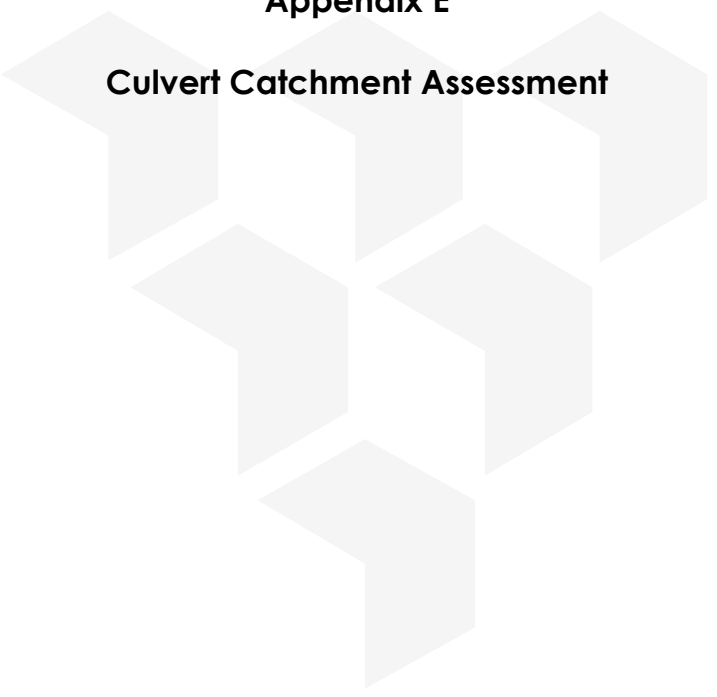


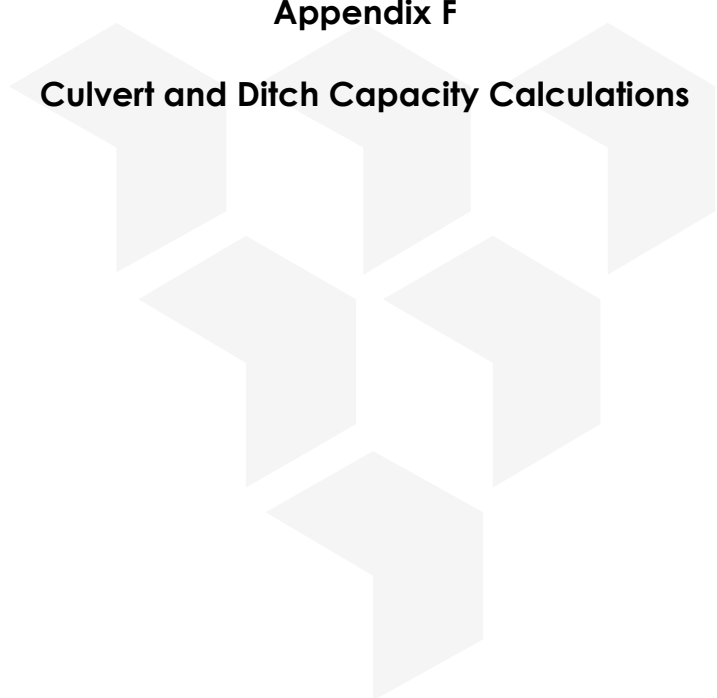


Appendix E

Culvert Catchment Assessment



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.		Rev
MOW-RMA2-PH2-1207		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 ²)	6,007	Post-development catchment area.
Runoff coefficient	0.55	Based on sloping clay soils.
Total site area (m ²)	6,007	

Rainfall Calculation

Method: Wall. procedure Z1 * M5-60 Wall. procedure Z2 * M5-D M100-D / D D * Q_{BAR}

1 in 1 YEAR

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

1 in 2 YEAR

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

1 in 30 YEAR

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

1 in 100 YEAR

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

1 in 100 YEAR +45% CLIMATE CHANGE

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

PIPE CAPACITY

Diameter (mm)	Gradient	Capacity (l/s)
450	1:79	358.6

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 ²)	27,180	Post-development catchment area.
Runoff coefficient	0.55	Based on sloping clay soils.
Total site area (m ²)	27,180	

Rainfall Calculation

Method: Wall. procedure Z1 * M5-60 Wall. procedure Z2 * M5-D M100-D / D D * Q_{BAR}

1 in 1 YEAR

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

1 in 2 YEAR

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

1 in 30 YEAR

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

1 in 100 YEAR

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

1 in 100 YEAR +45% CLIMATE CHANGE

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

PIPE CAPACITY

Diameter (mm)	Gradient	Capacity (l/s)
450	1:114	298.5

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 ²)	61,684	Post-development catchment area.
Runoff coefficient	0.55	Based on sloping clay soils.
Total site area (m ²)	61,684	

Rainfall Calculation

Method: Wall. procedure Z1 * M5-60 Wall. procedure Z2 * M5-D M100-D / D D * Q_{BAR}

1 in 1 YEAR

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

1 in 2 YEAR

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

1 in 30 YEAR

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

1 in 100 YEAR

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

1 in 100 YEAR +45% CLIMATE CHANGE

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

PIPE CAPACITY

Diameter (mm)	Gradient	Capacity (l/s)
600	1:81	762.8

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 ²)	1,521	Post-development catchment area.
Runoff coefficient	0.55	Based on sloping clay soils.
Total site area (m ²)	1,521	

Rainfall Calculation

Method: Wall. procedure Z1 * M5-60 Wall. procedure Z2 * M5-D M100-D / D D * Q_{BAR}

1 in 1 YEAR

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

1 in 2 YEAR

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

1 in 30 YEAR

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

1 in 100 YEAR

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

1 in 100 YEAR +45% CLIMATE CHANGE

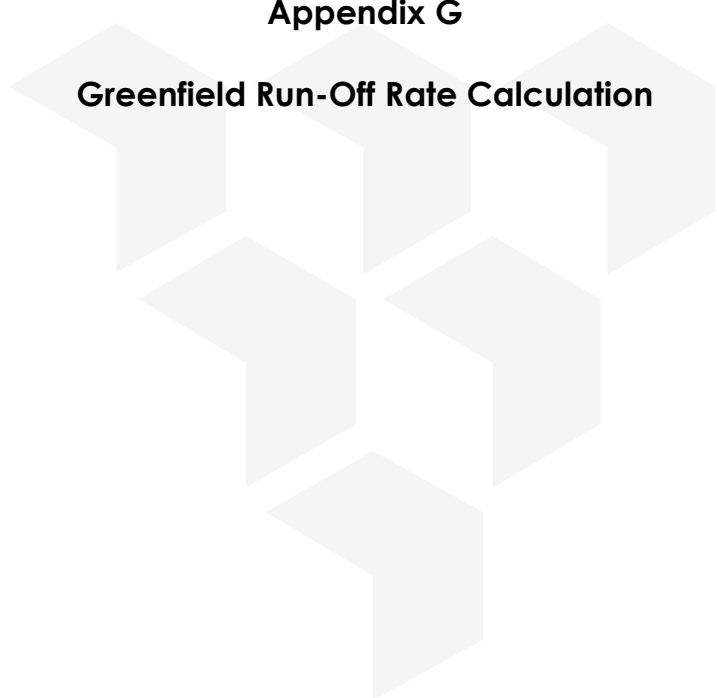
Storm Duration D (min)	Z1	M5-D (mm)	Z2 (1 in 100)	M100-D (mm)	Rainfall Intensity i (mm/hr)	Runoff (l/s)
60	1.00	20	2.03	40.6	58.87	13.7

PIPE CAPACITY

Diameter (mm)	Gradient	Capacity (l/s)
450	1:44	480.6

Existing Ditch Capacity Calculations
Mowbray, Horsham
RMA2 - Employment Land

Culvert Location Reference:			C1	C2	C3	C4	C5	C6	C7
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 ²	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 _H	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	1,117	1,156	1,355	1,702	807	3,051	4,850



