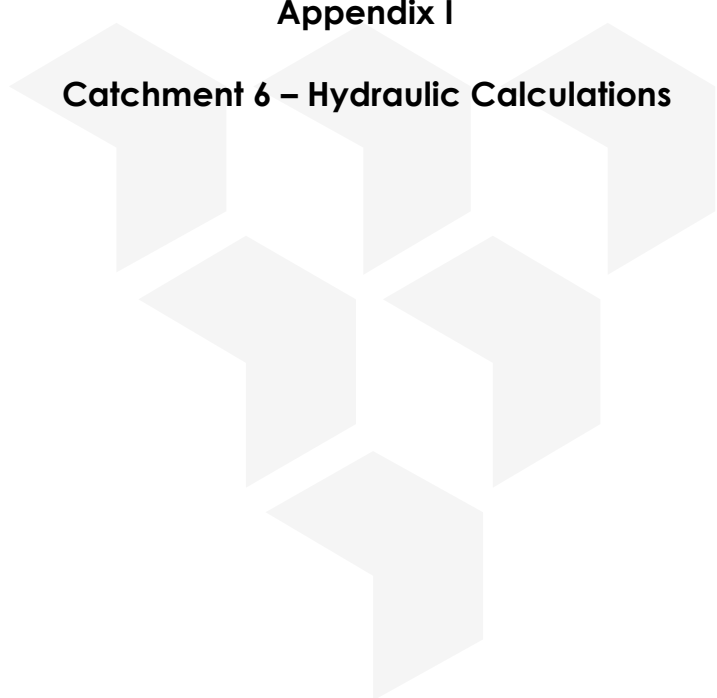


|                   |          |                                                           |             |
|-------------------|----------|-----------------------------------------------------------|-------------|
| Client:           |          | Legal & General<br>(Strategic Land North Horsham) Ltd     |             |
| Project:          |          | Mowbray (Land North of Horsham)                           |             |
| Title:            |          | RMA2 - Employment Land<br>Drainage Layout<br>Sheet 3 of 3 |             |
| Engineer:         | C. Salt  | Date:                                                     | August 2025 |
| Director:         | J. Birch | Scale:                                                    | 1:500 @ A1  |
| Status:           |          | PLANNING                                                  |             |
| Drawing No.       |          | Rev                                                       |             |
| MOW-RMA2-PH2-1203 |          | P3                                                        |             |



## **Appendix I**

### **Catchment 6 – Hydraulic Calculations**





|                                                                              |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model |  | Date:<br>27/08/2025     |             |  |              |
|                                                                              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: S104  |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S30  | Manhole       | 519689.665  | 133368.529   | 56.900          | 2.470     | 54.430           | Circular      | 1.500        |
| S29  | Manhole       | 519651.049  | 133382.996   | 56.525          | 2.290     | 54.235           | Circular      | 1.500        |
| S28  | Manhole       | 519585.537  | 133410.128   | 55.825          | 1.825     | 54.000           | Circular      | 1.500        |
| S27  | Manhole       | 519554.630  | 133421.601   | 55.450          | 3.015     | 52.435           | Circular      | 1.500        |
| S26  | Manhole       | 519518.308  | 133430.390   | 54.975          | 2.625     | 52.350           | Circular      | 1.500        |
| S25  | Manhole       | 519475.001  | 133436.769   | 54.475          | 2.375     | 52.100           | Circular      | 1.800        |
| S24  | Manhole       | 519438.209  | 133435.586   | 54.750          | 2.725     | 52.025           | Circular      | 1.800        |
| S23  | Manhole       | 519416.290  | 133427.398   | 55.010          | 3.030     | 51.980           | Circular      | 1.800        |
| S22  | Manhole       | 519399.763  | 133408.908   | 55.715          | 3.785     | 51.930           | Circular      | 1.800        |
| S21  | Manhole       | 519383.867  | 133419.071   | 54.300          | 2.655     | 51.645           | Circular      | 1.800        |
| S20  | Manhole       | 519303.005  | 133390.353   | 53.500          | 2.550     | 50.950           | Circular      | 1.200        |
| HW6  | Manhole       | 519297.122  | 133397.985   | 52.900          | 2.000     | 50.900           | Circular      | 1.200        |

| Name | Lock |
|------|------|
| S30  | None |
| S29  | None |
| S28  | None |
| S27  | None |
| S26  | None |
| S25  | None |
| S24  | None |
| S23  | None |
| S22  | None |
| S21  | None |
| S20  | None |
| HW6  | None |

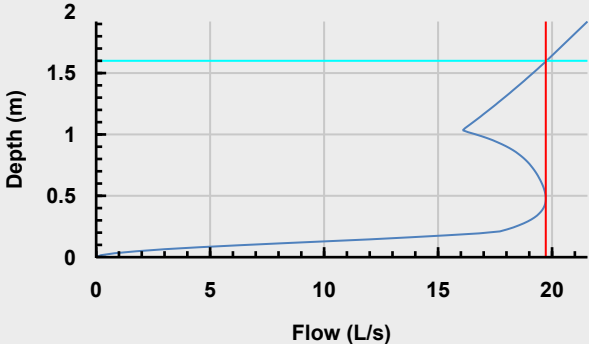
|                                                                              |                         |             |              |                                                                                     |
|------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model | Date:<br>27/08/2025     |             |              |  |
|                                                                              | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: S104  | Revision:<br>Rev 3      |             |              |                                                                                     |

## Inlets

| Junction | Inlet Name | Incoming Item(s)                                                                  | Bypass Destination | Capacity Type  |
|----------|------------|-----------------------------------------------------------------------------------|--------------------|----------------|
| S30      | Inlet      | Employment 1                                                                      | (None)             | No Restriction |
|          | Inlet (1)  | Highway Area 22                                                                   | (None)             | No Restriction |
| S29      | Inlet      | 2.000<br>Sub-Station 2                                                            | (None)             | No Restriction |
|          | Inlet (1)  | Leisure Parcel 3                                                                  | (None)             | No Restriction |
| S28      | Inlet      | 2.001                                                                             | (None)             | No Restriction |
|          | Inlet (1)  | Highway Area 21                                                                   | (None)             | No Restriction |
|          | Inlet (2)  | Highway Area 20                                                                   | (None)             | No Restriction |
|          | Inlet (3)  | Leisure Parcel 2                                                                  | (None)             | No Restriction |
| S27      | Inlet      | 2.002                                                                             | (None)             | No Restriction |
| S26      | Inlet      | Health Centre<br>2.003                                                            | (None)             | No Restriction |
|          | Inlet (1)  | Highway Area 19<br>Highway Area 18                                                | (None)             | No Restriction |
| S25      | Inlet      | 2.004                                                                             | (None)             | No Restriction |
|          | Inlet (1)  | Highway Area 17                                                                   | (None)             | No Restriction |
|          | Inlet (2)  | Highway Area 16                                                                   | (None)             | No Restriction |
| S24      | Inlet      | 2.005<br>Highway Area 13                                                          | (None)             | No Restriction |
|          | Inlet (1)  | 2.101                                                                             | (None)             | No Restriction |
| S23      | Inlet      | 2.006<br>Highway Area 11<br>Highway Area 12<br>Highway Area 14<br>Highway Area 15 | (None)             | No Restriction |
| S22      | Inlet      | 2.007<br>Highway Area 10                                                          | (None)             | No Restriction |
| S21      | Inlet      | 2.008                                                                             | (None)             | No Restriction |
|          | Inlet (1)  | 6.000                                                                             | (None)             | No Restriction |
| S20      | Inlet      | 2.010                                                                             | (None)             | No Restriction |
| HW6      | Inlet      | 2.011                                                                             | (None)             | No Restriction |

|                                                                              |                         |             |              |
|------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model | Date:<br>27/08/2025     |             |              |
|                                                                              | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: S104  | Revision:<br>Rev 3      |             |              |



| Outlets  |                                                                                     |                                        |                |
|----------|-------------------------------------------------------------------------------------|----------------------------------------|----------------|
| Junction | Outlet Name                                                                         | Outgoing Connection                    | Outlet Type    |
| S30      | Outlet                                                                              | 2.000                                  | Free Discharge |
| S29      | Outlet                                                                              | 2.001                                  | Free Discharge |
| S28      | Outlet                                                                              | 2.002                                  | Free Discharge |
| S27      | Outlet                                                                              | 2.003                                  | Free Discharge |
| S26      | Outlet                                                                              | 2.004                                  | Free Discharge |
| S25      | Outlet                                                                              | 2.005                                  | Free Discharge |
| S24      | Outlet                                                                              | 2.006                                  | Free Discharge |
| S23      | Outlet                                                                              | 2.007                                  | Free Discharge |
| S22      | Outlet                                                                              | 2.008                                  | Free Discharge |
| S21      | Outlet                                                                              | 2.009                                  | Free Discharge |
| S20      | Outlet                                                                              | (None)                                 | Hydro-Brake®   |
|          | Invert Level (m)                                                                    | 50.950                                 |                |
|          | Design Depth (m)                                                                    | 1.600                                  |                |
|          | Design Flow (L/s)                                                                   | 19.8                                   |                |
|          | Objective                                                                           | Minimise Upstream Storage Requirements |                |
|          | Application                                                                         | Surface Water Only                     |                |
|          | Sump Available                                                                      | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                      | SHE-0189-1980-1600-1980                |                |
|          |  |                                        |                |
|          | Outlet (1)                                                                          | 2.011                                  | Free Discharge |
| HW6      | Outlet                                                                              | (None)                                 | Flap Valve     |
|          | Diameter (m)                                                                        | 0.225                                  |                |
|          | Coefficient of Discharge                                                            | 0.600                                  |                |
|          | Invert Level (m)                                                                    | 50.900                                 |                |



|                                                                                       |                         |             |              |
|---------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model          | Date:<br>27/08/2025     |             |              |
|                                                                                       | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls<br>Storm Phase: Phase<br>Flow Path: S104 | Revision:<br>Rev 3      |             |              |



**Pond 6a**

Type : Pond

### Dimensions

|                      |          |
|----------------------|----------|
| Exceedance Level (m) | 52.900   |
| Depth (m)            | 1.900    |
| Base Level (m)       | 51.000   |
| Freeboard (mm)       | 300      |
| Initial Depth (m)    | 0.000    |
| Porosity (%)         | 100      |
| Average Slope (1:X)  | 5.044    |
| Total Volume (m³)    | 3004.776 |

| Depth (m) | Area (m²) | Volume (m³) |
|-----------|-----------|-------------|
| 0.000     | 1295.00   | 0.000       |
| 1.900     | 2806.15   | 3804.716    |

### Inlets

#### Inlet

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | 2.009          |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

#### Inlet (1)

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | 3.004          |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

#### Inlet (2)

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | 4.002          |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

### Outlets

#### Outlet

|                     |                |
|---------------------|----------------|
| Outgoing Connection | 2.010          |
| Outlet Type         | Free Discharge |

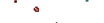
### Advanced

|                 |             |
|-----------------|-------------|
| Perimeter       | Circular    |
| Length (m)      | 78.580      |
| Friction Scheme | Manning's n |
| n               | 0.03        |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model       |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: S104 |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)              | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
|                              |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| S30                          | 56.900<br>54.430                    |    | Diameter / Length: 1.500 |                      |                 |                       |                      | Manhole        | {a} Free Discharge |                     |
| E:519689.665<br>N:133368.529 | 2.470                               |                                                                                     |                          | {a} 2.000            | Pipe            | 54.430                | Diam/Width: 525      | Not Applicable |                    |                     |
| S29                          | 56.525<br>54.235                    |  | Diameter / Length: 1.500 | {1} 2.000            | Pipe            | 54.235                | Diam/Width: 525      | Manhole        | {a} Free Discharge |                     |
| E:519651.049<br>N:133382.996 | 2.290                               |                                                                                     |                          | {a} 2.001            | Pipe            | 54.235                | Diam/Width: 525      | Not Applicable |                    |                     |
| S28                          | 55.825<br>54.000                    |  | Diameter / Length: 1.500 | {1} 2.001            | Pipe            | 54.075                | Diam/Width: 525      | Manhole        | {a} Free Discharge |                     |
| E:519585.537<br>N:133410.128 | 1.825                               |                                                                                     |                          | {a} 2.002            | Pipe            | 54.000                | Diam/Width: 600      | Not Applicable |                    |                     |
| S27                          | 55.450<br>52.435                    |  | Diameter / Length: 1.500 | {1} 2.002            | Pipe            | 52.435                | Diam/Width: 600      | Manhole        | {a} Free Discharge |                     |
| E:519554.630<br>N:133421.601 | 3.015                               |                                                                                     |                          | {a} 2.003            | Pipe            | 52.435                | Diam/Width: 600      | Not Applicable |                    |                     |
| S26                          | 54.975<br>52.350                    |  | Diameter / Length: 1.500 | {1} 2.003            | Pipe            | 52.350                | Diam/Width: 600      | Manhole        | {a} Free Discharge |                     |
| E:519518.308<br>N:133430.390 | 2.625                               |                                                                                     |                          | {a} 2.004            | Pipe            | 52.350                | Diam/Width: 600      | Not Applicable |                    |                     |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model       |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: S104 |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)              | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
|                              |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| S25                          | 54.475<br>52.100                    |    | Diameter / Length: 1.800 | {1} 2.004            | Pipe            | 52.250                | Diam/Width: 600      | Manhole        | {a} Free Discharge |                     |
| E:519475.001<br>N:133436.769 | 2.375                               |                                                                                     |                          | {a} 2.005            | Pipe            | 52.100                | Diam/Width: 750      | Not Applicable |                    |                     |
| S24                          | 54.750<br>52.025                    |  | Diameter / Length: 1.800 | {1} 2.005            | Pipe            | 52.025                | Diam/Width: 750      | Manhole        | {a} Free Discharge |                     |
| E:519438.209<br>N:133435.586 | 2.725                               |                                                                                     |                          | {2} 2.101            | Pipe            | 52.325                | Diam/Width: 450      |                |                    |                     |
|                              |                                     |                                                                                     |                          | {a} 2.006            | Pipe            | 52.025                | Diam/Width: 750      | Not Applicable |                    |                     |
| S23                          | 55.010<br>51.980                    |  | Diameter / Length: 1.800 | {1} 2.006            | Pipe            | 51.980                | Diam/Width: 750      | Manhole        | {a} Free Discharge |                     |
| E:519416.290<br>N:133427.398 | 3.030                               |                                                                                     |                          | {a} 2.007            | Pipe            | 51.980                | Diam/Width: 750      | Not Applicable |                    |                     |
| S22                          | 55.715<br>51.930                    |  | Diameter / Length: 1.800 | {1} 2.007            | Pipe            | 51.930                | Diam/Width: 750      | Manhole        | {a} Free Discharge |                     |
| E:519399.763<br>N:133408.908 | 3.785                               |                                                                                     |                          | {a} 2.008            | Pipe            | 51.930                | Diam/Width: 750      | Not Applicable |                    |                     |



|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model       |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: S104 |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)              | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
|                              |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| S21                          | 54.300<br>51.645                    |    | Diameter / Length: 1.800 | {1} 2.008            | Pipe            | 51.645                | Diam/Width: 750      | Manhole        | {a} Free Discharge |                     |
| E:519383.867<br>N:133419.071 | 2.655                               |                                                                                     |                          | {2} 6.000            | Pipe            | 52.245                | Diam/Width: 150      |                |                    |                     |
|                              |                                     |                                                                                     |                          | {a} 2.009            | Pipe            | 51.645                | Diam/Width: 750      | Not Applicable |                    |                     |
| S20                          | 53.500<br>50.950                    |  | Diameter / Length: 1.200 | {1} 2.010            | Pipe            | 50.950                | Diam/Width: 600      | Manhole        | {a} Free Discharge |                     |
| E:519303.005<br>N:133390.353 | 2.550                               |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
|                              |                                     |                                                                                     |                          | {a} 2.011            | Pipe            | 50.950                | Diam/Width: 225      | Not Applicable |                    |                     |
| HW6                          | 52.900<br>50.900                    |  | Diameter / Length: 1.200 | {1} 2.011            | Pipe            | 50.900                | Diam/Width: 225      | Manhole        |                    |                     |
| E:519297.122<br>N:133397.985 | 2.000                               |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
|                              |                                     |                                                                                     |                          |                      |                 |                       |                      | Not Applicable |                    |                     |

|                                                                                  |                         |             |              |
|----------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model     | Date:<br>27/08/2025     |             |              |
|                                                                                  | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: S104 | Revision:<br>Rev 3      |             |              |



| Inflow Label     | Connected To | Flow (L/s) | Runoff Method         | Area (ha) | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|------------------|--------------|------------|-----------------------|-----------|---------------------------|-----------------|------------------------------------|--------------------|
| Employment 1     | S30          |            | Time of Concentration | 0.460     | 90                        | 0               | 90                                 | 0.414              |
| Highway Area 22  | S30          |            | Time of Concentration | 0.064     | 100                       | 0               | 100                                | 0.064              |
| Sub-Station 2    | S29          |            | Time of Concentration | 0.002     | 100                       | 0               | 100                                | 0.002              |
| Leisure Parcel 3 | S29          |            | Time of Concentration | 0.466     | 80                        | 0               | 80                                 | 0.373              |
| Highway Area 21  | S28          |            | Time of Concentration | 0.046     | 100                       | 0               | 100                                | 0.046              |
| Highway Area 20  | S28          |            | Time of Concentration | 0.162     | 100                       | 0               | 100                                | 0.162              |
| Leisure Parcel 2 | S28          |            | Time of Concentration | 0.502     | 80                        | 0               | 80                                 | 0.401              |
| Health Centre    | S26          |            | Time of Concentration | 0.770     | 80                        | 0               | 80                                 | 0.616              |
| Highway Area 19  | S26          |            | Time of Concentration | 0.030     | 100                       | 0               | 100                                | 0.030              |
| Highway Area 18  | S26          |            | Time of Concentration | 0.096     | 100                       | 0               | 100                                | 0.096              |
| Highway Area 17  | S25          |            | Time of Concentration | 0.040     | 100                       | 0               | 100                                | 0.040              |
| Highway Area 16  | S25          |            | Time of Concentration | 0.090     | 100                       | 0               | 100                                | 0.090              |
| Branch: 2.101    |              |            |                       |           |                           |                 |                                    |                    |
| Leisure Parcel 1 | S24.1        |            | Time of Concentration | 1.584     | 80                        | 0               | 80                                 | 1.267              |
| Highway Area 13  | S24          |            | Time of Concentration | 0.011     | 100                       | 0               | 100                                | 0.011              |
| Highway Area 11  | S23          |            | Time of Concentration | 0.015     | 100                       | 0               | 100                                | 0.015              |
| Highway Area 12  | S23          |            | Time of Concentration | 0.013     | 100                       | 0               | 100                                | 0.013              |
| Highway Area 14  | S23          |            | Time of Concentration | 0.007     | 100                       | 0               | 100                                | 0.007              |
| Highway Area 15  | S23          |            | Time of Concentration | 0.011     | 100                       | 0               | 100                                | 0.011              |
| Highway Area 10  | S22          |            | Time of Concentration | 0.016     | 100                       | 0               | 100                                | 0.016              |
| Branch: 6.000    |              |            |                       |           |                           |                 |                                    |                    |
| Sub-Station 1    | S31          |            | Time of Concentration | 0.004     | 100                       | 0               | 100                                | 0.004              |
| Branch: 3.000    |              |            |                       |           |                           |                 |                                    |                    |
| Highway Area 5   | S6           |            | Time of Concentration | 0.019     | 100                       | 0               | 100                                | 0.019              |
| Highway Area 6   | S7           |            | Time of Concentration | 0.014     | 100                       | 0               | 100                                | 0.014              |
| Highway Area 7   | S7           |            | Time of Concentration | 0.016     | 100                       | 0               | 100                                | 0.016              |
| Highway Area 8   | S9           |            | Time of Concentration | 0.027     | 100                       | 0               | 100                                | 0.027              |
| Highway Area 9   | S9           |            | Time of Concentration | 0.013     | 100                       | 0               | 100                                | 0.013              |
| Branch: 4.000    |              |            |                       |           |                           |                 |                                    |                    |
| Highway Area 1   | S1           |            | Time of Concentration | 0.009     | 100                       | 0               | 100                                | 0.009              |
| Branch: 5.000    |              |            |                       |           |                           |                 |                                    |                    |
| Highway Area 4   | S2A          |            | Time of Concentration | 0.021     | 100                       | 0               | 100                                | 0.021              |

|                                                                                  |  |                         |             |              |                                                                                     |  |  |
|----------------------------------------------------------------------------------|--|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|--|--|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model     |  | Date:<br>27/08/2025     |             |              |  |  |  |
|                                                                                  |  | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |  |  |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: S104 |  | Revision:<br>Rev 3      |             |              |                                                                                     |  |  |

|                |    |     |                       |       |     |   |     |       |
|----------------|----|-----|-----------------------|-------|-----|---|-----|-------|
| Highway Area 3 | S2 |     | Time of Concentration | 0.018 | 100 | 0 | 100 | 0.018 |
| Highway Area 2 | S2 |     | Time of Concentration | 0.018 | 100 | 0 | 100 | 0.018 |
| TOTAL          |    | 0.0 |                       | 4.544 |     |   |     | 3.833 |



|                                                                                  |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model     |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                  |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S1   | Manhole       | 519256.591  | 133366.343   | 55.030          | 1.205     | 53.825           | Circular      | 1.200        |
| S2   | Manhole       | 519323.850  | 133347.985   | 56.050          | 2.615     | 53.435           | Circular      | 1.200        |
| S3   | Manhole       | 519327.658  | 133359.742   | 54.050          | 1.850     | 52.200           | Circular      | 1.200        |

| Name | Lock |
|------|------|
| S1   | None |
| S2   | None |
| S3   | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s)        | Bypass Destination | Capacity Type  |
|----------|------------|-------------------------|--------------------|----------------|
| S1       | Inlet      | Highway Area 1          | (None)             | No Restriction |
| S2       | Inlet      | 4.000<br>Highway Area 3 | (None)             | No Restriction |
|          | Inlet (1)  | 5.000                   | (None)             | No Restriction |
|          | Inlet (2)  | Highway Area 2          | (None)             | No Restriction |
| S3       | Inlet      | 4.001                   | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name | Outgoing Connection | Outlet Type    |
|----------|-------------|---------------------|----------------|
| S1       | Outlet      | 4.000               | Free Discharge |
| S2       | Outlet      | 4.001               | Free Discharge |
| S3       | Outlet      | 4.002               | Free Discharge |

|                                                                                            |                         |             |              |
|--------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model               | Date:<br>27/08/2025     |             |              |
|                                                                                            | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls<br>Storm Phase: Phase<br>Flow Path: Highway 2 | Revision:<br>Rev 3      |             |              |



**Pond 6a**

Type : Pond

### Dimensions

|                      |          |
|----------------------|----------|
| Exceedance Level (m) | 52.900   |
| Depth (m)            | 1.900    |
| Base Level (m)       | 51.000   |
| Freeboard (mm)       | 300      |
| Initial Depth (m)    | 0.000    |
| Porosity (%)         | 100      |
| Average Slope (1:X)  | 5.044    |
| Total Volume (m³)    | 3004.776 |

| Depth (m) | Area (m²) | Volume (m³) |
|-----------|-----------|-------------|
| 0.000     | 1295.00   | 0.000       |
| 1.900     | 2806.15   | 3804.716    |

### Inlets

#### Inlet

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | 2.009          |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

#### Inlet (1)

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | 3.004          |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

#### Inlet (2)

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | 4.002          |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

### Outlets

#### Outlet

|                     |                |
|---------------------|----------------|
| Outgoing Connection | 2.010          |
| Outlet Type         | Free Discharge |

### Advanced

|                 |             |
|-----------------|-------------|
| Perimeter       | Circular    |
| Length (m)      | 78.580      |
| Friction Scheme | Manning's n |
| n               | 0.03        |

|                                                                                         |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model            |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)              | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
|                              |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| S1                           | 55.030<br>53.825                    |    | Diameter / Length: 1.200 |                      |                 |                       |                      | Manhole        | {a} Free Discharge |                     |
| E:519256.591<br>N:133366.343 | 1.205                               |                                                                                     |                          | {a} 4.000            | Pipe            | 53.825                | Diam/Width: 225      | Not Applicable |                    |                     |
|                              |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| S2                           | 56.050<br>53.435                    |  | Diameter / Length: 1.200 | {1} 4.000            | Pipe            | 53.435                | Diam/Width: 225      | Manhole        | {a} Free Discharge |                     |
| E:519323.850<br>N:133347.985 | 2.615                               |                                                                                     |                          | {2} 5.000            | Pipe            | 53.435                | Diam/Width: 225      |                |                    |                     |
|                              |                                     |                                                                                     |                          | {a} 4.001            | Pipe            | 53.435                | Diam/Width: 225      | Not Applicable |                    |                     |
| S3                           | 54.050<br>52.200                    |  | Diameter / Length: 1.200 | {1} 4.001            | Pipe            | 52.200                | Diam/Width: 225      | Manhole        | {a} Free Discharge |                     |
| E:519327.658<br>N:133359.742 | 1.850                               |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
|                              |                                     |                                                                                     |                          | {a} 4.002            | Pipe            | 52.200                | Diam/Width: 225      | Not Applicable |                    |                     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model          |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Inflow Label   | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|----------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Highway Area 1 | S1           |            | Time of Concentration | 0.009        | 100                       | 0               | 100                                | 0.009              |
| Branch: 5.000  |              |            |                       |              |                           |                 |                                    |                    |
| Highway Area 4 | S2A          |            | Time of Concentration | 0.021        | 100                       | 0               | 100                                | 0.021              |
| Highway Area 3 | S2           |            | Time of Concentration | 0.018        | 100                       | 0               | 100                                | 0.018              |
| Highway Area 2 | S2           |            | Time of Concentration | 0.018        | 100                       | 0               | 100                                | 0.018              |
| <b>TOTAL</b>   |              | <b>0.0</b> |                       | <b>0.066</b> |                           |                 |                                    | <b>0.066</b>       |



|                                                                                           |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model              |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                           |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S2A  | Manhole       | 519341.545  | 133342.798   | 56.600          | 1.425     | 55.175           | Circular      | 1.200        |
| S2   | Manhole       | 519323.850  | 133347.985   | 56.050          | 2.615     | 53.435           | Circular      | 1.200        |

| Name | Lock |
|------|------|
| S2A  | None |
| S2   | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s)        | Bypass Destination | Capacity Type  |
|----------|------------|-------------------------|--------------------|----------------|
| S2A      | Inlet      | Highway Area 4          | (None)             | No Restriction |
| S2       | Inlet      | 4.000<br>Highway Area 3 | (None)             | No Restriction |
|          | Inlet (1)  | 5.000                   | (None)             | No Restriction |
|          | Inlet (2)  | Highway Area 2          | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name | Outgoing Connection | Outlet Type    |
|----------|-------------|---------------------|----------------|
| S2A      | Outlet      | 5.000               | Free Discharge |
| S2       | Outlet      | 4.001               | Free Discharge |

|                                                                                                  |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                     |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                  |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) |                                                                                     |                          | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)              | Depth (m)                           | Manhole Schematic                                                                   | Manhole Size (m)         | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
|                              |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| S2A                          | 56.600<br>55.175                    |    | Diameter / Length: 1.200 |                      |                 |                       |                      | Manhole        | {a} Free Discharge |                     |
| E:519341.545<br>N:133342.798 | 1.425                               |                                                                                     |                          | {a} 5.000            | Pipe            | 55.175                | Diam/Width: 225      | Not Applicable |                    |                     |
| S2                           | 56.050<br>53.435                    |  | Diameter / Length: 1.200 | {1} 4.000            | Pipe            | 53.435                | Diam/Width: 225      | Manhole        | {a} Free Discharge |                     |
| E:519323.850<br>N:133347.985 | 2.615                               |                                                                                     |                          | {2} 5.000            | Pipe            | 53.435                | Diam/Width: 225      |                |                    |                     |
|                              |                                     |                                                                                     |                          | {a} 4.001            | Pipe            | 53.435                | Diam/Width: 225      | Not Applicable |                    |                     |

|                                                                                                |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                   |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Inflow Label   | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|----------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Highway Area 4 | S2A          |            | Time of Concentration | 0.021        | 100                       | 0               | 100                                | 0.021              |
| Highway Area 3 | S2           |            | Time of Concentration | 0.018        | 100                       | 0               | 100                                | 0.018              |
| Highway Area 2 | S2           |            | Time of Concentration | 0.018        | 100                       | 0               | 100                                | 0.018              |
| <b>TOTAL</b>   |              | <b>0.0</b> |                       | <b>0.057</b> |                           |                 |                                    | <b>0.057</b>       |

|                                                                                  |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model     |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                  |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S6   | Manhole       | 519378.196  | 133344.601   | 57.650          | 1.575     | 56.075           | Circular      | 1.200        |
| S7   | Manhole       | 519378.272  | 133360.573   | 57.325          | 1.600     | 55.725           | Circular      | 1.200        |
| S8   | Manhole       | 519383.197  | 133373.461   | 57.215          | 1.827     | 55.388           | Circular      | 1.200        |
| S9   | Manhole       | 519387.869  | 133385.684   | 56.850          | 1.800     | 55.050           | Circular      | 1.200        |
| S10  | Manhole       | 519375.265  | 133390.380   | 54.900          | 2.235     | 52.665           | Circular      | 1.200        |

| Name | Lock |
|------|------|
| S6   | None |
| S7   | None |
| S8   | None |
| S9   | None |
| S10  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s)                 | Bypass Destination | Capacity Type  |
|----------|------------|----------------------------------|--------------------|----------------|
| S6       | Inlet      | Highway Area 5                   | (None)             | No Restriction |
| S7       | Inlet      | 3.000<br>Highway Area 6          | (None)             | No Restriction |
|          | Inlet (1)  | Highway Area 7                   | (None)             | No Restriction |
| S8       | Inlet      | 3.001                            | (None)             | No Restriction |
| S9       | Inlet      | Highway Area 8<br>Highway Area 9 | (None)             | No Restriction |
|          | Inlet (1)  | 3.002                            | (None)             | No Restriction |
| S10      | Inlet      | 3.003                            | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name | Outgoing Connection | Outlet Type    |
|----------|-------------|---------------------|----------------|
| S6       | Outlet      | 3.000               | Free Discharge |
| S7       | Outlet      | 3.001               | Free Discharge |
| S8       | Outlet      | 3.002               | Free Discharge |
| S9       | Outlet      | 3.003               | Free Discharge |
| S10      | Outlet      | 3.004               | Free Discharge |



|                                                                                            |                         |             |              |
|--------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model               | Date:<br>27/08/2025     |             |              |
|                                                                                            | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls<br>Storm Phase: Phase<br>Flow Path: Highway 1 | Revision:<br>Rev 3      |             |              |



**Pond 6a**

Type : Pond

### Dimensions

|                      |          |
|----------------------|----------|
| Exceedance Level (m) | 52.900   |
| Depth (m)            | 1.900    |
| Base Level (m)       | 51.000   |
| Freeboard (mm)       | 300      |
| Initial Depth (m)    | 0.000    |
| Porosity (%)         | 100      |
| Average Slope (1:X)  | 5.044    |
| Total Volume (m³)    | 3004.776 |

| Depth (m) | Area (m²) | Volume (m³) |
|-----------|-----------|-------------|
| 0.000     | 1295.00   | 0.000       |
| 1.900     | 2806.15   | 3804.716    |

### Inlets

#### Inlet

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | 2.009          |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

#### Inlet (1)

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | 3.004          |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

#### Inlet (2)

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | 4.002          |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

### Outlets

#### Outlet

|                     |                |
|---------------------|----------------|
| Outgoing Connection | 2.010          |
| Outlet Type         | Free Discharge |

### Advanced

|                 |             |
|-----------------|-------------|
| Perimeter       | Circular    |
| Length (m)      | 78.580      |
| Friction Scheme | Manning's n |
| n               | 0.03        |

|                                                                                         |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model            |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)              | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
|                              |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| S6                           | 57.650<br>56.075                    |    | Diameter / Length: 1.200 |                      |                 |                       |                      | Manhole        | {a} Free Discharge |                     |
| E:519378.196<br>N:133344.601 | 1.575                               |                                                                                     |                          | {a} 3.000            | Pipe            | 56.075                | Diam/Width: 225      | Not Applicable |                    |                     |
| S7                           | 57.325<br>55.725                    |  | Diameter / Length: 1.200 | {1} 3.000            | Pipe            | 55.725                | Diam/Width: 225      | Manhole        | {a} Free Discharge |                     |
| E:519378.272<br>N:133360.573 | 1.600                               |                                                                                     |                          | {a} 3.001            | Pipe            | 55.725                | Diam/Width: 225      | Not Applicable |                    |                     |
| S8                           | 57.215<br>55.388                    |  | Diameter / Length: 1.200 | {1} 3.001            | Pipe            | 55.388                | Diam/Width: 225      | Manhole        | {a} Free Discharge |                     |
| E:519383.197<br>N:133373.461 | 1.827                               |                                                                                     |                          | {a} 3.002            | Pipe            | 55.388                | Diam/Width: 225      | Not Applicable |                    |                     |
| S9                           | 56.850<br>55.050                    |  | Diameter / Length: 1.200 | {1} 3.002            | Pipe            | 55.050                | Diam/Width: 225      | Manhole        | {a} Free Discharge |                     |
| E:519387.869<br>N:133385.684 | 1.800                               |                                                                                     |                          | {a} 3.003            | Pipe            | 55.050                | Diam/Width: 225      | Not Applicable |                    |                     |
| S10                          | 54.900<br>52.665                    |  | Diameter / Length: 1.200 | {1} 3.003            | Pipe            | 52.665                | Diam/Width: 225      | Manhole        | {a} Free Discharge |                     |
| E:519375.265<br>N:133390.380 | 2.235                               |                                                                                     |                          | {a} 3.004            | Pipe            | 52.665                | Diam/Width: 225      | Not Applicable |                    |                     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model          |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Inflow Label   | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|----------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Highway Area 5 | S6           |            | Time of Concentration | 0.019        | 100                       | 0               | 100                                | 0.019              |
| Highway Area 6 | S7           |            | Time of Concentration | 0.014        | 100                       | 0               | 100                                | 0.014              |
| Highway Area 7 | S7           |            | Time of Concentration | 0.016        | 100                       | 0               | 100                                | 0.016              |
| Highway Area 8 | S9           |            | Time of Concentration | 0.027        | 100                       | 0               | 100                                | 0.027              |
| Highway Area 9 | S9           |            | Time of Concentration | 0.013        | 100                       | 0               | 100                                | 0.013              |
| <b>TOTAL</b>   |              | <b>0.0</b> |                       | <b>0.089</b> |                           |                 |                                    | <b>0.089</b>       |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model         |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: S104 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S24.1 | Manhole       | 519451.410  | 133424.784   | 54.850          | 2.465     | 52.385           | Circular      | 1.200        |
| S24   | Manhole       | 519438.209  | 133435.586   | 54.750          | 2.725     | 52.025           | Circular      | 1.800        |

| Name  | Lock |
|-------|------|
| S24.1 | None |
| S24   | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s)      | Bypass Destination | Capacity Type  |
|----------|------------|-----------------------|--------------------|----------------|
| S24.1    | Inlet      | Leisure Parcel 1      | (None)             | No Restriction |
| S24      | Inlet      | 2.005 Highway Area 13 | (None)             | No Restriction |
|          | Inlet (1)  | 2.101                 | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name | Outgoing Connection | Outlet Type    |
|----------|-------------|---------------------|----------------|
| S24.1    | Outlet      | 2.101               | Free Discharge |
| S24      | Outlet      | 2.006               | Free Discharge |

|                                                                                             |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                             |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: S104 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name                                 | Cover Level (m)<br>Invert Level (m) |                                                                                     |                          | Connection Details   |                 |                       |                      | Type           |                    |                     |
|--------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)                      | Depth (m)                           | Manhole Schematic                                                                   | Manhole Size (m)         | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
|                                      |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| S24.1                                | 54.850<br>52.385                    |    | Diameter / Length: 1.200 |                      |                 |                       |                      | Manhole        | {a} Free Discharge |                     |
| E:519451.4<br>10<br>N:133424.7<br>84 | 2.465                               |                                                                                     |                          | {a} 2.101            | Pipe            | 52.385                | Diam/Width: 450      | Not Applicable |                    |                     |
| S24                                  | 54.750<br>52.025                    |  | Diameter / Length: 1.800 | {1} 2.005            | Pipe            | 52.025                | Diam/Width: 750      | Manhole        | {a} Free Discharge |                     |
| E:519438.2<br>09<br>N:133435.5<br>86 | 2.725                               |                                                                                     |                          | {2} 2.101            | Pipe            | 52.325                | Diam/Width: 450      |                |                    |                     |
|                                      |                                     |                                                                                     |                          | {a} 2.006            | Pipe            | 52.025                | Diam/Width: 750      | Not Applicable |                    |                     |



|                                                                                           |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model              |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                           |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Inflow Label     | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|------------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Leisure Parcel 1 | S24.1        |            | Time of Concentration | 1.584        | 80                        | 0               | 80                                 | 1.267              |
| Highway Area 13  | S24          |            | Time of Concentration | 0.011        | 100                       | 0               | 100                                | 0.011              |
| <b>TOTAL</b>     |              | <b>0.0</b> |                       | <b>1.595</b> |                           |                 |                                    | <b>1.278</b>       |

|                                                                                |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model   |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Private |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S31  | Manhole       | 519394.745  | 133429.518   | 55.275          | 1.350     | 53.925           | Circular      | 1.200        |
| S21  | Manhole       | 519383.867  | 133419.071   | 54.300          | 2.655     | 51.645           | Circular      | 1.800        |

| Name | Lock |
|------|------|
| S31  | None |
| S21  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S31      | Inlet      | Sub-Station 1    | (None)             | No Restriction |
| S21      | Inlet      | 2.008            | (None)             | No Restriction |
|          | Inlet (1)  | 6.000            | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name | Outgoing Connection | Outlet Type    |
|----------|-------------|---------------------|----------------|
| S31      | Outlet      | 6.000               | Free Discharge |
| S21      | Outlet      | 2.009               | Free Discharge |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model          |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Private |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)              | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
|                              |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| S31                          | 55.275<br>53.925                    |    | Diameter / Length: 1.200 |                      |                 |                       |                      | Manhole        | {a} Free Discharge |                     |
| E:519394.745<br>N:133429.518 | 1.350                               |                                                                                     |                          | {a} 6.000            | Pipe            | 53.925                | Diam/Width: 150      | Not Applicable |                    |                     |
| S21                          | 54.300<br>51.645                    |  | Diameter / Length: 1.800 | {1} 2.008            | Pipe            | 51.645                | Diam/Width: 750      | Manhole        | {a} Free Discharge |                     |
| E:519383.867<br>N:133419.071 | 2.655                               |                                                                                     |                          | {2} 6.000            | Pipe            | 52.245                | Diam/Width: 150      |                |                    |                     |
|                              |                                     |                                                                                     |                          | {a} 2.009            | Pipe            | 51.645                | Diam/Width: 750      | Not Applicable |                    |                     |

|                                                                                     |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model        |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                     |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Private |  | Revision:<br>Rev 3      |             |                                                                                     |              |

| Inflow Label  | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|---------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Sub-Station 1 | S31          |            | Time of Concentration | 0.004        | 100                       | 0               | 100                                | 0.004              |
| <b>TOTAL</b>  |              | <b>0.0</b> |                       | <b>0.004</b> |                           |                 |                                    | <b>0.004</b>       |

|                                                                              |                         |             |              |
|------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model | Date:<br>27/08/2025     |             |              |
|                                                                              | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Network Design Criteria<br>Storm Phase: Phase       | Revision:<br>Rev 3      |             |              |