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

Greenfield runoff

Method

Method	IH124		
	<u>My value</u>		<u>Map value</u>
SAAR (mm)	810 mm		810
How should SPR be derived?	WRAP soil type		
WRAP soil type	4		4
SPR	0.47		
QBar (IH124) (l/s)	5.7 l/s		

Growth curve factors

	<u>My value</u>		<u>Map value</u>
Hydrological region	7		7
1 year growth factor	0.85		
2 year growth factor	0.88		
10 year growth factor	1.62		
30 year growth factor	2.3		
100 year growth factor	3.19		
200 year growth factor	3.74		

Results

Method	IH124
Flow rate 1 year (l/s)	4.9 l/s
Flow rate 2 year (l/s)	5 l/s
Flow rate 10 years (l/s)	9.3 l/s
Flow rate 30 years (l/s)	13.2 l/s
Flow rate 100 years (l/s)	18.3 l/s
Flow rate 200 years (l/s)	21.4 l/s

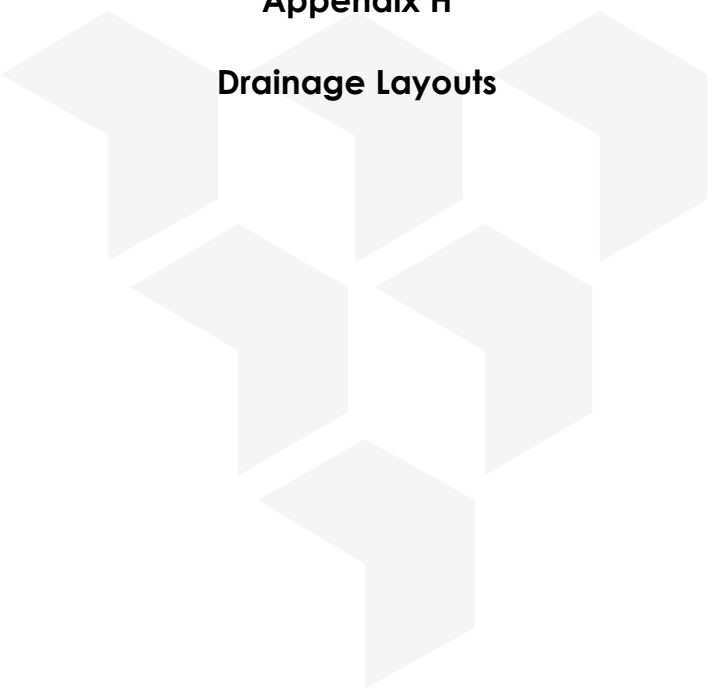
Disclaimer

This report was produced using the Greenfield runoff rate estimation tool (2.0.1) developed by HR Wallingford and available at uksuds.com (<https://www.uksuds.com/>).

The use of this tool is subject to the UK SuDS terms and conditions and licence agreement, which can both be found at [uksuds.com/terms-conditions](https://www.uksuds.com/terms-conditions) (<https://www.uksuds.com/terms-conditions>). The outputs from this tool have been used to estimate Greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, Centre for Ecology and Hydrology, Wallingford Hydrosolutions or any other organisation for the use of these data in the design or operational characteristics of any drainage scheme.

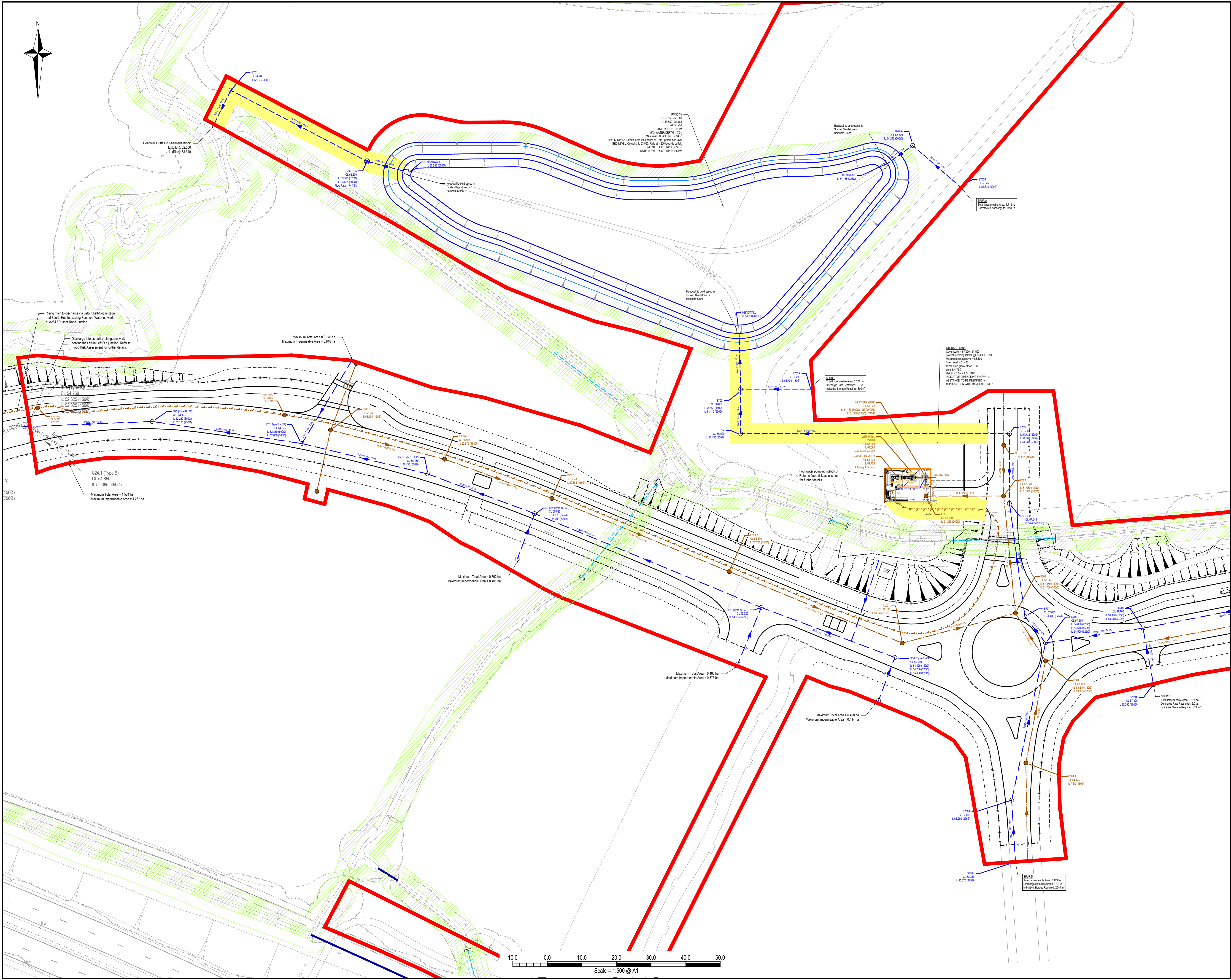
We use cookies on this site to enhance your user experience

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



Appendix H

Drainage Layouts



NOTES

- This drawing is to be read in conjunction with all other relevant documents and specifications.
- Do not scale from this drawing.
- This drawing is for planning purposes only and must not be used for any other purpose.
- 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
- 3m maintenance strip to culverts, watercourses and basin

P3	Information at surface water spurs updated.	19/12/2025	DS	CS
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
(Strategic Land North Horsham) Ltd

Project: Mowbray (Land North of Horsham)