### Flow Options

|                           |                               |
|---------------------------|-------------------------------|
| Peak Flow Calculation     | (UK) Modified Rational Method |
| Min. Time of Entry (mins) | 5                             |
| Max. Travel Time (mins)   | 30                            |

FEH22

Type: FEH

|                       |                                    |
|-----------------------|------------------------------------|
| Site Location         | GB 519000 133350 TQ 19000<br>33350 |
| Return Period (years) | 2.0                                |
| Rainfall Version      | 2022                               |

### Pipe Options

|                       |                          |
|-----------------------|--------------------------|
| Lock Slope Options    | None                     |
| Design Options        | Minimise Excavation      |
| Design Level          | Level Soffits            |
| Min. Cover Depth (m)  | 1.200                    |
| Min. Slope (1:X)      | 500.00                   |
| Max. Slope (1:X)      | 40.00                    |
| Min. Velocity (m/s)   | 1.0                      |
| Max. Velocity (m/s)   | 3.0                      |
| Use Flow Restriction  | <input type="checkbox"/> |
| Reduce Channel Depths | <input type="checkbox"/> |

### Manhole Options

|              |                          |
|--------------|--------------------------|
| Apply Offset | <input type="checkbox"/> |
|--------------|--------------------------|



|                                                                              |                         |             |              |
|------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model | Date:<br>27/08/2025     |             |              |
|                                                                              | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Outfall Details<br>Storm Phase: Phase               | Revision:<br>Rev 3      |             |              |



## Outfalls

| Outfall                                    | Outfall Type           | Gated                    | Fixed Surcharged Level (m) | Level Curve |
|--------------------------------------------|------------------------|--------------------------|----------------------------|-------------|
| S20                                        | Free Discharge         |                          |                            |             |
| HW6                                        | Fixed Surcharged Level | <input type="checkbox"/> | 52.750                     |             |
| FEH22 : 2 years: +0 %: 120 mins: Summer    |                        |                          | 52.750                     |             |
| FEH22 : 2 years: +0 %: 120 mins: Winter    |                        |                          | 52.750                     |             |
| FEH22 : 30 years: +0 %: 120 mins: Summer   |                        |                          | 52.750                     |             |
| FEH22 : 30 years: +0 %: 120 mins: Winter   |                        |                          | 52.750                     |             |
| FEH22 : 100 years: +20 %: 120 mins: Summer |                        |                          | 52.750                     |             |
| FEH22 : 100 years: +20 %: 120 mins: Winter |                        |                          | 52.750                     |             |
| FEH22 : 2 years: +0 %: 180 mins: Summer    |                        |                          | 52.750                     |             |
| FEH22 : 2 years: +0 %: 180 mins: Winter    |                        |                          | 52.750                     |             |
| FEH22 : 30 years: +0 %: 180 mins: Summer   |                        |                          | 52.750                     |             |
| FEH22 : 30 years: +0 %: 180 mins: Winter   |                        |                          | 52.750                     |             |
| FEH22 : 100 years: +20 %: 180 mins: Summer |                        |                          | 52.750                     |             |
| FEH22 : 100 years: +20 %: 180 mins: Winter |                        |                          | 52.750                     |             |
| FEH22 : 2 years: +0 %: 240 mins: Summer    |                        |                          | 52.750                     |             |
| FEH22 : 2 years: +0 %: 240 mins: Winter    |                        |                          | 52.750                     |             |
| FEH22 : 30 years: +0 %: 240 mins: Summer   |                        |                          | 52.750                     |             |
| FEH22 : 30 years: +0 %: 240 mins: Winter   |                        |                          | 52.750                     |             |
| FEH22 : 100 years: +20 %: 240 mins: Summer |                        |                          | 52.750                     |             |
| FEH22 : 100 years: +20 %: 240 mins: Winter |                        |                          | 52.750                     |             |
| FEH22 : 2 years: +0 %: 360 mins: Summer    |                        |                          | 52.750                     |             |
| FEH22 : 2 years: +0 %: 360 mins: Winter    |                        |                          | 52.750                     |             |
| FEH22 : 30 years: +0 %: 360 mins: Summer   |                        |                          | 52.750                     |             |
| FEH22 : 30 years: +0 %: 360 mins: Winter   |                        |                          | 52.750                     |             |
| FEH22 : 100 years: +20 %: 360 mins: Summer |                        |                          | 52.750                     |             |
| FEH22 : 100 years: +20 %: 360 mins: Winter |                        |                          | 52.750                     |             |
| FEH22 : 2 years: +0 %: 480 mins: Summer    |                        |                          | 52.750                     |             |
| FEH22 : 2 years: +0 %: 480 mins: Winter    |                        |                          | 52.750                     |             |
| FEH22 : 30 years: +0 %: 480 mins: Summer   |                        |                          | 52.750                     |             |
| FEH22 : 30 years: +0 %: 480 mins: Winter   |                        |                          | 52.750                     |             |
| FEH22 : 100 years: +20 %: 480 mins: Summer |                        |                          | 52.750                     |             |
| FEH22 : 100 years: +20 %: 480 mins: Winter |                        |                          | 52.750                     |             |
| FEH22 : 2 years: +0 %: 600 mins: Summer    |                        |                          | 52.750                     |             |

|                                                                              |                         |             |              |                                                                                     |
|------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model | Date:<br>27/08/2025     |             |              |  |
|                                                                              | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
| Report Details:<br>Type: Outfall Details<br>Storm Phase: Phase               | Revision:<br>Rev 3      |             |              |                                                                                     |

|                                                |  |  |        |  |
|------------------------------------------------|--|--|--------|--|
| FEH22 : 2 years: +0 %: 600 mins:<br>Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 600 mins:<br>Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 600 mins:<br>Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 600<br>mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 600<br>mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 720 mins:<br>Summer     |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 720 mins:<br>Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 720 mins:<br>Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 720 mins:<br>Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 720<br>mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 720<br>mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 960 mins:<br>Summer     |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 960 mins:<br>Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 960 mins:<br>Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 960 mins:<br>Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 960<br>mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 960<br>mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 1440 mins:<br>Summer    |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 1440 mins:<br>Winter    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 1440<br>mins: Summer   |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 1440<br>mins: Winter   |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 1440<br>mins: Summer |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 1440<br>mins: Winter |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 2160 mins:<br>Summer    |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 2160 mins:<br>Winter    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 2160<br>mins: Summer   |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 2160<br>mins: Winter   |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 2160<br>mins: Summer |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 2160<br>mins: Winter |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 2880 mins:<br>Summer    |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 2880 mins:<br>Winter    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 2880<br>mins: Summer   |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 2880<br>mins: Winter   |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 2880<br>mins: Summer |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 2880<br>mins: Winter |  |  | 52.750 |  |

|                                                                              |                         |             |              |
|------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model | Date:<br>27/08/2025     |             |              |
|                                                                              | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Outfall Details<br>Storm Phase: Phase               | Revision:<br>Rev 3      |             |              |



|                                              |  |  |        |  |
|----------------------------------------------|--|--|--------|--|
| FEH22 : 2 years: +0 %: 4320 mins: Summer     |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 4320 mins: Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 4320 mins: Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 4320 mins: Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 4320 mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 4320 mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 5760 mins: Summer     |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 5760 mins: Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 5760 mins: Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 5760 mins: Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 5760 mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 5760 mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 7200 mins: Summer     |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 7200 mins: Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 7200 mins: Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 7200 mins: Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 7200 mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 7200 mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 8640 mins: Summer     |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 8640 mins: Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 8640 mins: Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 8640 mins: Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 8640 mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 8640 mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 10080 mins: Summer    |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 10080 mins: Winter    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 10080 mins: Summer   |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 10080 mins: Winter   |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 10080 mins: Summer |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 10080 mins: Winter |  |  | 52.750 |  |

|                                                                              |                         |             |              |                                                                                     |
|------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model | Date:<br>27/08/2025     |             |              |  |
|                                                                              | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
| Report Title:<br>Rainfall Analysis Criteria                                  | Revision:<br>Rev 3      |             |              |                                                                                     |

|                                 |                          |
|---------------------------------|--------------------------|
| Runoff Type                     | Dynamic                  |
| Output Interval (mins)          | 1                        |
| Time Step                       | Shortest                 |
| Urban Creep                     | Apply Global Value       |
| Urban Creep Global Value (%)    | 0                        |
| Junction Flood Risk Margin (mm) | 300                      |
| Perform No Discharge Analysis   | <input type="checkbox"/> |

|                  |                                     |           |
|------------------|-------------------------------------|-----------|
| Rainfall         |                                     |           |
| FEH22            |                                     | Type: FEH |
| Site Location    | GB 519000 133350 TQ 19000 33350     |           |
| Rainfall Version | 2022                                |           |
| Summer           | <input checked="" type="checkbox"/> |           |
| Winter           | <input checked="" type="checkbox"/> |           |

### Return Period

| Return Period (years) | Increase Rainfall (%) |
|-----------------------|-----------------------|
| 2.0                   | 0.000                 |
| 30.0                  | 0.000                 |
| 100.0                 | 20.000                |

### Storm Durations

| Duration (mins) | Run Time (mins) |
|-----------------|-----------------|
| 120             | 240             |
| 180             | 360             |
| 240             | 480             |
| 360             | 720             |
| 480             | 960             |
| 600             | 1200            |
| 720             | 1440            |
| 960             | 1920            |
| 1440            | 2880            |
| 2160            | 4320            |
| 2880            | 5760            |
| 4320            | 8640            |
| 5760            | 11520           |
| 7200            | 14400           |
| 8640            | 17280           |
| 10080           | 20160           |

|                                                                                     |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model        |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                     |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: S104 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S30      | FEH22: 2 years: +0 %: 120 mins: Summer | 56.900          | 54.430           | 54.558         | 0.128          | 45.2              | 0.227                     | 0.000                    | 45.1               | 95.006                      | OK         |
| S29      | FEH22: 2 years: +0 %: 120 mins: Summer | 56.525          | 54.235           | 54.457         | 0.222          | 80.5              | 0.392                     | 0.000                    | 79.9               | 169.494                     | OK         |
| S28      | FEH22: 2 years: +0 %: 120 mins: Summer | 55.825          | 54.000           | 54.121         | 0.121          | 136.8             | 0.214                     | 0.000                    | 136.8              | 290.794                     | OK         |
| S27      | FEH22: 2 years: +0 %: 120 mins: Summer | 55.450          | 52.435           | 52.755         | 0.320          | 136.8             | 0.566                     | 0.000                    | 136.3              | 290.779                     | OK         |
| S26      | FEH22: 2 years: +0 %: 120 mins: Summer | 54.975          | 52.350           | 52.704         | 0.354          | 206.0             | 0.625                     | 0.000                    | 205.7              | 438.475                     | OK         |
| S25      | FEH22: 2 years: +0 %: 120 mins: Summer | 54.475          | 52.100           | 52.509         | 0.409          | 217.2             | 1.042                     | 0.000                    | 217.3              | 464.468                     | OK         |
| S24      | FEH22: 2 years: +0 %: 120 mins: Summer | 54.750          | 52.025           | 52.466         | 0.441          | 337.3             | 1.122                     | 0.000                    | 337.4              | 718.805                     | OK         |
| S23      | FEH22: 2 years: +0 %: 120 mins: Summer | 55.010          | 51.980           | 52.359         | 0.379          | 341.4             | 0.964                     | 0.000                    | 341.4              | 727.906                     | OK         |
| S22      | FEH22: 2 years: +0 %: 120 mins: Summer | 55.715          | 51.930           | 52.211         | 0.281          | 342.9             | 0.715                     | 0.000                    | 342.8              | 731.164                     | OK         |
| S21      | FEH22: 2 years: +0 %: 120 mins: Summer | 54.300          | 51.645           | 51.916         | 0.271          | 343.1             | 0.689                     | 0.000                    | 342.8              | 731.632                     | OK         |
| S20      | FEH22: 2 years: +0 %: 480 mins: Summer | 53.500          | 50.950           | 51.554         | 0.604          | 20.5              | 0.683                     | 0.000                    | 19.8               | 955.122                     | Surcharged |
| HW6      | FEH22: 2 years: +0 %: 480 mins: Summer | 52.900          | 50.900           | 51.554         | 0.654          | 0.5               | 0.739                     | 0.000                    | 0.0                | 0.433                       | OK         |

|                                                                                     |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model        |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                     |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: S104 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S30      | FEH22: 30 years: +0 %: 120 mins: Summer | 56.900          | 54.430           | 54.621         | 0.191          | 91.3              | 0.338                     | 0.000                    | 91.0               | 192.034                     | OK         |
| S29      | FEH22: 30 years: +0 %: 120 mins: Summer | 56.525          | 54.235           | 54.572         | 0.337          | 162.5             | 0.595                     | 0.000                    | 161.7              | 342.623                     | OK         |
| S28      | FEH22: 30 years: +0 %: 120 mins: Summer | 55.825          | 54.000           | 54.169         | 0.169          | 277.1             | 0.298                     | 0.000                    | 277.1              | 587.814                     | OK         |
| S27      | FEH22: 30 years: +0 %: 120 mins: Summer | 55.450          | 52.435           | 53.112         | 0.677          | 277.1             | 1.197                     | 0.000                    | 276.3              | 587.804                     | Surcharged |
| S26      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.975          | 52.350           | 53.030         | 0.680          | 417.7             | 1.201                     | 0.000                    | 417.1              | 886.176                     | Surcharged |
| S25      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.475          | 52.100           | 52.802         | 0.702          | 442.1             | 1.785                     | 0.000                    | 440.5              | 938.740                     | OK         |
| S24      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.750          | 52.025           | 52.734         | 0.709          | 684.2             | 1.804                     | 0.000                    | 684.0              | 1452.745                    | OK         |
| S23      | FEH22: 30 years: +0 %: 120 mins: Summer | 55.010          | 51.980           | 52.564         | 0.584          | 692.1             | 1.487                     | 0.000                    | 692.9              | 1471.160                    | OK         |
| S22      | FEH22: 30 years: +0 %: 120 mins: Summer | 55.715          | 51.930           | 52.374         | 0.444          | 695.8             | 1.130                     | 0.000                    | 696.2              | 1477.872                    | OK         |
| S21      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.300          | 51.645           | 52.063         | 0.418          | 696.8             | 1.064                     | 0.000                    | 697.1              | 1475.620                    | OK         |
| S20      | FEH22: 30 years: +0 %: 600 mins: Winter | 53.500          | 50.950           | 52.046         | 1.096          | 20.4              | 1.239                     | 0.000                    | 19.8               | 1147.345                    | Surcharged |
| HW6      | FEH22: 30 years: +0 %: 600 mins: Winter | 52.900          | 50.900           | 52.046         | 1.146          | 0.7               | 1.296                     | 0.000                    | 0.0                | 0.375                       | OK         |



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|-------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model        |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                     |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: S104 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                               | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S30      | FEH22: 100 years: +20 %: 120 mins: Summer | 56.900          | 54.430           | 54.729         | 0.299          | 137.5             | 0.529                     | 0.000                    | 136.7              | 289.274                     | OK         |
| S29      | FEH22: 100 years: +20 %: 120 mins: Summer | 56.525          | 54.235           | 54.688         | 0.453          | 244.4             | 0.801                     | 0.000                    | 242.5              | 516.152                     | OK         |
| S28      | FEH22: 100 years: +20 %: 120 mins: Summer | 55.825          | 54.000           | 54.212         | 0.212          | 416.2             | 0.374                     | 0.000                    | 416.2              | 885.507                     | OK         |
| S27      | FEH22: 100 years: +20 %: 120 mins: Summer | 55.450          | 52.435           | 54.058         | 1.623          | 416.2             | 2.868                     | 0.000                    | 416.2              | 885.518                     | Surcharged |
| S26      | FEH22: 100 years: +20 %: 120 mins: Summer | 54.975          | 52.350           | 53.872         | 1.522          | 629.7             | 2.690                     | 0.000                    | 629.8              | 1334.994                    | Surcharged |
| S25      | FEH22: 100 years: +20 %: 120 mins: Summer | 54.475          | 52.100           | 53.393         | 1.293          | 667.4             | 3.292                     | 0.000                    | 667.5              | 1413.443                    | Surcharged |
| S24      | FEH22: 100 years: +20 %: 120 mins: Summer | 54.750          | 52.025           | 53.232         | 1.207          | 1034.9            | 3.071                     | 0.000                    | 1034.9             | 2185.237                    | Surcharged |
| S23      | FEH22: 100 years: +20 %: 120 mins: Summer | 55.010          | 51.980           | 52.942         | 0.962          | 1048.0            | 2.448                     | 0.000                    | 1048.0             | 2210.080                    | Surcharged |
| S22      | FEH22: 100 years: +20 %: 120 mins: Summer | 55.715          | 51.930           | 52.540         | 0.610          | 1052.8            | 1.552                     | 0.000                    | 1052.7             | 2216.084                    | OK         |
| S21      | FEH22: 100 years: +20 %: 960 mins: Winter | 54.300          | 51.645           | 52.535         | 0.890          | 162.2             | 2.266                     | 0.000                    | 162.3              | 3672.505                    | Surcharged |
| S20      | FEH22: 100 years: +20 %: 960 mins: Winter | 53.500          | 50.950           | 52.535         | 1.585          | 20.2              | 1.793                     | 0.000                    | 19.8               | 1997.495                    | Surcharged |
| HW6      | FEH22: 100 years: +20 %: 960 mins: Winter | 52.900          | 50.900           | 52.535         | 1.635          | 0.6               | 1.849                     | 0.000                    | 0.0                | 0.522                       | OK         |

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|-----------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                  |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: S104 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                            | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 2 years: +0 %: 480 mins: Summer | 51.554            | 51.554            | 0.554             | 0.554             | 163.0             | 820.955                   | 0.000                    | 0.000                  | 20.5               | 956.483                     | 72.678                   | OK     |

|                                                                                               |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                  |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: S104 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                             | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 30 years: +0 %: 600 mins: Winter | 52.046            | 52.046            | 1.046             | 1.046             | 159.3             | 1737.26                   | 0.000                    | 0.000                  | 20.4               | 1152.084                    | 42.185                   | OK     |

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|-----------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                  |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: S104 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                               | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 100 years: +20 %: 960 mins: Winter | 52.535            | 52.535            | 1.535             | 1.535             | 169.1             | 2843.17                   | 0.000                    | 0.000                  | 20.2               | 2002.605                    | 5.380                    | OK     |

|                                                                                       |                         |             |              |
|---------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model          | Date:<br>27/08/2025     |             |              |
|                                                                                       | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: S104 | Revision:<br>Rev 3      |             |              |





**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                            | Connection Type | From    | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status     |
|------------|----------------------------------------|-----------------|---------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|------------|
| 2.000      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S30     | S29     | 56.900                   | 54.558                  | 0.175               | 95.006                | 0.7                 | 0.14            | 45.1            | OK         |
| 2.001      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S29     | S28     | 56.525                   | 54.457                  | 0.204               | 169.494               | 1.0                 | 0.35            | 79.9            | OK         |
| 2.002      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S28     | S27     | 55.825                   | 54.121                  | 0.221               | 290.794               | 1.5                 | 0.09            | 136.8           | OK         |
| 2.003      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S27     | S26     | 55.450                   | 52.755                  | 0.337               | 290.779               | 0.8                 | 0.42            | 136.3           | OK         |
| 2.004      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S26     | S25     | 54.975                   | 52.704                  | 0.323               | 438.475               | 1.3                 | 0.63            | 205.7           | OK         |
| 2.005      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S25     | S24     | 54.475                   | 52.509                  | 0.425               | 464.468               | 0.8                 | 0.39            | 217.3           | OK         |
| 2.006      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S24     | S23     | 54.750                   | 52.466                  | 0.410               | 718.805               | 1.4                 | 0.63            | 337.4           | OK         |
| 2.007      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S23     | S22     | 55.010                   | 52.359                  | 0.330               | 727.906               | 1.8                 | 0.62            | 341.4           | OK         |
| 2.008      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S22     | S21     | 55.715                   | 52.211                  | 0.276               | 731.164               | 2.3                 | 0.23            | 342.8           | OK         |
| 2.009      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S21     | Pond 6a | 54.300                   | 51.916                  | 0.253               | 731.632               | 2.6                 | 0.21            | 342.8           | OK         |
| 2.010      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | Pond 6a | S20     | 52.900                   | 51.454                  | 0.479               | 229.988               | 0.3                 | 0.07            | 21.6            | OK         |
| 2.011      | FEH22: 2 years: +0 %: 120 mins: Winter | Pipe            | S20     | HW6     | 53.500                   | 51.454                  | 0.225               | 0.850                 | 0.4                 | 0.03            | 1.1             | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model          |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: S104 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                             | Connection Type | From    | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status     |
|------------|-----------------------------------------|-----------------|---------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|------------|
| 2.000      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S30     | S29     | 56.900                   | 54.621                  | 0.264               | 192.034               | 0.9                 | 0.27            | 91.0            | OK         |
| 2.001      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S29     | S28     | 56.525                   | 54.572                  | 0.303               | 342.623               | 1.2                 | 0.71            | 161.7           | OK         |
| 2.002      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S28     | S27     | 55.825                   | 54.169                  | 0.423               | 587.814               | 1.6                 | 0.18            | 277.1           | OK         |
| 2.003      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S27     | S26     | 55.450                   | 53.112                  | 0.600               | 587.804               | 1.0                 | 0.85            | 276.3           | Surcharged |
| 2.004      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S26     | S25     | 54.975                   | 53.030                  | 0.600               | 886.176               | 1.5                 | 1.27            | 417.1           | Surcharged |
| 2.005      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S25     | S24     | 54.475                   | 52.802                  | 0.705               | 938.740               | 1.0                 | 0.79            | 440.5           | OK         |
| 2.006      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S24     | S23     | 54.750                   | 52.734                  | 0.647               | 1452.745              | 1.7                 | 1.27            | 684.0           | OK         |
| 2.007      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S23     | S22     | 55.010                   | 52.564                  | 0.514               | 1471.160              | 2.1                 | 1.25            | 692.9           | OK         |
| 2.008      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S22     | S21     | 55.715                   | 52.374                  | 0.431               | 1477.872              | 2.6                 | 0.46            | 696.2           | OK         |
| 2.009      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S21     | Pond 6a | 54.300                   | 52.063                  | 0.388               | 1475.620              | 3.1                 | 0.43            | 697.1           | OK         |
| 2.010      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | Pond 6a | S20     | 52.900                   | 51.886                  | 0.600               | 231.081               | 0.4                 | 0.08            | 23.7            | Surcharged |
| 2.011      | FEH22: 30 years: +0 %: 120 mins: Winter | Pipe            | S20     | HW6     | 53.500                   | 51.886                  | 0.225               | 1.355                 | 0.4                 | 0.06            | 2.2             | Surcharged |



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|---------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model          | Date:<br>27/08/2025     |             |              |
|                                                                                       | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: S104 | Revision:<br>Rev 3      |             |              |





**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                               | Connection Type | From    | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status     |
|------------|-------------------------------------------|-----------------|---------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|------------|
| 2.000      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S30     | S29     | 56.900                   | 54.729                  | 0.376               | 289.274               | 0.9                 | 0.41            | 136.7           | OK         |
| 2.001      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S29     | S28     | 56.525                   | 54.688                  | 0.393               | 516.152               | 1.4                 | 1.06            | 242.5           | OK         |
| 2.002      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S28     | S27     | 55.825                   | 54.212                  | 0.600               | 885.507               | 1.6                 | 0.28            | 416.2           | OK         |
| 2.003      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S27     | S26     | 55.450                   | 54.058                  | 0.600               | 885.518               | 1.5                 | 1.27            | 416.2           | Surcharged |
| 2.004      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S26     | S25     | 54.975                   | 53.872                  | 0.600               | 1334.994              | 2.2                 | 1.92            | 629.8           | Surcharged |
| 2.005      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S25     | S24     | 54.475                   | 53.393                  | 0.750               | 1413.310              | 1.5                 | 1.2             | 667.5           | Surcharged |
| 2.006      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S24     | S23     | 54.750                   | 53.232                  | 0.750               | 2184.787              | 2.3                 | 1.92            | 1034.9          | Surcharged |
| 2.007      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S23     | S22     | 55.010                   | 52.942                  | 0.750               | 2209.418              | 2.4                 | 1.9             | 1048.0          | Surcharged |
| 2.008      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S22     | S21     | 55.715                   | 52.540                  | 0.583               | 2215.493              | 2.9                 | 0.69            | 1052.7          | OK         |
| 2.009      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S21     | Pond 6a | 54.300                   | 52.250                  | 0.750               | 2206.934              | 3.4                 | 0.66            | 1053.6          | OK         |
| 2.010      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | Pond 6a | S20     | 52.900                   | 52.250                  | 0.600               | 235.374               | 0.5                 | 0.08            | 23.7            | Surcharged |
| 2.011      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S20     | HW6     | 53.500                   | 52.250                  | 0.225               | 1.781                 | 0.4                 | 0.07            | 2.7             | Surcharged |

|                                                                                          |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model             |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                          |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S1       | FEH22: 2 years: +0 %: 120 mins: Summer | 55.030          | 53.825           | 53.849         | 0.024          | 0.9               | 0.027                     | 0.000                    | 0.9                | 1.845                       | OK     |
| S2       | FEH22: 2 years: +0 %: 120 mins: Summer | 56.050          | 53.435           | 53.466         | 0.031          | 6.7               | 0.035                     | 0.000                    | 6.7                | 13.112                      | OK     |
| S3       | FEH22: 2 years: +0 %: 120 mins: Summer | 54.050          | 52.200           | 52.240         | 0.040          | 6.7               | 0.045                     | 0.000                    | 6.7                | 13.090                      | OK     |

|                                                                                          |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model             |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                          |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S1       | FEH22: 30 years: +0 %: 120 mins: Summer | 55.030          | 53.825           | 53.859         | 0.034          | 1.9               | 0.038                     | 0.000                    | 1.9                | 3.728                       | OK     |
| S2       | FEH22: 30 years: +0 %: 120 mins: Summer | 56.050          | 53.435           | 53.478         | 0.043          | 13.6              | 0.049                     | 0.000                    | 13.6               | 26.501                      | OK     |
| S3       | FEH22: 30 years: +0 %: 120 mins: Summer | 54.050          | 52.200           | 52.256         | 0.056          | 13.6              | 0.063                     | 0.000                    | 13.6               | 26.396                      | OK     |

|                                                                                          |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model             |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                          |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume

| Junction | Storm Event                               | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S1       | FEH22: 100 years: +20 %: 120 mins: Summer | 55.030          | 53.825           | 53.866         | 0.041          | 2.9               | 0.047                     | 0.000                    | 2.9                | 5.619                       | OK         |
| S2       | FEH22: 100 years: +20 %: 120 mins: Summer | 56.050          | 53.435           | 53.489         | 0.054          | 20.5              | 0.061                     | 0.000                    | 20.5               | 39.934                      | OK         |
| S3       | FEH22: 100 years: +20 %: 960 mins: Winter | 54.050          | 52.200           | 52.535         | 0.335          | 2.9               | 0.379                     | 0.000                    | 2.9                | 65.926                      | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                       |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                            | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 2 years: +0 %: 480 mins: Summer | 51.554            | 51.554            | 0.554             | 0.554             | 163.0             | 820.955                   | 0.000                    | 0.000                  | 20.5               | 956.483                     | 72.678                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                       |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                             | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 30 years: +0 %: 600 mins: Winter | 52.046            | 52.046            | 1.046             | 1.046             | 159.3             | 1737.26                   | 0.000                    | 0.000                  | 20.4               | 1152.084                    | 42.185                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                       |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By:  
Max. Resident Volume**

| Stormwater Control | Storm Event                               | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 100 years: +20 %: 960 mins: Winter | 52.535            | 52.535            | 1.535             | 1.535             | 169.1             | 2843.17                   | 0.000                    | 0.000                  | 20.2               | 2002.605                    | 5.380                    | OK     |



|                                                                                            |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model               |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                            |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                            | Connection Type | From | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|----------------------------------------|-----------------|------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 4.000      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S1   | S2      | 55.030                   | 53.849                  | 0.027               | 1.845                 | 0.3                 | 0.02            | 0.9             | OK     |
| 4.001      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S2   | S3      | 56.050                   | 53.466                  | 0.035               | 13.112                | 1.7                 | 0.04            | 6.7             | OK     |
| 4.002      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S3   | Pond 6a | 54.050                   | 52.240                  | 0.082               | 13.090                | 1.4                 | 0.07            | 6.7             | OK     |

|                                                                                            |                         |             |              |
|--------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model               | Date:<br>27/08/2025     |             |              |
|                                                                                            | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 | Revision:<br>Rev 3      |             |              |





**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                             | Connection Type | From | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-----------------------------------------|-----------------|------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 4.000      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S1   | S2      | 55.030                   | 53.859                  | 0.039               | 3.728                 | 0.4                 | 0.05            | 1.9             | OK     |
| 4.001      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S2   | S3      | 56.050                   | 53.478                  | 0.049               | 26.501                | 2.1                 | 0.08            | 13.6            | OK     |
| 4.002      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S3   | Pond 6a | 54.050                   | 52.256                  | 0.225               | 26.396                | 1.7                 | 0.13            | 13.6            | OK     |

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|--------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model               |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                            |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                               | Connection Type | From | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-------------------------------------------|-----------------|------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 4.000      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S1   | S2      | 55.030                   | 53.866                  | 0.048               | 5.619                 | 0.5                 | 0.07            | 2.9             | OK     |
| 4.001      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S2   | S3      | 56.050                   | 53.489                  | 0.060               | 39.934                | 2.4                 | 0.12            | 20.5            | OK     |
| 4.002      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S3   | Pond 6a | 54.050                   | 52.266                  | 0.225               | 39.787                | 1.7                 | 0.2             | 20.5            | OK     |

|                                                                                                   |                         |             |              |
|---------------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                      | Date:<br>27/08/2025     |             |              |
|                                                                                                   | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch) | Revision:<br>Rev 3      |             |              |



FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S2A      | FEH22: 2 years: +0 %: 120 mins: Summer | 56.600          | 55.175           | 55.193         | 0.018          | 2.1               | 0.020                     | 0.000                    | 2.1                | 4.126                       | OK     |
| S2       | FEH22: 2 years: +0 %: 120 mins: Summer | 56.050          | 53.435           | 53.466         | 0.031          | 6.7               | 0.035                     | 0.000                    | 6.7                | 13.112                      | OK     |

|                                                                                                   |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                      |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                   |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S2A      | FEH22: 30 years: +0 %: 120 mins: Summer | 56.600          | 55.175           | 55.200         | 0.025          | 4.3               | 0.028                     | 0.000                    | 4.3                | 8.342                       | OK     |
| S2       | FEH22: 30 years: +0 %: 120 mins: Summer | 56.050          | 53.435           | 53.478         | 0.043          | 13.6              | 0.049                     | 0.000                    | 13.6               | 26.501                      | OK     |

|                                                                                                   |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                      |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                   |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                               | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S2A      | FEH22: 100 years: +20 %: 120 mins: Summer | 56.600          | 55.175           | 55.206         | 0.031          | 6.5               | 0.035                     | 0.000                    | 6.5                | 12.568                      | OK     |
| S2       | FEH22: 100 years: +20 %: 120 mins: Summer | 56.050          | 53.435           | 53.489         | 0.054          | 20.5              | 0.061                     | 0.000                    | 20.5               | 39.934                      | OK     |

|                                                                                                     |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                        |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                     |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                            | Connection Type | From | To | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|----------------------------------------|-----------------|------|----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 5.000      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S2A  | S2 | 56.600                   | 55.193                  | 0.024               | 4.126                 | 0.9                 | 0.01            | 2.1             | OK     |



|                                                                                                     |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                        |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                     |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                             | Connection Type | From | To | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-----------------------------------------|-----------------|------|----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 5.000      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S2A  | S2 | 56.600                   | 55.200                  | 0.034               | 8.342                 | 1.1                 | 0.03            | 4.3             | OK     |

|                                                                                                     |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                        |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                     |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                               | Connection Type | From | To | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-------------------------------------------|-----------------|------|----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 5.000      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S2A  | S2 | 56.600                   | 55.206                  | 0.042               | 12.568                | 1.3                 | 0.04            | 6.5             | OK     |

|                                                                                          |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model             |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                          |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S6       | FEH22: 2 years: +0 %: 120 mins: Summer | 57.650          | 56.075           | 56.100         | 0.025          | 2.0               | 0.028                     | 0.000                    | 2.0                | 3.842                       | OK     |
| S7       | FEH22: 2 years: +0 %: 120 mins: Summer | 57.325          | 55.725           | 55.764         | 0.039          | 5.1               | 0.044                     | 0.000                    | 5.1                | 9.850                       | OK     |
| S8       | FEH22: 2 years: +0 %: 120 mins: Summer | 57.215          | 55.388           | 55.427         | 0.039          | 5.1               | 0.045                     | 0.000                    | 5.1                | 9.848                       | OK     |
| S9       | FEH22: 2 years: +0 %: 120 mins: Summer | 56.850          | 55.050           | 55.081         | 0.031          | 9.2               | 0.035                     | 0.000                    | 9.2                | 17.791                      | OK     |
| S10      | FEH22: 2 years: +0 %: 120 mins: Summer | 54.900          | 52.665           | 52.705         | 0.040          | 9.2               | 0.045                     | 0.000                    | 9.1                | 17.775                      | OK     |

|                                                                                          |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model             |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                          |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S6       | FEH22: 30 years: +0 %: 120 mins: Summer | 57.650          | 56.075           | 56.110         | 0.035          | 4.0               | 0.039                     | 0.000                    | 4.0                | 7.766                       | OK     |
| S7       | FEH22: 30 years: +0 %: 120 mins: Summer | 57.325          | 55.725           | 55.781         | 0.056          | 10.3              | 0.063                     | 0.000                    | 10.3               | 19.909                      | OK     |
| S8       | FEH22: 30 years: +0 %: 120 mins: Summer | 57.215          | 55.388           | 55.445         | 0.057          | 10.3              | 0.064                     | 0.000                    | 10.3               | 19.907                      | OK     |
| S9       | FEH22: 30 years: +0 %: 120 mins: Summer | 56.850          | 55.050           | 55.094         | 0.044          | 18.5              | 0.049                     | 0.000                    | 18.5               | 35.977                      | OK     |
| S10      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.900          | 52.665           | 52.721         | 0.056          | 18.5              | 0.063                     | 0.000                    | 18.5               | 35.889                      | OK     |

|                                                                                          |                         |             |              |
|------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model             | Date:<br>27/08/2025     |             |              |
|                                                                                          | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 | Revision:<br>Rev 3      |             |              |





**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                               | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S6       | FEH22: 100 years: +20 %: 120 mins: Summer | 57.650          | 56.075           | 56.117         | 0.042          | 6.0               | 0.048                     | 0.000                    | 6.0                | 11.705                      | OK     |
| S7       | FEH22: 100 years: +20 %: 120 mins: Summer | 57.325          | 55.725           | 55.794         | 0.069          | 15.4              | 0.078                     | 0.000                    | 15.4               | 30.001                      | OK     |
| S8       | FEH22: 100 years: +20 %: 120 mins: Summer | 57.215          | 55.388           | 55.458         | 0.070          | 15.4              | 0.080                     | 0.000                    | 15.5               | 29.998                      | OK     |
| S9       | FEH22: 100 years: +20 %: 120 mins: Summer | 56.850          | 55.050           | 55.104         | 0.054          | 27.9              | 0.061                     | 0.000                    | 27.9               | 54.208                      | OK     |
| S10      | FEH22: 100 years: +20 %: 120 mins: Summer | 54.900          | 52.665           | 52.732         | 0.067          | 27.9              | 0.076                     | 0.000                    | 28.0               | 54.090                      | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                       |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                            | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 2 years: +0 %: 480 mins: Summer | 51.554            | 51.554            | 0.554             | 0.554             | 163.0             | 820.955                   | 0.000                    | 0.000                  | 20.5               | 956.483                     | 72.678                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                       |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                             | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 30 years: +0 %: 600 mins: Winter | 52.046            | 52.046            | 1.046             | 1.046             | 159.3             | 1737.26                   | 0.000                    | 0.000                  | 20.4               | 1152.084                    | 42.185                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                       |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                               | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 100 years: +20 %: 960 mins: Winter | 52.535            | 52.535            | 1.535             | 1.535             | 169.1             | 2843.17                   | 0.000                    | 0.000                  | 20.2               | 2002.605                    | 5.380                    | OK     |



|                                                                                            |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model               |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                            |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                            | Connection Type | From | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|----------------------------------------|-----------------|------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 3.000      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S6   | S7      | 57.650                   | 56.100                  | 0.032               | 3.842                 | 0.6                 | 0.03            | 2.0             | OK     |
| 3.001      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S7   | S8      | 57.325                   | 55.764                  | 0.039               | 9.850                 | 1.1                 | 0.06            | 5.1             | OK     |
| 3.002      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S8   | S9      | 57.215                   | 55.427                  | 0.035               | 9.848                 | 1.3                 | 0.06            | 5.1             | OK     |
| 3.003      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S9   | S10     | 56.850                   | 55.081                  | 0.035               | 17.791                | 2.3                 | 0.04            | 9.2             | OK     |
| 3.004      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S10  | Pond 6a | 54.900                   | 52.705                  | 0.082               | 17.775                | 1.9                 | 0.07            | 9.1             | OK     |

|                                                                                            |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model               |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                            |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                             | Connection Type | From | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-----------------------------------------|-----------------|------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 3.000      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S6   | S7      | 57.650                   | 56.110                  | 0.045               | 7.766                 | 0.7                 | 0.05            | 4.0             | OK     |
| 3.001      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S7   | S8      | 57.325                   | 55.781                  | 0.056               | 19.909                | 1.3                 | 0.13            | 10.3            | OK     |
| 3.002      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S8   | S9      | 57.215                   | 55.445                  | 0.050               | 19.907                | 1.6                 | 0.12            | 10.3            | OK     |
| 3.003      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S9   | S10     | 56.850                   | 55.094                  | 0.050               | 35.977                | 2.8                 | 0.08            | 18.5            | OK     |
| 3.004      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S10  | Pond 6a | 54.900                   | 52.721                  | 0.225               | 35.889                | 2.3                 | 0.13            | 18.5            | OK     |

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|--------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model               |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                            |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                               | Connection Type | From | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-------------------------------------------|-----------------|------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 3.000      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S6   | S7      | 57.650                   | 56.117                  | 0.056               | 11.705                | 0.8                 | 0.08            | 6.0             | OK     |
| 3.001      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S7   | S8      | 57.325                   | 55.794                  | 0.070               | 30.001                | 1.5                 | 0.19            | 15.4            | OK     |
| 3.002      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S8   | S9      | 57.215                   | 55.458                  | 0.062               | 29.998                | 1.7                 | 0.18            | 15.5            | OK     |
| 3.003      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S9   | S10     | 56.850                   | 55.104                  | 0.060               | 54.208                | 3.3                 | 0.13            | 27.9            | OK     |
| 3.004      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S10  | Pond 6a | 54.900                   | 52.732                  | 0.225               | 54.090                | 2.3                 | 0.2             | 28.0            | OK     |

|                                                                                              |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                 |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S24.1    | FEH22: 2 years: +0 %: 120 mins: Summer | 54.850          | 52.385           | 52.662         | 0.277          | 119.7             | 0.314                     | 0.000                    | 119.5              | 252.204                     | OK     |
| S24      | FEH22: 2 years: +0 %: 120 mins: Summer | 54.750          | 52.025           | 52.466         | 0.441          | 337.3             | 1.122                     | 0.000                    | 337.4              | 718.805                     | OK     |

|                                                                                              |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                 |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S24.1    | FEH22: 30 years: +0 %: 120 mins: Summer | 54.850          | 52.385           | 52.901         | 0.516          | 241.9             | 0.584                     | 0.000                    | 241.7              | 509.636                     | Surcharged |
| S24      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.750          | 52.025           | 52.734         | 0.709          | 684.2             | 1.804                     | 0.000                    | 684.0              | 1452.745                    | OK         |

|                                                                                              |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                 |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                               | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S24.1    | FEH22: 100 years: +20 %: 120 mins: Summer | 54.850          | 52.385           | 53.571         | 1.186          | 364.4             | 1.341                     | 0.000                    | 364.4              | 767.756                     | Surcharged |
| S24      | FEH22: 100 years: +20 %: 120 mins: Summer | 54.750          | 52.025           | 53.232         | 1.207          | 1034.9            | 3.071                     | 0.000                    | 1034.9             | 2185.237                    | Surcharged |

|                                                                                                |                         |             |              |
|------------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                   | Date:<br>27/08/2025     |             |              |
|                                                                                                | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch) | Revision:<br>Rev 3      |             |              |





FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                            | Connection Type | From  | To  | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|----------------------------------------|-----------------|-------|-----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 2.101      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S24.1 | S24 | 54.850                   | 52.662                  | 0.259               | 252.204               | 1.3                 | 0.63            | 119.5           | OK     |

|                                                                                                |                         |             |              |
|------------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                   | Date:<br>27/08/2025     |             |              |
|                                                                                                | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch) | Revision:<br>Rev 3      |             |              |





FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                             | Connection Type | From  | To  | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status     |
|------------|-----------------------------------------|-----------------|-------|-----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|------------|
| 2.101      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S24.1 | S24 | 54.850                   | 52.901                  | 0.450               | 509.636               | 1.5                 | 1.27            | 241.7           | Surcharged |



|                                                                                                |                         |             |              |
|------------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model                   | Date:<br>27/08/2025     |             |              |
|                                                                                                | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch) | Revision:<br>Rev 3      |             |              |





FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                               | Connection Type | From  | To  | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status     |
|------------|-------------------------------------------|-----------------|-------|-----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|------------|
| 2.101      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S24.1 | S24 | 54.850                   | 53.571                  | 0.450               | 767.756               | 2.3                 | 1.91            | 364.4           | Surcharged |

|                                                                                        |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model           |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                        |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Private |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S31      | FEH22: 2 years: +0 %: 120 mins: Summer | 55.275          | 53.925           | 53.933         | 0.008          | 0.4               | 0.010                     | 0.000                    | 0.4                | 0.700                       | OK     |
| S21      | FEH22: 2 years: +0 %: 120 mins: Summer | 54.300          | 51.645           | 51.916         | 0.271          | 343.1             | 0.689                     | 0.000                    | 342.8              | 731.632                     | OK     |

|                                                                                        |                         |             |              |
|----------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model           | Date:<br>27/08/2025     |             |              |
|                                                                                        | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Private | Revision:<br>Rev 3      |             |              |





FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S31      | FEH22: 30 years: +0 %: 120 mins: Summer | 55.275          | 53.925           | 53.937         | 0.012          | 0.7               | 0.013                     | 0.000                    | 0.7                | 1.413                       | OK     |
| S21      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.300          | 51.645           | 52.063         | 0.418          | 696.8             | 1.064                     | 0.000                    | 697.1              | 1475.620                    | OK     |

|                                                                                        |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model           |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                        |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Private |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                               | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S31      | FEH22: 100 years: +20 %: 120 mins: Summer | 55.275          | 53.925           | 53.939         | 0.014          | 1.1               | 0.016                     | 0.000                    | 1.1                | 2.131                       | OK         |
| S21      | FEH22: 100 years: +20 %: 960 mins: Winter | 54.300          | 51.645           | 52.535         | 0.890          | 162.2             | 2.266                     | 0.000                    | 162.3              | 3672.505                    | Surcharged |

|                                                                                          |                         |             |              |
|------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model             | Date:<br>27/08/2025     |             |              |
|                                                                                          | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Private | Revision:<br>Rev 3      |             |              |





**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                            | Connection Type | From | To  | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|----------------------------------------|-----------------|------|-----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 6.000      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S31  | S21 | 55.275                   | 53.933                  | 0.008               | 0.700                 | 0.9                 | 0.01            | 0.4             | OK     |

|                                                                                          |                         |             |              |
|------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model             | Date:<br>27/08/2025     |             |              |
|                                                                                          | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Private | Revision:<br>Rev 3      |             |              |





FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                             | Connection Type | From | To  | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-----------------------------------------|-----------------|------|-----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 6.000      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S31  | S21 | 55.275                   | 53.937                  | 0.012               | 1.413                 | 1.1                 | 0.01            | 0.7             | OK     |

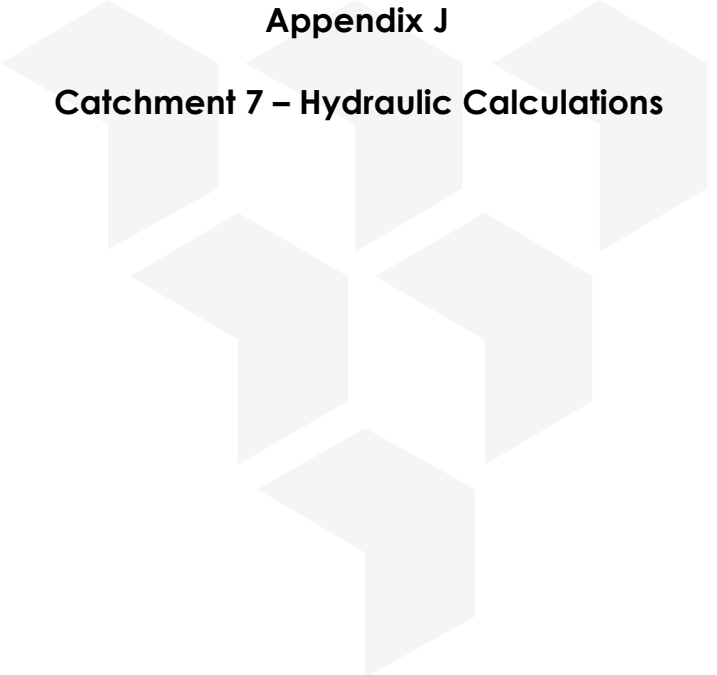
|                                                                                          |                         |             |              |
|------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model             | Date:<br>27/08/2025     |             |              |
|                                                                                          | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Private | Revision:<br>Rev 3      |             |              |





FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                               | Connection Type | From | To  | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-------------------------------------------|-----------------|------|-----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 6.000      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S31  | S21 | 55.275                   | 53.939                  | 0.014               | 2.131                 | 1.3                 | 0.02            | 1.1             | OK     |



## Appendix J

### Catchment 7 – Hydraulic Calculations



|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur M |  | Revision:<br>Rev 1      |             |                                                                                     |              |

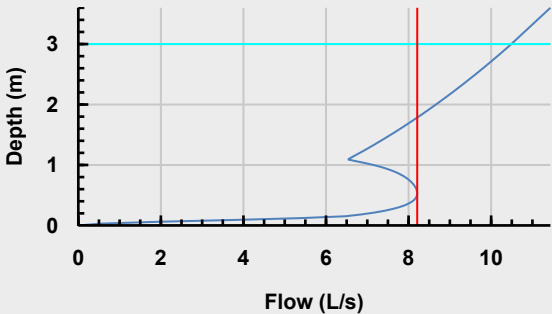
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S717A | Manhole       | 520081.050  | 133419.104   | 61.100          | 3.000     | 58.100           | Circular      | 1.200        |
| S717  | Manhole       | 520072.288  | 133433.585   | 60.785          | 3.000     | 57.785           | Circular      | 1.500        |

| Name  | Lock |
|-------|------|
| S717A | None |
| S717  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S717A    | Inlet      | Spur M           | (None)             | No Restriction |
|          | Inlet      | Pipe (2)         | (None)             | No Restriction |
| S717     | Inlet (1)  | Pipe (20)        | (None)             | No Restriction |
|          | Inlet (2)  | Road 3           | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
|          | Outlet                                                                               | Pipe (20)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 58.100                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 10.5                                   |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0122-1050-3000-1050                |                |
| S717A    |  |                                        |                |
| S717     | Outlet                                                                               | Pipe (3)                               | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur M |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (20) | 16.925     | Pipe            | 53.73       |             | 0.6                            | 225                        | 61.100                   | 58.100                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (20) | 60.785                     | 57.785                      |             | None | 10.5                   | (None)       | (None)           |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur M |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Size (m)            | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           |                             | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S717A                        | 61.100<br>58.100                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:520081.050<br>N:133419.104 | 3.000                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (20)        | Pipe            | 58.100                | Diam/Width:225       | Not Applicable |
| S717                         | 60.785<br>57.785                    | Diameter /<br>Length: 1.500 | {1} Pipe (2)         | Pipe            | 57.785                | Diam/Width:300       | Manhole        |
| E:520072.288<br>N:133433.585 | 3.000                               |                             | {2} Pipe (20)        | Pipe            | 57.785                | Diam/Width:225       |                |
|                              |                                     |                             | {a} Pipe (3)         | Pipe            | 57.785                | Diam/Width:300       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur M |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur M       | S717A        |            | Time of Concentration | 1.893        | 90                        | 0               | 90                                 | 1.704              |
| Road 3       | S717         |            | Time of Concentration | 0.071        | 100                       | 0               | 100                                | 0.071              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>1.964</b> |                           |                 |                                    | <b>1.775</b>       |

|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur L |  | Revision:<br>Rev 1      |             |                                                                                     |              |

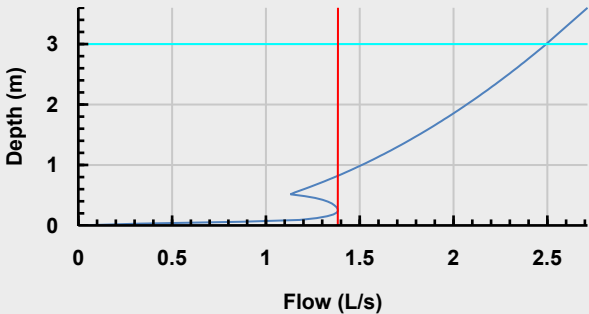
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S716A | Manhole       | 520041.298  | 133439.328   | 60.700          | 3.000     | 57.700           | Circular      | 1.200        |
| S716  | Manhole       | 520048.125  | 133423.296   | 60.915          | 3.485     | 57.430           | Circular      | 1.200        |

| Name  | Lock |
|-------|------|
| S716A | None |
| S716  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S716A    | Inlet      | Spur L           | (None)             | No Restriction |
|          | Inlet      | Pipe (3)         | (None)             | No Restriction |
| S716     | Inlet (1)  | Pipe (21)        | (None)             | No Restriction |
|          | Inlet (2)  | Road 4           | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
|          | Outlet                                                                               | Pipe (21)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 57.700                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 2.5                                    |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0058-2500-3000-2500                |                |
| S716A    |  |                                        |                |
| S716     | Outlet                                                                               | Pipe (4)                               | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur L |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (21) | 17.425     | Pipe            | 64.537      |             | 0.6                            | 150                        | 60.700                   | 57.700                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (21) | 60.915                     | 57.430                      |             | None | 2.5                    | (None)       | (None)           |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur L |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Size (m)            | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           |                             | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S716A                        | 60.700<br>57.700                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:520041.298<br>N:133439.328 | 3.000                               |                             | {a} Pipe (21)        | Pipe            | 57.700                | Diam/Width:150       | Not Applicable |
| S716                         | 60.915<br>57.430                    | Diameter /<br>Length: 1.200 | {1} Pipe (3)         | Pipe            | 57.430                | Diam/Width:300       | Manhole        |
| E:520048.125<br>N:133423.296 | 3.485                               |                             | {2} Pipe (21)        | Pipe            | 57.430                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (4)         | Pipe            | 57.430                | Diam/Width:300       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur L |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur L       | S716A        |            | Time of Concentration | 0.566        | 65                        | 10              | 71.5                               | 0.405              |
| Road 4       | S716         |            | Time of Concentration | 0.041        | 100                       | 0               | 100.0                              | 0.041              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>0.607</b> |                           |                 |                                    | <b>0.446</b>       |



|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur K |  | Revision:<br>Rev 1      |             |                                                                                     |              |

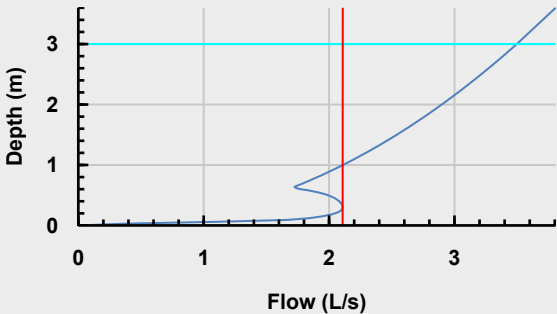
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S714A | Manhole       | 519997.533  | 133388.055   | 60.700          | 3.000     | 57.700           | Circular      | 1.200        |
| S714  | Manhole       | 519993.136  | 133403.033   | 60.335          | 3.105     | 57.230           | Circular      | 1.350        |

| Name  | Lock |
|-------|------|
| S714A | None |
| S714  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S714A    | Inlet      | Spur K           | (None)             | No Restriction |
|          | Inlet      | Pipe (5)         | (None)             | No Restriction |
| S714     | Inlet (1)  | Pipe (22)        | (None)             | No Restriction |
|          | Inlet (2)  | Road 6           | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
|          | Outlet                                                                               | Pipe (22)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 57.700                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 3.5                                    |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0069-3500-3000-3500                |                |
| S714A    |  |                                        |                |
| S714     | Outlet                                                                               | Pipe (6)                               | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur K |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (22) | 15.610     | Pipe            | 33.212      |             | 0.6                            | 150                        | 60.700                   | 57.700                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (22) | 60.335                     | 57.230                      |             | None | 3.5                    | (None)       | (None)           |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur K |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Size (m)            | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           |                             | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S714A                        | 60.700<br>57.700                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:519997.533<br>N:133388.055 | 3.000                               |                             | {a} Pipe (22)        | Pipe            | 57.700                | Diam/Width:150       | Not Applicable |
| S714                         | 60.335<br>57.230                    | Diameter /<br>Length: 1.350 | {1} Pipe (5)         | Pipe            | 57.230                | Diam/Width:300       | Manhole        |
| E:519993.136<br>N:133403.033 | 3.105                               |                             | {2} Pipe (22)        | Pipe            | 57.230                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (6)         | Pipe            | 57.230                | Diam/Width:300       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur K |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur K       | S714A        |            | Time of Concentration | 0.615        | 90                        | 0               | 90                                 | 0.554              |
| Road 6       | S714         |            | Time of Concentration | 0.046        | 100                       | 0               | 100                                | 0.046              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>0.661</b> |                           |                 |                                    | <b>0.600</b>       |

|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur I |  | Revision:<br>Rev 1      |             |                                                                                     |              |

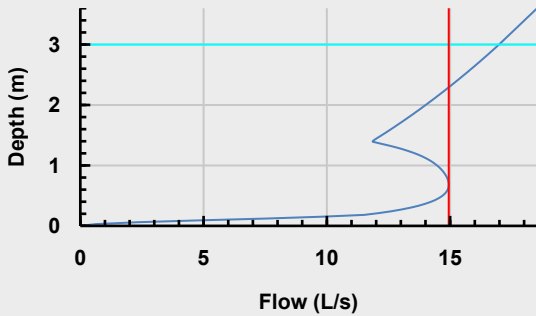
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S712B | Manhole       | 519968.074  | 133339.688   | 61.270          | 3.000     | 58.270           | Circular      | 1.200        |
| S712A | Manhole       | 519954.383  | 133382.164   | 59.850          | 1.780     | 58.070           | Circular      | 1.200        |
| S712  | Manhole       | 519919.316  | 133385.031   | 59.975          | 4.855     | 55.120           | Circular      | 1.500        |

| Name  | Lock |
|-------|------|
| S712B | None |
| S712A | None |
| S712  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S712B    | Inlet      | Spur I           | (None)             | No Restriction |
|          | Inlet (1)  | Road 8           | (None)             | No Restriction |
| S712A    | Inlet      | Pipe (23)        | (None)             | No Restriction |
| S712     | Inlet      | Pipe (7)         | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (24)        | (None)             | No Restriction |
|          | Inlet (2)  | Road 9           | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
| S712B    | Outlet                                                                               | Pipe (23)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 58.270                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 17.0                                   |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0156-1700-3000-1700                |                |
|          |  |                                        |                |
|          | S712A                                                                                | Outlet                                 | Pipe (24)      |
| S712     | Outlet                                                                               | Pipe (8)                               | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur I |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (23) | 44.629     | Pipe            | 223.143     |             | 0.6                            | 225                        | 61.270                   | 58.270                    |
| Pipe (24) | 35.184     | Pipe            | 11.927      |             | 0.6                            | 225                        | 59.850                   | 58.070                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (23) | 59.850                     | 58.070                      |             | None | 17.0                   | (None)       | (None)           |
| Pipe (24) | 59.975                     | 55.120                      |             | None |                        | (None)       | (None)           |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur I |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) |                             | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           | Manhole Size (m)            | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S712B                        | 61.270<br>58.270                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:519968.074<br>N:133339.688 | 3.000                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (23)        | Pipe            | 58.270                | Diam/Width:225       | Not Applicable |
| S712A                        | 59.850<br>58.070                    | Diameter /<br>Length: 1.200 | {1} Pipe (23)        | Pipe            | 58.070                | Diam/Width:225       | Manhole        |
| E:519954.383<br>N:133382.164 | 1.780                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (24)        | Pipe            | 58.070                | Diam/Width:225       | Not Applicable |
| S712                         | 59.975<br>55.120                    | Diameter /<br>Length: 1.500 | {1} Pipe (7)         | Pipe            | 55.120                | Diam/Width:375       | Manhole        |
| E:519919.316<br>N:133385.031 | 4.855                               |                             | {2} Pipe (24)        | Pipe            | 55.120                | Diam/Width:225       |                |
|                              |                                     |                             | {a} Pipe (8)         | Pipe            | 55.120                | Diam/Width:375       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur I |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur I       | S712B        |            | Time of Concentration | 3.054        | 90                        | 0               | 90                                 | 2.749              |
| Road 8       | S712B        |            | Time of Concentration | 0.082        | 100                       | 0               | 100                                | 0.082              |
| Road 9       | S712         |            | Time of Concentration | 0.063        | 100                       | 0               | 100                                | 0.063              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>3.199</b> |                           |                 |                                    | <b>2.894</b>       |



|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur H |  | Revision:<br>Rev 1      |             |                                                                                     |              |

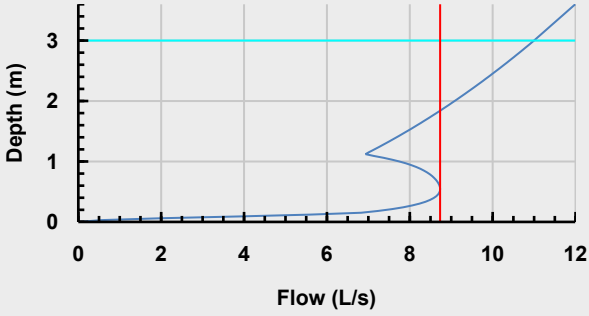
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S713A | Manhole       | 519933.557  | 133445.537   | 59.700          | 4.280     | 55.420           | Circular      | 1.200        |
| S713  | Manhole       | 519939.396  | 133399.704   | 59.940          | 4.750     | 55.190           | Circular      | 1.350        |

| Name  | Lock |
|-------|------|
| S713A | None |
| S713  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S713A    | Inlet      | Spur H           | (None)             | No Restriction |
| S713     | Inlet      | Pipe (6)         | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (25)        | (None)             | No Restriction |
|          | Inlet (2)  | Pipe (37)        | (None)             | No Restriction |
|          | Inlet (3)  | Road 7           | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
| S713A    | Outlet                                                                               | Pipe (25)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 55.420                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 11.0                                   |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0125-1100-3000-1100                |                |
|          |  |                                        |                |
|          |                                                                                      |                                        |                |
| S713     | Outlet                                                                               | Pipe (7)                               | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur H |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (25) | 46.203     | Pipe            | 200.884     |             | 0.6                            | 300                        | 59.700                   | 55.420                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (25) | 59.940                     | 55.190                      |             | None | 12.0                   | (None)       | (None)           |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur H |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) |                             | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           | Manhole Size (m)            | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S713A                        | 59.700<br>55.420                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:519933.557<br>N:133445.537 | 4.280                               |                             | {a} Pipe (25)        | Pipe            | 55.420                | Diam/Width:300       | Not Applicable |
| S713                         | 59.940<br>55.190                    | Diameter /<br>Length: 1.350 | {1} Pipe (6)         | Pipe            | 55.190                | Diam/Width:300       | Manhole        |
| E:519939.396<br>N:133399.704 | 4.750                               |                             | {2} Pipe (25)        | Pipe            | 55.190                | Diam/Width:300       |                |
|                              |                                     |                             | {3} Pipe (37)        | Pipe            | 55.190                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (7)         | Pipe            | 55.190                | Diam/Width:375       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur H |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur H       | S713A        |            | Time of Concentration | 1.968        | 90                        | 0               | 90                                 | 1.771              |
| Road 7       | S713         |            | Time of Concentration | 0.177        | 100                       | 0               | 100                                | 0.177              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>2.145</b> |                           |                 |                                    | <b>1.948</b>       |

|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur G |  | Revision:<br>Rev 1      |             |                                                                                     |              |

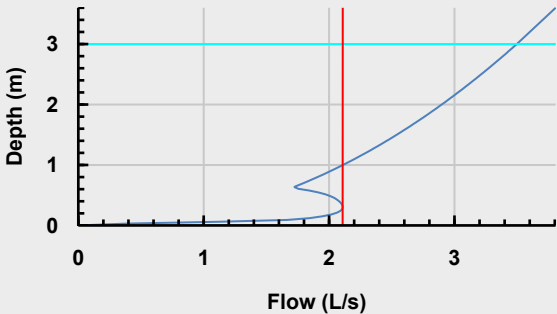
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S711A | Manhole       | 519856.510  | 133372.355   | 59.400          | 4.100     | 55.300           | Circular      | 1.200        |
| S711  | Manhole       | 519854.208  | 133391.742   | 59.000          | 4.055     | 54.945           | Circular      | 1.500        |

| Name  | Lock |
|-------|------|
| S711A | None |
| S711  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S711A    | Inlet      | Spur G           | (None)             | No Restriction |
|          | Inlet      | Pipe (8)         | (None)             | No Restriction |
| S711     | Inlet (1)  | Pipe (26)        | (None)             | No Restriction |
|          | Inlet (2)  | Road 10          | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
|          | Outlet                                                                               | Pipe (26)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 55.300                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 3.5                                    |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0069-3500-3000-3500                |                |
| S711A    |  |                                        |                |
| S711     | Outlet                                                                               | Pipe (9)                               | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur G |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (26) | 19.524     | Pipe            | 54.996      |             | 0.6                            | 150                        | 59.400                   | 55.300                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (26) | 59.000                     | 54.945                      |             | None | 3.8                    | (None)       | (None)           |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur G |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Size (m)            | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           |                             | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S711A                        | 59.400<br>55.300                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:519856.510<br>N:133372.355 | 4.100                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (26)        | Pipe            | 55.300                | Diam/Width:150       | Not Applicable |
| S711                         | 59.000<br>54.945                    | Diameter /<br>Length: 1.500 | {1} Pipe (8)         | Pipe            | 54.945                | Diam/Width:375       | Manhole        |
| E:519854.208<br>N:133391.742 | 4.055                               |                             | {2} Pipe (26)        | Pipe            | 54.945                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (9)         | Pipe            | 54.945                | Diam/Width:375       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur G |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur G       | S711A        |            | Time of Concentration | 0.600        | 90                        | 0               | 90                                 | 0.540              |
| Road 10      | S711         |            | Time of Concentration | 0.102        | 100                       | 0               | 100                                | 0.102              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>0.702</b> |                           |                 |                                    | <b>0.642</b>       |



|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur F |  | Revision:<br>Rev 1      |             |                                                                                     |              |

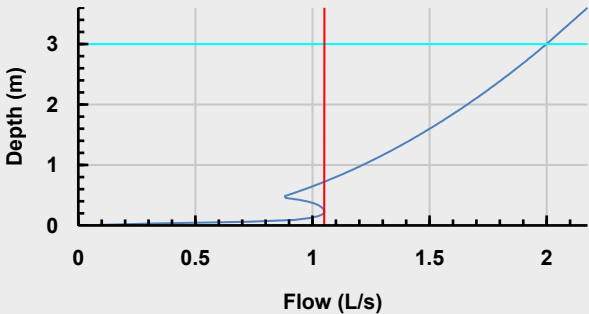
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S710A | Manhole       | 519814.135  | 133367.182   | 58.700          | 3.515     | 55.185           | Circular      | 1.200        |
| S710  | Manhole       | 519810.366  | 133386.535   | 58.365          | 3.615     | 54.750           | Circular      | 1.500        |

| Name  | Lock |
|-------|------|
| S710A | None |
| S710  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S710A    | Inlet      | Spur F           | (None)             | No Restriction |
|          | Inlet      | Pipe (9)         | (None)             | No Restriction |
| S710     | Inlet (1)  | Pipe (27)        | (None)             | No Restriction |
|          | Inlet (2)  | Road 11          | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
|          | Outlet                                                                               | Pipe (27)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 55.185                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 2.0                                    |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0052-2000-3000-2000                |                |
| S710A    |  |                                        |                |
| S710     | Outlet                                                                               | Pipe (10)                              | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur F |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (27) | 19.717     | Pipe            | 45.326      |             | 0.6                            | 150                        | 58.700                   | 55.185                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (27) | 58.365                     | 54.750                      |             | None | 2.1                    | (None)       | (None)           |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur F |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Size (m)            | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           |                             | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S710A                        | 58.700<br>55.185                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:519814.135<br>N:133367.182 | 3.515                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (27)        | Pipe            | 55.185                | Diam/Width:150       | Not Applicable |
| S710                         | 58.365<br>54.750                    | Diameter /<br>Length: 1.500 | {1} Pipe (9)         | Pipe            | 54.750                | Diam/Width:375       | Manhole        |
| E:519810.366<br>N:133386.535 | 3.615                               |                             | {2} Pipe (27)        | Pipe            | 54.750                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (10)        | Pipe            | 54.750                | Diam/Width:450       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur F |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur F       | S710A        |            | Time of Concentration | 0.292        | 90                        | 0               | 90                                 | 0.263              |
| Road 11      | S710         |            | Time of Concentration | 0.080        | 100                       | 0               | 100                                | 0.080              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>0.372</b> |                           |                 |                                    | <b>0.343</b>       |

|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur E |  | Revision:<br>Rev 1      |             |                                                                                     |              |

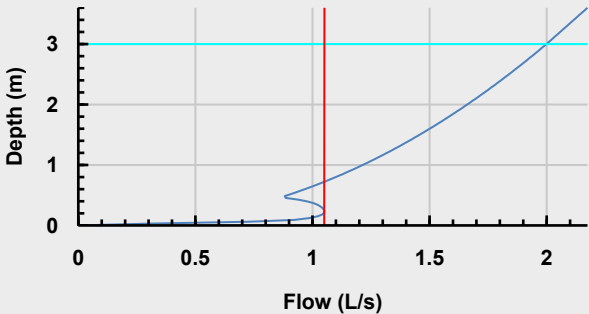
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S709A | Manhole       | 519764.443  | 133360.655   | 57.800          | 2.750     | 55.050           | Circular      | 1.200        |
| S709  | Manhole       | 519761.400  | 133376.999   | 57.700          | 3.060     | 54.640           | Circular      | 1.500        |

| Name  | Lock |
|-------|------|
| S709A | None |
| S709  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S709A    | Inlet      | Spur E           | (None)             | No Restriction |
|          | Inlet      | Pipe (10)        | (None)             | No Restriction |
| S709     | Inlet (1)  | Pipe (28)        | (None)             | No Restriction |
|          | Inlet (2)  | Road 12          | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
|          | Outlet                                                                               | Pipe (28)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 55.050                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 2.0                                    |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0052-2000-3000-2000                |                |
| S709A    |  |                                        |                |
| S709     | Outlet                                                                               | Pipe (11)                              | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur E |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (28) | 16.625     | Pipe            | 40.549      |             | 0.6                            | 150                        | 57.800                   | 55.050                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (28) | 57.700                     | 54.640                      |             | None | 1.9                    | (None)       | (None)           |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur E |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Size (m)            | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           |                             | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S709A                        | 57.800<br>55.050                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:519764.443<br>N:133360.655 | 2.750                               |                             | {a} Pipe (28)        | Pipe            | 55.050                | Diam/Width:150       | Not Applicable |
| S709                         | 57.700<br>54.640                    | Diameter /<br>Length: 1.500 | {1} Pipe (10)        | Pipe            | 54.640                | Diam/Width:450       | Manhole        |
| E:519761.400<br>N:133376.999 | 3.060                               |                             | {2} Pipe (28)        | Pipe            | 54.640                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (11)        | Pipe            | 54.640                | Diam/Width:450       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur E |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur E       | S709A        |            | Time of Concentration | 0.350        | 90                        | 0               | 90                                 | 0.315              |
| Road 12      | S709         |            | Time of Concentration | 0.104        | 100                       | 0               | 100                                | 0.104              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>0.454</b> |                           |                 |                                    | <b>0.419</b>       |



|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur D |  | Revision:<br>Rev 1      |             |                                                                                     |              |

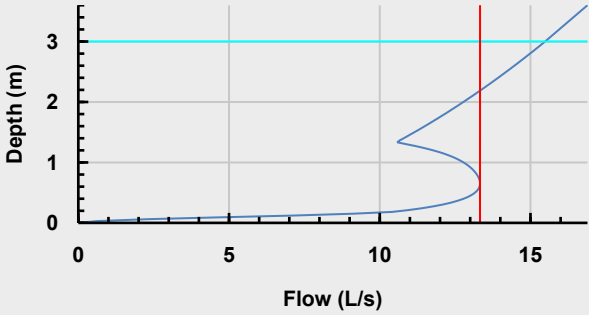
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S708B | Manhole       | 519724.537  | 133309.404   | 58.350          | 2.980     | 55.370           | Circular      | 1.200        |
| S708A | Manhole       | 519723.445  | 133327.267   | 57.800          | 2.510     | 55.290           | Circular      | 1.200        |
| S708  | Manhole       | 519733.242  | 133372.739   | 57.575          | 3.075     | 54.500           | Circular      | 1.500        |

| Name  | Lock |
|-------|------|
| S708B | None |
| S708A | None |
| S708  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S708B    | Inlet      | Road 14          | (None)             | No Restriction |
|          | Inlet (1)  | Spur D           | (None)             | No Restriction |
| S708A    | Inlet      | Pipe (29)        | (None)             | No Restriction |
| S708     | Inlet      | Pipe (11)        | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (30)        | (None)             | No Restriction |
|          | Inlet (2)  | Road 13          | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
| S708B    | Outlet                                                                               | Pipe (29)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 55.370                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 15.5                                   |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0148-1550-3000-1550                |                |
|          |  |                                        |                |
|          |                                                                                      |                                        |                |
| S708A    | Outlet                                                                               | Pipe (30)                              | Free Discharge |
| S708     | Outlet                                                                               | Pipe (12)                              | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur D |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (29) | 17.896     | Pipe            | 223.700     |             | 0.6                            | 225                        | 58.350                   | 55.370                    |
| Pipe (30) | 46.516     | Pipe            | 58.881      |             | 0.6                            | 225                        | 57.800                   | 55.290                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (29) | 57.800                     | 55.290                      |             | None | 15.4                   | (None)       | (None)           |
| Pipe (30) | 57.575                     | 54.500                      |             | None |                        | (None)       | (None)           |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur D |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) |                             | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           | Manhole Size (m)            | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S708B                        | 58.350<br>55.370                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:519724.537<br>N:133309.404 | 2.980                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (29)        | Pipe            | 55.370                | Diam/Width:225       | Not Applicable |
| S708A                        | 57.800<br>55.290                    | Diameter /<br>Length: 1.200 | {1} Pipe (29)        | Pipe            | 55.290                | Diam/Width:225       | Manhole        |
| E:519723.445<br>N:133327.267 | 2.510                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (30)        | Pipe            | 55.290                | Diam/Width:225       | Not Applicable |
| S708                         | 57.575<br>54.500                    | Diameter /<br>Length: 1.500 | {1} Pipe (11)        | Pipe            | 54.500                | Diam/Width:450       | Manhole        |
| E:519733.242<br>N:133372.739 | 3.075                               |                             | {2} Pipe (30)        | Pipe            | 54.500                | Diam/Width:225       |                |
|                              |                                     |                             | {a} Pipe (12)        | Pipe            | 54.500                | Diam/Width:525       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur D |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Road 14      | S708B        |            | Time of Concentration | 0.083        | 100                       | 0               | 100                                | 0.083              |
| Spur D       | S708B        |            | Time of Concentration | 2.807        | 90                        | 0               | 90                                 | 2.526              |
| Road 13      | S708         |            | Time of Concentration | 0.055        | 100                       | 0               | 100                                | 0.055              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>2.945</b> |                           |                 |                                    | <b>2.665</b>       |

|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur C |  | Revision:<br>Rev 1      |             |                                                                                     |              |

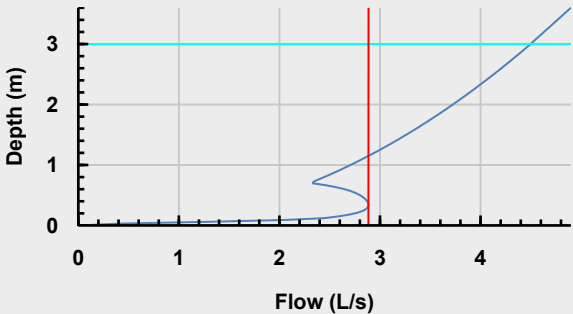
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S705A | Manhole       | 519722.798  | 133445.542   | 56.500          | 1.680     | 54.820           | Circular      | 1.200        |
| S705  | Manhole       | 519722.798  | 133433.221   | 57.000          | 2.715     | 54.285           | Circular      | 1.500        |

| Name  | Lock |
|-------|------|
| S705A | None |
| S705  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S705A    | Inlet      | Spur C           | (None)             | No Restriction |
|          | Inlet      | Pipe (14)        | (None)             | No Restriction |
| S705     | Inlet (1)  | Pipe (33)        | (None)             | No Restriction |
|          | Inlet (2)  | Road 16 (1)      | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
|          | Outlet                                                                               | Pipe (33)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 54.820                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 4.5                                    |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0079-4500-3000-4500                |                |
| S705A    |  |                                        |                |
| S705     | Outlet                                                                               | Pipe (15)                              | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur C |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (33) | 12.320     | Pipe            | 23.029      |             | 0.6                            | 150                        | 56.500                   | 54.820                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (33) | 57.000                     | 54.285                      |             | None | 3.4                    | (None)       | (None)           |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur C |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) |                             | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           | Manhole Size (m)            | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S705A                        | 56.500<br>54.820                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:519722.798<br>N:133445.542 | 1.680                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (33)        | Pipe            | 54.820                | Diam/Width:150       | Not Applicable |
| S705                         | 57.000<br>54.285                    | Diameter /<br>Length: 1.500 | {1} Pipe (14)        | Pipe            | 54.285                | Diam/Width:525       | Manhole        |
| E:519722.798<br>N:133433.221 | 2.715                               |                             | {2} Pipe (33)        | Pipe            | 54.285                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (15)        | Pipe            | 54.285                | Diam/Width:600       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur C |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur C       | S705A        |            | Time of Concentration | 0.835        | 90                        | 0               | 90                                 | 0.751              |
| Road 16 (1)  | S705         |            | Time of Concentration | 0.027        | 100                       | 0               | 100                                | 0.027              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>0.862</b> |                           |                 |                                    | <b>0.778</b>       |



|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur B |  | Revision:<br>Rev 1      |             |                                                                                     |              |

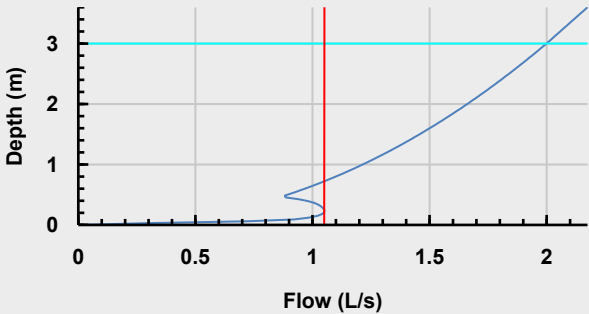
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S703A | Manhole       | 519665.375  | 133446.124   | 56.200          | 1.470     | 54.730           | Circular      | 1.200        |
| S703  | Manhole       | 519645.122  | 133446.124   | 56.000          | 1.890     | 54.110           | Circular      | 1.500        |

| Name  | Lock |
|-------|------|
| S703A | None |
| S703  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S703A    | Inlet      | Spur B           | (None)             | No Restriction |
| S703     | Inlet      | Pipe (16)        | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (36)        | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
| S703A    | Outlet                                                                               | Pipe (36)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 54.730                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 2.0                                    |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0052-2000-3000-2000                |                |
|          |  |                                        |                |
|          |                                                                                      |                                        |                |
| S703     | Outlet                                                                               | Pipe (17)                              | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur B |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (36) | 20.253     | Pipe            | 32.666      |             | 0.6                            | 150                        | 56.200                   | 54.730                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (36) | 56.000                     | 54.110                      |             | None | 1.4                    | (None)       | (None)           |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur B |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) |                             | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           | Manhole Size (m)            | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S703A                        | 56.200<br>54.730                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:519665.375<br>N:133446.124 | 1.470                               |                             | {a} Pipe (36)        | Pipe            | 54.730                | Diam/Width:150       | Not Applicable |
| S703                         | 56.000<br>54.110                    | Diameter /<br>Length: 1.500 | {1} Pipe (16)        | Pipe            | 54.110                | Diam/Width:600       | Manhole        |
| E:519645.122<br>N:133446.124 | 1.890                               |                             | {2} Pipe (36)        | Pipe            | 54.110                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (17)        | Pipe            | 54.110                | Diam/Width:600       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur B |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur B       | S703A        |            | Time of Concentration | 0.201        | 90                        | 0               | 90                                 | 0.181              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>0.201</b> |                           |                 |                                    | <b>0.181</b>       |

|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |

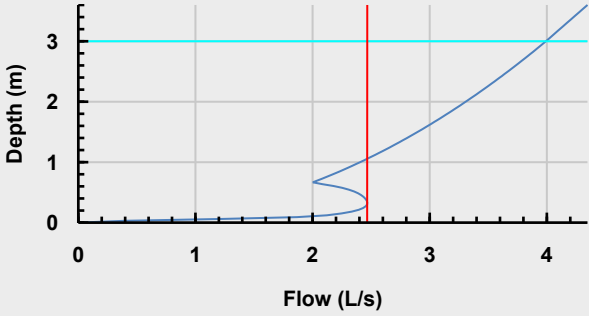
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S702B | Manhole       | 519710.012  | 133503.725   | 56.750          | 2.380     | 54.370           | Circular      | 1.200        |
| S702A | Manhole       | 519694.817  | 133516.594   | 56.300          | 2.055     | 54.245           | Circular      | 1.200        |

| Name  | Lock |
|-------|------|
| S702B | None |
| S702A | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S702B    | Inlet      | Spur A           | (None)             | No Restriction |
| S702A    | Inlet      | Pipe (31)        | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
| S702B    | Outlet                                                                               | Pipe (31)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 54.370                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 4.0                                    |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0074-4000-3000-4000                |                |
|          |  |                                        |                |
|          |                                                                                      |                                        |                |
| S702A    | Outlet                                                                               | Pipe (18)                              | Free Discharge |

|                                                                                         |                         |             |              |
|-----------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model            | Date:<br>01/09/2025     |             |              |
|                                                                                         | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls<br>Storm Phase: Phase<br>Flow Path: Spur A | Revision:<br>Rev 1      |             |              |