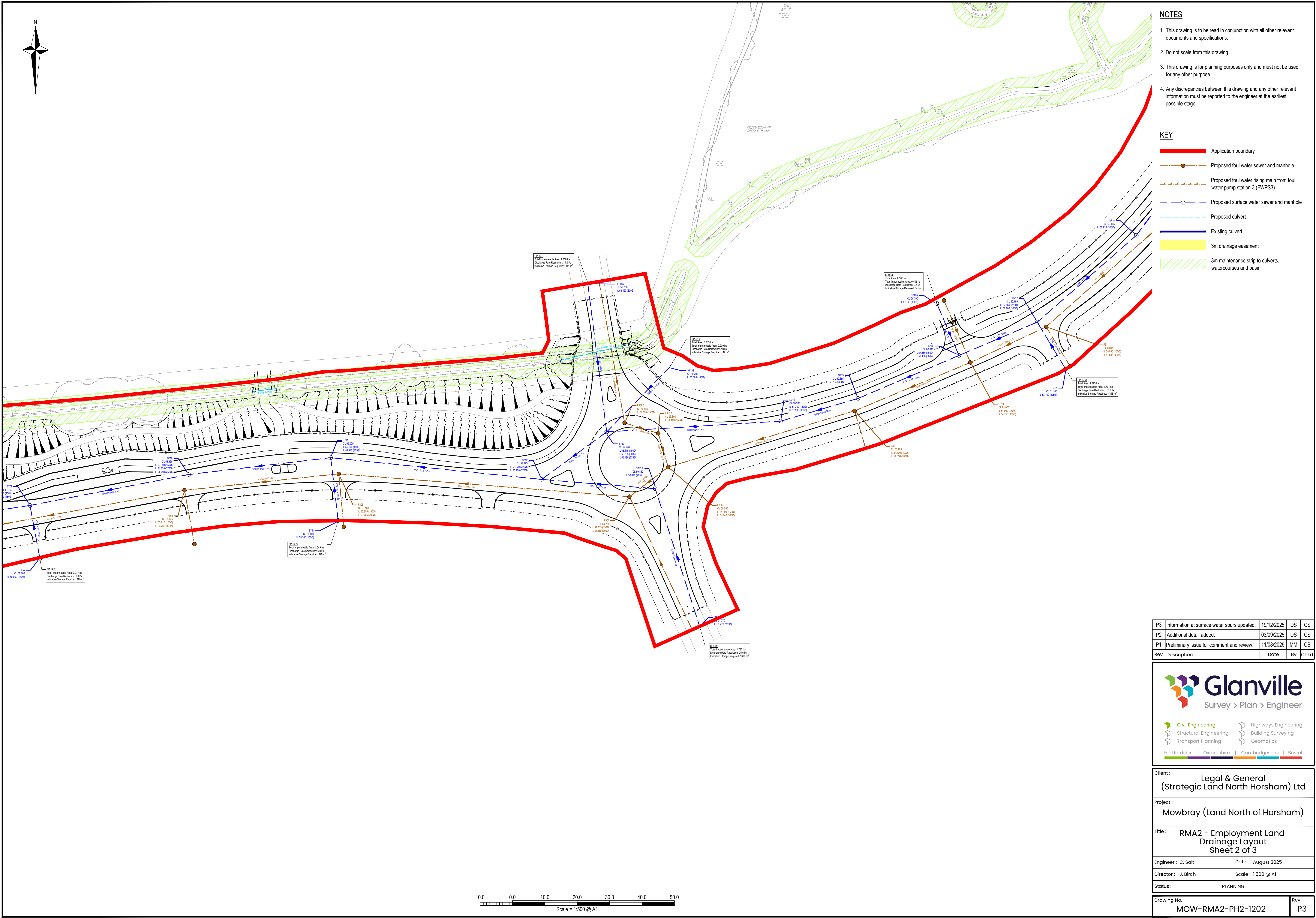
Title: RMA2 – Employment Land
Drainage Layout
Sheet 1 of 3

Engineer: C. Salt Date: August 2025

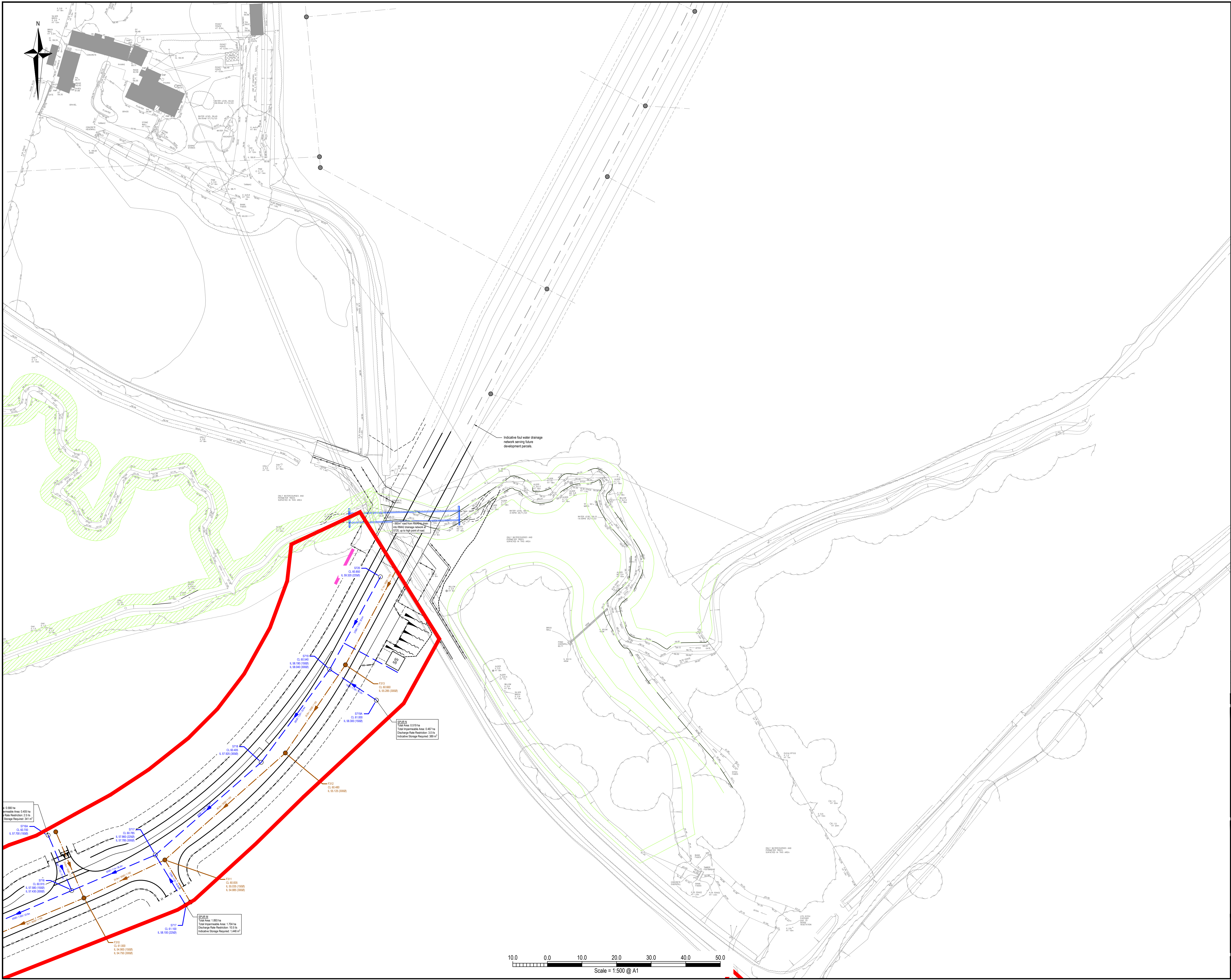
Director: J. Birch Scale: 1:500 @ A1

Status: PLANNING

Drawing No. MOW-RMA2-PH2-1201 Rev P3



Client : Legal & General (Strategic Land North Horsham) Ltd	
Project : Mowbray (Land North of Horsham)	
Title : RMA2 – Employment Land Drainage Layout Sheet 2 of 3	
Engineer: C. Solt	Date : August 2025
Director: J. Birch	Scale : 1:500 @ A1
Status : PLANNING	
Drawing No. MOW-RMA2-PH2-1202	Rev P3



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
- 3m maintenance strip to culverts, watercourses and basin

P4	Information at surface water spurs updated.	19/12/2025	DS	CS
P3	Application boundary updated.	12/09/2025	JD	CS
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



Survey > Plan > Engineer

 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
Drainage Layout
Sheet 3 of 3

Engineer: C. SaltDate: August 2025

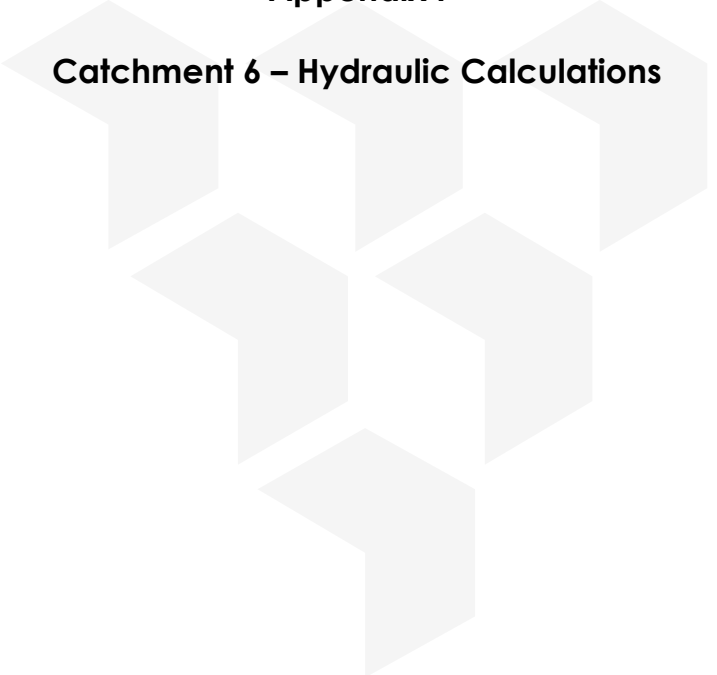
Director: J. BirchScale: 1:500 @ A1

Status: PLANNING

Drawing No. MOW-RMA2-PH2-1203Rev P4

Appendix I

Catchment 6 – Hydraulic Calculations



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

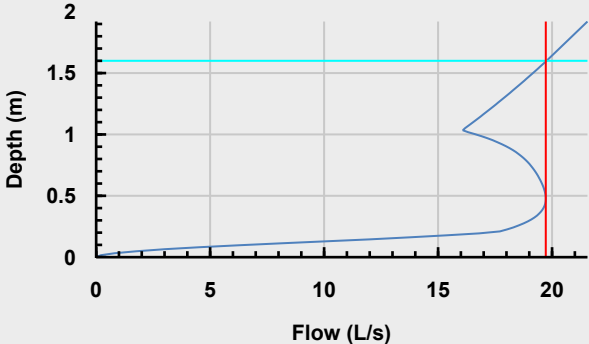


Inlets

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 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 2.003	(None)	No Restriction
	Inlet (1)	Highway Area 19 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 Highway Area 13	(None)	No Restriction
	Inlet (1)	2.101	(None)	No Restriction
S23	Inlet	2.006 Highway Area 11 Highway Area 12 Highway Area 14 Highway Area 15	(None)	No Restriction
S22	Inlet	2.007 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: S104		Revision: 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	☒	
	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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase Flow Path: S104	Revision: 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

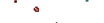
Advanced

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

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

Name	Cover Level (m) 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 54.430		Diameter / Length: 1.500					Manhole	{a} Free Discharge	
E:519689.665 N:133368.529	2.470			{a} 2.000	Pipe	54.430	Diam/Width: 525	Not Applicable		
S29	56.525 54.235		Diameter / Length: 1.500	{1} 2.000	Pipe	54.235	Diam/Width: 525	Manhole	{a} Free Discharge	
E:519651.049 N:133382.996	2.290			{a} 2.001	Pipe	54.235	Diam/Width: 525	Not Applicable		
S28	55.825 54.000		Diameter / Length: 1.500	{1} 2.001	Pipe	54.075	Diam/Width: 525	Manhole	{a} Free Discharge	
E:519585.537 N:133410.128	1.825			{a} 2.002	Pipe	54.000	Diam/Width: 600	Not Applicable		
S27	55.450 52.435		Diameter / Length: 1.500	{1} 2.002	Pipe	52.435	Diam/Width: 600	Manhole	{a} Free Discharge	
E:519554.630 N:133421.601	3.015			{a} 2.003	Pipe	52.435	Diam/Width: 600	Not Applicable		
S26	54.975 52.350		Diameter / Length: 1.500	{1} 2.003	Pipe	52.350	Diam/Width: 600	Manhole	{a} Free Discharge	
E:519518.308 N:133430.390	2.625			{a} 2.004	Pipe	52.350	Diam/Width: 600	Not Applicable		

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

Name	Cover Level (m) 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 52.100		Diameter / Length: 1.800	{1} 2.004	Pipe	52.250	Diam/Width: 600	Manhole	{a} Free Discharge	
E:519475.001 N:133436.769	2.375			{a} 2.005	Pipe	52.100	Diam/Width: 750	Not Applicable		
S24	54.750 52.025		Diameter / Length: 1.800	{1} 2.005	Pipe	52.025	Diam/Width: 750	Manhole	{a} Free Discharge	
E:519438.209 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 51.980		Diameter / Length: 1.800	{1} 2.006	Pipe	51.980	Diam/Width: 750	Manhole	{a} Free Discharge	
E:519416.290 N:133427.398	3.030			{a} 2.007	Pipe	51.980	Diam/Width: 750	Not Applicable		
S22	55.715 51.930		Diameter / Length: 1.800	{1} 2.007	Pipe	51.930	Diam/Width: 750	Manhole	{a} Free Discharge	
E:519399.763 N:133408.908	3.785			{a} 2.008	Pipe	51.930	Diam/Width: 750	Not Applicable		

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

Name	Cover Level (m) 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 51.645		Diameter / Length: 1.800	{1} 2.008	Pipe	51.645	Diam/Width: 750	Manhole	{a} Free Discharge	
E:519383.867 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 50.950		Diameter / Length: 1.200	{1} 2.010	Pipe	50.950	Diam/Width: 600	Manhole	{a} Free Discharge	
E:519303.005 N:133390.353	2.550									
				{a} 2.011	Pipe	50.950	Diam/Width: 225	Not Applicable		
HW6	52.900 50.900		Diameter / Length: 1.200	{1} 2.011	Pipe	50.900	Diam/Width: 225	Manhole		
E:519297.122 N:133397.985	2.000									
								Not Applicable		

Project: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: S104		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:	Approved By:	
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: S104		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Highway 2		Revision: 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 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase Flow Path: Highway 2	Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase Flow Path: Highway 2		Revision: Rev 3			

Name	Cover Level (m) 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 53.825		Diameter / Length: 1.200					Manhole	{a} Free Discharge	
E:519256.591 N:133366.343	1.205			{a} 4.000	Pipe	53.825	Diam/Width: 225	Not Applicable		
S2	56.050 53.435		Diameter / Length: 1.200	{1} 4.000	Pipe	53.435	Diam/Width: 225	Manhole	{a} Free Discharge	
E:519323.850 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 52.200		Diameter / Length: 1.200	{1} 4.001	Pipe	52.200	Diam/Width: 225	Manhole	{a} Free Discharge	
E:519327.658 N:133359.742	1.850									
				{a} 4.002	Pipe	52.200	Diam/Width: 225	Not Applicable		

Project: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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
TOTAL		0.0		0.066				0.066

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

Name	Cover Level (m) 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 55.175		Diameter / Length: 1.200					Manhole	{a} Free Discharge	
E:519341.545 N:133342.798	1.425			{a} 5.000	Pipe	55.175	Diam/Width: 225	Not Applicable		
S2	56.050 53.435		Diameter / Length: 1.200	{1} 4.000	Pipe	53.435	Diam/Width: 225	Manhole	{a} Free Discharge	
E:519323.850 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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
TOTAL		0.0		0.057				0.057