Pond 7a

Type : Pond

Dimensions

|                      |          |
|----------------------|----------|
| Exceedance Level (m) | 55.550   |
| Depth (m)            | 2.000    |
| Base Level (m)       | 53.550   |
| Freeboard (mm)       | 300      |
| Initial Depth (m)    | 0.000    |
| Porosity (%)         | 100      |
| Average Slope (1:X)  | 20.291   |
| Total Volume (m³)    | 5333.999 |

| Depth (m) | Area (m²) | Volume (m³) |
|-----------|-----------|-------------|
| 0.000     | 0.10      | 0.000       |
| 0.050     | 54.90     | 0.956       |
| 0.150     | 394.60    | 20.845      |
| 0.250     | 828.90    | 80.692      |
| 0.350     | 1318.30   | 187.110     |
| 0.450     | 1997.00   | 351.705     |
| 0.550     | 2939.80   | 597.031     |
| 0.650     | 3456.60   | 916.502     |
| 0.750     | 3551.30   | 1266.887    |
| 0.850     | 3684.00   | 1628.631    |
| 0.950     | 3842.40   | 2004.924    |
| 1.050     | 3998.50   | 2396.943    |
| 1.150     | 4152.80   | 2804.483    |
| 1.250     | 4311.50   | 3227.673    |
| 1.350     | 4477.90   | 3667.117    |
| 1.450     | 4700.30   | 4125.982    |
| 1.550     | 4807.60   | 4601.367    |
| 1.650     | 4909.80   | 5087.228    |
| 1.750     | 5012.60   | 5583.339    |
| 1.850     | 5115.90   | 6089.756    |
| 1.950     | 5219.70   | 6606.527    |
| 2.000     | 5219.70   | 6867.512    |

Inlets

Inlet

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | Pipe (18)      |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

Inlet (1)

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | Pipe (17)      |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

Outlets

Outlet

|                     |                |
|---------------------|----------------|
| Outgoing Connection | Pipe (32)      |
| Outlet Type         | Free Discharge |

|                                                                                         |                         |             |              |                                                                                     |
|-----------------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model            | Date:<br>01/09/2025     |             |              |  |
|                                                                                         | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
| Report Details:<br>Type: Stormwater Controls<br>Storm Phase: Phase<br>Flow Path: Spur A | Revision:<br>Rev 1      |             |              |                                                                                     |

Advanced

|                 |             |
|-----------------|-------------|
| Perimeter       | Circular    |
| Length (m)      | 147.389     |
| Friction Scheme | Manning's n |
| n               | 0.03        |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (31) | 19.913     | Pipe            | 159.301     |             | 0.6                            | 150                        | 56.750                   | 54.370                    |
| Pipe (18) | 8.979      | Pipe            | 12.919      |             | 0.6                            | 150                        | 56.300                   | 54.245                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (31) | 56.300                     | 54.245                      |             | None | 3.6                    | (None)       | (None)           |
| Pipe (18) | 55.550                     | 53.550                      |             | None |                        | (None)       | (None)           |



|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) |                             | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           | Manhole Size (m)            | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S702B                        | 56.750<br>54.370                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:519710.012<br>N:133503.725 | 2.380                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (31)        | Pipe            | 54.370                | Diam/Width: 150      | Not Applicable |
| S702A                        | 56.300<br>54.245                    | Diameter /<br>Length: 1.200 | {1} Pipe (31)        | Pipe            | 54.245                | Diam/Width: 150      | Manhole        |
| E:519694.817<br>N:133516.594 | 2.055                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (18)        | Pipe            | 54.245                | Diam/Width: 150      | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur A       | S702B        |            | Time of Concentration | 0.707        | 90                        | 0               | 90                                 | 0.636              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>0.707</b> |                           |                 |                                    | <b>0.636</b>       |

|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur J |  | Revision:<br>Rev 1      |             |                                                                                     |              |

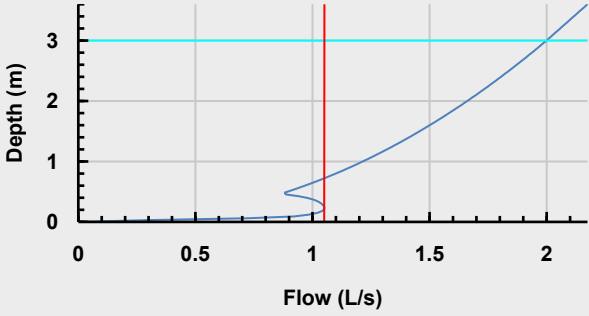
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S713B | Manhole       | 519958.867  | 133419.700   | 60.200          | 4.595     | 55.605           | Circular      | 1.200        |
| S713  | Manhole       | 519939.396  | 133399.704   | 59.940          | 4.750     | 55.190           | Circular      | 1.350        |

| Name  | Lock |
|-------|------|
| S713B | None |
| S713  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s) | Bypass Destination | Capacity Type  |
|----------|------------|------------------|--------------------|----------------|
| S713B    | Inlet      | Spur J           | (None)             | No Restriction |
| S713     | Inlet      | Pipe (6)         | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (25)        | (None)             | No Restriction |
|          | Inlet (2)  | Pipe (37)        | (None)             | No Restriction |
|          | Inlet (3)  | Road 7           | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
| S713B    | Outlet                                                                               | Pipe (37)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 55.605                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 2.0                                    |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0052-2000-3000-2000                |                |
|          |  |                                        |                |
|          |                                                                                      |                                        |                |
| S713     | Outlet                                                                               | Pipe (7)                               | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur J |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (37) | 27.910     | Pipe            | 67.252      |             | 0.6                            | 150                        | 60.200                   | 55.605                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (37) | 59.940                     | 55.190                      |             | None | 2.2                    | (None)       | (None)           |

|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur J |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name            | Cover Level (m)<br>Invert Level (m) |                             | Connection Details   |                 |                       |                      | Type           |
|-----------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m) | Depth (m)                           | Manhole Size (m)            | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                 |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S713B           | 60.200<br>55.605                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:519958.867    | 4.595                               |                             |                      |                 |                       |                      |                |
| N:133419.700    |                                     |                             | {a} Pipe (37)        | Pipe            | 55.605                | Diam/Width:150       | Not Applicable |
| S713            | 59.940<br>55.190                    | Diameter /<br>Length: 1.350 | {1} Pipe (6)         | Pipe            | 55.190                | Diam/Width:300       | Manhole        |
| E:519939.396    | 4.750                               |                             | {2} Pipe (25)        | Pipe            | 55.190                | Diam/Width:300       |                |
| N:133399.704    |                                     |                             | {3} Pipe (37)        | Pipe            | 55.190                | Diam/Width:150       |                |
|                 |                                     |                             | {a} Pipe (7)         | Pipe            | 55.190                | Diam/Width:375       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur J |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur J       | S713B        |            | Time of Concentration | 0.335        | 65                        | 10              | 71.5                               | 0.239              |
| Road 7       | S713         |            | Time of Concentration | 0.177        | 100                       | 0               | 100.0                              | 0.177              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>0.511</b> |                           |                 |                                    | <b>0.416</b>       |

|                                                                               |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model  |  | Date:<br>01/09/2025     |             |  |              |
|                                                                               |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Spur N |  | Revision:<br>Rev 1      |             |                                                                                     |              |

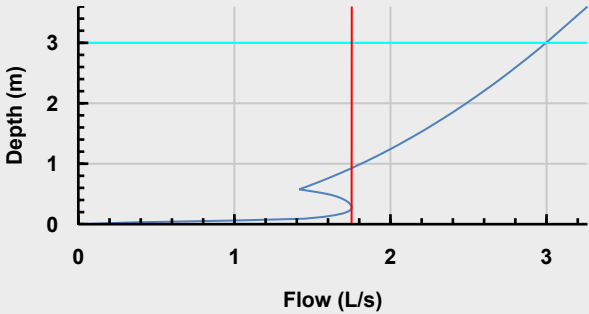
| Name  | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S719A | Manhole       | 520136.195  | 133478.366   | 61.000          | 2.700     | 58.300           | Circular      | 1.200        |
| S719  | Manhole       | 520122.689  | 133487.245   | 60.540          | 2.500     | 58.040           | Circular      | 1.200        |

| Name  | Lock |
|-------|------|
| S719A | None |
| S719  | None |

#### Inlets

| Junction | Inlet Name | Incoming Item(s)  | Bypass Destination | Capacity Type  |
|----------|------------|-------------------|--------------------|----------------|
| S719A    | Inlet      | Spur N            | (None)             | No Restriction |
| S719     | Inlet      | Pipe<br>Pipe (19) | (None)             | No Restriction |

#### Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
| S719A    | Outlet                                                                               | Pipe (19)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 58.300                                 |                |
|          | Design Depth (m)                                                                     | 3.000                                  |                |
|          | Design Flow (L/s)                                                                    | 3.0                                    |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0064-3000-3000-3000                |                |
|          |  |                                        |                |
|          |                                                                                      |                                        |                |
| S719     | Outlet                                                                               | Pipe (1)                               | Free Discharge |

|                                                                                 |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Spur N |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name      | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-----------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe (19) | 16.163     | Pipe            | 62.166      |             | 0.6                            | 150                        | 61.000                   | 58.300                    |

| Name      | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-----------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe (19) | 60.540                     | 58.040                      |             | None | 2.9                    | (None)       | (None)           |



|                                                                                      |  |                         |             |                                                                                     |              |
|--------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model         |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                      |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Spur N |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Size (m)            | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           |                             | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S719A                        | 61.000<br>58.300                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:520136.195<br>N:133478.366 | 2.700                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (19)        | Pipe            | 58.300                | Diam/Width:150       | Not Applicable |
| S719                         | 60.540<br>58.040                    | Diameter /<br>Length: 1.200 | {1} Pipe             | Pipe            | 58.040                | Diam/Width:225       | Manhole        |
| E:520122.689<br>N:133487.245 | 2.500                               |                             | {2} Pipe (19)        | Pipe            | 58.040                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (1)         | Pipe            | 58.040                | Diam/Width:300       | Not Applicable |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Spur N |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label | Connected To | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|--------------|--------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Spur N       | S719A        |            | Time of Concentration | 0.519        | 90                        | 0               | 90                                 | 0.467              |
| <b>TOTAL</b> |              | <b>0.0</b> |                       | <b>0.519</b> |                           |                 |                                    | <b>0.467</b>       |

|                                                                                  |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model     |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                  |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name    | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|---------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| S720    | Manhole       | 520137.351  | 133514.033   | 60.850          | 1.530     | 59.320           | Circular      | 1.200        |
| S719    | Manhole       | 520122.689  | 133487.245   | 60.540          | 2.500     | 58.040           | Circular      | 1.200        |
| S718    | Manhole       | 520102.894  | 133460.386   | 60.405          | 2.480     | 57.925           | Circular      | 1.200        |
| S717    | Manhole       | 520072.288  | 133433.585   | 60.785          | 3.000     | 57.785           | Circular      | 1.500        |
| S716    | Manhole       | 520048.125  | 133423.296   | 60.915          | 3.485     | 57.430           | Circular      | 1.200        |
| S715    | Manhole       | 520016.971  | 133410.029   | 60.655          | 3.340     | 57.315           | Circular      | 1.200        |
| S714    | Manhole       | 519993.136  | 133403.033   | 60.335          | 3.105     | 57.230           | Circular      | 1.350        |
| S713    | Manhole       | 519939.396  | 133399.704   | 59.940          | 4.750     | 55.190           | Circular      | 1.350        |
| S712    | Manhole       | 519919.316  | 133385.031   | 59.975          | 4.855     | 55.120           | Circular      | 1.500        |
| S711    | Manhole       | 519854.208  | 133391.742   | 59.000          | 4.055     | 54.945           | Circular      | 1.500        |
| S710    | Manhole       | 519810.366  | 133386.535   | 58.365          | 3.615     | 54.750           | Circular      | 1.500        |
| S709    | Manhole       | 519761.400  | 133376.999   | 57.700          | 3.060     | 54.640           | Circular      | 1.500        |
| S708    | Manhole       | 519733.242  | 133372.739   | 57.575          | 3.075     | 54.500           | Circular      | 1.500        |
| S707    | Manhole       | 519727.274  | 133380.354   | 57.660          | 3.180     | 54.480           | Circular      | 1.500        |
| S706    | Manhole       | 519722.798  | 133413.062   | 57.645          | 3.240     | 54.405           | Circular      | 1.500        |
| S705    | Manhole       | 519722.798  | 133433.221   | 57.000          | 2.715     | 54.285           | Circular      | 1.500        |
| S704    | Manhole       | 519645.122  | 133433.221   | 56.000          | 1.865     | 54.135           | Circular      | 1.500        |
| S703    | Manhole       | 519645.122  | 133446.124   | 56.000          | 1.890     | 54.110           | Circular      | 1.500        |
| S702    | Manhole       | 519537.076  | 133512.002   | 55.800          | 2.275     | 53.525           | Circular      | 1.500        |
| S701    | Manhole       | 519497.754  | 133532.544   | 54.700          | 1.325     | 53.375           | Circular      | 1.200        |
| Outfall | Manhole       | 519492.950  | 133522.829   | 54.200          | 0.860     | 53.340           | Circular      | 1.200        |

| Name    | Lock |
|---------|------|
| S720    | None |
| S719    | None |
| S718    | None |
| S717    | None |
| S716    | None |
| S715    | None |
| S714    | None |
| S713    | None |
| S712    | None |
| S711    | None |
| S710    | None |
| S709    | None |
| S708    | None |
| S707    | None |
| S706    | None |
| S705    | None |
| S704    | None |
| S703    | None |
| S702    | None |
| S701    | None |
| Outfall | None |

|                                                                                  |                         |             |              |
|----------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model     | Date:<br>01/09/2025     |             |              |
|                                                                                  | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Flow Path | Revision:<br>Rev 1      |             |              |

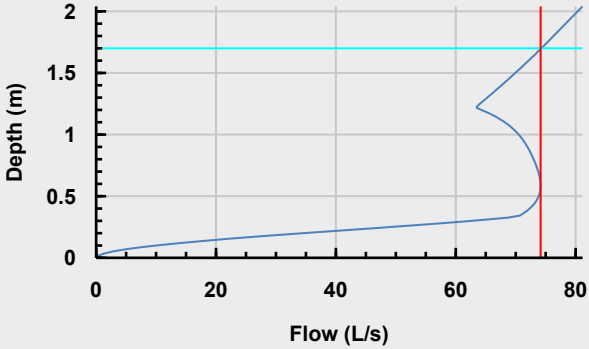


## Inlets

| Junction | Inlet Name | Incoming Item(s)  | Bypass Destination | Capacity Type  |
|----------|------------|-------------------|--------------------|----------------|
| S720     | Inlet      | Road 1            | (None)             | No Restriction |
| S719     | Inlet      | Pipe<br>Pipe (19) | (None)             | No Restriction |
| S718     | Inlet      | Pipe (1)          | (None)             | No Restriction |
|          | Inlet (1)  | Road 2            | (None)             | No Restriction |
| S717     | Inlet      | Pipe (2)          | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (20)         | (None)             | No Restriction |
|          | Inlet (2)  | Road 3            | (None)             | No Restriction |
| S716     | Inlet      | Pipe (3)          | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (21)         | (None)             | No Restriction |
|          | Inlet (2)  | Road 4            | (None)             | No Restriction |
| S715     | Inlet      | Pipe (4)          | (None)             | No Restriction |
|          | Inlet (1)  | Road 5            | (None)             | No Restriction |
| S714     | Inlet      | Pipe (5)          | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (22)         | (None)             | No Restriction |
|          | Inlet (2)  | Road 6            | (None)             | No Restriction |
| S713     | Inlet      | Pipe (6)          | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (25)         | (None)             | No Restriction |
|          | Inlet (2)  | Pipe (37)         | (None)             | No Restriction |
|          | Inlet (3)  | Road 7            | (None)             | No Restriction |
| S712     | Inlet      | Pipe (7)          | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (24)         | (None)             | No Restriction |
|          | Inlet (2)  | Road 9            | (None)             | No Restriction |
| S711     | Inlet      | Pipe (8)          | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (26)         | (None)             | No Restriction |
|          | Inlet (2)  | Road 10           | (None)             | No Restriction |
| S710     | Inlet      | Pipe (9)          | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (27)         | (None)             | No Restriction |
|          | Inlet (2)  | Road 11           | (None)             | No Restriction |
| S709     | Inlet      | Pipe (10)         | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (28)         | (None)             | No Restriction |
|          | Inlet (2)  | Road 12           | (None)             | No Restriction |
| S708     | Inlet      | Pipe (11)         | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (30)         | (None)             | No Restriction |
|          | Inlet (2)  | Road 13           | (None)             | No Restriction |
| S707     | Inlet      | Pipe (12)         | (None)             | No Restriction |
|          | Inlet (1)  | Road 15           | (None)             | No Restriction |
| S706     | Inlet      | Pipe (13)         | (None)             | No Restriction |
|          | Inlet (1)  | Road 16           | (None)             | No Restriction |
| S705     | Inlet      | Pipe (14)         | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (33)         | (None)             | No Restriction |
|          | Inlet (2)  | Road 16 (1)       | (None)             | No Restriction |
| S704     | Inlet      | Pipe (15)         | (None)             | No Restriction |
| S703     | Inlet      | Pipe (16)         | (None)             | No Restriction |
|          | Inlet (1)  | Pipe (36)         | (None)             | No Restriction |
| S702     | Inlet (1)  | Pipe (32)         | (None)             | No Restriction |
| S701     | Inlet      | Pipe (34)         | (None)             | No Restriction |
| Outfall  | Inlet      | Pipe (35)         | (None)             | No Restriction |

|                                                                                  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model     | Date:<br>01/09/2025     |             |  |              |
|                                                                                  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Phase<br>Flow Path: Flow Path | Revision:<br>Rev 1      |             |                                                                                     |              |

## Outlets

| Junction | Outlet Name                                                                          | Outgoing Connection                    | Outlet Type    |
|----------|--------------------------------------------------------------------------------------|----------------------------------------|----------------|
| S720     | Outlet                                                                               | Pipe                                   | Free Discharge |
| S719     | Outlet                                                                               | Pipe (1)                               | Free Discharge |
| S718     | Outlet                                                                               | Pipe (2)                               | Free Discharge |
| S717     | Outlet                                                                               | Pipe (3)                               | Free Discharge |
| S716     | Outlet                                                                               | Pipe (4)                               | Free Discharge |
| S715     | Outlet                                                                               | Pipe (5)                               | Free Discharge |
| S714     | Outlet                                                                               | Pipe (6)                               | Free Discharge |
| S713     | Outlet                                                                               | Pipe (7)                               | Free Discharge |
| S712     | Outlet                                                                               | Pipe (8)                               | Free Discharge |
| S711     | Outlet                                                                               | Pipe (9)                               | Free Discharge |
| S710     | Outlet                                                                               | Pipe (10)                              | Free Discharge |
| S709     | Outlet                                                                               | Pipe (11)                              | Free Discharge |
| S708     | Outlet                                                                               | Pipe (12)                              | Free Discharge |
| S707     | Outlet                                                                               | Pipe (13)                              | Free Discharge |
| S706     | Outlet                                                                               | Pipe (14)                              | Free Discharge |
| S705     | Outlet                                                                               | Pipe (15)                              | Free Discharge |
| S704     | Outlet                                                                               | Pipe (16)                              | Free Discharge |
| S703     | Outlet                                                                               | Pipe (17)                              | Free Discharge |
| S702     | Outlet                                                                               | Pipe (34)                              | Hydro-Brake®   |
|          | Invert Level (m)                                                                     | 53.525                                 |                |
|          | Design Depth (m)                                                                     | 1.700                                  |                |
|          | Design Flow (L/s)                                                                    | 74.4                                   |                |
|          | Objective                                                                            | Minimise Upstream Storage Requirements |                |
|          | Application                                                                          | Surface Water Only                     |                |
|          | Sump Available                                                                       | <input checked="" type="checkbox"/>    |                |
|          | Unit Reference                                                                       | SHE-0340-7440-1700-7440                |                |
|          |  |                                        |                |
|          |                                                                                      |                                        |                |
| S701     | Outlet                                                                               | Pipe (35)                              | Free Discharge |

|                                                                                            |                         |             |              |
|--------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model               | Date:<br>01/09/2025     |             |              |
|                                                                                            | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls<br>Storm Phase: Phase<br>Flow Path: Flow Path | Revision:<br>Rev 1      |             |              |



**Pond 7a**

Type : Pond

### Dimensions

|                      |          |
|----------------------|----------|
| Exceedance Level (m) | 55.550   |
| Depth (m)            | 2.000    |
| Base Level (m)       | 53.550   |
| Freeboard (mm)       | 300      |
| Initial Depth (m)    | 0.000    |
| Porosity (%)         | 100      |
| Average Slope (1:X)  | 20.291   |
| Total Volume (m³)    | 5333.999 |

| Depth (m) | Area (m²) | Volume (m³) |
|-----------|-----------|-------------|
| 0.000     | 0.10      | 0.000       |
| 0.050     | 54.90     | 0.956       |
| 0.150     | 394.60    | 20.845      |
| 0.250     | 828.90    | 80.692      |
| 0.350     | 1318.30   | 187.110     |
| 0.450     | 1997.00   | 351.705     |
| 0.550     | 2939.80   | 597.031     |
| 0.650     | 3456.60   | 916.502     |
| 0.750     | 3551.30   | 1266.887    |
| 0.850     | 3684.00   | 1628.631    |
| 0.950     | 3842.40   | 2004.924    |
| 1.050     | 3998.50   | 2396.943    |
| 1.150     | 4152.80   | 2804.483    |
| 1.250     | 4311.50   | 3227.673    |
| 1.350     | 4477.90   | 3667.117    |
| 1.450     | 4700.30   | 4125.982    |
| 1.550     | 4807.60   | 4601.367    |
| 1.650     | 4909.80   | 5087.228    |
| 1.750     | 5012.60   | 5583.339    |
| 1.850     | 5115.90   | 6089.756    |
| 1.950     | 5219.70   | 6606.527    |
| 2.000     | 5219.70   | 6867.512    |

### Inlets

#### Inlet

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | Pipe (18)      |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

#### Inlet (1)

|                    |                |
|--------------------|----------------|
| Inlet Type         | Point Inflow   |
| Incoming Item(s)   | Pipe (17)      |
| Bypass Destination | (None)         |
| Capacity Type      | No Restriction |

### Outlets

#### Outlet

|                     |                |
|---------------------|----------------|
| Outgoing Connection | Pipe (32)      |
| Outlet Type         | Free Discharge |

|                                                                                            |                         |             |              |                                                                                     |
|--------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model               | Date:<br>01/09/2025     |             |              |  |
|                                                                                            | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
| Report Details:<br>Type: Stormwater Controls<br>Storm Phase: Phase<br>Flow Path: Flow Path | Revision:<br>Rev 1      |             |              |                                                                                     |

Advanced

|                 |             |
|-----------------|-------------|
| Perimeter       | Circular    |
| Length (m)      | 147.389     |
| Friction Scheme | Manning's n |
| n               | 0.03        |

|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name              | Length (m) | Connection Type | Slope (1:X) | Manning's n | Colebrook-White Roughness (mm) | Diameter / Base Width (mm) | Upstream Cover Level (m) | Upstream Invert Level (m) |
|-------------------|------------|-----------------|-------------|-------------|--------------------------------|----------------------------|--------------------------|---------------------------|
| Pipe              | 30.537     | Pipe            | 23.857      |             | 0.6                            | 225                        | 60.850                   | 59.320                    |
| Branch: Pipe (19) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (19)         | 16.163     | Pipe            | 62.166      |             | 0.6                            | 150                        | 61.000                   | 58.300                    |
| Pipe (1)          | 33.366     | Pipe            | 290.138     |             | 0.6                            | 300                        | 60.540                   | 58.040                    |
| Pipe (2)          | 40.682     | Pipe            | 290.583     |             | 0.6                            | 300                        | 60.405                   | 57.925                    |
| Branch: Pipe (20) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (20)         | 16.925     | Pipe            | 53.730      |             | 0.6                            | 225                        | 61.100                   | 58.100                    |
| Pipe (3)          | 26.263     | Pipe            | 73.981      |             | 0.6                            | 300                        | 60.785                   | 57.785                    |
| Branch: Pipe (21) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (21)         | 17.425     | Pipe            | 64.537      |             | 0.6                            | 150                        | 60.700                   | 57.700                    |
| Pipe (4)          | 33.861     | Pipe            | 294.441     |             | 0.6                            | 300                        | 60.915                   | 57.430                    |
| Pipe (5)          | 24.840     | Pipe            | 292.238     |             | 0.6                            | 300                        | 60.655                   | 57.315                    |
| Branch: Pipe (22) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (22)         | 15.610     | Pipe            | 33.212      |             | 0.6                            | 150                        | 60.700                   | 57.700                    |
| Pipe (6)          | 53.843     | Pipe            | 26.394      |             | 0.6                            | 300                        | 60.335                   | 57.230                    |
| Branch: Pipe (37) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (37)         | 27.910     | Pipe            | 67.252      |             | 0.6                            | 150                        | 60.200                   | 55.605                    |
| Branch: Pipe (25) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (25)         | 46.203     | Pipe            | 200.884     |             | 0.6                            | 300                        | 59.700                   | 55.420                    |
| Pipe (7)          | 24.870     | Pipe            | 355.288     |             | 0.6                            | 375                        | 59.940                   | 55.190                    |
| Branch: Pipe (23) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (23)         | 44.629     | Pipe            | 223.143     |             | 0.6                            | 225                        | 61.270                   | 58.270                    |
| Pipe (24)         | 35.184     | Pipe            | 11.927      |             | 0.6                            | 225                        | 59.850                   | 58.070                    |
| Pipe (8)          | 65.453     | Pipe            | 374.018     |             | 0.6                            | 375                        | 59.975                   | 55.120                    |
| Branch: Pipe (26) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (26)         | 19.524     | Pipe            | 54.996      |             | 0.6                            | 150                        | 59.400                   | 55.300                    |
| Pipe (9)          | 44.150     | Pipe            | 226.408     |             | 0.6                            | 375                        | 59.000                   | 54.945                    |
| Branch: Pipe (27) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (27)         | 19.717     | Pipe            | 45.326      |             | 0.6                            | 150                        | 58.700                   | 55.185                    |
| Pipe (10)         | 49.886     | Pipe            | 453.513     |             | 0.6                            | 450                        | 58.365                   | 54.750                    |
| Branch: Pipe (28) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (28)         | 16.625     | Pipe            | 40.549      |             | 0.6                            | 150                        | 57.800                   | 55.050                    |
| Pipe (11)         | 28.478     | Pipe            | 203.413     |             | 0.6                            | 450                        | 57.700                   | 54.640                    |
| Branch: Pipe (29) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (29)         | 17.896     | Pipe            | 223.700     |             | 0.6                            | 225                        | 58.350                   | 55.370                    |
| Pipe (30)         | 46.516     | Pipe            | 58.881      |             | 0.6                            | 225                        | 57.800                   | 55.290                    |
| Pipe (12)         | 9.675      | Pipe            | 483.751     |             | 0.6                            | 525                        | 57.575                   | 54.500                    |
| Pipe (13)         | 33.012     | Pipe            | 440.159     |             | 0.6                            | 525                        | 57.660                   | 54.480                    |
| Pipe (14)         | 20.160     | Pipe            | 167.996     |             | 0.6                            | 525                        | 57.645                   | 54.405                    |
| Branch: Pipe (33) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (33)         | 12.320     | Pipe            | 23.029      |             | 0.6                            | 150                        | 56.500                   | 54.820                    |
| Pipe (15)         | 77.676     | Pipe            | 517.839     |             | 0.6                            | 600                        | 57.000                   | 54.285                    |
| Pipe (16)         | 12.903     | Pipe            | 516.101     |             | 0.6                            | 600                        | 56.000                   | 54.135                    |
| Branch: Pipe (36) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (36)         | 20.253     | Pipe            | 32.666      |             | 0.6                            | 150                        | 56.200                   | 54.730                    |
| Pipe (17)         | 16.135     | Pipe            | 28.813      |             | 0.6                            | 600                        | 56.000                   | 54.110                    |
| Branch: Pipe (31) |            |                 |             |             |                                |                            |                          |                           |
| Pipe (31)         | 19.913     | Pipe            | 159.301     |             | 0.6                            | 150                        | 56.750                   | 54.370                    |
| Pipe (18)         | 8.979      | Pipe            | 12.919      |             | 0.6                            | 150                        | 56.300                   | 54.245                    |
| Pipe (32)         | 10.921     | Pipe            | 436.849     |             | 0.6                            | 600                        | 55.550                   | 53.550                    |
| Pipe (34)         | 44.364     | Pipe            | 295.763     |             | 0.6                            | 300                        | 55.800                   | 53.525                    |
| Pipe (35)         | 10.838     | Pipe            | 309.645     |             | 0.6                            | 300                        | 54.700                   | 53.375                    |



|                                                                                    |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name              | Downstream Cover Level (m) | Downstream Invert Level (m) | Part Family | Lock | Flow Restriction (L/s) | Culvert Type | Culvert Entrance |
|-------------------|----------------------------|-----------------------------|-------------|------|------------------------|--------------|------------------|
| Pipe              | 60.540                     | 58.040                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (19) |                            |                             |             |      |                        |              |                  |
| Pipe (19)         | 60.540                     | 58.040                      |             | None | 2.9                    | (None)       | (None)           |
| Pipe (1)          | 60.405                     | 57.925                      |             | None |                        | (None)       | (None)           |
| Pipe (2)          | 60.785                     | 57.785                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (20) |                            |                             |             |      |                        |              |                  |
| Pipe (20)         | 60.785                     | 57.785                      |             | None | 10.5                   | (None)       | (None)           |
| Pipe (3)          | 60.915                     | 57.430                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (21) |                            |                             |             |      |                        |              |                  |
| Pipe (21)         | 60.915                     | 57.430                      |             | None | 2.5                    | (None)       | (None)           |
| Pipe (4)          | 60.655                     | 57.315                      |             | None |                        | (None)       | (None)           |
| Pipe (5)          | 60.335                     | 57.230                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (22) |                            |                             |             |      |                        |              |                  |
| Pipe (22)         | 60.335                     | 57.230                      |             | None | 3.5                    | (None)       | (None)           |
| Pipe (6)          | 59.940                     | 55.190                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (37) |                            |                             |             |      |                        |              |                  |
| Pipe (37)         | 59.940                     | 55.190                      |             | None | 2.2                    | (None)       | (None)           |
| Branch: Pipe (25) |                            |                             |             |      |                        |              |                  |
| Pipe (25)         | 59.940                     | 55.190                      |             | None | 12.0                   | (None)       | (None)           |
| Pipe (7)          | 59.975                     | 55.120                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (23) |                            |                             |             |      |                        |              |                  |
| Pipe (23)         | 59.850                     | 58.070                      |             | None | 17.0                   | (None)       | (None)           |
| Pipe (24)         | 59.975                     | 55.120                      |             | None |                        | (None)       | (None)           |
| Pipe (8)          | 59.000                     | 54.945                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (26) |                            |                             |             |      |                        |              |                  |
| Pipe (26)         | 59.000                     | 54.945                      |             | None | 3.8                    | (None)       | (None)           |
| Pipe (9)          | 58.365                     | 54.750                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (27) |                            |                             |             |      |                        |              |                  |
| Pipe (27)         | 58.365                     | 54.750                      |             | None | 2.1                    | (None)       | (None)           |
| Pipe (10)         | 57.700                     | 54.640                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (28) |                            |                             |             |      |                        |              |                  |
| Pipe (28)         | 57.700                     | 54.640                      |             | None | 1.9                    | (None)       | (None)           |
| Pipe (11)         | 57.575                     | 54.500                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (29) |                            |                             |             |      |                        |              |                  |
| Pipe (29)         | 57.800                     | 55.290                      |             | None | 15.4                   | (None)       | (None)           |
| Pipe (30)         | 57.575                     | 54.500                      |             | None |                        | (None)       | (None)           |
| Pipe (12)         | 57.660                     | 54.480                      |             | None |                        | (None)       | (None)           |
| Pipe (13)         | 57.645                     | 54.405                      |             | None |                        | (None)       | (None)           |
| Pipe (14)         | 57.000                     | 54.285                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (33) |                            |                             |             |      |                        |              |                  |
| Pipe (33)         | 57.000                     | 54.285                      |             | None | 3.4                    | (None)       | (None)           |
| Pipe (15)         | 56.000                     | 54.135                      |             | None |                        | (None)       | (None)           |
| Pipe (16)         | 56.000                     | 54.110                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (36) |                            |                             |             |      |                        |              |                  |
| Pipe (36)         | 56.000                     | 54.110                      |             | None | 1.4                    | (None)       | (None)           |
| Pipe (17)         | 55.550                     | 53.550                      |             | None |                        | (None)       | (None)           |
| Branch: Pipe (31) |                            |                             |             |      |                        |              |                  |
| Pipe (31)         | 56.300                     | 54.245                      |             | None | 3.6                    | (None)       | (None)           |
| Pipe (18)         | 55.550                     | 53.550                      |             | None |                        | (None)       | (None)           |
| Pipe (32)         | 55.800                     | 53.525                      |             | None |                        | (None)       | (None)           |
| Pipe (34)         | 54.700                     | 53.375                      |             | None | 81.2                   | (None)       | (None)           |
| Pipe (35)         | 54.200                     | 53.340                      |             | None |                        | (None)       | (None)           |

|                                                                                         |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model            |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Size (m)            | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           |                             | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S720                         | 60.850<br>59.320                    | Diameter /<br>Length: 1.200 |                      |                 |                       |                      | Manhole        |
| E:520137.351<br>N:133514.033 | 1.530                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe             | Pipe            | 59.320                | Diam/Width:225       | Not Applicable |
| S719                         | 60.540<br>58.040                    | Diameter /<br>Length: 1.200 | {1} Pipe             | Pipe            | 58.040                | Diam/Width:225       | Manhole        |
| E:520122.689<br>N:133487.245 | 2.500                               |                             | {2} Pipe (19)        | Pipe            | 58.040                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (1)         | Pipe            | 58.040                | Diam/Width:300       | Not Applicable |
| S718                         | 60.405<br>57.925                    | Diameter /<br>Length: 1.200 | {1} Pipe (1)         | Pipe            | 57.925                | Diam/Width:300       | Manhole        |
| E:520102.894<br>N:133460.386 | 2.480                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (2)         | Pipe            | 57.925                | Diam/Width:300       | Not Applicable |
| S717                         | 60.785<br>57.785                    | Diameter /<br>Length: 1.500 | {1} Pipe (2)         | Pipe            | 57.785                | Diam/Width:300       | Manhole        |
| E:520072.288<br>N:133433.585 | 3.000                               |                             | {2} Pipe (20)        | Pipe            | 57.785                | Diam/Width:225       |                |
|                              |                                     |                             | {a} Pipe (3)         | Pipe            | 57.785                | Diam/Width:300       | Not Applicable |

|                                                                                         |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model            |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Size (m)            | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           |                             | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S716                         | 60.915<br>57.430                    | Diameter /<br>Length: 1.200 | {1} Pipe (3)         | Pipe            | 57.430                | Diam/Width:300       | Manhole        |
| E:520048.125<br>N:133423.296 | 3.485                               |                             | {2} Pipe (21)        | Pipe            | 57.430                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (4)         | Pipe            | 57.430                | Diam/Width:300       | Not Applicable |
| S715                         | 60.655<br>57.315                    | Diameter /<br>Length: 1.200 | {1} Pipe (4)         | Pipe            | 57.315                | Diam/Width:300       | Manhole        |
| E:520016.971<br>N:133410.029 | 3.340                               |                             |                      |                 |                       |                      |                |
|                              |                                     |                             | {a} Pipe (5)         | Pipe            | 57.315                | Diam/Width:300       | Not Applicable |
| S714                         | 60.335<br>57.230                    | Diameter /<br>Length: 1.350 | {1} Pipe (5)         | Pipe            | 57.230                | Diam/Width:300       | Manhole        |
| E:519993.136<br>N:133403.033 | 3.105                               |                             | {2} Pipe (22)        | Pipe            | 57.230                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (6)         | Pipe            | 57.230                | Diam/Width:300       | Not Applicable |
| S713                         | 59.940<br>55.190                    | Diameter /<br>Length: 1.350 | {1} Pipe (6)         | Pipe            | 55.190                | Diam/Width:300       | Manhole        |
| E:519939.396<br>N:133399.704 | 4.750                               |                             | {2} Pipe (25)        | Pipe            | 55.190                | Diam/Width:300       |                |
|                              |                                     |                             | {3} Pipe (37)        | Pipe            | 55.190                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (7)         | Pipe            | 55.190                | Diam/Width:375       | Not Applicable |

|                                                                                         |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model            |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |
| S712                         | 59.975<br>55.120                    | Diameter / Length: 1.500 | {1} Pipe (7)         | Pipe            | 55.120                | Diam/Width:375       | Manhole        |
| E:519919.316<br>N:133385.031 | 4.855                               |                          | {2} Pipe (24)        | Pipe            | 55.120                | Diam/Width:225       |                |
|                              |                                     |                          | {a} Pipe (8)         | Pipe            | 55.120                | Diam/Width:375       | Not Applicable |
| S711                         | 59.000<br>54.945                    | Diameter / Length: 1.500 | {1} Pipe (8)         | Pipe            | 54.945                | Diam/Width:375       | Manhole        |
| E:519854.208<br>N:133391.742 | 4.055                               |                          | {2} Pipe (26)        | Pipe            | 54.945                | Diam/Width:150       |                |
|                              |                                     |                          | {a} Pipe (9)         | Pipe            | 54.945                | Diam/Width:375       | Not Applicable |
| S710                         | 58.365<br>54.750                    | Diameter / Length: 1.500 | {1} Pipe (9)         | Pipe            | 54.750                | Diam/Width:375       | Manhole        |
| E:519810.366<br>N:133386.535 | 3.615                               |                          | {2} Pipe (27)        | Pipe            | 54.750                | Diam/Width:150       |                |
|                              |                                     |                          | {a} Pipe (10)        | Pipe            | 54.750                | Diam/Width:450       | Not Applicable |
| S709                         | 57.700<br>54.640                    | Diameter / Length: 1.500 | {1} Pipe (10)        | Pipe            | 54.640                | Diam/Width:450       | Manhole        |
| E:519761.400<br>N:133376.999 | 3.060                               |                          | {2} Pipe (28)        | Pipe            | 54.640                | Diam/Width:150       |                |
|                              |                                     |                          | {a} Pipe (11)        | Pipe            | 54.640                | Diam/Width:450       | Not Applicable |

|                                                                                         |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model            |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |
| S708                         | 57.575<br>54.500                    | Diameter / Length: 1.500 | {1} Pipe (11)        | Pipe            | 54.500                | Diam/Width:450       | Manhole        |
| E:519733.242<br>N:133372.739 | 3.075                               |                          | {2} Pipe (30)        | Pipe            | 54.500                | Diam/Width:225       |                |
|                              |                                     |                          | {a} Pipe (12)        | Pipe            | 54.500                | Diam/Width:525       | Not Applicable |
| S707                         | 57.660<br>54.480                    | Diameter / Length: 1.500 | {1} Pipe (12)        | Pipe            | 54.480                | Diam/Width:525       | Manhole        |
| E:519727.274<br>N:133380.354 | 3.180                               |                          |                      |                 |                       |                      |                |
|                              |                                     |                          | {a} Pipe (13)        | Pipe            | 54.480                | Diam/Width:525       | Not Applicable |
| S706                         | 57.645<br>54.405                    | Diameter / Length: 1.500 | {1} Pipe (13)        | Pipe            | 54.405                | Diam/Width:525       | Manhole        |
| E:519722.798<br>N:133413.062 | 3.240                               |                          |                      |                 |                       |                      |                |
|                              |                                     |                          | {a} Pipe (14)        | Pipe            | 54.405                | Diam/Width:525       | Not Applicable |
| S705                         | 57.000<br>54.285                    | Diameter / Length: 1.500 | {1} Pipe (14)        | Pipe            | 54.285                | Diam/Width:525       | Manhole        |
| E:519722.798<br>N:133433.221 | 2.715                               |                          | {2} Pipe (33)        | Pipe            | 54.285                | Diam/Width:150       |                |
|                              |                                     |                          | {a} Pipe (15)        | Pipe            | 54.285                | Diam/Width:600       | Not Applicable |

|                                                                                         |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model            |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Name                         | Cover Level (m)<br>Invert Level (m) | Manhole Size (m)            | Connection Details   |                 |                       |                      | Type           |
|------------------------------|-------------------------------------|-----------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|
| Coordinates (m)              | Depth (m)                           |                             | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  |
|                              |                                     |                             | Outgoing Connections |                 |                       |                      | Cover          |
| S704                         | 56.000<br>54.135                    | Diameter /<br>Length: 1.500 | {1} Pipe (15)        | Pipe            | 54.135                | Diam/Width:600       | Manhole        |
| E:519645.122<br>N:133433.221 | 1.865                               |                             | {a} Pipe (16)        | Pipe            | 54.135                | Diam/Width:600       | Not Applicable |
| S703                         | 56.000<br>54.110                    | Diameter /<br>Length: 1.500 | {1} Pipe (16)        | Pipe            | 54.110                | Diam/Width:600       | Manhole        |
| E:519645.122<br>N:133446.124 | 1.890                               |                             | {2} Pipe (36)        | Pipe            | 54.110                | Diam/Width:150       |                |
|                              |                                     |                             | {a} Pipe (17)        | Pipe            | 54.110                | Diam/Width:600       | Not Applicable |
| S702                         | 55.800<br>53.525                    | Diameter /<br>Length: 1.500 | {1} Pipe (32)        | Pipe            | 53.525                | Diam/Width:600       | Manhole        |
| E:519537.076<br>N:133512.002 | 2.275                               |                             | {a} Pipe (34)        | Pipe            | 53.525                | Diam/Width:300       | Not Applicable |
| S701                         | 54.700<br>53.375                    | Diameter /<br>Length: 1.200 | {1} Pipe (34)        | Pipe            | 53.375                | Diam/Width:300       | Manhole        |
| E:519497.754<br>N:133532.544 | 1.325                               |                             | {a} Pipe (35)        | Pipe            | 53.375                | Diam/Width:300       | Not Applicable |
| Outfall                      | 54.200<br>53.340                    | Diameter /<br>Length: 1.200 | {1} Pipe (35)        | Pipe            | 53.340                | Diam/Width:300       | Manhole        |
| E:519492.950<br>N:133522.829 | 0.860                               |                             |                      |                 |                       |                      | Not Applicable |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |

| Inflow Label      | Connected To | Flow (L/s) | Runoff Method         | Area (ha) | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|-------------------|--------------|------------|-----------------------|-----------|---------------------------|-----------------|------------------------------------|--------------------|
| Road 1            | S720         |            | Time of Concentration | 0.098     | 100                       | 0               | 100.0                              | 0.098              |
| Branch: Pipe (19) |              |            |                       |           |                           |                 |                                    |                    |
| Spur N            | S719A        |            | Time of Concentration | 0.519     | 90                        | 0               | 90.0                               | 0.467              |
| Road 2            | S718         |            | Time of Concentration | 0.052     | 100                       | 0               | 100.0                              | 0.052              |
| Branch: Pipe (20) |              |            |                       |           |                           |                 |                                    |                    |
| Spur M            | S717A        |            | Time of Concentration | 1.893     | 90                        | 0               | 90.0                               | 1.704              |
| Road 3            | S717         |            | Time of Concentration | 0.071     | 100                       | 0               | 100.0                              | 0.071              |
| Branch: Pipe (21) |              |            |                       |           |                           |                 |                                    |                    |
| Spur L            | S716A        |            | Time of Concentration | 0.566     | 65                        | 10              | 71.5                               | 0.405              |
| Road 4            | S716         |            | Time of Concentration | 0.041     | 100                       | 0               | 100.0                              | 0.041              |
| Road 5            | S715         |            | Time of Concentration | 0.050     | 100                       | 0               | 100.0                              | 0.050              |
| Branch: Pipe (22) |              |            |                       |           |                           |                 |                                    |                    |
| Spur K            | S714A        |            | Time of Concentration | 0.615     | 90                        | 0               | 90.0                               | 0.554              |
| Road 6            | S714         |            | Time of Concentration | 0.046     | 100                       | 0               | 100.0                              | 0.046              |
| Branch: Pipe (37) |              |            |                       |           |                           |                 |                                    |                    |
| Spur J            | S713B        |            | Time of Concentration | 0.335     | 65                        | 10              | 71.5                               | 0.239              |
| Branch: Pipe (25) |              |            |                       |           |                           |                 |                                    |                    |
| Spur H            | S713A        |            | Time of Concentration | 1.968     | 90                        | 0               | 90.0                               | 1.771              |
| Road 7            | S713         |            | Time of Concentration | 0.177     | 100                       | 0               | 100.0                              | 0.177              |
| Branch: Pipe (23) |              |            |                       |           |                           |                 |                                    |                    |
| Spur I            | S712B        |            | Time of Concentration | 3.054     | 90                        | 0               | 90.0                               | 2.749              |
| Road 8            | S712B        |            | Time of Concentration | 0.082     | 100                       | 0               | 100.0                              | 0.082              |
| Road 9            | S712         |            | Time of Concentration | 0.063     | 100                       | 0               | 100.0                              | 0.063              |
| Branch: Pipe (26) |              |            |                       |           |                           |                 |                                    |                    |
| Spur G            | S711A        |            | Time of Concentration | 0.600     | 90                        | 0               | 90.0                               | 0.540              |
| Road 10           | S711         |            | Time of Concentration | 0.102     | 100                       | 0               | 100.0                              | 0.102              |
| Branch: Pipe (27) |              |            |                       |           |                           |                 |                                    |                    |
| Spur F            | S710A        |            | Time of Concentration | 0.292     | 90                        | 0               | 90.0                               | 0.263              |
| Road 11           | S710         |            | Time of Concentration | 0.080     | 100                       | 0               | 100.0                              | 0.080              |
| Branch: Pipe (28) |              |            |                       |           |                           |                 |                                    |                    |
| Spur E            | S709A        |            | Time of Concentration | 0.350     | 90                        | 0               | 90.0                               | 0.315              |
| Road 12           | S709         |            | Time of Concentration | 0.104     | 100                       | 0               | 100.0                              | 0.104              |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |

|                   |       |            |                       |               |     |   |       |               |
|-------------------|-------|------------|-----------------------|---------------|-----|---|-------|---------------|
| Branch: Pipe (29) |       |            |                       |               |     |   |       |               |
| Road 14           | S708B |            | Time of Concentration | 0.083         | 100 | 0 | 100.0 | 0.083         |
| Spur D            | S708B |            | Time of Concentration | 2.807         | 90  | 0 | 90.0  | 2.526         |
| Road 13           | S708  |            | Time of Concentration | 0.055         | 100 | 0 | 100.0 | 0.055         |
| Road 15           | S707  |            | Time of Concentration | 0.080         | 100 | 0 | 100.0 | 0.080         |
| Road 16           | S706  |            | Time of Concentration | 0.048         | 100 | 0 | 100.0 | 0.048         |
| Branch: Pipe (33) |       |            |                       |               |     |   |       |               |
| Spur C            | S705A |            | Time of Concentration | 0.835         | 90  | 0 | 90.0  | 0.751         |
| Road 16 (1)       | S705  |            | Time of Concentration | 0.027         | 100 | 0 | 100.0 | 0.027         |
| Branch: Pipe (36) |       |            |                       |               |     |   |       |               |
| Spur B            | S703A |            | Time of Concentration | 0.201         | 90  | 0 | 90.0  | 0.181         |
| Branch: Pipe (31) |       |            |                       |               |     |   |       |               |
| Spur A            | S702B |            | Time of Concentration | 0.707         | 90  | 0 | 90.0  | 0.636         |
| <b>TOTAL</b>      |       | <b>0.0</b> |                       | <b>16.001</b> |     |   |       | <b>14.360</b> |



|                                                                              |                         |             |              |
|------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model | Date:<br>01/09/2025     |             |              |
|                                                                              | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Network Design Criteria<br>Storm Phase: Phase       | Revision:<br>Rev 1      |             |              |



### Flow Options

|                           |                               |
|---------------------------|-------------------------------|
| Peak Flow Calculation     | (UK) Modified Rational Method |
| Min. Time of Entry (mins) | 15                            |
| Max. Travel Time (mins)   | 1440                          |

FEH

Type: FEH

|                       |                                 |
|-----------------------|---------------------------------|
| Site Location         | GB 519000 133350 TQ 19000 33350 |
| Return Period (years) | 2.0                             |
| Rainfall Version      | 2022                            |

### Pipe Options

|                       |                                     |
|-----------------------|-------------------------------------|
| Lock Slope Options    | None                                |
| Design Options        | Minimise Excavation                 |
| Design Level          | Level Soffits                       |
| Min. Cover Depth (m)  | 1.200                               |
| Min. Slope (1:X)      | 500.00                              |
| Max. Slope (1:X)      | 40.00                               |
| Min. Velocity (m/s)   | 1.0                                 |
| Max. Velocity (m/s)   | 3.0                                 |
| Use Flow Restriction  | <input checked="" type="checkbox"/> |
| Reduce Channel Depths | <input type="checkbox"/>            |

### Pipe Size Library

Default

|                     |    |
|---------------------|----|
| Add. Increment (mm) | 75 |
| Max. Diameter (mm)  | 0  |

| Diameter (mm) | Min. Slope (1:X) | Max. Slope (1:X) |
|---------------|------------------|------------------|
| 100           | 0.00             | 0.00             |
| 150           | 0.00             | 0.00             |

|                                                                              |                         |             |              |
|------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model | Date:<br>01/09/2025     |             |              |
|                                                                              | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Network Design Criteria<br>Storm Phase: Phase       | Revision:<br>Rev 1      |             |              |



### Manhole Options

Apply Offset ☐

### Manhole Size Library

#### Default

#### Diameter / Width

| Connection (mm) | Diameter / Length (m) | Width (m) |
|-----------------|-----------------------|-----------|
| 0               | 1.200                 | 0.000     |
| 375             | 1.350                 | 0.000     |
| 500             | 1.500                 | 0.000     |
| 750             | 1.800                 | 0.000     |

#### Additional Sizing

|                       |       |
|-----------------------|-------|
| Connection (mm)       | 900   |
| Diameter / Length (m) | 0.900 |
| Width (m)             | 0.000 |

#### Depth

| Depth (m) | Diameter / Length (m) | Width (m) |
|-----------|-----------------------|-----------|
| 0.000     | 1.050                 | 0.000     |
| 1.500     | 1.200                 | 0.000     |

#### Access

| Depth (m) | Ladder Protrusion (mm) |
|-----------|------------------------|
| 0.000     | 130                    |
| 3.000     | 230                    |

#### Benching Requirements

|                     |     |
|---------------------|-----|
| Landing Width (mm)  | 500 |
| Benching Width (mm) | 225 |

|                                                                              |                         |             |              |                                                                                     |
|------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model | Date:<br>01/09/2025     |             |              |  |
|                                                                              | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
| Report Details:<br>Type: Outfall Details<br>Storm Phase: Phase               | Revision:<br>Rev 1      |             |              |                                                                                     |

Outfalls

| Outfall | Outfall Type   | Gated | Fixed Surcharged Level (m) | Level Curve |
|---------|----------------|-------|----------------------------|-------------|
| Outfall | Free Discharge |       |                            |             |

|                                                                              |                         |             |              |                                                                                     |
|------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model | Date:<br>01/09/2025     |             |              |  |
|                                                                              | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
| Report Title:<br>Rainfall Analysis Criteria                                  | Revision:<br>Rev 1      |             |              |                                                                                     |

|                                 |                          |
|---------------------------------|--------------------------|
| Runoff Type                     | Dynamic                  |
| Output Interval (mins)          | 5                        |
| Time Step                       | Shortest                 |
| Urban Creep                     | Use Catchment Values     |
| Junction Flood Risk Margin (mm) | 300                      |
| Perform No Discharge Analysis   | <input type="checkbox"/> |

### Rainfall

|                  |                                     |           |
|------------------|-------------------------------------|-----------|
| FEH              |                                     | Type: FEH |
| Site Location    | GB 519000 133350 TQ 19000 33350     |           |
| Rainfall Version | 2022                                |           |
| Summer           | <input checked="" type="checkbox"/> |           |
| Winter           | <input checked="" type="checkbox"/> |           |

### Return Period

| Return Period (years) | Increase Rainfall (%) |
|-----------------------|-----------------------|
| 2.0                   | 0.000                 |
| 30.0                  | 0.000                 |
| 30.0                  | 35.000                |
| 100.0                 | 0.000                 |
| 100.0                 | 45.000                |

### Storm Durations

| Duration (mins) | Run Time (mins) |
|-----------------|-----------------|
| 60              | 120             |
| 120             | 240             |
| 180             | 360             |
| 240             | 480             |
| 360             | 720             |
| 480             | 960             |
| 600             | 1200            |
| 720             | 1440            |
| 960             | 1920            |
| 1440            | 2880            |
| 2160            | 4320            |
| 2880            | 5760            |
| 4320            | 8640            |
| 5760            | 11520           |
| 7200            | 14400           |
| 8640            | 17280           |
| 10080           | 20160           |

|                                                                                       |                         |             |              |
|---------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          | Date:<br>01/09/2025     |             |              |
|                                                                                       | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur M | Revision:<br>Rev 1      |             |              |



**FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S717A    | FEH: 2 years: +0 %:<br>240 mins: Winter | 61.10<br>0      | 58.10<br>0       | 61.369         | 3.269          | 72.5              | 272.482                   | 269.089                  | 10.8               | 297.997                     | Flood  |
| S717     | FEH: 2 years: +0 %:<br>60 mins: Summer  | 60.78<br>5      | 57.78<br>5       | 57.895         | 0.110          | 37.3              | 0.195                     | 0.000                    | 37.3               | 121.632                     | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur M |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S717A    | FEH: 30 years: +0 %: 360 mins: Winter | 61.100          | 58.100           | 61.733         | 3.633          | 100.6             | 636.142                   | 632.749                  | 11.4               | 468.690                     | Flood  |
| S717     | FEH: 30 years: +0 %: 60 mins: Summer  | 60.785          | 57.785           | 57.939         | 0.154          | 67.7              | 0.271                     | 0.000                    | 67.6               | 163.431                     | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur M |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S717A    | FEH: 30 years: +35 %: 120 mins: Summer | 61.100          | 58.100           | 61.881         | 3.781          | 411.6             | 784.329                   | 780.936                  | 11.4               | 159.296                     | Flood      |
| S717     | FEH: 30 years: +35 %: 60 mins: Summer  | 60.785          | 57.785           | 58.679         | 0.894          | 81.2              | 1.579                     | 0.000                    | 68.8               | 188.615                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur M |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S717A    | FEH: 100 years: +0 %: 120 mins: Summer | 61.100          | 58.100           | 61.820         | 3.720          | 382.7             | 723.845                   | 720.452                  | 11.4               | 159.040                     | Flood      |
| S717     | FEH: 100 years: +0 %: 60 mins: Summer  | 60.785          | 57.785           | 58.487         | 0.702          | 77.5              | 1.241                     | 0.000                    | 70.4               | 183.941                     | Surcharged |



|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur M |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                  | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S717A    | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 61.10<br>0      | 58.10<br>0       | 62.026         | 3.926          | 777.0             | 929.032                   | 925.639                  | 11.4               | 77.036                      | Flood      |
| S717     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 60.78<br>5      | 57.78<br>5       | 60.036         | 2.251          | 86.9              | 3.978                     | 0.000                    | 82.5               | 221.484                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur L |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S716A    | FEH: 2 years: +0 %:<br>360 mins: Winter | 60.700          | 57.700           | 60.763         | 3.063          | 13.2              | 66.623                    | 63.230                   | 2.5                | 102.020                     | Flood  |
| S716     | FEH: 2 years: +0 %:<br>60 mins: Summer  | 60.915          | 57.430           | 57.625         | 0.195          | 44.2              | 0.221                     | 0.000                    | 44.2               | 142.978                     | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur L |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S716A    | FEH: 30 years: +0 %: 360 mins: Winter | 60.700          | 57.700           | 60.850         | 3.150          | 23.9              | 153.590                   | 150.197                  | 2.5                | 105.849                     | Flood      |
| S716     | FEH: 30 years: +0 %: 60 mins: Summer  | 60.915          | 57.430           | 57.852         | 0.422          | 79.6              | 0.477                     | 0.000                    | 78.5               | 192.388                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur L |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S716A    | FEH: 30 years: +35 %: 480 mins: Winter | 60.700          | 57.700           | 60.924         | 3.224          | 26.0              | 227.454                   | 224.061                  | 2.6                | 142.882                     | Flood      |
| S716     | FEH: 30 years: +35 %: 60 mins: Summer  | 60.915          | 57.430           | 58.561         | 1.131          | 85.0              | 1.279                     | 0.000                    | 84.9               | 222.170                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur L |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S716A    | FEH: 100 years: +0 %: 480 mins: Winter | 60.700          | 57.700           | 60.901         | 3.201          | 24.0              | 204.839                   | 201.446                  | 2.6                | 142.365                     | Flood      |
| S716     | FEH: 100 years: +0 %: 60 mins: Summer  | 60.915          | 57.430           | 58.374         | 0.944          | 83.6              | 1.068                     | 0.000                    | 83.1               | 216.558                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur L |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S716A    | FEH: 100 years: +45 %: 960 mins: Winter | 60.700          | 57.700           | 61.034         | 3.334          | 20.9              | 337.068                   | 333.675                  | 2.6                | 289.156                     | Flood      |
| S716     | FEH: 100 years: +45 %: 60 mins: Summer  | 60.915          | 57.430           | 59.883         | 2.453          | 98.3              | 2.775                     | 0.000                    | 100.4              | 262.447                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur K |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S714A    | FEH: 2 years: +0 %:<br>360 mins: Summer | 60.70<br>0      | 57.70<br>0       | 60.786         | 3.086          | 27.5              | 89.254                    | 85.861                   | 3.5                | 144.050                     | Flood  |
| S714     | FEH: 2 years: +0 %:<br>60 mins: Summer  | 60.33<br>5      | 57.23<br>0       | 57.333         | 0.103          | 58.1              | 0.148                     | 0.000                    | 58.1               | 178.424                     | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur K |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S714A    | FEH: 30 years: +0 %: 360 mins: Winter | 60.700          | 57.700           | 60.904         | 3.204          | 32.7              | 207.845                   | 204.452                  | 3.6                | 149.515                     | Flood  |
| S714     | FEH: 30 years: +0 %: 60 mins: Summer  | 60.335          | 57.230           | 57.443         | 0.213          | 104.4             | 0.305                     | 0.000                    | 97.5               | 245.026                     | OK     |



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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur K |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S714A    | FEH: 30 years: +35 %: 480 mins: Winter | 60.700          | 57.700           | 61.005         | 3.305          | 35.6              | 307.980                   | 304.587                  | 3.6                | 202.251                     | Flood      |
| S714     | FEH: 30 years: +35 %: 60 mins: Summer  | 60.335          | 57.230           | 58.170         | 0.940          | 115.6             | 1.345                     | 0.000                    | 115.3              | 285.068                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur K |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S714A    | FEH: 100 years: +0 %: 480 mins: Winter | 60.700          | 57.700           | 60.974         | 3.274          | 32.9              | 277.096                   | 273.703                  | 3.6                | 201.347                     | Flood      |
| S714     | FEH: 100 years: +0 %: 60 mins: Summer  | 60.335          | 57.230           | 58.003         | 0.773          | 113.5             | 1.106                     | 0.000                    | 112.1              | 277.628                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur K |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S714A    | FEH: 100 years: +45 %: 720 mins: Winter | 60.700          | 57.700           | 61.151         | 3.451          | 35.3              | 454.668                   | 451.275                  | 3.7                | 308.576                     | Flood      |
| S714     | FEH: 100 years: +45 %: 60 mins: Summer  | 60.335          | 57.230           | 59.389         | 2.159          | 130.9             | 3.090                     | 0.000                    | 136.4              | 339.599                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur I |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S712B    | FEH: 2 years: +0 %:<br>240 mins: Winter | 61.27<br>0      | 58.27<br>0       | 61.723         | 3.453          | 120.5             | 455.985                   | 452.592                  | 17.8               | 488.349                     | Flood  |
| S712A    | FEH: 2 years: +0 %:<br>240 mins: Winter | 59.85<br>0      | 58.07<br>0       | 58.121         | 0.051          | 17.8              | 0.058                     | 0.000                    | 17.8               | 487.551                     | OK     |
| S712     | FEH: 2 years: +0 %:<br>60 mins: Summer  | 59.97<br>5      | 55.12<br>0       | 55.495         | 0.375          | 111.7             | 0.662                     | 0.000                    | 110.8              | 420.682                     | OK     |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur I |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                              | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S712B    | FEH: 30 years: +0<br>%: 60 mins: Summer  | 61.27<br>0      | 58.27<br>0       | 62.062         | 3.792          | 693.8             | 795.375                   | 791.982                  | 18.5               | 127.900                     | Flood      |
| S712A    | FEH: 30 years: +0<br>%: 120 mins: Winter | 59.85<br>0      | 58.07<br>0       | 58.122         | 0.052          | 18.5              | 0.059                     | 0.000                    | 18.5               | 255.510                     | OK         |
| S712     | FEH: 30 years: +0<br>%: 60 mins: Summer  | 59.97<br>5      | 55.12<br>0       | 56.869         | 1.749          | 184.5             | 3.090                     | 0.000                    | 183.4              | 536.979                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur I |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S712B    | FEH: 30 years: +35 %: 60 mins: Summer | 61.270          | 58.270           | 62.365         | 4.095          | 936.6             | 1098.324                  | 1094.931                 | 18.5               | 128.676                     | Flood      |
| S712A    | FEH: 30 years: +35 %: 60 mins: Winter | 59.850          | 58.070           | 58.122         | 0.052          | 18.5              | 0.059                     | 0.000                    | 18.6               | 127.644                     | OK         |
| S712     | FEH: 30 years: +35 %: 60 mins: Summer | 59.975          | 55.120           | 57.483         | 2.363          | 206.6             | 4.176                     | 0.000                    | 203.6              | 602.962                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur I |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                  | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S712B    | FEH: 100 years: +0<br>%: 60 mins:<br>Summer  | 61.27<br>0      | 58.27<br>0       | 62.307         | 4.037          | 890.5             | 1040.760                  | 1037.367                 | 18.5               | 128.563                     | Flood      |
| S712A    | FEH: 100 years: +0<br>%: 120 mins:<br>Summer | 59.85<br>0      | 58.07<br>0       | 58.122         | 0.052          | 18.5              | 0.059                     | 0.000                    | 18.7               | 257.878                     | OK         |
| S712     | FEH: 100 years: +0<br>%: 60 mins:<br>Summer  | 59.97<br>5      | 55.12<br>0       | 57.347         | 2.227          | 201.0             | 3.935                     | 0.000                    | 198.5              | 590.690                     | Surcharged |

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| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur I |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                  | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S712B    | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 61.27<br>0      | 58.27<br>0       | 62.808         | 4.538          | 1291.2            | 1541.302                  | 1537.909                 | 18.5               | 129.218                     | Flood      |
| S712A    | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 59.85<br>0      | 58.07<br>0       | 58.536         | 0.466          | 22.1              | 0.527                     | 0.000                    | 26.9               | 128.479                     | Surcharged |
| S712     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 59.97<br>5      | 55.12<br>0       | 58.504         | 3.384          | 239.7             | 5.979                     | 0.000                    | 243.7              | 692.886                     | Surcharged |



|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur H |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S713A    | FEH: 2 years: +0 %:<br>60 mins: Summer | 59.70<br>0      | 55.42<br>0       | 59.890         | 4.470          | 191.6             | 194.502                   | 189.661                  | 12.0               | 82.905                      | Flood  |
| S713     | FEH: 2 years: +0 %:<br>60 mins: Summer | 59.94<br>0      | 55.19<br>0       | 55.556         | 0.366          | 90.2              | 0.523                     | 0.000                    | 87.9               | 295.964                     | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur H |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|--------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S713A    | FEH: 30 years: +0<br>%: 60 mins:<br>Summer | 59.70<br>0      | 55.42<br>0       | 60.190         | 4.770          | 434.0             | 494.906                   | 490.066                  | 12.0               | 83.828                      | Flood      |
| S713     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer | 59.94<br>0      | 55.19<br>0       | 57.043         | 1.853          | 152.4             | 2.652                     | 0.000                    | 151.4              | 395.213                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur H |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S713A    | FEH: 30 years: +35 %: 60 mins: Summer | 59.700          | 55.420           | 60.381         | 4.961          | 586.0             | 685.422                   | 680.581                  | 12.0               | 83.338                      | Flood      |
| S713     | FEH: 30 years: +35 %: 60 mins: Summer | 59.940          | 55.190           | 57.690         | 2.500          | 170.7             | 3.577                     | 0.000                    | 167.9              | 454.186                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur H |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                 | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|---------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S713A    | FEH: 100 years: +0<br>%: 60 mins:<br>Summer | 59.70<br>0      | 55.42<br>0       | 60.344         | 4.924          | 557.1             | 649.183                   | 644.343                  | 12.0               | 83.475                      | Flood      |
| S713     | FEH: 100 years: +0<br>%: 60 mins:<br>Summer | 59.94<br>0      | 55.19<br>0       | 57.545         | 2.355          | 169.4             | 3.370                     | 0.000                    | 163.3              | 443.200                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur H |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                  | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S713A    | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 59.70<br>0      | 55.42<br>0       | 60.660         | 5.240          | 807.8             | 964.481                   | 959.641                  | 12.0               | 81.755                      | Flood      |
| S713     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 59.94<br>0      | 55.19<br>0       | 58.781         | 3.591          | 209.0             | 5.139                     | 0.000                    | 202.2              | 534.766                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur G |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S711A    | FEH: 2 years: +0 %:<br>60 mins: Summer | 59.400          | 55.300           | 59.455         | 4.155          | 58.4              | 59.329                    | 54.692                   | 3.8                | 25.621                      | Flood  |
| S711     | FEH: 2 years: +0 %:<br>60 mins: Summer | 59.000          | 54.945           | 55.287         | 0.342          | 125.7             | 0.604                     | 0.000                    | 124.2              | 456.808                     | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur G |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|--------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S711A    | FEH: 30 years: +0<br>%: 60 mins:<br>Summer | 59.40<br>0      | 55.30<br>0       | 59.546         | 4.246          | 132.3             | 150.474                   | 145.837                  | 3.8                | 26.256                      | Flood      |
| S711     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer | 59.00<br>0      | 54.94<br>5       | 56.292         | 1.347          | 211.5             | 2.381                     | 0.000                    | 210.5              | 591.268                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur G |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S711A    | FEH: 30 years: +35 %: 60 mins: Summer | 59.400          | 55.300           | 59.604         | 4.304          | 178.6             | 208.405                   | 203.768                  | 3.8                | 26.231                      | Flood      |
| S711     | FEH: 30 years: +35 %: 60 mins: Summer | 59.000          | 54.945           | 56.795         | 1.850          | 239.5             | 3.269                     | 0.000                    | 237.2              | 668.430                     | Surcharged |



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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur G |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                 | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|---------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S711A    | FEH: 100 years: +0<br>%: 60 mins:<br>Summer | 59.40<br>0      | 55.30<br>0       | 59.593         | 4.293          | 169.8             | 197.388                   | 192.751                  | 3.8                | 26.250                      | Flood      |
| S711     | FEH: 100 years: +0<br>%: 60 mins:<br>Summer | 59.00<br>0      | 54.94<br>5       | 56.688         | 1.743          | 233.2             | 3.080                     | 0.000                    | 231.5              | 654.066                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur G |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                  | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S711A    | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 59.40<br>0      | 55.30<br>0       | 59.689         | 4.389          | 246.2             | 293.275                   | 288.638                  | 3.8                | 25.921                      | Flood      |
| S711     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 59.00<br>0      | 54.94<br>5       | 57.660         | 2.715          | 279.9             | 4.797                     | 0.000                    | 277.9              | 774.359                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur F |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S710A    | FEH: 2 years: +0 %:<br>360 mins: Summer | 58.70<br>0      | 55.18<br>5       | 58.735         | 3.550          | 13.0              | 38.508                    | 34.533                   | 2.2                | 73.563                      | Flood  |
| S710     | FEH: 2 years: +0 %:<br>60 mins: Summer  | 58.36<br>5      | 54.75<br>0       | 55.105         | 0.355          | 135.1             | 0.627                     | 0.000                    | 134.0              | 478.134                     | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur F |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S710A    | FEH: 30 years: +0 %: 240 mins: Winter | 58.700          | 55.185           | 58.787         | 3.602          | 20.9              | 90.860                    | 86.885                   | 2.2                | 59.666                      | Flood      |
| S710     | FEH: 30 years: +0 %: 60 mins: Summer  | 58.365          | 54.750           | 55.740         | 0.990          | 231.7             | 1.749                     | 0.000                    | 230.9              | 626.863                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
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| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur F |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S710A    | FEH: 30 years: +35 %: 120 mins: Summer | 58.700          | 55.185           | 58.814         | 3.629          | 63.4              | 118.103                   | 114.127                  | 2.2                | 30.013                      | Flood      |
| S710     | FEH: 30 years: +35 %: 60 mins: Summer  | 58.365          | 54.750           | 56.112         | 1.362          | 264.8             | 2.407                     | 0.000                    | 263.3              | 712.688                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur F |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S710A    | FEH: 100 years: +0 %: 240 mins: Summer | 58.700          | 55.185           | 58.815         | 3.630          | 38.6              | 118.656                   | 114.680                  | 2.2                | 60.549                      | Flood      |
| S710     | FEH: 100 years: +0 %: 60 mins: Summer  | 58.365          | 54.750           | 56.034         | 1.284          | 258.0             | 2.269                     | 0.000                    | 256.9              | 696.689                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur F |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                  | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S710A    | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 58.70<br>0      | 55.18<br>5       | 58.838         | 3.653          | 119.7             | 141.603                   | 137.628                  | 2.2                | 14.548                      | Flood      |
| S710     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 58.36<br>5      | 54.75<br>0       | 56.787         | 2.037          | 311.6             | 3.599                     | 0.000                    | 308.3              | 831.157                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur E |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S709A    | FEH: 2 years: +0 %:<br>360 mins: Summer | 57.80<br>0      | 55.05<br>0       | 57.849         | 2.799          | 15.6              | 52.296                    | 49.186                   | 1.9                | 78.292                      | Flood  |
| S709     | FEH: 2 years: +0 %:<br>60 mins: Summer  | 57.70<br>0      | 54.64<br>0       | 54.969         | 0.329          | 147.2             | 0.581                     | 0.000                    | 145.8              | 502.379                     | OK     |



|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur E |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S709A    | FEH: 30 years: +0 %: 360 mins: Winter | 57.800          | 55.050           | 57.917         | 2.867          | 18.6              | 119.973                   | 116.863                  | 1.9                | 81.135                      | Flood      |
| S709     | FEH: 30 years: +0 %: 60 mins: Summer  | 57.700          | 54.640           | 55.436         | 0.796          | 257.7             | 1.406                     | 0.000                    | 257.2              | 669.224                     | Surcharged |

|                                                                                       |                         |             |              |
|---------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          | Date:<br>01/09/2025     |             |              |
|                                                                                       | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur E | Revision:<br>Rev 1      |             |              |





FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S709A    | FEH: 30 years: +35 %: 480 mins: Winter | 57.800          | 55.050           | 57.974         | 2.924          | 20.2              | 177.545                   | 174.434                  | 2.0                | 109.563                     | Flood      |
| S709     | FEH: 30 years: +35 %: 60 mins: Summer  | 57.700          | 54.640           | 55.724         | 1.084          | 298.8             | 1.916                     | 0.000                    | 297.7              | 766.172                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur E |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S709A    | FEH: 100 years: +0 %: 480 mins: Winter | 57.800          | 55.050           | 57.957         | 2.907          | 18.7              | 159.978                   | 156.868                  | 2.0                | 109.161                     | Flood      |
| S709     | FEH: 100 years: +0 %: 60 mins: Summer  | 57.700          | 54.640           | 55.663         | 1.023          | 290.9             | 1.808                     | 0.000                    | 290.1              | 748.063                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur E |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S709A    | FEH: 100 years: +45 %: 960 mins: Winter | 57.800          | 55.050           | 58.060         | 3.010          | 16.2              | 263.471                   | 260.361                  | 2.0                | 221.822                     | Flood      |
| S709     | FEH: 100 years: +45 %: 60 mins: Summer  | 57.700          | 54.640           | 56.273         | 1.633          | 356.0             | 2.885                     | 0.000                    | 353.7              | 900.751                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur D |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S708B    | FEH: 2 years: +0 %:<br>240 mins: Winter | 58.35<br>0      | 55.37<br>0       | 58.770         | 3.400          | 111.1             | 423.400                   | 420.030                  | 16.2               | 443.458                     | Flood  |
| S708A    | FEH: 2 years: +0 %:<br>240 mins: Winter | 57.80<br>0      | 55.29<br>0       | 55.363         | 0.073          | 16.2              | 0.082                     | 0.000                    | 16.2               | 442.853                     | OK     |
| S708     | FEH: 2 years: +0 %:<br>60 mins: Summer  | 57.57<br>5      | 54.50<br>0       | 54.890         | 0.390          | 167.3             | 0.689                     | 0.000                    | 166.6              | 615.717                     | OK     |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur D |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S708B    | FEH: 30 years: +0 %: 120 mins: Summer | 58.350          | 55.370           | 59.210         | 3.840          | 467.1             | 863.210                   | 859.840                  | 16.9               | 234.663                     | Flood      |
| S708A    | FEH: 30 years: +0 %: 180 mins: Summer | 57.800          | 55.290           | 55.365         | 0.075          | 16.9              | 0.085                     | 0.000                    | 16.9               | 352.411                     | OK         |
| S708     | FEH: 30 years: +0 %: 60 mins: Summer  | 57.575          | 54.500           | 55.194         | 0.694          | 286.6             | 1.226                     | 0.000                    | 286.2              | 798.412                     | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur D |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S708B    | FEH: 30 years: +35 %: 60 mins: Summer  | 58.350          | 55.370           | 59.360         | 3.990          | 863.4             | 1013.383                  | 1010.013                 | 16.9               | 117.107                     | Flood      |
| S708A    | FEH: 30 years: +35 %: 120 mins: Summer | 57.800          | 55.290           | 55.366         | 0.076          | 16.9              | 0.085                     | 0.000                    | 16.9               | 235.187                     | OK         |
| S708     | FEH: 30 years: +35 %: 60 mins: Summer  | 57.575          | 54.500           | 55.401         | 0.901          | 329.8             | 1.593                     | 0.000                    | 329.0              | 902.081                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur D |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                  | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S708B    | FEH: 100 years: +0<br>%: 60 mins:<br>Summer  | 58.35<br>0      | 55.37<br>0       | 59.307         | 3.937          | 820.9             | 960.307                   | 956.936                  | 16.9               | 117.002                     | Flood      |
| S708A    | FEH: 100 years: +0<br>%: 180 mins:<br>Summer | 57.80<br>0      | 55.29<br>0       | 55.366         | 0.076          | 16.9              | 0.085                     | 0.000                    | 16.9               | 353.598                     | OK         |
| S708     | FEH: 100 years: +0<br>%: 60 mins:<br>Summer  | 57.57<br>5      | 54.50<br>0       | 55.356         | 0.856          | 321.7             | 1.512                     | 0.000                    | 321.1              | 882.781                     | Surcharged |



|                                                                                       |                         |             |              |
|---------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          | Date:<br>01/09/2025     |             |              |
|                                                                                       | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur D | Revision:<br>Rev 1      |             |              |





**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S708B    | FEH: 100 years: +45 %: 60 mins: Summer | 58.350          | 55.370           | 59.768         | 4.398          | 1190.3            | 1421.958                  | 1418.588                 | 16.9               | 117.389                     | Flood      |
| S708A    | FEH: 100 years: +45 %: 60 mins: Summer | 57.800          | 55.290           | 55.866         | 0.576          | 19.1              | 0.651                     | 0.000                    | 21.5               | 116.774                     | Surcharged |
| S708     | FEH: 100 years: +45 %: 60 mins: Summer | 57.575          | 54.500           | 55.829         | 1.329          | 392.5             | 2.349                     | 0.000                    | 390.9              | 1045.257                    | Surcharged |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur C |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S705A    | FEH: 2 years: +0 %:<br>360 mins: Winter | 56.50<br>0      | 54.82<br>0       | 56.638         | 1.818          | 24.5              | 139.841                   | 137.941                  | 3.5                | 146.937                     | Flood  |
| S705     | FEH: 2 years: +0 %:<br>60 mins: Summer  | 57.00<br>0      | 54.28<br>5       | 54.637         | 0.352          | 184.8             | 0.622                     | 0.000                    | 182.6              | 651.781                     | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur C |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S705A    | FEH: 30 years: +0 %: 480 mins: Winter | 56.500          | 54.820           | 56.808         | 1.988          | 35.8              | 309.500                   | 307.600                  | 3.7                | 203.711                     | Flood  |
| S705     | FEH: 30 years: +0 %: 60 mins: Summer  | 57.000          | 54.285           | 54.799         | 0.514          | 326.8             | 0.909                     | 0.000                    | 325.8              | 861.633                     | OK     |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur C |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S705A    | FEH: 30 years: +35 %: 720 mins: Winter | 56.500          | 54.820           | 56.954         | 2.134          | 35.5              | 455.895                   | 453.995                  | 3.8                | 313.501                     | Flood  |
| S705     | FEH: 30 years: +35 %: 60 mins: Summer  | 57.000          | 54.285           | 54.883         | 0.598          | 382.0             | 1.057                     | 0.000                    | 379.5              | 982.261                     | OK     |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur C |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S705A    | FEH: 100 years: +0 %: 720 mins: Winter | 56.500          | 54.820           | 56.913         | 2.093          | 33.1              | 415.389                   | 413.489                  | 3.8                | 311.045                     | Flood  |
| S705     | FEH: 100 years: +0 %: 60 mins: Summer  | 57.000          | 54.285           | 54.865         | 0.580          | 372.0             | 1.024                     | 0.000                    | 370.1              | 959.741                     | OK     |