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

Name	Cover Level (m) 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 56.075		Diameter / Length: 1.200					Manhole	{a} Free Discharge	
E:519378.196 N:133344.601	1.575			{a} 3.000	Pipe	56.075	Diam/Width: 225	Not Applicable		
S7	57.325 55.725		Diameter / Length: 1.200	{1} 3.000	Pipe	55.725	Diam/Width: 225	Manhole	{a} Free Discharge	
E:519378.272 N:133360.573	1.600			{a} 3.001	Pipe	55.725	Diam/Width: 225	Not Applicable		
S8	57.215 55.388		Diameter / Length: 1.200	{1} 3.001	Pipe	55.388	Diam/Width: 225	Manhole	{a} Free Discharge	
E:519383.197 N:133373.461	1.827			{a} 3.002	Pipe	55.388	Diam/Width: 225	Not Applicable		
S9	56.850 55.050		Diameter / Length: 1.200	{1} 3.002	Pipe	55.050	Diam/Width: 225	Manhole	{a} Free Discharge	
E:519387.869 N:133385.684	1.800			{a} 3.003	Pipe	55.050	Diam/Width: 225	Not Applicable		
S10	54.900 52.665		Diameter / Length: 1.200	{1} 3.003	Pipe	52.665	Diam/Width: 225	Manhole	{a} Free Discharge	
E:519375.265 N:133390.380	2.235			{a} 3.004	Pipe	52.665	Diam/Width: 225	Not Applicable		

Project: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Highway 1		Revision: 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
TOTAL		0.0		0.089				0.089

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

Name	Cover Level (m) 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 52.385		Diameter / Length: 1.200					Manhole	{a} Free Discharge	
E:519451.4 10 N:133424.7 84	2.465			{a} 2.101	Pipe	52.385	Diam/Width: 450	Not Applicable		
S24	54.750 52.025		Diameter / Length: 1.800	{1} 2.005	Pipe	52.025	Diam/Width: 750	Manhole	{a} Free Discharge	
E:519438.2 09 N:133435.5 86	2.725			{2} 2.101	Pipe	52.325	Diam/Width: 450			
				{a} 2.006	Pipe	52.025	Diam/Width: 750	Not Applicable		

Project: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: S104 (Branch)		Revision: 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
TOTAL		0.0		1.595				1.278

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

Name	Cover Level (m) 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		
S31	55.275 53.925		Diameter / Length: 1.200					Manhole	{a} Free Discharge	
E:519394.745 N:133429.518	1.350			{a} 6.000	Pipe	53.925	Diam/Width: 150	Not Applicable		
S21	54.300 51.645		Diameter / Length: 1.800	{1} 2.008	Pipe	51.645	Diam/Width: 750	Manhole	{a} Free Discharge	
E:519383.867 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Private		Revision: 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
TOTAL		0.0		0.004				0.004

Project: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Network Design Criteria Storm Phase: Phase	Revision: 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 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	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
--------------	--------------------------

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



Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
S20	Free Discharge			
HW6	Fixed Surcharged Level	☐	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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025			
	Designed by: C. Salt	Checked by:	Approved By:	
Report Details: Type: Outfall Details Storm Phase: Phase	Revision: Rev 3			

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

Project: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025			
	Designed by: C. Salt	Checked by:	Approved By:	
Report Details: Type: Outfall Details Storm Phase: Phase	Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025			
	Designed by: C. Salt	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Revision: 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	☐

Rainfall		
FEH22	Type: FEH	
Site Location	GB 519000 133350 TQ 19000 33350	
Rainfall Version	2022	
Summer	☒	
Winter	☒	

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

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

Project: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: S104		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: S104		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: S104		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: S104	Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: S104	Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: S104		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 2	Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 1		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 1	Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 1	Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Highway 1		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Highway 1		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Highway 1		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 1		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 1		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 1		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: S104 (Branch)	Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: S104 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: S104 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: S104 (Branch)	Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: S104 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: S104 (Branch)	Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Private		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Private		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Private		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Private	Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Private	Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model	Date: 27/08/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Private	Revision: Rev 3		



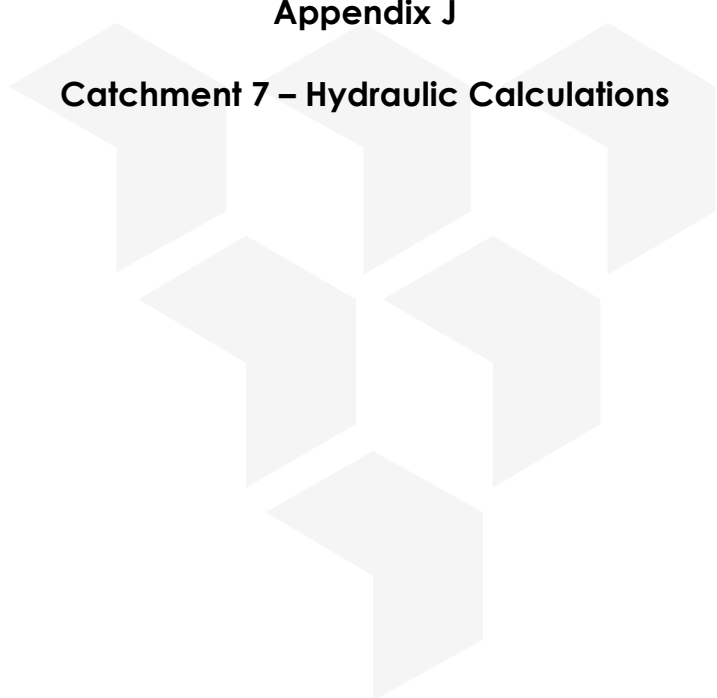


FEH22: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow

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: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Spur M		Revision: Rev 2			

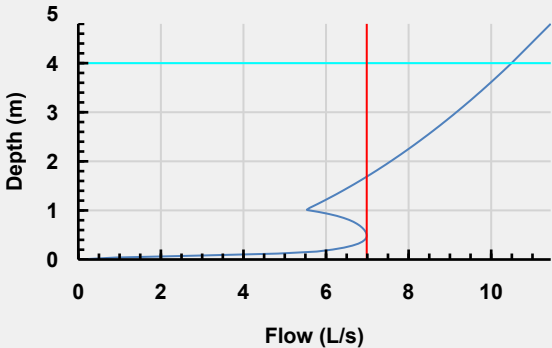
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S717A	Manhole	520081.050	133419.104	61.100	3.000	58.100	Circular	1.200
S717	Manhole	520072.288	133433.585	60.785	3.000	57.785	Circular	1.500

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)	4.000	
	Design Flow (L/s)	10.5	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0113-1050-4000-1050	
S717A			
S717	Outlet	Pipe (3)	Free Discharge

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Spur M		Revision: Rev 2			

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	9.2	(None)	(None)

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Spur M		Revision: Rev 2			

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
TOTAL		0.0		1.964				1.775

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Spur L		Revision: Rev 2			

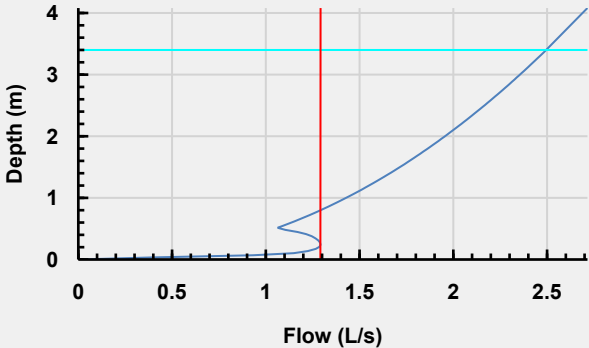
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S716A	Manhole	520041.298	133439.328	60.700	3.000	57.700	Circular	1.200
S716	Manhole	520048.125	133423.296	60.915	3.485	57.430	Circular	1.200

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)	3.400	
	Design Flow (L/s)	2.5	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0056-2500-3400-2500	
S716A			
S716	Outlet	Pipe (4)	Free Discharge

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Spur L		Revision: Rev 2			

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	2.4	(None)	(None)