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|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur C |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                    | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S705A    | FEH: 100 years:<br>+45 %: 1440 mins:<br>Winter | 56.50<br>0      | 54.82<br>0       | 57.176         | 2.356          | 28.8              | 678.438                   | 676.538                  | 4.0                | 642.000                     | Flood      |
| S705     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 57.00<br>0      | 54.28<br>5       | 55.066         | 0.781          | 462.1             | 1.380                     | 0.000                    | 460.5              | 1150.112                    | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur B |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S703A    | FEH: 2 years: +0 %:<br>240 mins: Winter | 56.20<br>0      | 54.73<br>0       | 56.225         | 1.495          | 7.7               | 26.144                    | 24.481                   | 1.4                | 39.156                      | Flood  |
| S703     | FEH: 2 years: +0 %:<br>60 mins: Summer  | 56.00<br>0      | 54.11<br>0       | 54.281         | 0.171          | 194.7             | 0.303                     | 0.000                    | 183.2              | 656.780                     | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur B |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S703A    | FEH: 30 years: +0 %: 360 mins: Winter | 56.200          | 54.730           | 56.261         | 1.531          | 10.7              | 62.393                    | 60.730                   | 1.5                | 60.701                      | Flood  |
| S703     | FEH: 30 years: +0 %: 60 mins: Summer  | 56.000          | 54.110           | 54.359         | 0.249          | 325.0             | 0.440                     | 0.000                    | 324.2              | 866.855                     | OK     |



|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur B |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S703A    | FEH: 30 years: +35 %: 360 mins: Winter | 56.200          | 54.730           | 56.292         | 1.562          | 14.4              | 93.579                    | 91.917                   | 1.5                | 61.610                      | Flood  |
| S703     | FEH: 30 years: +35 %: 60 mins: Summer  | 56.000          | 54.110           | 54.387         | 0.277          | 379.4             | 0.490                     | 0.000                    | 378.8              | 987.563                     | OK     |

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|---------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          | Date:<br>01/09/2025     |             |              |
|                                                                                       | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur B | Revision:<br>Rev 1      |             |              |



**FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S703A    | FEH: 100 years: +0 %: 360 mins: Winter | 56.200          | 54.730           | 56.282         | 1.552          | 13.2              | 83.821                    | 82.159                   | 1.5                | 61.340                      | Flood  |
| S703     | FEH: 100 years: +0 %: 60 mins: Summer  | 56.000          | 54.110           | 54.383         | 0.273          | 370.0             | 0.482                     | 0.000                    | 369.4              | 965.028                     | OK     |

|                                                                                       |                         |             |              |
|---------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          | Date:<br>01/09/2025     |             |              |
|                                                                                       | Designed by:<br>C. Salt | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur B | Revision:<br>Rev 1      |             |              |





**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S703A    | FEH: 100 years: +45 %: 600 mins: Winter | 56.200          | 54.730           | 56.336         | 1.606          | 13.2              | 137.606                   | 135.943                  | 1.5                | 104.050                     | Flood  |
| S703     | FEH: 100 years: +45 %: 60 mins: Summer  | 56.000          | 54.110           | 54.427         | 0.317          | 460.1             | 0.561                     | 0.000                    | 459.2              | 1155.568                    | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S702B    | FEH: 2 years: +0 %:<br>240 mins: Winter | 56.75<br>0      | 54.37<br>0       | 56.854         | 2.484          | 27.1              | 107.136                   | 104.444                  | 3.6                | 99.944                      | Flood  |
| S702A    | FEH: 2 years: +0 %:<br>240 mins: Winter | 56.30<br>0      | 54.24<br>5       | 54.271         | 0.026          | 3.6               | 0.030                     | 0.000                    | 3.6                | 99.814                      | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S702B    | FEH: 30 years: +0 %: 480 mins: Winter | 56.750          | 54.370           | 56.993         | 2.623          | 30.3              | 246.168                   | 243.476                  | 3.7                | 206.159                     | Flood  |
| S702A    | FEH: 30 years: +0 %: 360 mins: Winter | 56.300          | 54.245           | 54.352         | 0.107          | 3.7               | 0.120                     | 0.000                    | 3.7                | 154.483                     | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S702B    | FEH: 30 years: +35 %: 600 mins: Winter | 56.750          | 54.370           | 57.113         | 2.743          | 34.6              | 365.327                   | 362.635                  | 3.8                | 261.479                     | Flood      |
| S702A    | FEH: 30 years: +35 %: 600 mins: Winter | 56.300          | 54.245           | 54.512         | 0.267          | 3.8               | 0.302                     | 0.000                    | 3.8                | 260.712                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S702B    | FEH: 100 years: +0 %: 600 mins: Winter | 56.750          | 54.370           | 57.077         | 2.707          | 32.0              | 330.185                   | 327.493                  | 3.8                | 260.144                     | Flood      |
| S702A    | FEH: 100 years: +0 %: 600 mins: Winter | 56.300          | 54.245           | 54.509         | 0.264          | 3.8               | 0.299                     | 0.000                    | 3.8                | 259.384                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                   | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S702B    | FEH: 100 years:<br>+45 %: 480 mins:<br>Winter | 56.75<br>0      | 54.37<br>0       | 57.267         | 2.897          | 54.7              | 519.575                   | 516.883                  | 3.9                | 213.954                     | Flood      |
| S702A    | FEH: 100 years:<br>+45 %: 360 mins:<br>Winter | 56.30<br>0      | 54.24<br>5       | 54.456         | 0.211          | 3.9               | 0.239                     | 0.000                    | 4.0                | 160.345                     | Surcharged |



|                                                                                                 |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model                    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                           | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|---------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 7a            | FEH: 2 years: +0 %: 1440 mins: Winter | 54.315            | 54.315            | 0.765             | 0.765             | 101.3             | 1321.620                  | 0.000                    | 0.000                  | 72.3               | 5818.068                    | 75.223                   | OK     |

|                                                                                                 |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model                    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                            | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 7a            | FEH: 30 years: +0 %: 2160 mins: Summer | 54.552            | 54.552            | 1.002             | 1.002             | 117.1             | 2207.023                  | 0.000                    | 0.000                  | 74.2               | 11213.651                   | 58.623                   | OK     |

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|-------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model                    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                             | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 7a            | FEH: 30 years: +35 %: 2880 mins: Winter | 54.797            | 54.797            | 1.247             | 1.247             | 109.9             | 3213.991                  | 0.000                    | 0.000                  | 74.2               | 16315.396                   | 39.745                   | OK     |

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|-------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model                    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                             | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 7a            | FEH: 100 years: +0 %: 2880 mins: Winter | 54.740            | 54.740            | 1.190             | 1.190             | 103.8             | 2971.596                  | 0.000                    | 0.000                  | 74.2               | 15443.789                   | 44.290                   | OK     |

|                                                                                                 |  |                         |             |                                                                                     |              |
|-------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model                    |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                 |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Spur A |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                              | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 7a            | FEH: 100 years: +45 %: 5760 mins: Winter | 55.239            | 55.239            | 1.689             | 1.689             | 102.1             | 5279.412                  | 0.000                    | 0.000                  | 74.2               | 26518.986                   | 1.023                    | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur J |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S713B    | FEH: 2 years: +0 %:<br>60 mins: Summer | 60.20<br>0      | 55.60<br>5       | 60.220         | 4.615          | 25.9              | 25.065                    | 19.869                   | 2.2                | 14.062                      | Flood  |
| S713     | FEH: 2 years: +0 %:<br>60 mins: Summer | 59.94<br>0      | 55.19<br>0       | 55.556         | 0.366          | 90.2              | 0.523                     | 0.000                    | 87.9               | 295.964                     | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur J |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|--------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S713B    | FEH: 30 years: +0<br>%: 60 mins:<br>Summer | 60.20<br>0      | 55.60<br>5       | 60.260         | 4.655          | 58.6              | 65.146                    | 59.949                   | 2.2                | 14.647                      | Flood      |
| S713     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer | 59.94<br>0      | 55.19<br>0       | 57.043         | 1.853          | 152.4             | 2.652                     | 0.000                    | 151.4              | 395.213                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur J |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                 | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|---------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S713B    | FEH: 30 years: +35<br>%: 60 mins:<br>Summer | 60.20<br>0      | 55.60<br>5       | 60.285         | 4.680          | 79.1              | 90.678                    | 85.481                   | 2.2                | 14.657                      | Flood      |
| S713     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer | 59.94<br>0      | 55.19<br>0       | 57.690         | 2.500          | 170.7             | 3.577                     | 0.000                    | 167.9              | 454.186                     | Surcharged |



|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur J |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                              | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S713B    | FEH: 100 years: +0<br>%: 60 mins: Summer | 60.20<br>0      | 55.60<br>5       | 60.281         | 4.676          | 75.2              | 85.776                    | 80.579                   | 2.2                | 14.668                      | Flood      |
| S713     | FEH: 100 years: +0<br>%: 60 mins: Summer | 59.94<br>0      | 55.19<br>0       | 57.545         | 2.355          | 169.4             | 3.370                     | 0.000                    | 163.3              | 443.200                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur J |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                  | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S713B    | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 60.20<br>0      | 55.60<br>5       | 60.323         | 4.718          | 109.1             | 128.384                   | 123.187                  | 2.2                | 14.414                      | Flood      |
| S713     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer | 59.94<br>0      | 55.19<br>0       | 58.781         | 3.591          | 209.0             | 5.139                     | 0.000                    | 202.2              | 534.766                     | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur N |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S719A    | FEH: 2 years: +0 %:<br>360 mins: Winter | 61.00<br>0      | 58.30<br>0       | 61.074         | 2.774          | 15.3              | 76.670                    | 73.616                   | 2.9                | 117.525                     | Flood  |
| S719     | FEH: 2 years: +0 %:<br>60 mins: Summer  | 60.54<br>0      | 58.04<br>0       | 58.132         | 0.092          | 13.4              | 0.104                     | 0.000                    | 13.4               | 32.298                      | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur N |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                           | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|---------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S719A    | FEH: 30 years: +0 %: 360 mins: Winter | 61.000          | 58.300           | 61.174         | 2.874          | 27.6              | 177.292                   | 174.238                  | 2.9                | 121.869                     | Flood  |
| S719     | FEH: 30 years: +0 %: 60 mins: Summer  | 60.540          | 58.040           | 58.179         | 0.139          | 26.9              | 0.157                     | 0.000                    | 26.9               | 49.720                      | OK     |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur N |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S719A    | FEH: 30 years: +35 %: 480 mins: Winter | 61.000          | 58.300           | 61.259         | 2.959          | 30.0              | 262.465                   | 259.411                  | 3.0                | 164.932                     | Flood      |
| S719     | FEH: 30 years: +35 %: 60 mins: Summer  | 60.540          | 58.040           | 58.773         | 0.733          | 34.8              | 0.829                     | 0.000                    | 32.7               | 60.546                      | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur N |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S719A    | FEH: 100 years: +0 %: 480 mins: Winter | 61.000          | 58.300           | 61.233         | 2.933          | 27.7              | 236.398                   | 233.344                  | 3.0                | 164.152                     | Flood      |
| S719     | FEH: 100 years: +0 %: 60 mins: Summer  | 60.540          | 58.040           | 58.574         | 0.534          | 33.2              | 0.604                     | 0.000                    | 31.2               | 58.440                      | Surcharged |

|                                                                                       |  |                         |             |                                                                                     |              |
|---------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model          |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                       |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur N |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

| Junction | Storm Event                                   | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S719A    | FEH: 100 years:<br>+45 %: 960 mins:<br>Winter | 61.00<br>0      | 58.30<br>0       | 61.386         | 3.086          | 24.1              | 388.771                   | 385.717                  | 3.0                | 334.470                     | Flood      |
| S719     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer  | 60.54<br>0      | 58.04<br>0       | 60.151         | 2.111          | 44.2              | 2.387                     | 0.000                    | 34.5               | 76.894                      | Surcharged |

|                                                                                          |  |                         |             |                                                                                     |              |
|------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model             |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                          |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

| Junction | Storm Event                              | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S720     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 60.85<br>0      | 59.32<br>0       | 59.368         | 0.048          | 10.6              | 0.054                     | 0.000                    | 10.6               | 13.251                      | OK         |
| S719     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 60.54<br>0      | 58.04<br>0       | 58.132         | 0.092          | 13.4              | 0.104                     | 0.000                    | 13.4               | 32.298                      | OK         |
| S718     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 60.40<br>5      | 57.92<br>5       | 58.040         | 0.115          | 19.1              | 0.130                     | 0.000                    | 19.1               | 39.018                      | OK         |
| S717     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 60.78<br>5      | 57.78<br>5       | 57.895         | 0.110          | 37.3              | 0.195                     | 0.000                    | 37.3               | 121.632                     | OK         |
| S716     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 60.91<br>5      | 57.43<br>0       | 57.625         | 0.195          | 44.2              | 0.221                     | 0.000                    | 44.2               | 142.978                     | OK         |
| S715     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 60.65<br>5      | 57.31<br>5       | 57.501         | 0.186          | 49.6              | 0.210                     | 0.000                    | 49.6               | 149.043                     | OK         |
| S714     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 60.33<br>5      | 57.23<br>0       | 57.333         | 0.103          | 58.1              | 0.148                     | 0.000                    | 58.1               | 178.424                     | OK         |
| S713     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 59.94<br>0      | 55.19<br>0       | 55.556         | 0.366          | 90.2              | 0.523                     | 0.000                    | 87.9               | 295.964                     | OK         |
| S712     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 59.97<br>5      | 55.12<br>0       | 55.495         | 0.375          | 111.7             | 0.662                     | 0.000                    | 110.8              | 420.682                     | OK         |
| S711     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 59.00<br>0      | 54.94<br>5       | 55.287         | 0.342          | 125.7             | 0.604                     | 0.000                    | 124.2              | 456.808                     | OK         |
| S710     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 58.36<br>5      | 54.75<br>0       | 55.105         | 0.355          | 135.1             | 0.627                     | 0.000                    | 134.0              | 478.134                     | OK         |
| S709     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 57.70<br>0      | 54.64<br>0       | 54.969         | 0.329          | 147.2             | 0.581                     | 0.000                    | 145.8              | 502.379                     | OK         |
| S708     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 57.57<br>5      | 54.50<br>0       | 54.890         | 0.390          | 167.3             | 0.689                     | 0.000                    | 166.6              | 615.717                     | OK         |
| S707     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 57.66<br>0      | 54.48<br>0       | 54.842         | 0.362          | 175.2             | 0.640                     | 0.000                    | 174.3              | 624.480                     | OK         |
| S706     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 57.64<br>5      | 54.40<br>5       | 54.723         | 0.318          | 179.5             | 0.561                     | 0.000                    | 178.4              | 628.837                     | OK         |
| S705     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 57.00<br>0      | 54.28<br>5       | 54.637         | 0.352          | 184.8             | 0.622                     | 0.000                    | 182.6              | 651.781                     | OK         |
| S704     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 56.00<br>0      | 54.13<br>5       | 54.430         | 0.295          | 182.6             | 0.522                     | 0.000                    | 193.3              | 647.602                     | OK         |
| S703     | FEH: 2 years: +0 %:<br>60 mins: Summer   | 56.00<br>0      | 54.11<br>0       | 54.281         | 0.171          | 194.7             | 0.303                     | 0.000                    | 183.2              | 656.780                     | OK         |
| S702     | FEH: 2 years: +0 %:<br>1440 mins: Winter | 55.80<br>0      | 53.52<br>5       | 54.313         | 0.788          | 72.3              | 1.392                     | 0.000                    | 72.3               | 5818.064                    | Surcharged |
| S701     | FEH: 2 years: +0 %:<br>1440 mins: Winter | 54.70<br>0      | 53.37<br>5       | 53.711         | 0.336          | 72.3              | 0.380                     | 0.000                    | 72.3               | 5817.100                    | Surcharged |
| Outfall  | FEH: 2 years: +0 %:<br>1440 mins: Winter | 54.20<br>0      | 53.34<br>0       | 53.640         | 0.300          | 72.3              | 0.000                     | 0.000                    | 72.3               | 5817.100                    | OK         |



|                                                                                          |                         |             |              |                                                                                     |
|------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model             | Date:<br>01/09/2025     |             |              |  |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
|                                                                                          | Revision:<br>Rev 1      |             |              |                                                                                     |



**FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

|                                                                                          |  |  |  |                         |             |              |                                                                                     |  |
|------------------------------------------------------------------------------------------|--|--|--|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|--|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model             |  |  |  | Date:<br>01/09/2025     |             |              |  |  |
|                                                                                          |  |  |  | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |  |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  |  |  | Revision:<br>Rev 1      |             |              |                                                                                     |  |

| Junction | Storm Event                                  | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S720     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 60.85<br>0      | 59.32<br>0       | 59.392         | 0.072          | 24.0              | 0.082                     | 0.000                    | 24.0               | 30.006                      | OK         |
| S719     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 60.54<br>0      | 58.04<br>0       | 58.179         | 0.139          | 26.9              | 0.157                     | 0.000                    | 26.9               | 49.720                      | OK         |
| S718     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 60.40<br>5      | 57.92<br>5       | 58.102         | 0.177          | 39.6              | 0.201                     | 0.000                    | 39.6               | 65.292                      | OK         |
| S717     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 60.78<br>5      | 57.78<br>5       | 57.939         | 0.154          | 67.7              | 0.271                     | 0.000                    | 67.6               | 163.431                     | OK         |
| S716     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 60.91<br>5      | 57.43<br>0       | 57.852         | 0.422          | 79.6              | 0.477                     | 0.000                    | 78.5               | 192.388                     | Surcharged |
| S715     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 60.65<br>5      | 57.31<br>5       | 57.661         | 0.346          | 90.9              | 0.391                     | 0.000                    | 89.6               | 207.064                     | Surcharged |
| S714     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 60.33<br>5      | 57.23<br>0       | 57.443         | 0.213          | 104.4             | 0.305                     | 0.000                    | 97.5               | 245.026                     | OK         |
| S713     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 59.94<br>0      | 55.19<br>0       | 57.043         | 1.853          | 152.4             | 2.652                     | 0.000                    | 151.4              | 395.213                     | Surcharged |
| S712     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 59.97<br>5      | 55.12<br>0       | 56.869         | 1.749          | 184.5             | 3.090                     | 0.000                    | 183.4              | 536.979                     | Surcharged |
| S711     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 59.00<br>0      | 54.94<br>5       | 56.292         | 1.347          | 211.5             | 2.381                     | 0.000                    | 210.5              | 591.268                     | Surcharged |
| S710     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 58.36<br>5      | 54.75<br>0       | 55.740         | 0.990          | 231.7             | 1.749                     | 0.000                    | 230.9              | 626.863                     | Surcharged |
| S709     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 57.70<br>0      | 54.64<br>0       | 55.436         | 0.796          | 257.7             | 1.406                     | 0.000                    | 257.2              | 669.224                     | Surcharged |
| S708     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 57.57<br>5      | 54.50<br>0       | 55.194         | 0.694          | 286.6             | 1.226                     | 0.000                    | 286.2              | 798.412                     | Surcharged |
| S707     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 57.66<br>0      | 54.48<br>0       | 55.120         | 0.640          | 305.9             | 1.130                     | 0.000                    | 305.4              | 820.821                     | Surcharged |
| S706     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 57.64<br>5      | 54.40<br>5       | 54.944         | 0.539          | 317.1             | 0.952                     | 0.000                    | 316.8              | 833.314                     | Surcharged |
| S705     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 57.00<br>0      | 54.28<br>5       | 54.799         | 0.514          | 326.8             | 0.909                     | 0.000                    | 325.8              | 861.633                     | OK         |
| S704     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 56.00<br>0      | 54.13<br>5       | 54.509         | 0.374          | 325.8             | 0.661                     | 0.000                    | 323.6              | 857.263                     | OK         |
| S703     | FEH: 30 years: +0<br>%: 60 mins:<br>Summer   | 56.00<br>0      | 54.11<br>0       | 54.359         | 0.249          | 325.0             | 0.440                     | 0.000                    | 324.2              | 866.855                     | OK         |
| S702     | FEH: 30 years: +0<br>%: 2160 mins:<br>Winter | 55.80<br>0      | 53.52<br>5       | 54.527         | 1.002          | 74.2              | 1.771                     | 0.000                    | 74.2               | 10888.170                   | Surcharged |
| S701     | FEH: 30 years: +0<br>%: 2160 mins:<br>Winter | 54.70<br>0      | 53.37<br>5       | 53.715         | 0.340          | 74.2              | 0.384                     | 0.000                    | 74.2               | 10887.157                   | Surcharged |
| Outfall  | FEH: 30 years: +0<br>%: 2160 mins:<br>Winter | 54.20<br>0      | 53.34<br>0       | 53.640         | 0.300          | 74.2              | 0.000                     | 0.000                    | 74.2               | 10887.157                   | OK         |

|                                                                                          |                         |             |              |                                                                                     |
|------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model             | Date:<br>01/09/2025     |             |              |  |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
|                                                                                          | Revision:<br>Rev 1      |             |              |                                                                                     |



**FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Outflow**

|                                                                                          |  |  |  |                         |             |              |                                                                                     |  |
|------------------------------------------------------------------------------------------|--|--|--|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|--|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model             |  |  |  | Date:<br>01/09/2025     |             |              |  |  |
|                                                                                          |  |  |  | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |  |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  |  |  | Revision:<br>Rev 1      |             |              |                                                                                     |  |

| Junction | Storm Event                                   | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S720     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 60.85<br>0      | 59.32<br>0       | 59.404         | 0.084          | 32.4              | 0.095                     | 0.000                    | 32.4               | 40.459                      | OK         |
| S719     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 60.54<br>0      | 58.04<br>0       | 58.773         | 0.733          | 34.8              | 0.829                     | 0.000                    | 32.7               | 60.546                      | Surcharged |
| S718     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 60.40<br>5      | 57.92<br>5       | 58.745         | 0.820          | 49.8              | 0.928                     | 0.000                    | 47.0               | 81.578                      | Surcharged |
| S717     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 60.78<br>5      | 57.78<br>5       | 58.679         | 0.894          | 81.2              | 1.579                     | 0.000                    | 68.8               | 188.615                     | Surcharged |
| S716     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 60.91<br>5      | 57.43<br>0       | 58.561         | 1.131          | 85.0              | 1.279                     | 0.000                    | 84.9               | 222.170                     | Surcharged |
| S715     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 60.65<br>5      | 57.31<br>5       | 58.373         | 1.058          | 98.6              | 1.196                     | 0.000                    | 97.0               | 242.025                     | Surcharged |
| S714     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 60.33<br>5      | 57.23<br>0       | 58.170         | 0.940          | 115.6             | 1.345                     | 0.000                    | 115.3              | 285.068                     | Surcharged |
| S713     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 59.94<br>0      | 55.19<br>0       | 57.690         | 2.500          | 170.7             | 3.577                     | 0.000                    | 167.9              | 454.186                     | Surcharged |
| S712     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 59.97<br>5      | 55.12<br>0       | 57.483         | 2.363          | 206.6             | 4.176                     | 0.000                    | 203.6              | 602.962                     | Surcharged |
| S711     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 59.00<br>0      | 54.94<br>5       | 56.795         | 1.850          | 239.5             | 3.269                     | 0.000                    | 237.2              | 668.430                     | Surcharged |
| S710     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 58.36<br>5      | 54.75<br>0       | 56.112         | 1.362          | 264.8             | 2.407                     | 0.000                    | 263.3              | 712.688                     | Surcharged |
| S709     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 57.70<br>0      | 54.64<br>0       | 55.724         | 1.084          | 298.8             | 1.916                     | 0.000                    | 297.7              | 766.172                     | Surcharged |
| S708     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 57.57<br>5      | 54.50<br>0       | 55.401         | 0.901          | 329.8             | 1.593                     | 0.000                    | 329.0              | 902.081                     | Surcharged |
| S707     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 57.66<br>0      | 54.48<br>0       | 55.300         | 0.820          | 355.6             | 1.450                     | 0.000                    | 354.8              | 933.073                     | Surcharged |
| S706     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 57.64<br>5      | 54.40<br>5       | 55.066         | 0.661          | 370.6             | 1.167                     | 0.000                    | 369.9              | 950.676                     | Surcharged |
| S705     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 57.00<br>0      | 54.28<br>5       | 54.883         | 0.598          | 382.0             | 1.057                     | 0.000                    | 379.5              | 982.261                     | OK         |
| S704     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 56.00<br>0      | 54.13<br>5       | 54.546         | 0.411          | 379.5             | 0.727                     | 0.000                    | 377.9              | 977.867                     | OK         |
| S703     | FEH: 30 years: +35<br>%: 60 mins:<br>Summer   | 56.00<br>0      | 54.11<br>0       | 54.387         | 0.277          | 379.4             | 0.490                     | 0.000                    | 378.8              | 987.563                     | OK         |
| S702     | FEH: 30 years: +35<br>%: 1440 mins:<br>Summer | 55.80<br>0      | 53.52<br>5       | 54.713         | 1.188          | 74.2              | 2.100                     | 0.000                    | 74.2               | 11755.021                   | Surcharged |
| S701     | FEH: 30 years: +35<br>%: 720 mins:<br>Summer  | 54.70<br>0      | 53.37<br>5       | 53.715         | 0.340          | 74.2              | 0.384                     | 0.000                    | 74.2               | 5841.387                    | Surcharged |
| Outfall  | FEH: 30 years: +35<br>%: 2880 mins:<br>Summer | 54.20<br>0      | 53.34<br>0       | 53.640         | 0.300          | 74.2              | 0.000                     | 0.000                    | 74.2               | 16314.630                   | OK         |

|                                                                                          |                         |             |              |                                                                                     |
|------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model             | Date:<br>01/09/2025     |             |              |  |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
|                                                                                          | Revision:<br>Rev 1      |             |              |                                                                                     |



**FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow**

|                                                                                          |  |  |  |                     |             |              |                                                                                     |  |
|------------------------------------------------------------------------------------------|--|--|--|---------------------|-------------|--------------|-------------------------------------------------------------------------------------|--|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model             |  |  |  | Date:<br>01/09/2025 |             |              |  |  |
|                                                                                          |  |  |  | Designed by:        | Checked by: | Approved By: |                                                                                     |  |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  |  |  | Revision:<br>Rev 1  |             |              |                                                                                     |  |

| Junction | Storm Event                                | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|--------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S720     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 60.85<br>0      | 59.32<br>0       | 59.402         | 0.082          | 30.8              | 0.093                     | 0.000                    | 30.8               | 38.464                      | OK         |
| S719     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 60.54<br>0      | 58.04<br>0       | 58.574         | 0.534          | 33.2              | 0.604                     | 0.000                    | 31.2               | 58.440                      | Surcharged |
| S718     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 60.40<br>5      | 57.92<br>5       | 58.549         | 0.624          | 47.5              | 0.705                     | 0.000                    | 44.5               | 78.509                      | Surcharged |
| S717     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 60.78<br>5      | 57.78<br>5       | 58.487         | 0.702          | 77.5              | 1.241                     | 0.000                    | 70.4               | 183.941                     | Surcharged |
| S716     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 60.91<br>5      | 57.43<br>0       | 58.374         | 0.944          | 83.6              | 1.068                     | 0.000                    | 83.1               | 216.558                     | Surcharged |
| S715     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 60.65<br>5      | 57.31<br>5       | 58.196         | 0.881          | 98.9              | 0.996                     | 0.000                    | 95.5               | 235.520                     | Surcharged |
| S714     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 60.33<br>5      | 57.23<br>0       | 58.003         | 0.773          | 113.5             | 1.106                     | 0.000                    | 112.1              | 277.628                     | Surcharged |
| S713     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 59.94<br>0      | 55.19<br>0       | 57.545         | 2.355          | 169.4             | 3.370                     | 0.000                    | 163.3              | 443.200                     | Surcharged |
| S712     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 59.97<br>5      | 55.12<br>0       | 57.347         | 2.227          | 201.0             | 3.935                     | 0.000                    | 198.5              | 590.690                     | Surcharged |
| S711     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 59.00<br>0      | 54.94<br>5       | 56.688         | 1.743          | 233.2             | 3.080                     | 0.000                    | 231.5              | 654.066                     | Surcharged |
| S710     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 58.36<br>5      | 54.75<br>0       | 56.034         | 1.284          | 258.0             | 2.269                     | 0.000                    | 256.9              | 696.689                     | Surcharged |
| S709     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 57.70<br>0      | 54.64<br>0       | 55.663         | 1.023          | 290.9             | 1.808                     | 0.000                    | 290.1              | 748.063                     | Surcharged |
| S708     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 57.57<br>5      | 54.50<br>0       | 55.356         | 0.856          | 321.7             | 1.512                     | 0.000                    | 321.1              | 882.781                     | Surcharged |
| S707     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 57.66<br>0      | 54.48<br>0       | 55.260         | 0.780          | 346.3             | 1.379                     | 0.000                    | 345.7              | 912.132                     | Surcharged |
| S706     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 57.64<br>5      | 54.40<br>5       | 55.039         | 0.634          | 360.8             | 1.120                     | 0.000                    | 360.2              | 928.776                     | Surcharged |
| S705     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 57.00<br>0      | 54.28<br>5       | 54.865         | 0.580          | 372.0             | 1.024                     | 0.000                    | 370.1              | 959.741                     | OK         |
| S704     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 56.00<br>0      | 54.13<br>5       | 54.540         | 0.405          | 370.1             | 0.716                     | 0.000                    | 368.6              | 955.396                     | OK         |
| S703     | FEH: 100 years: +0<br>%: 60 mins: Summer   | 56.00<br>0      | 54.11<br>0       | 54.383         | 0.273          | 370.0             | 0.482                     | 0.000                    | 369.4              | 965.028                     | OK         |
| S702     | FEH: 100 years: +0<br>%: 2160 mins: Summer | 55.80<br>0      | 53.52<br>5       | 54.694         | 1.169          | 74.2              | 2.065                     | 0.000                    | 74.2               | 14242.316                   | Surcharged |
| S701     | FEH: 100 years: +0<br>%: 2160 mins: Summer | 54.70<br>0      | 53.37<br>5       | 53.715         | 0.340          | 74.2              | 0.384                     | 0.000                    | 74.2               | 14241.286                   | Surcharged |
| Outfall  | FEH: 100 years: +0<br>%: 2160 mins: Summer | 54.20<br>0      | 53.34<br>0       | 53.640         | 0.300          | 74.2              | 0.000                     | 0.000                    | 74.2               | 14241.286                   | OK         |

|                                                                                          |                         |             |              |                                                                                     |
|------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model             | Date:<br>01/09/2025     |             |              |  |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
|                                                                                          | Revision:<br>Rev 1      |             |              |                                                                                     |



**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow**

|                                                                                          |  |  |  |                     |             |              |                                                                                     |  |
|------------------------------------------------------------------------------------------|--|--|--|---------------------|-------------|--------------|-------------------------------------------------------------------------------------|--|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model             |  |  |  | Date:<br>01/09/2025 |             |              |  |  |
|                                                                                          |  |  |  | Designed by:        | Checked by: | Approved By: |                                                                                     |  |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  |  |  | Revision:<br>Rev 1  |             |              |                                                                                     |  |

| Junction | Storm Event                                    | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S720     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 60.85<br>0      | 59.32<br>0       | 60.325         | 1.005          | 44.7              | 1.137                     | 0.000                    | 44.2               | 55.752                      | Surcharged |
| S719     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 60.54<br>0      | 58.04<br>0       | 60.151         | 2.111          | 44.2              | 2.387                     | 0.000                    | 34.5               | 76.894                      | Surcharged |
| S718     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 60.40<br>5      | 57.92<br>5       | 60.117         | 2.192          | 56.2              | 2.479                     | 0.000                    | 51.3               | 104.638                     | Flood Risk |
| S717     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 60.78<br>5      | 57.78<br>5       | 60.036         | 2.251          | 86.9              | 3.978                     | 0.000                    | 82.5               | 221.484                     | Surcharged |
| S716     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 60.91<br>5      | 57.43<br>0       | 59.883         | 2.453          | 98.3              | 2.775                     | 0.000                    | 100.4              | 262.447                     | Surcharged |
| S715     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 60.65<br>5      | 57.31<br>5       | 59.648         | 2.333          | 113.5             | 2.639                     | 0.000                    | 115.0              | 288.720                     | Surcharged |
| S714     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 60.33<br>5      | 57.23<br>0       | 59.389         | 2.159          | 130.9             | 3.090                     | 0.000                    | 136.4              | 339.599                     | Surcharged |
| S713     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 59.94<br>0      | 55.19<br>0       | 58.781         | 3.591          | 209.0             | 5.139                     | 0.000                    | 202.2              | 534.766                     | Surcharged |
| S712     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 59.97<br>5      | 55.12<br>0       | 58.504         | 3.384          | 239.7             | 5.979                     | 0.000                    | 243.7              | 692.886                     | Surcharged |
| S711     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 59.00<br>0      | 54.94<br>5       | 57.660         | 2.715          | 279.9             | 4.797                     | 0.000                    | 277.9              | 774.359                     | Surcharged |
| S710     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 58.36<br>5      | 54.75<br>0       | 56.787         | 2.037          | 311.6             | 3.599                     | 0.000                    | 308.3              | 831.157                     | Surcharged |
| S709     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 57.70<br>0      | 54.64<br>0       | 56.273         | 1.633          | 356.0             | 2.885                     | 0.000                    | 353.7              | 900.751                     | Surcharged |
| S708     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 57.57<br>5      | 54.50<br>0       | 55.829         | 1.329          | 392.5             | 2.349                     | 0.000                    | 390.9              | 1045.257                    | Surcharged |
| S707     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 57.66<br>0      | 54.48<br>0       | 55.687         | 1.207          | 427.5             | 2.133                     | 0.000                    | 426.1              | 1088.791                    | Surcharged |
| S706     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 57.64<br>5      | 54.40<br>5       | 55.339         | 0.934          | 447.9             | 1.651                     | 0.000                    | 446.9              | 1113.884                    | Surcharged |
| S705     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 57.00<br>0      | 54.28<br>5       | 55.066         | 0.781          | 462.1             | 1.380                     | 0.000                    | 460.5              | 1150.112                    | Surcharged |
| S704     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 56.00<br>0      | 54.13<br>5       | 54.602         | 0.467          | 460.5             | 0.826                     | 0.000                    | 458.6              | 1145.692                    | OK         |
| S703     | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer   | 56.00<br>0      | 54.11<br>0       | 54.427         | 0.317          | 460.1             | 0.561                     | 0.000                    | 459.2              | 1155.568                    | OK         |
| S702     | FEH: 100 years:<br>+45 %: 5760 mins:<br>Winter | 55.80<br>0      | 53.52<br>5       | 55.237         | 1.712          | 74.2              | 3.024                     | 0.000                    | 74.2               | 26518.984                   | Surcharged |
| S701     | FEH: 100 years:<br>+45 %: 480 mins:<br>Summer  | 54.70<br>0      | 53.37<br>5       | 53.715         | 0.340          | 74.2              | 0.384                     | 0.000                    | 74.2               | 3842.600                    | Surcharged |
| Outfall  | FEH: 100 years:<br>+45 %: 480 mins:<br>Summer  | 54.20<br>0      | 53.34<br>0       | 53.640         | 0.300          | 74.2              | 0.000                     | 0.000                    | 74.2               | 3842.600                    | OK         |



|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model                       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                           | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|---------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 7a            | FEH: 2 years: +0 %: 1440 mins: Winter | 54.315            | 54.315            | 0.765             | 0.765             | 101.3             | 1321.620                  | 0.000                    | 0.000                  | 72.3               | 5818.068                    | 75.223                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model                       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                            | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 7a            | FEH: 30 years: +0 %: 2160 mins: Summer | 54.552            | 54.552            | 1.002             | 1.002             | 117.1             | 2207.023                  | 0.000                    | 0.000                  | 74.2               | 11213.651                   | 58.623                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model                       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                             | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 7a            | FEH: 30 years: +35 %: 2880 mins: Winter | 54.797            | 54.797            | 1.247             | 1.247             | 109.9             | 3213.991                  | 0.000                    | 0.000                  | 74.2               | 16315.396                   | 39.745                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model                       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                             | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 7a            | FEH: 100 years: +0 %: 2880 mins: Winter | 54.740            | 54.740            | 1.190             | 1.190             | 103.8             | 2971.596                  | 0.000                    | 0.000                  | 74.2               | 15443.789                   | 44.290                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model                       |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |

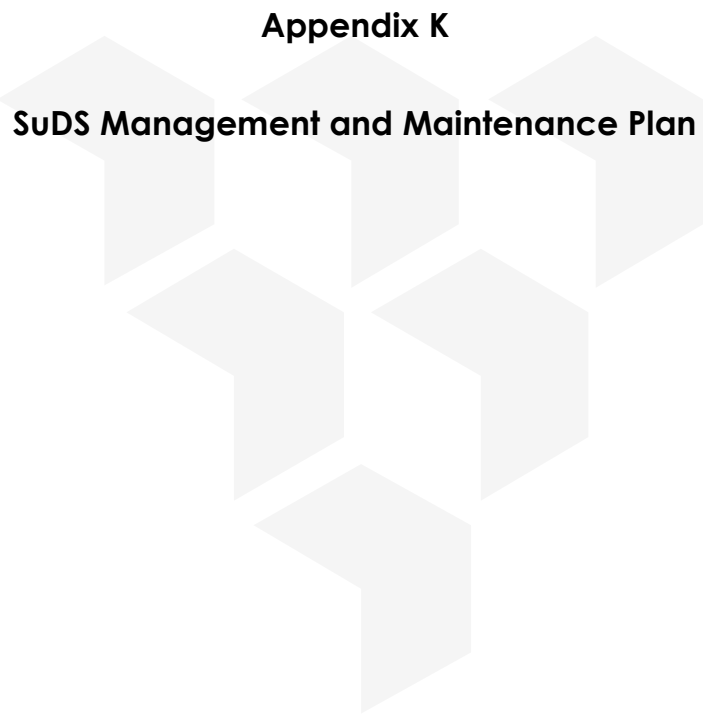


**FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                              | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 7a            | FEH: 100 years: +45 %: 5760 mins: Winter | 55.239            | 55.239            | 1.689             | 1.689             | 102.1             | 5279.412                  | 0.000                    | 0.000                  | 74.2               | 26518.986                   | 1.023                    | OK     |

## **Appendix K**

### **SuDS Management and Maintenance Plan**



## **Mowbray, North Horsham, West Sussex (Phase 2)**

### **Phase 2 – SuDS Management and Maintenance Plan**

#### **1.0 Site and Drainage Description**

- 1.1 The wider Mowbray development at North Horsham is currently under construction with various applications for the approval of reserved matters for individual infrastructure elements and sub-phases, both under consideration and determined.
- 1.2 This SuDS Management and Maintenance Plan relates to the drainage infrastructure proposed as part of Phase 2 of the development.
- 1.3 Surface water run-off generated by the Phase 2 of the development will be discharged to the existing network of watercourses running through and around Phase 2, utilising attenuation provided by basins located across the phase and serving various land parcels.
- 1.4 Foul effluent generated by the residential parcels will be conveyed by gravity sewer networks, which will gravitate flows to the various pump stations proposed.
- 1.5 This plan should be read alongside the accompanying drainage reports for the various applications submitted for individual infrastructure elements and residential parcels located across Phase 2. This SuDS Management and Maintenance Plan does not constitute a complete maintenance schedule and should be developed at the appropriate design stage, taking into account advice and recommendations from system manufacturers and installers. Appropriate health and safety measures should also be put in place.