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Spur L		Revision: Rev 2			

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
TOTAL		0.0		0.607				0.446

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Spur I		Revision: Rev 2			

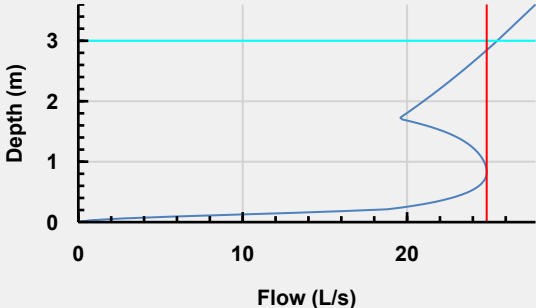
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S712B	Manhole	519966.129	133345.372	61.270	3.000	58.270	Circular	1.200
S712A	Manhole	519954.383	133382.164	59.850	1.780	58.070	Circular	1.200
S712	Manhole	519919.316	133385.031	59.975	4.855	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 (1)	Road 8 Pipe (44)	(None)	No Restriction
S712A	Inlet	Pipe (23)	(None)	No Restriction
	Inlet	Pipe (7)	(None)	No Restriction
S712	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)	25.5	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0192-2550-3000-2550	
			
S712A	Outlet	Pipe (24)	Free Discharge
S712	Outlet	Pipe (8)	Free Discharge

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Spur I		Revision: Rev 2			

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)	38.622	Pipe	193.110		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	25.5	(None)	(None)
Pipe (24)	59.975	55.120		None		(None)	(None)

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Spur I		Revision: Rev 2			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
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
TOTAL		0.0		0.145				0.145

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Spur H		Revision: Rev 2			

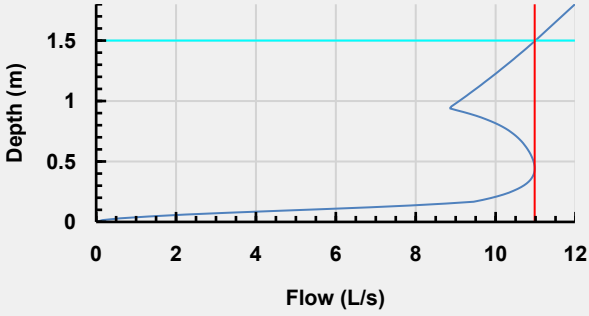
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S713A	Manhole	519933.208	133450.573	59.700	4.280	55.420	Circular	1.500
S713	Manhole	519939.396	133399.704	59.940	4.750	55.190	Circular	1.350

Name	Lock
S713A	None
S713	None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S713A	Inlet	Pipe (27)	(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)	1.500	
	Design Flow (L/s)	11.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0145-1100-1500-1100	
			
S713	Outlet	Pipe (7)	Free Discharge

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Spur H		Revision: Rev 2			

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)	51.244	Pipe	222.801		0.6	225	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: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Spur H		Revision: Rev 2			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Road 7	S713		Time of Concentration	0.177	100	0	100	0.177
TOTAL		0.0		0.177				0.177

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Spur G		Revision: Rev 2			

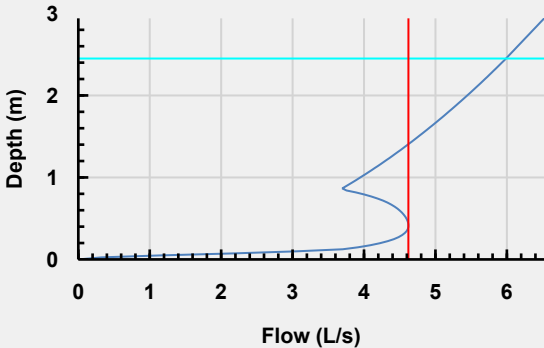
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S711A	Manhole	519856.295	133374.163	59.400	4.100	55.300	Circular	1.500
S711	Manhole	519854.208	133391.742	59.000	4.055	54.945	Circular	1.500

Name	Lock
S711A	None
S711	None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S711A	Inlet	Pipe (57)	(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)	2.450	
	Design Flow (L/s)	6.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0096-6000-2450-6000	
S711A			
S711	Outlet	Pipe (9)	Free Discharge

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Spur G		Revision: Rev 2			

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)	17.703	Pipe	49.867		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	6.5	(None)	(None)

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Spur G		Revision: Rev 2			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Road 10	S711		Time of Concentration	0.102	100	0	100	0.102
TOTAL		0.0		0.102				0.102

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Spur E		Revision: Rev 2			

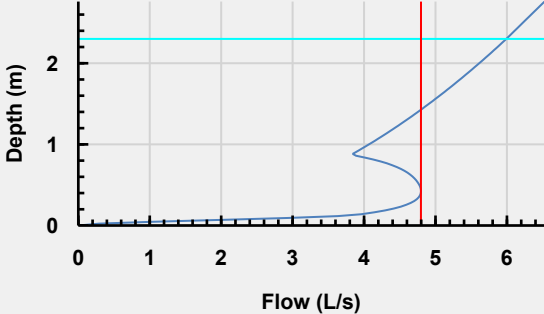
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S709A	Manhole	519764.443	133360.655	59.000	3.950	55.050	Circular	1.200
S709	Manhole	519761.400	133376.999	57.700	3.060	54.640	Circular	1.500

Name	Lock
S709A	None
S709	None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S709A	Inlet (1)	Pipe (77)	(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)	55.700	
	Design Depth (m)	2.300	
	Design Flow (L/s)	6.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0097-6000-2300-6000	
S709A			
S709	Outlet	Pipe (11)	Free Discharge

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Spur E		Revision: Rev 2			

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	59.000	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	6.5	(None)	(None)

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Spur E		Revision: Rev 2			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Road 12	S709		Time of Concentration	0.104	100	0	100	0.104
TOTAL		0.0		0.104				0.104

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Spur D		Revision: Rev 2			

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S708B	Manhole	519724.159	133317.291	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 Pipe (74)	(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)	Free Discharge
S708A	Outlet	Pipe (30)	Free Discharge
S708	Outlet	Pipe (12)	Free Discharge

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Spur D		Revision: Rev 2			

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)	10.001	Pipe	125.016		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		(None)	(None)
Pipe (30)	57.575	54.500		None		(None)	(None)

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Spur D		Revision: Rev 2			

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
Road 13	S708		Time of Concentration	0.055	100	0	100	0.055
TOTAL		0.0		0.138				0.138

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Spur B		Revision: Rev 2			

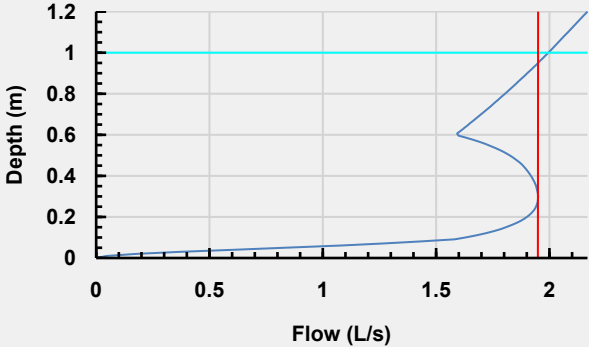
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S703A	Manhole	519669.428	133445.179	56.200	1.470	54.730	Circular	1.500
S703	Manhole	519645.122	133446.124	56.000	1.890	54.110	Circular	1.500

Name	Lock
S703A	None
S703	None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S703A	Inlet	Pipe (39)	(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)	1.000	
	Design Flow (L/s)	2.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0067-2000-1000-2000	
			
S703	Outlet	Pipe (17)	Free Discharge

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Spur B		Revision: Rev 2			

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)	24.324	Pipe	39.233		0.6	300	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	2.2	(None)	(None)

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Spur B		Revision: Rev 2			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
TOTAL		0.0		0.00				0.00

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S702B	Manhole	519720.459	133505.559	56.750	2.380	54.370	Circular	1.500
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)	Free Discharge
S702A	Outlet	Pipe (18)	Free Discharge

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase Flow Path: Spur A	Revision: Rev 2		





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: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025			
	Designed by: C. Salt	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase Flow Path: Spur A	Revision: Rev 2			