#### **2.0 Management Responsibilities**

- 2.1 The proposed surface water pipe network and associated drainage infrastructure serving the development parcels of Phase 2 are to be adopted by the sewerage undertaker, which will have the responsibility to keep them maintained. There are some exceptions to this where small sections of proposed surface water drainage infrastructure will remain private. The accompanying drainage reports for the various applications submitted for individual infrastructure elements and development parcels should be referred to.
- 2.2 Gullies, gully connections and other surface water drainage infrastructure solely serving highway land are to be adopted by West Sussex County Council (WSCC) in its role as highway authority. Surface water drainage infrastructure adopted by WSCC will be their responsibility to maintain.
- 2.3 Foul water drainage infrastructure constructed as part of Phase 2 and serving the residential parcels are to be adopted by the sewerage undertaker and will have the responsibility to keep them maintained.
- 2.4 All attenuation basins will remain private and be the responsibility of a management company to maintain.

### 3.0 Maintenance Activities

- 3.1 This section details the type and frequency of maintenance activities for the drainage infrastructure which will be implemented as part of Phase 2 of the Mowbray development.

*Conventional Pipe Network / Inspection Chambers / Catchpits / Gullies*

- 3.2 Piped network components require regular inspection and maintenance to ensure that the individual components continue to operate as designed, both in terms of hydraulic capacity and potential pollutant removal. All gullies, inspection chambers and catchpits will therefore be inspected and cleaned regularly, with typical maintenance activities detailed in Table 1.

*Table 1: Conventional Pipe Network / Inspection Chambers / Gullies – Typical Maintenance Activities*

| Maintenance Schedule              | Maintenance Activity                                                                                                                | Inspection Frequency                               |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Regular Maintenance               | Inspect and identify any features that are not operating correctly. If required, take remedial action.                              | Monthly (for first three months), then six monthly |
|                                   | Remove debris from catchment surface / gratings (where it may cause risk to performance).                                           | Quarterly and after large storms                   |
|                                   | Inspect and remove sediment, debris, and silt from gullies, silt traps, and catchpit chambers.                                      | Annually, or as required                           |
|                                   | Inspect pipework for blockages, root ingress, displaced joints, or other signs of differential settlement.                          | Annually, or as required                           |
| Remedial Actions                  | Clear pipework of blockages, root ingress, repair joints or repair other signs of differential settlement.                          | As required                                        |
|                                   | Replacement of gullies / pipe system.                                                                                               | As required                                        |
|                                   | Repair / rehabilitation of gratings, inlets and outlets.                                                                            | As required                                        |
| Monitoring                        | Inspect / check all gratings, manholes, gullies, and catchpits to ensure that they are in good condition and operating as designed. | Annually and after large storm events              |
| Structure Rehabilitation / Repair | Regular maintenance and monitoring to identify if repair and / or replacement of features or pipe system is required.               | As required                                        |



## Attenuation Basin

- 3.3 Attenuation basins are landscaped depressions which surface water is attenuated within prior to being discharged to the network of watercourses running through and around Phase 2 of the Mowbray development. To ensure the effective operation of the basins with limited erosion and silt accumulation, regular inspection and maintenance is required including the typical maintenance activities detailed in Table 2.

Table 2: Attenuation Basins – Typical Maintenance Activities

| Maintenance Schedule   | Maintenance Activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Inspection Frequency                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Regular Maintenance    | Mow grass access paths and verges surrounding basins, at 35mm-50mm minimum and 75mm maximum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Monthly (during growing season), or as required                                                                       |
|                        | Mow rough grass areas for occasional access or habitat reasons at 100mm and 150mm maximum with cutting removed to wildlife piles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | As required                                                                                                           |
|                        | Manage other vegetation and remove nuisance plants.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Monthly (for first three months, then as required)                                                                    |
|                        | Inspect for signs of clogging and remove any litter / debris found.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Monthly, or as required                                                                                               |
|                        | Inspect and clear inlets, outlets, and overflows of any blockages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Annually, or as required                                                                                              |
|                        | Inspect inlets and pre-treatment systems for silt accumulation; establish appropriate silt removal frequencies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Monthly (for first year), then annually, or as required                                                               |
|                        | Inspect banksides for evidence of physical damage and repair as appropriate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Annually, or as required                                                                                              |
|                        | Cut (trim) wetland vegetation at 100mm and remove cuttings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Annually, or as required                                                                                              |
|                        | Reseed areas of poor vegetation growth.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | As required                                                                                                           |
|                        | Prune and trim any trees and remove cuttings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Every 2 years, or as required                                                                                         |
| Occasional Maintenance | Where silt accumulates on apron or area in front of inlet or outlet then remove and spread above design profile of SuDS. Where silt accumulates more than 150mm in base of basins undertake a phased removal of silt subject to Client approval. Remove silt but not more than 30% of basin area at any one time and to an agreed depth. Retain as much representative existing vegetation as possible to ensure rapid re-colonisation of open areas. Stack excavated material adjacent to basin to allow de-watering of silt. Undertake silt removal during September-October to minimise damage to protected wildlife and ensure re-growth of aquatic vegetation before winter. Spread excavated material on site above SUDS design profile. | Every 3 years, or as required (likely to be minimal requirements where effective upstream source control is provided) |
| Remedial Actions       | Repair erosion or other damage by reseedling or re-turfing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | As required                                                                                                           |

### Inlet / Outlets / Controls

- 3.4 Headwalls, flow control chambers and outfalls direct the flow in and control the flow rate out of the proposed basins across Phase 2. To prevent surface water exceedance, regular inspection and maintenance of these structures are required to remove potential blockages and ensure the intended design flow rates are achieved. Typical maintenance activities for these structures are included in Table 3.

Table 3: Inlets / Outlets / Flow Control Devices\* – Typical Maintenance Activities

| Maintenance Schedule   | Maintenance Activity                                                                                 | Inspection Frequency            |
|------------------------|------------------------------------------------------------------------------------------------------|---------------------------------|
| Regular Maintenance    | Inspect control chamber and remove any sediment, debris, and silt to ensure water is flowing freely. | Quarterly, or as required       |
|                        | Inspect chamber and incoming / outgoing pipework for blockage or root ingress.                       | Six monthly, or as required     |
|                        | Inspect surface structures for physical damage.                                                      | Quarterly, or as required       |
|                        | Cut (Strim) vegetation 1m minimum from the surround of structures.                                   | Six monthly (spring and autumn) |
|                        | Remove debris and silt from hard head wall aprons.                                                   | Quarterly, or as required       |
|                        | Inspect and clear headwall grills.                                                                   | Quarterly, or as required       |
|                        | Undertake general inspection after Autumn leaf fall.                                                 | Annually                        |
| Occasional Maintenance | Check topsoil levels are 20mm above chamber edges to avoid mower damage.                             | As required                     |
| Remedial Actions       | Clear chamber and incoming / outgoing pipework of blockages.                                         | As required                     |
|                        | Repair physical damage or replace missing grills or controls.                                        | As required                     |

\*Refer to manufacturer's guidance for specific maintenance instructions

## **Appendix L**

### **Catchment 6 and 7 – Surcharged Outfall Calculations**

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Network Design Criteria<br>Storm Phase: Phase                             |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |

### Flow Options

|                           |                               |
|---------------------------|-------------------------------|
| Peak Flow Calculation     | (UK) Modified Rational Method |
| Min. Time of Entry (mins) | 5                             |
| Max. Travel Time (mins)   | 30                            |

### Pipe Options

|                       |                          |
|-----------------------|--------------------------|
| Lock Slope Options    | None                     |
| Design Options        | Minimise Excavation      |
| Design Level          | Level Soffits            |
| Min. Cover Depth (m)  | 1.200                    |
| Min. Slope (1:X)      | 500.00                   |
| Max. Slope (1:X)      | 40.00                    |
| Min. Velocity (m/s)   | 1.0                      |
| Max. Velocity (m/s)   | 3.0                      |
| Use Flow Restriction  | <input type="checkbox"/> |
| Reduce Channel Depths | <input type="checkbox"/> |

### Manhole Options

|              |                          |
|--------------|--------------------------|
| Apply Offset | <input type="checkbox"/> |
|--------------|--------------------------|

|                                                                                                    |                         |             |              |                                                                                     |
|----------------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall | Date:<br>27/08/2025     |             |              |  |
| Report Details:<br>Type: Outfall Details<br>Storm Phase: Phase                                     | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
| Revision:<br>Rev 3                                                                                 |                         |             |              |                                                                                     |

## Outfalls

| Outfall                                    | Outfall Type           | Gated                               | Fixed Surcharged Level (m) | Level Curve |
|--------------------------------------------|------------------------|-------------------------------------|----------------------------|-------------|
| S20                                        | Free Discharge         |                                     |                            |             |
| HW6                                        | Fixed Surcharged Level | <input checked="" type="checkbox"/> | 52.750                     |             |
| FEH22 : 2 years: +0 %: 120 mins: Summer    |                        |                                     | 52.750                     |             |
| FEH22 : 2 years: +0 %: 120 mins: Winter    |                        |                                     | 52.750                     |             |
| FEH22 : 30 years: +0 %: 120 mins: Summer   |                        |                                     | 52.750                     |             |
| FEH22 : 30 years: +0 %: 120 mins: Winter   |                        |                                     | 52.750                     |             |
| FEH22 : 100 years: +20 %: 120 mins: Summer |                        |                                     | 52.750                     |             |
| FEH22 : 100 years: +20 %: 120 mins: Winter |                        |                                     | 52.750                     |             |
| FEH22 : 2 years: +0 %: 180 mins: Summer    |                        |                                     | 52.750                     |             |
| FEH22 : 2 years: +0 %: 180 mins: Winter    |                        |                                     | 52.750                     |             |
| FEH22 : 30 years: +0 %: 180 mins: Summer   |                        |                                     | 52.750                     |             |
| FEH22 : 30 years: +0 %: 180 mins: Winter   |                        |                                     | 52.750                     |             |
| FEH22 : 100 years: +20 %: 180 mins: Summer |                        |                                     | 52.750                     |             |
| FEH22 : 100 years: +20 %: 180 mins: Winter |                        |                                     | 52.750                     |             |
| FEH22 : 2 years: +0 %: 240 mins: Summer    |                        |                                     | 52.750                     |             |
| FEH22 : 2 years: +0 %: 240 mins: Winter    |                        |                                     | 52.750                     |             |
| FEH22 : 30 years: +0 %: 240 mins: Summer   |                        |                                     | 52.750                     |             |
| FEH22 : 30 years: +0 %: 240 mins: Winter   |                        |                                     | 52.750                     |             |
| FEH22 : 100 years: +20 %: 240 mins: Summer |                        |                                     | 52.750                     |             |
| FEH22 : 100 years: +20 %: 240 mins: Winter |                        |                                     | 52.750                     |             |
| FEH22 : 2 years: +0 %: 360 mins: Summer    |                        |                                     | 52.750                     |             |
| FEH22 : 2 years: +0 %: 360 mins: Winter    |                        |                                     | 52.750                     |             |
| FEH22 : 30 years: +0 %: 360 mins: Summer   |                        |                                     | 52.750                     |             |
| FEH22 : 30 years: +0 %: 360 mins: Winter   |                        |                                     | 52.750                     |             |
| FEH22 : 100 years: +20 %: 360 mins: Summer |                        |                                     | 52.750                     |             |
| FEH22 : 100 years: +20 %: 360 mins: Winter |                        |                                     | 52.750                     |             |
| FEH22 : 2 years: +0 %: 480 mins: Summer    |                        |                                     | 52.750                     |             |
| FEH22 : 2 years: +0 %: 480 mins: Winter    |                        |                                     | 52.750                     |             |
| FEH22 : 30 years: +0 %: 480 mins: Summer   |                        |                                     | 52.750                     |             |
| FEH22 : 30 years: +0 %: 480 mins: Winter   |                        |                                     | 52.750                     |             |
| FEH22 : 100 years: +20 %: 480 mins: Summer |                        |                                     | 52.750                     |             |
| FEH22 : 100 years: +20 %: 480 mins: Winter |                        |                                     | 52.750                     |             |
| FEH22 : 2 years: +0 %: 600 mins: Summer    |                        |                                     | 52.750                     |             |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Outfall Details<br>Storm Phase: Phase                                     |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |

|                                                |  |  |        |  |
|------------------------------------------------|--|--|--------|--|
| FEH22 : 2 years: +0 %: 600 mins:<br>Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 600 mins:<br>Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 600 mins:<br>Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 600<br>mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 600<br>mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 720 mins:<br>Summer     |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 720 mins:<br>Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 720 mins:<br>Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 720 mins:<br>Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 720<br>mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 720<br>mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 960 mins:<br>Summer     |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 960 mins:<br>Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 960 mins:<br>Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 960 mins:<br>Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 960<br>mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 960<br>mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 1440 mins:<br>Summer    |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 1440 mins:<br>Winter    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 1440<br>mins: Summer   |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 1440<br>mins: Winter   |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 1440<br>mins: Summer |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 1440<br>mins: Winter |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 2160 mins:<br>Summer    |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 2160 mins:<br>Winter    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 2160<br>mins: Summer   |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 2160<br>mins: Winter   |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 2160<br>mins: Summer |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 2160<br>mins: Winter |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 2880 mins:<br>Summer    |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 2880 mins:<br>Winter    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 2880<br>mins: Summer   |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 2880<br>mins: Winter   |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 2880<br>mins: Summer |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 2880<br>mins: Winter |  |  | 52.750 |  |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Outfall Details<br>Storm Phase: Phase                                     |  | Revision:<br>Rev 3      |             |                                                                                     |              |

|                                              |  |  |        |  |
|----------------------------------------------|--|--|--------|--|
| FEH22 : 2 years: +0 %: 4320 mins: Summer     |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 4320 mins: Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 4320 mins: Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 4320 mins: Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 4320 mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 4320 mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 5760 mins: Summer     |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 5760 mins: Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 5760 mins: Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 5760 mins: Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 5760 mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 5760 mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 7200 mins: Summer     |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 7200 mins: Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 7200 mins: Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 7200 mins: Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 7200 mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 7200 mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 8640 mins: Summer     |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 8640 mins: Winter     |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 8640 mins: Summer    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 8640 mins: Winter    |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 8640 mins: Summer  |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 8640 mins: Winter  |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 10080 mins: Summer    |  |  | 52.750 |  |
| FEH22 : 2 years: +0 %: 10080 mins: Winter    |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 10080 mins: Summer   |  |  | 52.750 |  |
| FEH22 : 30 years: +0 %: 10080 mins: Winter   |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 10080 mins: Summer |  |  | 52.750 |  |
| FEH22 : 100 years: +20 %: 10080 mins: Winter |  |  | 52.750 |  |

|                                                                                                    |                                                                                                                                                                                                |                                                                                     |             |              |  |  |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|--------------|--|--|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall | Date:<br>27/08/2025                                                                                                                                                                            |  |             |              |  |  |
| Report Title:<br>Rainfall Analysis Criteria                                                        | Designed by:<br>C. Salt <table border="1" style="display: inline-table; vertical-align: top;"> <tr> <td>Checked by:</td> <td>Approved By:</td> </tr> <tr> <td> </td> <td> </td> </tr> </table> |                                                                                     | Checked by: | Approved By: |  |  |
| Checked by:                                                                                        | Approved By:                                                                                                                                                                                   |                                                                                     |             |              |  |  |
|                                                                                                    |                                                                                                                                                                                                |                                                                                     |             |              |  |  |
|                                                                                                    | Revision:<br>Rev 3                                                                                                                                                                             |                                                                                     |             |              |  |  |

|                                 |                          |
|---------------------------------|--------------------------|
| Runoff Type                     | Dynamic                  |
| Output Interval (mins)          | 1                        |
| Time Step                       | Shortest                 |
| Urban Creep                     | Apply Global Value       |
| Urban Creep Global Value (%)    | 0                        |
| Junction Flood Risk Margin (mm) | 300                      |
| Perform No Discharge Analysis   | <input type="checkbox"/> |

|                  |                                     |  |
|------------------|-------------------------------------|--|
| Rainfall         |                                     |  |
| FEH22            | Type: FEH                           |  |
| Site Location    | GB 519000 133350 TQ 19000 33350     |  |
| Rainfall Version | 2022                                |  |
| Summer           | <input checked="" type="checkbox"/> |  |
| Winter           | <input checked="" type="checkbox"/> |  |

|                       |                       |
|-----------------------|-----------------------|
| Return Period         |                       |
| Return Period (years) | Increase Rainfall (%) |
| 2.0                   | 0.000                 |
| 30.0                  | 0.000                 |
| 100.0                 | 20.000                |

|                 |  |
|-----------------|--|
| Storm Durations |  |
|-----------------|--|

| Duration (mins) | Run Time (mins) |
|-----------------|-----------------|
| 120             | 240             |
| 180             | 360             |
| 240             | 480             |
| 360             | 720             |
| 480             | 960             |
| 600             | 1200            |
| 720             | 1440            |
| 960             | 1920            |
| 1440            | 2880            |
| 2160            | 4320            |
| 2880            | 5760            |
| 4320            | 8640            |
| 5760            | 11520           |
| 7200            | 14400           |
| 8640            | 17280           |
| 10080           | 20160           |



|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: S104                |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                                  | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|----------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S30      | FEH22: 2 years: +0<br>%: 120 mins:<br>Summer | 56.90<br>0      | 54.43<br>0       | 54.558         | 0.128          | 45.2              | 0.227                     | 0.000                    | 45.1               | 95.006                      | OK         |
| S29      | FEH22: 2 years: +0<br>%: 120 mins:<br>Summer | 56.52<br>5      | 54.23<br>5       | 54.457         | 0.222          | 80.5              | 0.392                     | 0.000                    | 79.9               | 169.494                     | OK         |
| S28      | FEH22: 2 years: +0<br>%: 120 mins:<br>Summer | 55.82<br>5      | 54.00<br>0       | 54.121         | 0.121          | 136.8             | 0.214                     | 0.000                    | 136.8              | 290.794                     | OK         |
| S27      | FEH22: 2 years: +0<br>%: 120 mins:<br>Summer | 55.45<br>0      | 52.43<br>5       | 52.755         | 0.320          | 136.8             | 0.566                     | 0.000                    | 136.3              | 290.779                     | OK         |
| S26      | FEH22: 2 years: +0<br>%: 120 mins:<br>Summer | 54.97<br>5      | 52.35<br>0       | 52.704         | 0.354          | 206.0             | 0.625                     | 0.000                    | 205.7              | 438.475                     | OK         |
| S25      | FEH22: 2 years: +0<br>%: 120 mins:<br>Summer | 54.47<br>5      | 52.10<br>0       | 52.509         | 0.409          | 217.2             | 1.042                     | 0.000                    | 217.3              | 464.468                     | OK         |
| S24      | FEH22: 2 years: +0<br>%: 120 mins:<br>Summer | 54.75<br>0      | 52.02<br>5       | 52.466         | 0.441          | 337.3             | 1.122                     | 0.000                    | 337.4              | 718.805                     | OK         |
| S23      | FEH22: 2 years: +0<br>%: 120 mins:<br>Summer | 55.01<br>0      | 51.98<br>0       | 52.359         | 0.379          | 341.4             | 0.964                     | 0.000                    | 341.4              | 727.906                     | OK         |
| S22      | FEH22: 2 years: +0<br>%: 120 mins:<br>Summer | 55.71<br>5      | 51.93<br>0       | 52.211         | 0.281          | 342.9             | 0.715                     | 0.000                    | 342.8              | 731.164                     | OK         |
| S21      | FEH22: 2 years: +0<br>%: 120 mins:<br>Summer | 54.30<br>0      | 51.64<br>5       | 51.916         | 0.271          | 343.1             | 0.689                     | 0.000                    | 342.8              | 731.632                     | OK         |
| S20      | FEH22: 2 years: +0<br>%: 480 mins:<br>Summer | 53.50<br>0      | 50.95<br>0       | 51.554         | 0.604          | 20.5              | 0.683                     | 0.000                    | 19.8               | 955.122                     | Surcharged |
| HW6      | FEH22: 2 years: +0<br>%: 480 mins:<br>Summer | 52.90<br>0      | 50.90<br>0       | 51.554         | 0.654          | 0.5               | 0.739                     | 0.000                    | 0.0                | 0.433                       | OK         |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: S104                |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S30      | FEH22: 30 years: +0 %: 120 mins: Summer | 56.900          | 54.430           | 54.621         | 0.191          | 91.3              | 0.338                     | 0.000                    | 91.0               | 192.034                     | OK         |
| S29      | FEH22: 30 years: +0 %: 120 mins: Summer | 56.525          | 54.235           | 54.572         | 0.337          | 162.5             | 0.595                     | 0.000                    | 161.7              | 342.623                     | OK         |
| S28      | FEH22: 30 years: +0 %: 120 mins: Summer | 55.825          | 54.000           | 54.169         | 0.169          | 277.1             | 0.298                     | 0.000                    | 277.1              | 587.814                     | OK         |
| S27      | FEH22: 30 years: +0 %: 120 mins: Summer | 55.450          | 52.435           | 53.112         | 0.677          | 277.1             | 1.197                     | 0.000                    | 276.3              | 587.804                     | Surcharged |
| S26      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.975          | 52.350           | 53.030         | 0.680          | 417.7             | 1.201                     | 0.000                    | 417.1              | 886.176                     | Surcharged |
| S25      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.475          | 52.100           | 52.802         | 0.702          | 442.1             | 1.785                     | 0.000                    | 440.5              | 938.740                     | OK         |
| S24      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.750          | 52.025           | 52.734         | 0.709          | 684.2             | 1.804                     | 0.000                    | 684.0              | 1452.745                    | OK         |
| S23      | FEH22: 30 years: +0 %: 120 mins: Summer | 55.010          | 51.980           | 52.564         | 0.584          | 692.1             | 1.487                     | 0.000                    | 692.9              | 1471.160                    | OK         |
| S22      | FEH22: 30 years: +0 %: 120 mins: Summer | 55.715          | 51.930           | 52.374         | 0.444          | 695.8             | 1.130                     | 0.000                    | 696.2              | 1477.872                    | OK         |
| S21      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.300          | 51.645           | 52.063         | 0.418          | 696.8             | 1.064                     | 0.000                    | 697.1              | 1475.620                    | OK         |
| S20      | FEH22: 30 years: +0 %: 600 mins: Winter | 53.500          | 50.950           | 52.046         | 1.096          | 20.4              | 1.239                     | 0.000                    | 19.8               | 1147.345                    | Surcharged |
| HW6      | FEH22: 30 years: +0 %: 600 mins: Winter | 52.900          | 50.900           | 52.046         | 1.146          | 0.7               | 1.296                     | 0.000                    | 0.0                | 0.375                       | OK         |

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|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: S104                |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                               | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S30      | FEH22: 100 years: +20 %: 120 mins: Summer | 56.900          | 54.430           | 54.729         | 0.299          | 137.5             | 0.529                     | 0.000                    | 136.7              | 289.274                     | OK         |
| S29      | FEH22: 100 years: +20 %: 120 mins: Summer | 56.525          | 54.235           | 54.688         | 0.453          | 244.4             | 0.801                     | 0.000                    | 242.5              | 516.152                     | OK         |
| S28      | FEH22: 100 years: +20 %: 120 mins: Summer | 55.825          | 54.000           | 54.212         | 0.212          | 416.2             | 0.374                     | 0.000                    | 416.2              | 885.507                     | OK         |
| S27      | FEH22: 100 years: +20 %: 120 mins: Summer | 55.450          | 52.435           | 54.058         | 1.623          | 416.2             | 2.868                     | 0.000                    | 416.2              | 885.518                     | Surcharged |
| S26      | FEH22: 100 years: +20 %: 120 mins: Summer | 54.975          | 52.350           | 53.872         | 1.522          | 629.7             | 2.690                     | 0.000                    | 629.8              | 1334.994                    | Surcharged |
| S25      | FEH22: 100 years: +20 %: 120 mins: Summer | 54.475          | 52.100           | 53.393         | 1.293          | 667.4             | 3.292                     | 0.000                    | 667.5              | 1413.443                    | Surcharged |
| S24      | FEH22: 100 years: +20 %: 120 mins: Summer | 54.750          | 52.025           | 53.232         | 1.207          | 1034.9            | 3.071                     | 0.000                    | 1034.9             | 2185.237                    | Surcharged |
| S23      | FEH22: 100 years: +20 %: 120 mins: Summer | 55.010          | 51.980           | 52.942         | 0.962          | 1048.0            | 2.448                     | 0.000                    | 1048.0             | 2210.080                    | Surcharged |
| S22      | FEH22: 100 years: +20 %: 120 mins: Summer | 55.715          | 51.930           | 52.540         | 0.610          | 1052.8            | 1.552                     | 0.000                    | 1052.7             | 2216.084                    | OK         |
| S21      | FEH22: 100 years: +20 %: 960 mins: Winter | 54.300          | 51.645           | 52.535         | 0.890          | 162.2             | 2.266                     | 0.000                    | 162.3              | 3672.505                    | Surcharged |
| S20      | FEH22: 100 years: +20 %: 960 mins: Winter | 53.500          | 50.950           | 52.535         | 1.585          | 20.2              | 1.793                     | 0.000                    | 19.8               | 1997.495                    | Surcharged |
| HW6      | FEH22: 100 years: +20 %: 960 mins: Winter | 52.900          | 50.900           | 52.535         | 1.635          | 0.6               | 1.849                     | 0.000                    | 0.0                | 0.522                       | OK         |

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|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: S104      |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                            | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 2 years: +0 %: 480 mins: Summer | 51.554            | 51.554            | 0.554             | 0.554             | 163.0             | 820.955                   | 0.000                    | 0.000                  | 20.5               | 956.483                     | 72.678                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: S104      |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                             | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 30 years: +0 %: 600 mins: Winter | 52.046            | 52.046            | 1.046             | 1.046             | 159.3             | 1737.26                   | 0.000                    | 0.000                  | 20.4               | 1152.084                    | 42.185                   | OK     |

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|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: S104      |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                               | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 100 years: +20 %: 960 mins: Winter | 52.535            | 52.535            | 1.535             | 1.535             | 169.1             | 2843.17                   | 0.000                    | 0.000                  | 20.2               | 2002.605                    | 5.380                    | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: S104              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                            | Connection Type | From    | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status     |
|------------|----------------------------------------|-----------------|---------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|------------|
| 2.000      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S30     | S29     | 56.900                   | 54.558                  | 0.175               | 95.006                | 0.7                 | 0.14            | 45.1            | OK         |
| 2.001      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S29     | S28     | 56.525                   | 54.457                  | 0.204               | 169.494               | 1.0                 | 0.35            | 79.9            | OK         |
| 2.002      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S28     | S27     | 55.825                   | 54.121                  | 0.221               | 290.794               | 1.5                 | 0.09            | 136.8           | OK         |
| 2.003      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S27     | S26     | 55.450                   | 52.755                  | 0.337               | 290.779               | 0.8                 | 0.42            | 136.3           | OK         |
| 2.004      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S26     | S25     | 54.975                   | 52.704                  | 0.323               | 438.475               | 1.3                 | 0.63            | 205.7           | OK         |
| 2.005      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S25     | S24     | 54.475                   | 52.509                  | 0.425               | 464.468               | 0.8                 | 0.39            | 217.3           | OK         |
| 2.006      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S24     | S23     | 54.750                   | 52.466                  | 0.410               | 718.805               | 1.4                 | 0.63            | 337.4           | OK         |
| 2.007      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S23     | S22     | 55.010                   | 52.359                  | 0.330               | 727.906               | 1.8                 | 0.62            | 341.4           | OK         |
| 2.008      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S22     | S21     | 55.715                   | 52.211                  | 0.276               | 731.164               | 2.3                 | 0.23            | 342.8           | OK         |
| 2.009      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S21     | Pond 6a | 54.300                   | 51.916                  | 0.253               | 731.632               | 2.6                 | 0.21            | 342.8           | OK         |
| 2.010      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | Pond 6a | S20     | 52.900                   | 51.454                  | 0.479               | 229.988               | 0.3                 | 0.07            | 21.6            | OK         |
| 2.011      | FEH22: 2 years: +0 %: 120 mins: Winter | Pipe            | S20     | HW6     | 53.500                   | 51.454                  | 0.225               | 0.850                 | 0.4                 | 0.03            | 1.1             | Surcharged |

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|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: S104              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                             | Connection Type | From    | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status     |
|------------|-----------------------------------------|-----------------|---------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|------------|
| 2.000      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S30     | S29     | 56.900                   | 54.621                  | 0.264               | 192.034               | 0.9                 | 0.27            | 91.0            | OK         |
| 2.001      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S29     | S28     | 56.525                   | 54.572                  | 0.303               | 342.623               | 1.2                 | 0.71            | 161.7           | OK         |
| 2.002      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S28     | S27     | 55.825                   | 54.169                  | 0.423               | 587.814               | 1.6                 | 0.18            | 277.1           | OK         |
| 2.003      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S27     | S26     | 55.450                   | 53.112                  | 0.600               | 587.804               | 1.0                 | 0.85            | 276.3           | Surcharged |
| 2.004      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S26     | S25     | 54.975                   | 53.030                  | 0.600               | 886.176               | 1.5                 | 1.27            | 417.1           | Surcharged |
| 2.005      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S25     | S24     | 54.475                   | 52.802                  | 0.705               | 938.740               | 1.0                 | 0.79            | 440.5           | OK         |
| 2.006      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S24     | S23     | 54.750                   | 52.734                  | 0.647               | 1452.745              | 1.7                 | 1.27            | 684.0           | OK         |
| 2.007      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S23     | S22     | 55.010                   | 52.564                  | 0.514               | 1471.160              | 2.1                 | 1.25            | 692.9           | OK         |
| 2.008      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S22     | S21     | 55.715                   | 52.374                  | 0.431               | 1477.872              | 2.6                 | 0.46            | 696.2           | OK         |
| 2.009      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S21     | Pond 6a | 54.300                   | 52.063                  | 0.388               | 1475.620              | 3.1                 | 0.43            | 697.1           | OK         |
| 2.010      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | Pond 6a | S20     | 52.900                   | 51.886                  | 0.600               | 231.081               | 0.4                 | 0.08            | 23.7            | Surcharged |
| 2.011      | FEH22: 30 years: +0 %: 120 mins: Winter | Pipe            | S20     | HW6     | 53.500                   | 51.886                  | 0.225               | 1.355                 | 0.4                 | 0.06            | 2.2             | Surcharged |



|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: S104              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                               | Connection Type | From    | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status     |
|------------|-------------------------------------------|-----------------|---------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|------------|
| 2.000      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S30     | S29     | 56.900                   | 54.729                  | 0.376               | 289.274               | 0.9                 | 0.41            | 136.7           | OK         |
| 2.001      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S29     | S28     | 56.525                   | 54.688                  | 0.393               | 516.152               | 1.4                 | 1.06            | 242.5           | OK         |
| 2.002      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S28     | S27     | 55.825                   | 54.212                  | 0.600               | 885.507               | 1.6                 | 0.28            | 416.2           | OK         |
| 2.003      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S27     | S26     | 55.450                   | 54.058                  | 0.600               | 885.518               | 1.5                 | 1.27            | 416.2           | Surcharged |
| 2.004      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S26     | S25     | 54.975                   | 53.872                  | 0.600               | 1334.994              | 2.2                 | 1.92            | 629.8           | Surcharged |
| 2.005      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S25     | S24     | 54.475                   | 53.393                  | 0.750               | 1413.310              | 1.5                 | 1.2             | 667.5           | Surcharged |
| 2.006      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S24     | S23     | 54.750                   | 53.232                  | 0.750               | 2184.787              | 2.3                 | 1.92            | 1034.9          | Surcharged |
| 2.007      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S23     | S22     | 55.010                   | 52.942                  | 0.750               | 2209.418              | 2.4                 | 1.9             | 1048.0          | Surcharged |
| 2.008      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S22     | S21     | 55.715                   | 52.540                  | 0.583               | 2215.493              | 2.9                 | 0.69            | 1052.7          | OK         |
| 2.009      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S21     | Pond 6a | 54.300                   | 52.250                  | 0.750               | 2206.934              | 3.4                 | 0.66            | 1053.6          | OK         |
| 2.010      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | Pond 6a | S20     | 52.900                   | 52.250                  | 0.600               | 235.374               | 0.5                 | 0.08            | 23.7            | Surcharged |
| 2.011      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S20     | HW6     | 53.500                   | 52.250                  | 0.225               | 1.781                 | 0.4                 | 0.07            | 2.7             | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2           |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S1       | FEH22: 2 years: +0 %: 120 mins: Summer | 55.030          | 53.825           | 53.849         | 0.024          | 0.9               | 0.027                     | 0.000                    | 0.9                | 1.845                       | OK     |
| S2       | FEH22: 2 years: +0 %: 120 mins: Summer | 56.050          | 53.435           | 53.466         | 0.031          | 6.7               | 0.035                     | 0.000                    | 6.7                | 13.112                      | OK     |
| S3       | FEH22: 2 years: +0 %: 120 mins: Summer | 54.050          | 52.200           | 52.240         | 0.040          | 6.7               | 0.045                     | 0.000                    | 6.7                | 13.090                      | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2           |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S1       | FEH22: 30 years: +0 %: 120 mins: Summer | 55.030          | 53.825           | 53.859         | 0.034          | 1.9               | 0.038                     | 0.000                    | 1.9                | 3.728                       | OK     |
| S2       | FEH22: 30 years: +0 %: 120 mins: Summer | 56.050          | 53.435           | 53.478         | 0.043          | 13.6              | 0.049                     | 0.000                    | 13.6               | 26.501                      | OK     |
| S3       | FEH22: 30 years: +0 %: 120 mins: Summer | 54.050          | 52.200           | 52.256         | 0.056          | 13.6              | 0.063                     | 0.000                    | 13.6               | 26.396                      | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2           |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                               | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S1       | FEH22: 100 years: +20 %: 120 mins: Summer | 55.030          | 53.825           | 53.866         | 0.041          | 2.9               | 0.047                     | 0.000                    | 2.9                | 5.619                       | OK         |
| S2       | FEH22: 100 years: +20 %: 120 mins: Summer | 56.050          | 53.435           | 53.489         | 0.054          | 20.5              | 0.061                     | 0.000                    | 20.5               | 39.934                      | OK         |
| S3       | FEH22: 100 years: +20 %: 960 mins: Winter | 54.050          | 52.200           | 52.535         | 0.335          | 2.9               | 0.379                     | 0.000                    | 2.9                | 65.926                      | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                            | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 2 years: +0 %: 480 mins: Summer | 51.554            | 51.554            | 0.554             | 0.554             | 163.0             | 820.955                   | 0.000                    | 0.000                  | 20.5               | 956.483                     | 72.678                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                             | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 30 years: +0 %: 600 mins: Winter | 52.046            | 52.046            | 1.046             | 1.046             | 159.3             | 1737.26                   | 0.000                    | 0.000                  | 20.4               | 1152.084                    | 42.185                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                               | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 100 years: +20 %: 960 mins: Winter | 52.535            | 52.535            | 1.535             | 1.535             | 169.1             | 2843.17                   | 0.000                    | 0.000                  | 20.2               | 2002.605                    | 5.380                    | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                            | Connection Type | From | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|----------------------------------------|-----------------|------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 4.000      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S1   | S2      | 55.030                   | 53.849                  | 0.027               | 1.845                 | 0.3                 | 0.02            | 0.9             | OK     |
| 4.001      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S2   | S3      | 56.050                   | 53.466                  | 0.035               | 13.112                | 1.7                 | 0.04            | 6.7             | OK     |
| 4.002      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S3   | Pond 6a | 54.050                   | 52.240                  | 0.082               | 13.090                | 1.4                 | 0.07            | 6.7             | OK     |



|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                             | Connection Type | From | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-----------------------------------------|-----------------|------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 4.000      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S1   | S2      | 55.030                   | 53.859                  | 0.039               | 3.728                 | 0.4                 | 0.05            | 1.9             | OK     |
| 4.001      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S2   | S3      | 56.050                   | 53.478                  | 0.049               | 26.501                | 2.1                 | 0.08            | 13.6            | OK     |
| 4.002      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S3   | Pond 6a | 54.050                   | 52.256                  | 0.225               | 26.396                | 1.7                 | 0.13            | 13.6            | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                               | Connection Type | From | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-------------------------------------------|-----------------|------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 4.000      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S1   | S2      | 55.030                   | 53.866                  | 0.048               | 5.619                 | 0.5                 | 0.07            | 2.9             | OK     |
| 4.001      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S2   | S3      | 56.050                   | 53.489                  | 0.060               | 39.934                | 2.4                 | 0.12            | 20.5            | OK     |
| 4.002      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S3   | Pond 6a | 54.050                   | 52.266                  | 0.225               | 39.787                | 1.7                 | 0.2             | 20.5            | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch)  |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S2A      | FEH22: 2 years: +0 %: 120 mins: Summer | 56.600          | 55.175           | 55.193         | 0.018          | 2.1               | 0.020                     | 0.000                    | 2.1                | 4.126                       | OK     |
| S2       | FEH22: 2 years: +0 %: 120 mins: Summer | 56.050          | 53.435           | 53.466         | 0.031          | 6.7               | 0.035                     | 0.000                    | 6.7                | 13.112                      | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch)  |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S2A      | FEH22: 30 years: +0 %: 120 mins: Summer | 56.600          | 55.175           | 55.200         | 0.025          | 4.3               | 0.028                     | 0.000                    | 4.3                | 8.342                       | OK     |
| S2       | FEH22: 30 years: +0 %: 120 mins: Summer | 56.050          | 53.435           | 53.478         | 0.043          | 13.6              | 0.049                     | 0.000                    | 13.6               | 26.501                      | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch)  |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                               | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S2A      | FEH22: 100 years: +20 %: 120 mins: Summer | 56.600          | 55.175           | 55.206         | 0.031          | 6.5               | 0.035                     | 0.000                    | 6.5                | 12.568                      | OK     |
| S2       | FEH22: 100 years: +20 %: 120 mins: Summer | 56.050          | 53.435           | 53.489         | 0.054          | 20.5              | 0.061                     | 0.000                    | 20.5               | 39.934                      | OK     |

|                                                                                                     |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall  |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                     |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                            | Connection Type | From | To | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|----------------------------------------|-----------------|------|----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 5.000      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S2A  | S2 | 56.600                   | 55.193                  | 0.024               | 4.126                 | 0.9                 | 0.01            | 2.1             | OK     |

|                                                                                                     |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall  |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                     |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                             | Connection Type | From | To | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-----------------------------------------|-----------------|------|----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 5.000      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S2A  | S2 | 56.600                   | 55.200                  | 0.034               | 8.342                 | 1.1                 | 0.03            | 4.3             | OK     |

|                                                                                                     |  |                         |             |                                                                                     |              |
|-----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall  |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                     |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 2 (Branch) |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                               | Connection Type | From | To | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-------------------------------------------|-----------------|------|----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 5.000      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S2A  | S2 | 56.600                   | 55.206                  | 0.042               | 12.568                | 1.3                 | 0.04            | 6.5             | OK     |