Advanced

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

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			

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)	27.916	Pipe	223.328		0.6	600	56.750	54.370
Pipe (18)	8.979	Pipe	12.919		0.6	600	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		(None)	(None)
Pipe (18)	55.550	53.550		None		(None)	(None)

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			

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 Area Diagram	1.715	100	0	100	1.715
TOTAL		0.0		1.715				1.715

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Spur J		Revision: Rev 2			

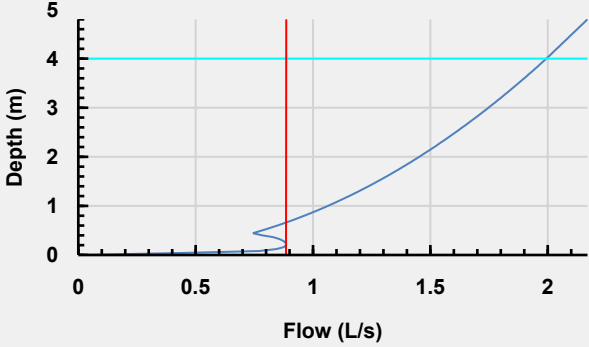
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S713B	Manhole	519958.867	133419.700	60.200	4.595	55.605	Circular	1.200
S713	Manhole	519939.396	133399.704	59.940	4.750	55.190	Circular	1.350

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)	4.000	
	Design Flow (L/s)	2.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0048-2000-4000-2000	
			
S713	Outlet	Pipe (7)	Free Discharge

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Spur J		Revision: Rev 2			

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	2.1	(None)	(None)

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Spur J		Revision: Rev 2			

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
TOTAL		0.0		0.511				0.416

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Spur N		Revision: Rev 2			

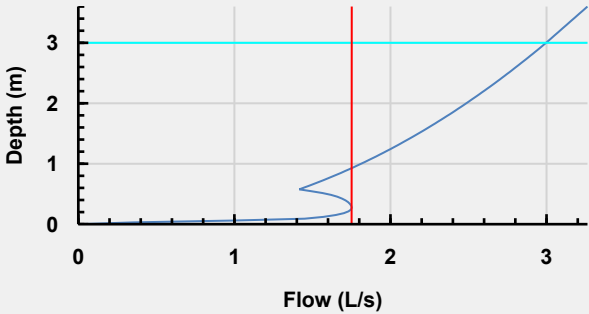
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S719A	Manhole	520136.195	133478.366	61.000	2.700	58.300	Circular	1.200
S719	Manhole	520122.689	133487.245	60.540	2.500	58.040	Circular	1.200

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 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	☒	
	Unit Reference	SHE-0064-3000-3000-3000	
			
S719	Outlet	Pipe (1)	Free Discharge

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Spur N		Revision: Rev 2			

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: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Spur N		Revision: Rev 2			

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
TOTAL		0.0		0.519				0.467

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			

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: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Flow Path	Revision: Rev 2		

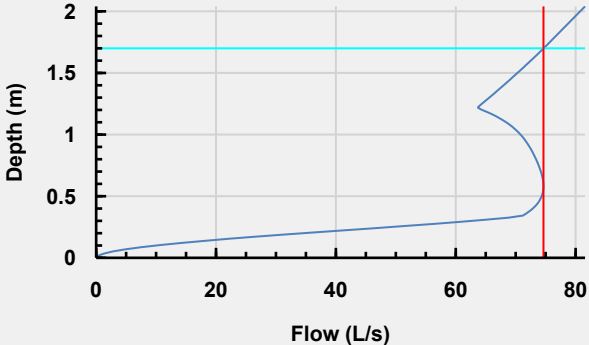


Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S720	Inlet	Road 1	(None)	No Restriction
S719	Inlet	Pipe 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 (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 (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 (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: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			

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)	74.7	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0340-7470-1700-7470	
			
S701	Outlet	Pipe (35)	Free Discharge

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase Flow Path: Flow Path	Revision: Rev 2		





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: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025			
	Designed by: C. Salt	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase Flow Path: Flow Path	Revision: Rev 2			

Advanced

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

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			

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
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 (22)								
Pipe (22)	4.256	Pipe	28.372		0.6	525	58.150	55.750
Pipe (27)	2.881	Pipe	16.005		0.6	525	58.150	55.600
Pipe (25)	51.244	Pipe	222.801		0.6	225	59.700	55.420
Pipe (7)	24.870	Pipe	355.288		0.6	375	59.940	55.190
Branch: Pipe (51)								
Pipe (51)	2.878	Pipe	0.000		0.6	300	62.350	58.800
Pipe (52)	9.727	Pipe	97.268		0.6	225	62.350	58.800
Pipe (41)	21.457	Pipe	107.283		0.6	225	62.350	58.700
Pipe (42)	11.376	Pipe	227.521		0.6	300	62.390	58.500
Branch: Pipe (78)								
Pipe (78)	2.290	Pipe	22.898		0.6	300	62.000	59.100
Pipe (40)	13.449	Pipe	67.244		0.6	225	62.000	59.000
Pipe (48)	69.670	Pipe	199.056		0.6	300	62.400	58.800
Pipe (43)	43.719	Pipe	291.460		0.6	375	62.390	58.450
Branch: Pipe (49)								
Pipe (49)	5.660	Pipe	0.000		0.6	450	61.600	58.600
Pipe (47)	13.107	Pipe	262.148		0.6	450	61.600	58.600
Pipe (46)	2.647	Pipe	52.932		0.6	450	61.600	58.550
Pipe (50)	2.552	Pipe	0.000		0.6	450	61.600	58.500
Pipe (45)	23.723	Pipe	118.617		0.6	450	61.600	58.500
Pipe (44)	8.797	Pipe	293.247		0.6	300	61.000	58.300
Pipe (23)	38.622	Pipe	193.110		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 (79)								
Pipe (79)	4.216	Pipe	84.324		0.6	450	59.700	55.800
Pipe (58)	2.790	Pipe	0.000		0.6	450	59.500	55.750
Pipe (53)	7.397	Pipe	147.941		0.6	450	60.200	55.750
Pipe (54)	21.120	Pipe	211.198		0.6	450	60.200	55.700
Pipe (55)	40.887	Pipe	408.867		0.6	450	59.800	55.600
Pipe (56)	7.610	Pipe	152.202		0.6	450	59.600	55.500
Pipe (57)	31.884	Pipe	212.558		0.6	450	59.600	55.450
Pipe (26)	17.703	Pipe	49.867		0.6	150	59.400	55.300
Pipe (9)	44.150	Pipe	226.408		0.6	375	59.000	54.945
Pipe (10)	49.886	Pipe	453.513		0.6	450	58.365	54.750
Branch: Pipe (38)								
Pipe (38)	2.854	Pipe	28.536		0.6	450	59.350	56.100
Pipe (73)	3.386	Pipe	0.000		0.6	450	59.040	56.000
Pipe (75)	9.918	Pipe	99.177		0.6	450	59.010	56.000
Pipe (76)	16.175	Pipe	161.751		0.6	450	59.010	55.900