|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1           |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S6       | FEH22: 2 years: +0 %: 120 mins: Summer | 57.650          | 56.075           | 56.100         | 0.025          | 2.0               | 0.028                     | 0.000                    | 2.0                | 3.842                       | OK     |
| S7       | FEH22: 2 years: +0 %: 120 mins: Summer | 57.325          | 55.725           | 55.764         | 0.039          | 5.1               | 0.044                     | 0.000                    | 5.1                | 9.850                       | OK     |
| S8       | FEH22: 2 years: +0 %: 120 mins: Summer | 57.215          | 55.388           | 55.427         | 0.039          | 5.1               | 0.045                     | 0.000                    | 5.1                | 9.848                       | OK     |
| S9       | FEH22: 2 years: +0 %: 120 mins: Summer | 56.850          | 55.050           | 55.081         | 0.031          | 9.2               | 0.035                     | 0.000                    | 9.2                | 17.791                      | OK     |
| S10      | FEH22: 2 years: +0 %: 120 mins: Summer | 54.900          | 52.665           | 52.705         | 0.040          | 9.2               | 0.045                     | 0.000                    | 9.1                | 17.775                      | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1           |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S6       | FEH22: 30 years: +0 %: 120 mins: Summer | 57.650          | 56.075           | 56.110         | 0.035          | 4.0               | 0.039                     | 0.000                    | 4.0                | 7.766                       | OK     |
| S7       | FEH22: 30 years: +0 %: 120 mins: Summer | 57.325          | 55.725           | 55.781         | 0.056          | 10.3              | 0.063                     | 0.000                    | 10.3               | 19.909                      | OK     |
| S8       | FEH22: 30 years: +0 %: 120 mins: Summer | 57.215          | 55.388           | 55.445         | 0.057          | 10.3              | 0.064                     | 0.000                    | 10.3               | 19.907                      | OK     |
| S9       | FEH22: 30 years: +0 %: 120 mins: Summer | 56.850          | 55.050           | 55.094         | 0.044          | 18.5              | 0.049                     | 0.000                    | 18.5               | 35.977                      | OK     |
| S10      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.900          | 52.665           | 52.721         | 0.056          | 18.5              | 0.063                     | 0.000                    | 18.5               | 35.889                      | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1           |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                               | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S6       | FEH22: 100 years: +20 %: 120 mins: Summer | 57.650          | 56.075           | 56.117         | 0.042          | 6.0               | 0.048                     | 0.000                    | 6.0                | 11.705                      | OK     |
| S7       | FEH22: 100 years: +20 %: 120 mins: Summer | 57.325          | 55.725           | 55.794         | 0.069          | 15.4              | 0.078                     | 0.000                    | 15.4               | 30.001                      | OK     |
| S8       | FEH22: 100 years: +20 %: 120 mins: Summer | 57.215          | 55.388           | 55.458         | 0.070          | 15.4              | 0.080                     | 0.000                    | 15.5               | 29.998                      | OK     |
| S9       | FEH22: 100 years: +20 %: 120 mins: Summer | 56.850          | 55.050           | 55.104         | 0.054          | 27.9              | 0.061                     | 0.000                    | 27.9               | 54.208                      | OK     |
| S10      | FEH22: 100 years: +20 %: 120 mins: Summer | 54.900          | 52.665           | 52.732         | 0.067          | 27.9              | 0.076                     | 0.000                    | 28.0               | 54.090                      | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                            | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 2 years: +0 %: 480 mins: Summer | 51.554            | 51.554            | 0.554             | 0.554             | 163.0             | 820.955                   | 0.000                    | 0.000                  | 20.5               | 956.483                     | 72.678                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                             | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 30 years: +0 %: 600 mins: Winter | 52.046            | 52.046            | 1.046             | 1.046             | 159.3             | 1737.26                   | 0.000                    | 0.000                  | 20.4               | 1152.084                    | 42.185                   | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1 |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                               | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status |
|--------------------|-------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|--------|
| Pond 6a            | FEH22: 100 years: +20 %: 960 mins: Winter | 52.535            | 52.535            | 1.535             | 1.535             | 169.1             | 2843.17                   | 0.000                    | 0.000                  | 20.2               | 2002.605                    | 5.380                    | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                            | Connection Type | From | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|----------------------------------------|-----------------|------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 3.000      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S6   | S7      | 57.650                   | 56.100                  | 0.032               | 3.842                 | 0.6                 | 0.03            | 2.0             | OK     |
| 3.001      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S7   | S8      | 57.325                   | 55.764                  | 0.039               | 9.850                 | 1.1                 | 0.06            | 5.1             | OK     |
| 3.002      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S8   | S9      | 57.215                   | 55.427                  | 0.035               | 9.848                 | 1.3                 | 0.06            | 5.1             | OK     |
| 3.003      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S9   | S10     | 56.850                   | 55.081                  | 0.035               | 17.791                | 2.3                 | 0.04            | 9.2             | OK     |
| 3.004      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S10  | Pond 6a | 54.900                   | 52.705                  | 0.082               | 17.775                | 1.9                 | 0.07            | 9.1             | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                             | Connection Type | From | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-----------------------------------------|-----------------|------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 3.000      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S6   | S7      | 57.650                   | 56.110                  | 0.045               | 7.766                 | 0.7                 | 0.05            | 4.0             | OK     |
| 3.001      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S7   | S8      | 57.325                   | 55.781                  | 0.056               | 19.909                | 1.3                 | 0.13            | 10.3            | OK     |
| 3.002      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S8   | S9      | 57.215                   | 55.445                  | 0.050               | 19.907                | 1.6                 | 0.12            | 10.3            | OK     |
| 3.003      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S9   | S10     | 56.850                   | 55.094                  | 0.050               | 35.977                | 2.8                 | 0.08            | 18.5            | OK     |
| 3.004      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S10  | Pond 6a | 54.900                   | 52.721                  | 0.225               | 35.889                | 2.3                 | 0.13            | 18.5            | OK     |



|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Highway 1         |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow**

| Connection | Storm Event                               | Connection Type | From | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-------------------------------------------|-----------------|------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 3.000      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S6   | S7      | 57.650                   | 56.117                  | 0.056               | 11.705                | 0.8                 | 0.08            | 6.0             | OK     |
| 3.001      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S7   | S8      | 57.325                   | 55.794                  | 0.070               | 30.001                | 1.5                 | 0.19            | 15.4            | OK     |
| 3.002      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S8   | S9      | 57.215                   | 55.458                  | 0.062               | 29.998                | 1.7                 | 0.18            | 15.5            | OK     |
| 3.003      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S9   | S10     | 56.850                   | 55.104                  | 0.060               | 54.208                | 3.3                 | 0.13            | 27.9            | OK     |
| 3.004      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S10  | Pond 6a | 54.900                   | 52.732                  | 0.225               | 54.090                | 2.3                 | 0.2             | 28.0            | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch)       |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S24.1    | FEH22: 2 years: +0 %: 120 mins: Summer | 54.850          | 52.385           | 52.662         | 0.277          | 119.7             | 0.314                     | 0.000                    | 119.5              | 252.204                     | OK     |
| S24      | FEH22: 2 years: +0 %: 120 mins: Summer | 54.750          | 52.025           | 52.466         | 0.441          | 337.3             | 1.122                     | 0.000                    | 337.4              | 718.805                     | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch)       |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S24.1    | FEH22: 30 years: +0 %: 120 mins: Summer | 54.850          | 52.385           | 52.901         | 0.516          | 241.9             | 0.584                     | 0.000                    | 241.7              | 509.636                     | Surcharged |
| S24      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.750          | 52.025           | 52.734         | 0.709          | 684.2             | 1.804                     | 0.000                    | 684.0              | 1452.745                    | OK         |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch)       |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                               | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S24.1    | FEH22: 100 years: +20 %: 120 mins: Summer | 54.850          | 52.385           | 53.571         | 1.186          | 364.4             | 1.341                     | 0.000                    | 364.4              | 767.756                     | Surcharged |
| S24      | FEH22: 100 years: +20 %: 120 mins: Summer | 54.750          | 52.025           | 53.232         | 1.207          | 1034.9            | 3.071                     | 0.000                    | 1034.9             | 2185.237                    | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch)     |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                            | Connection Type | From  | To  | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|----------------------------------------|-----------------|-------|-----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 2.101      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S24.1 | S24 | 54.850                   | 52.662                  | 0.259               | 252.204               | 1.3                 | 0.63            | 119.5           | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch)     |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                             | Connection Type | From  | To  | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status     |
|------------|-----------------------------------------|-----------------|-------|-----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|------------|
| 2.101      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S24.1 | S24 | 54.850                   | 52.901                  | 0.450               | 509.636               | 1.5                 | 1.27            | 241.7           | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: S104 (Branch)     |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                               | Connection Type | From  | To  | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status     |
|------------|-------------------------------------------|-----------------|-------|-----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|------------|
| 2.101      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S24.1 | S24 | 54.850                   | 53.571                  | 0.450               | 767.756               | 2.3                 | 1.91            | 364.4           | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Private             |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

| Junction | Storm Event                            | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S31      | FEH22: 2 years: +0 %: 120 mins: Summer | 55.275          | 53.925           | 53.933         | 0.008          | 0.4               | 0.010                     | 0.000                    | 0.4                | 0.700                       | OK     |
| S21      | FEH22: 2 years: +0 %: 120 mins: Summer | 54.300          | 51.645           | 51.916         | 0.271          | 343.1             | 0.689                     | 0.000                    | 342.8              | 731.632                     | OK     |



|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Private             |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

| Junction | Storm Event                             | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S31      | FEH22: 30 years: +0 %: 120 mins: Summer | 55.275          | 53.925           | 53.937         | 0.012          | 0.7               | 0.013                     | 0.000                    | 0.7                | 1.413                       | OK     |
| S21      | FEH22: 30 years: +0 %: 120 mins: Summer | 54.300          | 51.645           | 52.063         | 0.418          | 696.8             | 1.064                     | 0.000                    | 697.1              | 1475.620                    | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Private             |  | Revision:<br>Rev 3      |             |                                                                                     |              |



**FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume**

| Junction | Storm Event                               | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S31      | FEH22: 100 years: +20 %: 120 mins: Summer | 55.275          | 53.925           | 53.939         | 0.014          | 1.1               | 0.016                     | 0.000                    | 1.1                | 2.131                       | OK         |
| S21      | FEH22: 100 years: +20 %: 960 mins: Winter | 54.300          | 51.645           | 52.535         | 0.890          | 162.2             | 2.266                     | 0.000                    | 162.3              | 3672.505                    | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Private           |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                            | Connection Type | From | To  | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|----------------------------------------|-----------------|------|-----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 6.000      | FEH22: 2 years: +0 %: 120 mins: Summer | Pipe            | S31  | S21 | 55.275                   | 53.933                  | 0.008               | 0.700                 | 0.9                 | 0.01            | 0.4             | OK     |

|                                                                                                    |                         |             |              |
|----------------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall | Date:<br>27/08/2025     |             |              |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Private           | Designed by:<br>C. Salt | Checked by: | Approved By: |
|                                                                                                    | Revision:<br>Rev 3      |             |              |





FEH22: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                             | Connection Type | From | To  | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-----------------------------------------|-----------------|------|-----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 6.000      | FEH22: 30 years: +0 %: 120 mins: Summer | Pipe            | S31  | S21 | 55.275                   | 53.937                  | 0.012               | 1.413                 | 1.1                 | 0.01            | 0.7             | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 6 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>27/08/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Phase<br>Flow Path: Private           |  | Revision:<br>Rev 3      |             |                                                                                     |              |



FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                               | Connection Type | From | To  | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status |
|------------|-------------------------------------------|-----------------|------|-----|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|--------|
| 6.000      | FEH22: 100 years: +20 %: 120 mins: Summer | Pipe            | S31  | S21 | 55.275                   | 53.939                  | 0.014               | 2.131                 | 1.3                 | 0.02            | 1.1             | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Outfall Details<br>Storm Phase: Phase                                     |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |

## Outfalls

| Outfall                          | Outfall Type           | Gated                    | Fixed Surcharged Level (m) | Level Curve |
|----------------------------------|------------------------|--------------------------|----------------------------|-------------|
| Outfall                          | Fixed Surcharged Level | <input type="checkbox"/> | 54.025                     |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 60 mins: Summer               |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 60 mins: Winter               |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 120 mins: Summer              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 120 mins: Winter              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 180 mins: Summer              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 180 mins: Winter              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 240 mins: Summer              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 240 mins: Winter              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 360 mins: Summer              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 360 mins: Winter              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 480 mins: Summer              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 480 mins: Winter              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 600 mins: Summer              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 600 mins: Winter              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 720 mins: Summer              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 720 mins: Winter              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 960 mins: Summer              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 960 mins: Winter              |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 1440 mins: Summer             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 1440 mins: Winter             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 2160 mins: Summer             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 2160 mins: Winter             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 2880 mins: Summer             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 2880 mins: Winter             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 4320 mins: Summer             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 4320 mins: Winter             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 5760 mins: Summer             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 5760 mins: Winter             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 7200 mins: Summer             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 7200 mins: Winter             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 8640 mins: Summer             |                        |                          |                            |             |
| FEH - Surcharge : 100 years: +45 |                        |                          | 54.025                     |             |
| %: 8640 mins: Winter             |                        |                          |                            |             |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Outfall Details<br>Storm Phase: Phase                                     |  | Revision:<br>Rev 1      |             |                                                                                     |              |

|                                                           |  |  |        |  |
|-----------------------------------------------------------|--|--|--------|--|
| FEH - Surcharge : 100 years: +45<br>%: 10080 mins: Summer |  |  | 54.025 |  |
| FEH - Surcharge : 100 years: +45<br>%: 10080 mins: Winter |  |  | 54.025 |  |

|                                                                                                    |                         |             |              |                                                                                     |
|----------------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall | Date:<br>01/09/2025     |             |              |  |
| Report Title:<br>Rainfall Analysis Criteria                                                        | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |
|                                                                                                    | Revision:<br>Rev 1      |             |              |                                                                                     |

|                                 |                          |
|---------------------------------|--------------------------|
| Runoff Type                     | Dynamic                  |
| Output Interval (mins)          | 5                        |
| Time Step                       | Shortest                 |
| Urban Creep                     | Use Catchment Values     |
| Junction Flood Risk Margin (mm) | 300                      |
| Perform No Discharge Analysis   | <input type="checkbox"/> |

### Rainfall

|                  |                                     |           |
|------------------|-------------------------------------|-----------|
| FEH - Surge      |                                     | Type: FEH |
| Site Location    | GB 519000 133350 TQ 19000 33350     |           |
| Rainfall Version | 2022                                |           |
| Summer           | <input checked="" type="checkbox"/> |           |
| Winter           | <input checked="" type="checkbox"/> |           |

### Return Period

| Return Period (years) | Increase Rainfall (%) |
|-----------------------|-----------------------|
| 100.0                 | 45.000                |

### Storm Durations

| Duration (mins) | Run Time (mins) |
|-----------------|-----------------|
| 60              | 120             |
| 120             | 240             |
| 180             | 360             |
| 240             | 480             |
| 360             | 720             |
| 480             | 960             |
| 600             | 1200            |
| 720             | 1440            |
| 960             | 1920            |
| 1440            | 2880            |
| 2160            | 4320            |
| 2880            | 5760            |
| 4320            | 8640            |
| 5760            | 11520           |
| 7200            | 14400           |
| 8640            | 17280           |
| 10080           | 20160           |



|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur M              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flooded Volume**

| Junction | Storm Event                                     | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S717A    | FEH - Surge: 100 years: +45 %: 720 mins: Winter | 61.100          | 58.100           | 62.492         | 4.392          | 108.7             | 1395.576                  | 1392.183                 | 11.4               | 959.654                     | Flood      |
| S717     | FEH - Surge: 100 years: +45 %: 60 mins: Summer  | 60.785          | 57.785           | 60.037         | 2.252          | 86.9              | 3.979                     | 0.000                    | 82.5               | 221.484                     | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur L              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flooded Volume**

| Junction | Storm Event                                     | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S716A    | FEH - Surge: 100 years: +45 %: 960 mins: Winter | 60.700          | 57.700           | 61.034         | 3.334          | 20.9              | 337.068                   | 333.675                  | 2.6                | 289.156                     | Flood      |
| S716     | FEH - Surge: 100 years: +45 %: 60 mins: Summer  | 60.915          | 57.430           | 59.884         | 2.454          | 98.3              | 2.775                     | 0.000                    | 100.4              | 262.449                     | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur K              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max.  
Flooded Volume**

| Junction | Storm Event                                     | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S714A    | FEH - Surge: 100 years: +45 %: 720 mins: Winter | 60.700          | 57.700           | 61.151         | 3.451          | 35.3              | 454.669                   | 451.276                  | 3.7                | 308.576                     | Flood      |
| S714     | FEH - Surge: 100 years: +45 %: 60 mins: Summer  | 60.335          | 57.230           | 59.390         | 2.160          | 130.9             | 3.090                     | 0.000                    | 136.4              | 339.601                     | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur I              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flooded Volume**

| Junction | Storm Event                                     | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S712B    | FEH - Surge: 100 years: +45 %: 960 mins: Winter | 61.270          | 58.270           | 63.605         | 5.335          | 146.2             | 2338.224                  | 2334.831                 | 18.5               | 2074.221                    | Flood      |
| S712A    | FEH - Surge: 100 years: +45 %: 60 mins: Summer  | 59.850          | 58.070           | 58.537         | 0.467          | 22.1              | 0.528                     | 0.000                    | 26.9               | 128.479                     | Surcharged |
| S712     | FEH - Surge: 100 years: +45 %: 60 mins: Summer  | 59.975          | 55.120           | 58.505         | 3.385          | 239.6             | 5.981                     | 0.000                    | 243.6              | 692.887                     | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur H              |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flooded Volume**

| Junction | Storm Event                                     | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S713A    | FEH - Surge: 100 years: +45 %: 720 mins: Winter | 59.700          | 55.420           | 61.127         | 5.707          | 113.0             | 1431.813                  | 1426.972                 | 12.0               | 1021.101                    | Flood      |
| S713     | FEH - Surge: 100 years: +45 %: 60 mins: Summer  | 59.940          | 55.190           | 58.782         | 3.592          | 208.9             | 5.139                     | 0.000                    | 202.1              | 534.768                     | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur G              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flooded Volume**

| Junction | Storm Event                                     | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S711A    | FEH - Surge: 100 years: +45 %: 720 mins: Winter | 59.400          | 55.300           | 59.827         | 4.527          | 34.4              | 431.451                   | 426.814                  | 3.8                | 322.871                     | Flood      |
| S711     | FEH - Surge: 100 years: +45 %: 60 mins: Summer  | 59.000          | 54.945           | 57.661         | 2.716          | 279.8             | 4.800                     | 0.000                    | 277.8              | 774.360                     | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur F              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flooded Volume**

| Junction | Storm Event                                     | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S710A    | FEH - Surge: 100 years: +45 %: 600 mins: Winter | 58.700          | 55.185           | 58.896         | 3.711          | 19.2              | 199.497                   | 195.521                  | 2.2                | 151.954                     | Flood      |
| S710     | FEH - Surge: 100 years: +45 %: 60 mins: Summer  | 58.365          | 54.750           | 56.789         | 2.039          | 311.5             | 3.602                     | 0.000                    | 308.3              | 831.157                     | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur E              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max.  
Flooded Volume**

| Junction | Storm Event                                     | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S709A    | FEH - Surge: 100 years: +45 %: 960 mins: Winter | 57.800          | 55.050           | 58.060         | 3.010          | 16.2              | 263.471                   | 260.361                  | 2.0                | 221.811                     | Flood      |
| S709     | FEH - Surge: 100 years: +45 %: 60 mins: Summer  | 57.700          | 54.640           | 56.274         | 1.634          | 355.9             | 2.887                     | 0.000                    | 353.7              | 900.750                     | Surcharged |



|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur D              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flooded Volume**

| Junction | Storm Event                                     | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S708B    | FEH - Surge: 100 years: +45 %: 960 mins: Winter | 58.350          | 55.370           | 60.513         | 5.143          | 134.8             | 2166.371                  | 2163.001                 | 16.9               | 1889.622                    | Flood      |
| S708A    | FEH - Surge: 100 years: +45 %: 60 mins: Summer  | 57.800          | 55.290           | 55.868         | 0.578          | 19.1              | 0.653                     | 0.000                    | 21.5               | 116.773                     | Surcharged |
| S708     | FEH - Surge: 100 years: +45 %: 60 mins: Summer  | 57.575          | 54.500           | 55.831         | 1.331          | 392.7             | 2.351                     | 0.000                    | 391.1              | 1045.256                    | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur C              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max.  
Flooded Volume**

| Junction | Storm Event                                      | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|--------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S705A    | FEH - Surge: 100 years: +45 %: 1440 mins: Winter | 56.500          | 54.820           | 57.177         | 2.357          | 28.8              | 679.390                   | 677.490                  | 4.0                | 628.629                     | Flood      |
| S705     | FEH - Surge: 100 years: +45 %: 60 mins: Summer   | 57.000          | 54.285           | 55.067         | 0.782          | 462.2             | 1.382                     | 0.000                    | 460.6              | 1150.100                    | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur B              |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surcharge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flooded Volume**

| Junction | Storm Event                                         | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S703A    | FEH - Surcharge: 100 years: +45 %: 600 mins: Winter | 56.200          | 54.730           | 56.336         | 1.606          | 13.2              | 137.608                   | 135.945                  | 1.5                | 103.890                     | Flood  |
| S703     | FEH - Surcharge: 100 years: +45 %: 60 mins: Summer  | 56.000          | 54.110           | 54.433         | 0.323          | 460.1             | 0.571                     | 0.000                    | 459.2              | 1154.705                    | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur A              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surcharge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flooded Volume**

| Junction | Storm Event                                         | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|----------|-----------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|--------|
| S702B    | FEH - Surcharge: 100 years: +45 %: 960 mins: Winter | 56.750          | 54.370           | 57.295         | 2.925          | 32.8              | 547.717                   | 545.025                  | 3.7                | 405.781                     | Flood  |
| S702A    | FEH - Surcharge: 100 years: +45 %: 60 mins: Summer  | 56.300          | 54.245           | 54.272         | 0.027          | 3.8               | 0.030                     | 0.000                    | 3.8                | 26.078                      | OK     |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Spur A    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surcharge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item:**  
**Rank By: Max. Resident Volume**

| Stormwater Control | Storm Event                                          | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status     |
|--------------------|------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|------------|
| Pond 7a            | FEH - Surcharge: 100 years: +45 %: 4320 mins: Winter | 55.372            | 55.372            | 1.822             | 1.822             | 103.9             | 5946.232                  | 0.000                    | 0.000                  | 74.2               | 24023.461                   | -11.478                  | Flood Risk |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur J              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max.  
Flooded Volume**

| Junction | Storm Event                                     | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S713B    | FEH - Surge: 100 years: +45 %: 480 mins: Winter | 60.200          | 55.605           | 60.370         | 4.765          | 20.6              | 175.631                   | 170.434                  | 2.2                | 121.565                     | Flood      |
| S713     | FEH - Surge: 100 years: +45 %: 60 mins: Summer  | 59.940          | 55.190           | 58.782         | 3.592          | 208.9             | 5.139                     | 0.000                    | 202.1              | 534.768                     | Surcharged |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Spur N              |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
|                                                                                                    |  | Revision:<br>Rev 1      |             |                                                                                     |              |



**FEH - Surcharge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flooded Volume**

| Junction | Storm Event                                         | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|-----------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S719A    | FEH - Surcharge: 100 years: +45 %: 960 mins: Winter | 61.000          | 58.300           | 61.386         | 3.086          | 24.1              | 388.771                   | 385.717                  | 3.0                | 334.470                     | Flood      |
| S719     | FEH - Surcharge: 100 years: +45 %: 60 mins: Summer  | 60.540          | 58.040           | 60.151         | 2.111          | 44.2              | 2.387                     | 0.000                    | 34.5               | 76.893                      | Surcharged |

|                                 |              |             |              |                                                                                     |
|---------------------------------|--------------|-------------|--------------|-------------------------------------------------------------------------------------|
| Project:                        | Date:        |             |              |  |
| Mowbray (Land North of Horsham) | 01/09/2025   |             |              |                                                                                     |
| Catchment 7 - Hydraulic Model   | Designed by: | Checked by: | Approved By: |                                                                                     |
| Surcharged Outfall              | C. Salt      |             |              |                                                                                     |
| Report Details:                 | Revision:    |             |              |                                                                                     |
| Type: Junctions Summary         | Rev 1        |             |              |                                                                                     |
| Storm Phase: Phase              |              |             |              |                                                                                     |
| Flow Path: Flow Path            |              |             |              |                                                                                     |



**FEH - Surcharge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max.  
Flooded Volume**



|                                                                                                    |  |  |  |                         |             |              |                                                                                     |  |
|----------------------------------------------------------------------------------------------------|--|--|--|-------------------------|-------------|--------------|-------------------------------------------------------------------------------------|--|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  |  |  | Date:<br>01/09/2025     |             |              |  |  |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path           |  |  |  | Designed by:<br>C. Salt | Checked by: | Approved By: |                                                                                     |  |
|                                                                                                    |  |  |  | Revision:<br>Rev 1      |             |              |                                                                                     |  |

| Junction | Storm Event                                          | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status     |
|----------|------------------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| S720     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 60.85<br>0      | 59.32<br>0       | 60.325         | 1.005          | 44.7              | 1.137                     | 0.000                    | 44.2               | 55.752                      | Surcharged |
| S719     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 60.54<br>0      | 58.04<br>0       | 60.151         | 2.111          | 44.2              | 2.387                     | 0.000                    | 34.5               | 76.893                      | Surcharged |
| S718     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 60.40<br>5      | 57.92<br>5       | 60.117         | 2.192          | 56.2              | 2.479                     | 0.000                    | 51.3               | 104.639                     | Flood Risk |
| S717     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 60.78<br>5      | 57.78<br>5       | 60.037         | 2.252          | 86.9              | 3.979                     | 0.000                    | 82.5               | 221.484                     | Surcharged |
| S716     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 60.91<br>5      | 57.43<br>0       | 59.884         | 2.454          | 98.3              | 2.775                     | 0.000                    | 100.4              | 262.449                     | Surcharged |
| S715     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 60.65<br>5      | 57.31<br>5       | 59.648         | 2.333          | 113.5             | 2.639                     | 0.000                    | 115.0              | 288.722                     | Surcharged |
| S714     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 60.33<br>5      | 57.23<br>0       | 59.390         | 2.160          | 130.9             | 3.090                     | 0.000                    | 136.4              | 339.601                     | Surcharged |
| S713     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 59.94<br>0      | 55.19<br>0       | 58.782         | 3.592          | 208.9             | 5.139                     | 0.000                    | 202.1              | 534.768                     | Surcharged |
| S712     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 59.97<br>5      | 55.12<br>0       | 58.505         | 3.385          | 239.6             | 5.981                     | 0.000                    | 243.6              | 692.887                     | Surcharged |
| S711     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 59.00<br>0      | 54.94<br>5       | 57.661         | 2.716          | 279.8             | 4.800                     | 0.000                    | 277.8              | 774.360                     | Surcharged |
| S710     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 58.36<br>5      | 54.75<br>0       | 56.789         | 2.039          | 311.5             | 3.602                     | 0.000                    | 308.3              | 831.157                     | Surcharged |
| S709     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 57.70<br>0      | 54.64<br>0       | 56.274         | 1.634          | 355.9             | 2.887                     | 0.000                    | 353.7              | 900.750                     | Surcharged |
| S708     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 57.57<br>5      | 54.50<br>0       | 55.831         | 1.331          | 392.7             | 2.351                     | 0.000                    | 391.1              | 1045.256                    | Surcharged |
| S707     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 57.66<br>0      | 54.48<br>0       | 55.689         | 1.209          | 427.6             | 2.136                     | 0.000                    | 426.3              | 1088.788                    | Surcharged |
| S706     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 57.64<br>5      | 54.40<br>5       | 55.341         | 0.936          | 448.1             | 1.653                     | 0.000                    | 447.0              | 1113.881                    | Surcharged |
| S705     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 57.00<br>0      | 54.28<br>5       | 55.067         | 0.782          | 462.2             | 1.382                     | 0.000                    | 460.6              | 1150.100                    | Surcharged |
| S704     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 56.00<br>0      | 54.13<br>5       | 54.605         | 0.470          | 460.6             | 0.831                     | 0.000                    | 458.7              | 1145.380                    | OK         |
| S703     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 56.00<br>0      | 54.11<br>0       | 54.433         | 0.323          | 460.1             | 0.571                     | 0.000                    | 459.2              | 1154.705                    | OK         |
| S702     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 55.80<br>0      | 53.52<br>5       | 54.258         | 0.733          | 37.2              | 1.295                     | 0.000                    | 29.8               | 149.885                     | Surcharged |
| S701     | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 54.70<br>0      | 53.37<br>5       | 54.037         | 0.662          | 37.2              | 0.749                     | 0.000                    | 29.8               | 153.081                     | Surcharged |
| Outfall  | FEH - Surge:<br>100 years: +45 %:<br>60 mins: Summer | 54.20<br>0      | 53.34<br>0       | 54.025         | 0.685          | 37.2              | 0.000                     | 0.000                    | 37.2               | 156.358                     | Flood Risk |

|                                                                                                    |  |                         |             |                                                                                     |              |
|----------------------------------------------------------------------------------------------------|--|-------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Project:<br>Mowbray (Land North of Horsham)<br>Catchment 7 - Hydraulic Model<br>Surcharged Outfall |  | Date:<br>01/09/2025     |             |  |              |
|                                                                                                    |  | Designed by:<br>C. Salt | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Phase<br>Flow Path: Flow Path |  | Revision:<br>Rev 1      |             |                                                                                     |              |

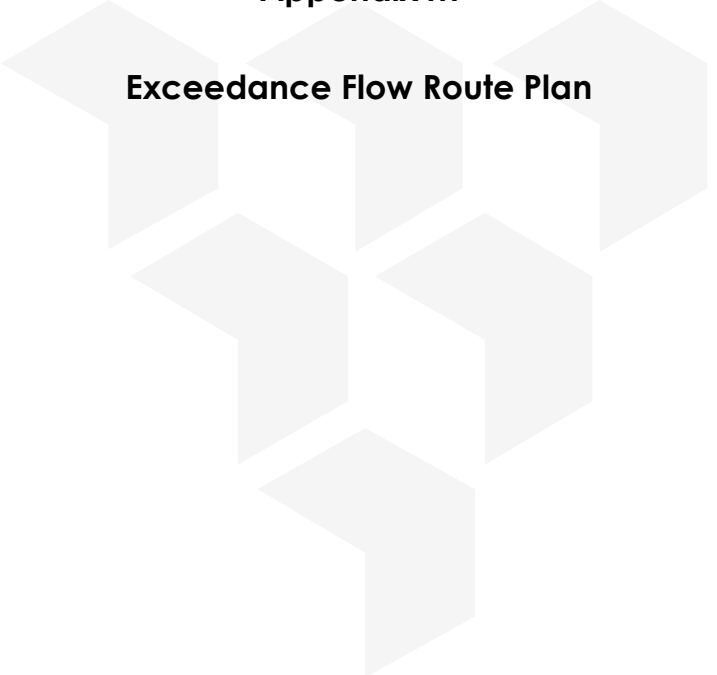


**FEH - Surcharge: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item:**  
**Rank By: Max. Resident Volume**

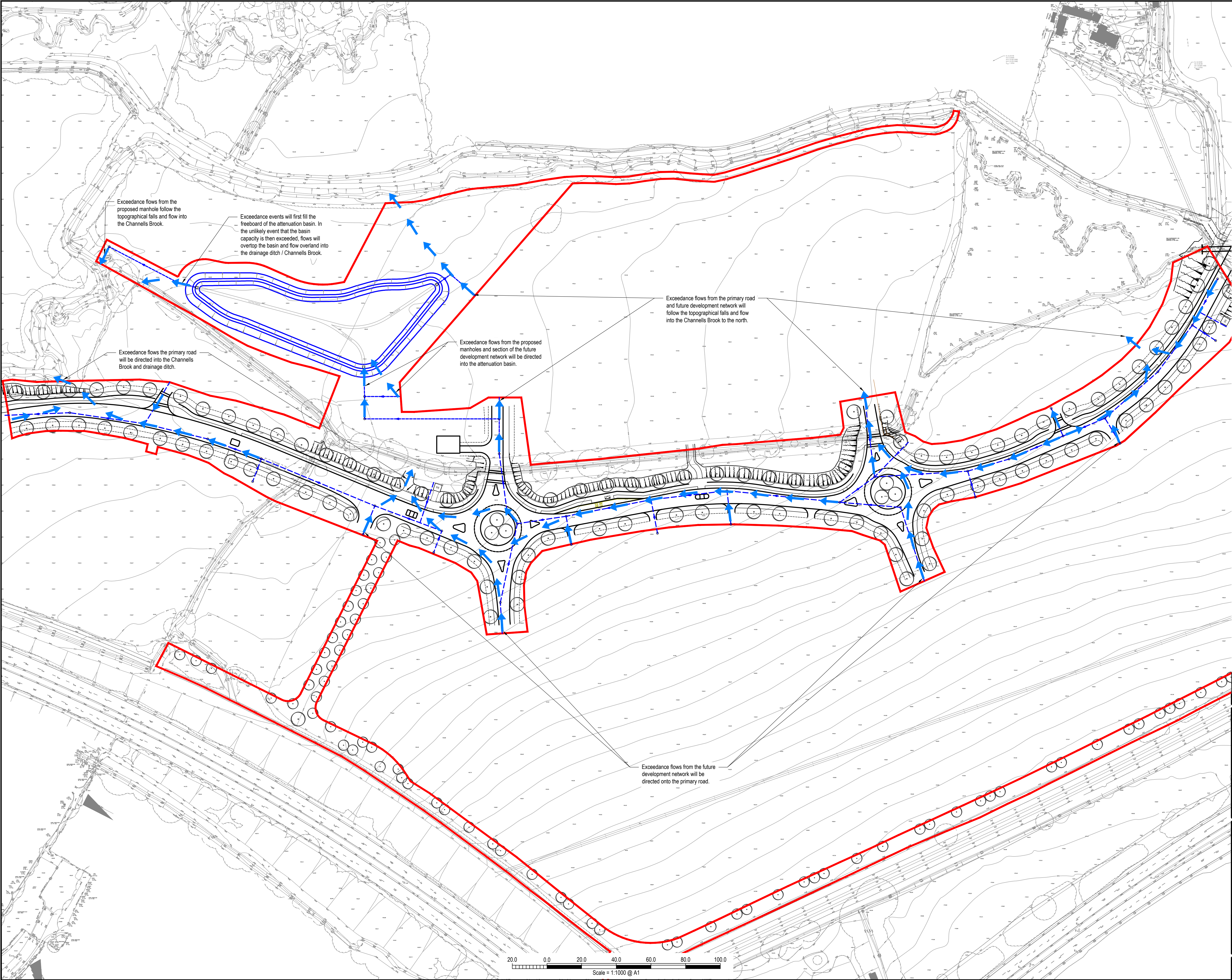
| Stormwater Control | Storm Event                                          | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Percentage Available (%) | Status     |
|--------------------|------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|--------------------------|------------|
| Pond 7a            | FEH - Surcharge: 100 years: +45 %: 4320 mins: Winter | 55.372            | 55.372            | 1.822             | 1.822             | 103.9             | 5946.232                  | 0.000                    | 0.000                  | 74.2               | 24023.461                   | -11.478                  | Flood Risk |

## **Appendix M**

### **Exceedance Flow Route Plan**

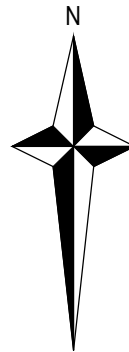






- NOTES**
1. This drawing is to be read in conjunction with all other relevant documents and specifications.
  2. Do not scale from this drawing.
  3. This drawing is for planning purposes only and must not be used for any other purpose.
  4. No flooding occurs in the 1 in 100yr + CC storm event. This plan shows exceedance flows in the event of system blockage or a flood event exceeding the 1 in 100yr + CC event. Refer to InfoDrainage calculations accompanying the Flood Risk Assessment report.
  5. Any discrepancies between this drawing and any other relevant information must be reported to the engineer at the earliest possible stage.

- KEY**
- Application boundary
  - Proposed surface water sewer and manhole
  - Exceedance flow path



|      |                               |            |    |      |
|------|-------------------------------|------------|----|------|
| P2   | Application boundary updated. | 12/09/2025 | JD | CS   |
| P1   | First issue.                  | 03/09/2025 | JD | CS   |
| Rev. | Description                   | Date       | By | Chkd |



**Glanville**  
Survey > Plan > Engineer

 Civil Engineering

 Structural Engineering

 Transport Planning

 Highways Engineering

 Building Surveying

 Geomatics

 Hertfordshire

 Oxfordshire

 Cambridgeshire

 Bristol

|             |                                                       |        |                |
|-------------|-------------------------------------------------------|--------|----------------|
| Client:     | Legal & General<br>(Strategic Land North Horsham) Ltd |        |                |
| Project:    | Mowbray (Land North of Horsham)                       |        |                |
| Title:      | RMA2 – Employment Land<br>Exceedance Flow Route Plan  |        |                |
| Engineer:   | C. Salt                                               | Date:  | September 2025 |
| Director:   | J. Birch                                              | Scale: | 1:1000 @ A1    |
| Status:     | PLANNING                                              |        |                |
| Drawing No. | MOW-RMA2-PH2-1208                                     |        | Rev<br>P2      |



## **Appendix N**

### **S.106 Southern Water Consent**



Ms Charlotte Salt  
Glanville Consultants Ltd  
Cornerstone House  
62 Foxhall Road  
Didcot  
Oxon  
OX11 7AD

Your ref

Our ref  
PAPER\_19451

Date  
15 February 2023

Contact

Tel 0330 303 0119

Dear Ms Salt,

#### Application to Connect to the Public Sewerage System - Section 106.

Location: Mowbray Land North of Horsham, Horsham, West Sussex, RH12 5QR – Consent A.

We are pleased to advise that your Section 106 application to connect to the public foul sewer, as shown on your drawing GLA-S106-ZZ-D-C-1021 Revision P1 dated 12/12/2022, is approved by Southern Water. Our approval means we are satisfied with your connection method.

Connections to existing/new Southern Water assets (i.e., manholes) and the arrangement of Southern Water assets (i.e., pipe junctions within manholes) should always be in accordance with the new Design and Construction Guidance manual ("the Code") and Southern Water's guidance documentation. [water.org.uk/sewerage-sector-guidance-approved-documents/](https://www.water.org.uk/sewerage-sector-guidance-approved-documents/)

This Section 106 approval does not confirm that public sewer network capacity is available at your location for the proposed development. The availability of capacity may be assessed through the Pre-Planning Enquiry process.

Please note that your connection should not proceed if:

- There are unapproved changes to your submitted plan or to the intended connection point. Any unapproved changes may lead to us disconnecting your connection under S109 of the Water Industry Act 1991.
- The relevant Planning Authority has set out conditions relating to the site's drainage and those conditions have not yet been discharged.
- You have not consulted our Health and Safety Advisory that can be viewed at the following link [southernwater.co.uk/developing-building/health-and-safety](https://southernwater.co.uk/developing-building/health-and-safety)
- You have not obtained the necessary Building Regulations Approvals or, if relevant, obtained a Highway Authority Road Opening License

- Landowner consent has not been obtained where your connection is to be made through another Party's land.

### What Comes Next?

Now you have received our approval, you will now need to arrange with your contractor to carry out your works on site to connect into our sewer.

Please contact Malcolm Penny our Assistant Adoption Manager for this area on 07922 860784 giving at least two full working days' notice, in order for a mutually convenient date and time for the inspection of the works to be arranged.

Yours sincerely,



Samantha Jenkins  
Interim Head of Developer Services  
**Developer Services**