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			

Pipe (77)	10.604	Pipe	14.138		0.6	450	59.000	55.800
Pipe (28)	16.625	Pipe	40.549		0.6	150	59.000	55.050
Pipe (11)	28.478	Pipe	203.413		0.6	450	57.700	54.640
Branch: Pipe (80)								
Pipe (80)	13.126	Pipe	32.814		0.6	450	61.900	59.400
Pipe (59)	27.216	Pipe	272.163		0.6	450	61.750	59.000
Pipe (60)	15.894	Pipe	158.943		0.6	225	61.760	58.900
Pipe (61)	63.440	Pipe	57.673		0.6	300	61.250	58.800
Branch: Pipe (33)								
Pipe (33)	9.736	Pipe	194.713		0.6	450	61.000	57.950
Pipe (63)	28.772	Pipe	287.715		0.6	450	61.000	57.900
Pipe (62)	18.605	Pipe	186.050		0.6	225	61.000	57.800
Pipe (64)	42.044	Pipe	105.110		0.6	300	59.900	57.700
Pipe (65)	33.266	Pipe	22.178		0.6	300	59.400	57.300
Branch: Pipe (68)								
Pipe (68)	3.621	Pipe	0.000		0.6	300	59.300	55.900
Pipe (66)	19.675	Pipe	196.754		0.6	300	59.350	55.900
Branch: Pipe (70)								
Pipe (70)	32.567	Pipe	10.177		0.6	300	60.150	59.300
Pipe (69)	6.064	Pipe	60.642		0.6	375	59.300	56.100
Pipe (71)	5.844	Pipe	0.000		0.6	375	59.300	56.000
Pipe (72)	11.848	Pipe	118.480		0.6	375	59.200	56.000
Pipe (67)	12.409	Pipe	124.087		0.6	300	58.800	55.900
Pipe (74)	15.114	Pipe	35.149		0.6	225	58.800	55.800
Pipe (29)	10.001	Pipe	125.016		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
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 (81)								
Pipe (81)	5.543	Pipe	0.000		0.6	300	56.500	54.750
Pipe (39)	5.131	Pipe	256.555		0.6	300	56.500	54.750
Pipe (36)	24.324	Pipe	39.233		0.6	300	56.200	54.730
Pipe (17)	16.135	Pipe	28.813		0.6	600	56.000	54.110
Branch: Pipe (31)								
Pipe (31)	27.916	Pipe	223.328		0.6	600	56.750	54.370
Pipe (18)	8.979	Pipe	12.919		0.6	600	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

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	2.85	(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	9.16	(None)	(None)
Pipe (3)	60.915	57.430		None		(None)	(None)
Branch: Pipe (21)							
Pipe (21)	60.915	57.430		None	2.36	(None)	(None)
Pipe (4)	60.655	57.315		None		(None)	(None)
Pipe (5)	60.335	57.230		None		(None)	(None)
Pipe (6)	59.940	55.190		None		(None)	(None)
Branch: Pipe (37)							

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Flow Path	Revision: Rev 2		



Pipe (37)	59.940	55.190	None	2.12	(None)	(None)
Branch: Pipe (22)						
Pipe (22)	58.150	55.600	None		(None)	(None)
Pipe (27)	59.700	55.420	None		(None)	(None)
Pipe (25)	59.940	55.190	None	11.98	(None)	(None)
Pipe (7)	59.975	55.120	None		(None)	(None)
Branch: Pipe (51)						
Pipe (51)	62.350	58.800	None		(None)	(None)
Pipe (52)	62.350	58.700	None		(None)	(None)
Pipe (41)	62.390	58.500	None	14.70	(None)	(None)
Pipe (42)	62.390	58.450	None		(None)	(None)
Branch: Pipe (78)						
Pipe (78)	62.000	59.000	None		(None)	(None)
Pipe (40)	62.400	58.800	None	4.35	(None)	(None)
Pipe (48)	62.390	58.450	None		(None)	(None)
Pipe (43)	61.000	58.300	None		(None)	(None)
Branch: Pipe (49)						
Pipe (49)	61.600	58.600	None		(None)	(None)
Pipe (47)	61.600	58.550	None		(None)	(None)
Pipe (46)	61.600	58.500	None		(None)	(None)
Pipe (50)	61.600	58.500	None		(None)	(None)
Pipe (45)	61.000	58.300	None		(None)	(None)
Pipe (44)	61.270	58.270	None	27.80	(None)	(None)
Pipe (23)	59.850	58.070	None	25.48	(None)	(None)
Pipe (24)	59.975	55.120	None		(None)	(None)
Pipe (8)	59.000	54.945	None		(None)	(None)
Branch: Pipe (79)						
Pipe (79)	59.500	55.750	None		(None)	(None)
Pipe (58)	60.200	55.750	None		(None)	(None)
Pipe (53)	60.200	55.700	None		(None)	(None)
Pipe (54)	59.800	55.600	None		(None)	(None)
Pipe (55)	59.600	55.500	None		(None)	(None)
Pipe (56)	59.600	55.450	None		(None)	(None)
Pipe (57)	59.400	55.300	None		(None)	(None)
Pipe (26)	59.000	54.945	None	6.52	(None)	(None)
Pipe (9)	58.365	54.750	None		(None)	(None)
Pipe (10)	57.700	54.640	None		(None)	(None)
Branch: Pipe (38)						
Pipe (38)	59.040	56.000	None		(None)	(None)
Pipe (73)	59.010	56.000	None		(None)	(None)
Pipe (75)	59.010	55.900	None		(None)	(None)
Pipe (76)	59.000	55.800	None		(None)	(None)
Pipe (77)	59.000	55.050	None		(None)	(None)
Pipe (28)	57.700	54.640	None	6.53	(None)	(None)
Pipe (11)	57.575	54.500	None		(None)	(None)
Branch: Pipe (80)						
Pipe (80)	61.750	59.000	None		(None)	(None)
Pipe (59)	61.760	58.900	None		(None)	(None)
Pipe (60)	61.250	58.800	None	2.17	(None)	(None)
Pipe (61)	59.900	57.700	None		(None)	(None)
Branch: Pipe (33)						
Pipe (33)	61.000	57.900	None		(None)	(None)
Pipe (63)	61.000	57.800	None		(None)	(None)
Pipe (62)	59.900	57.700	None	4.35	(None)	(None)
Pipe (64)	59.400	57.300	None		(None)	(None)
Pipe (65)	58.800	55.800	None		(None)	(None)
Branch: Pipe (68)						
Pipe (68)	59.350	55.900	None		(None)	(None)
Pipe (66)	58.800	55.800	None		(None)	(None)

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			

Branch: Pipe (70)							
Pipe (70)	59.300	56.100		None		(None)	(None)
Pipe (69)	59.300	56.000		None		(None)	(None)
Pipe (71)	59.200	56.000		None		(None)	(None)
Pipe (72)	58.800	55.900		None		(None)	(None)
Pipe (67)	58.800	55.800		None	4.35	(None)	(None)
Pipe (74)	58.350	55.370		None	13.07	(None)	(None)
Pipe (29)	57.800	55.290		None		(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)
Pipe (15)	56.000	54.135		None		(None)	(None)
Pipe (16)	56.000	54.110		None		(None)	(None)
Branch: Pipe (81)							
Pipe (81)	56.500	54.750		None		(None)	(None)
Pipe (39)	56.200	54.730		None		(None)	(None)
Pipe (36)	56.000	54.110		None	2.17	(None)	(None)
Pipe (17)	55.550	53.550		None		(None)	(None)
Branch: Pipe (31)							
Pipe (31)	56.300	54.245		None		(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	81.57	(None)	(None)
Pipe (35)	54.200	53.340		None		(None)	(None)

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			

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
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 (22)								
Spur H	S713A-1		Time Area Diagram	1.356	100	0	100.0	1.356
Road 7	S713		Time of Concentration	0.177	100	0	100.0	0.177
Branch: Pipe (51)								
Spur I b	S712B-5		Time of Concentration	0.638	100	0	100.0	0.638
Branch: Pipe (78)								
Spur I a	S712B-7		Time of Concentration	0.416	100	0	100.0	0.416
Branch: Pipe (49)								
Spur I c	S712B-10		Time of Concentration	0.459	100	0	100.0	0.459
Spur I d	S712B-1		Time of Concentration	0.269	100	0	100.0	0.269
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 (79)								
Spur G	S711A-6		Time Area Diagram	1.049	100	0	100.0	1.049
Road 10	S711		Time of Concentration	0.102	100	0	100.0	0.102
Road 11	S710		Time of Concentration	0.080	100	0	100.0	0.080
Branch: Pipe (38)								
Spur E	S709A-4		Time Area Diagram	0.977	100	0	100.0	0.977

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			

Road 12	S709		Time of Concentration	0.104	100	0	100.0	0.104
Branch: Pipe (80)								
Spur D a	S708B-12		Time of Concentration	0.740	100	0	100.0	0.740
Branch: Pipe (33)								
Spur D b	S708B-9a		Time Area Diagram	0.955	100	0	100.0	0.955
Branch: Pipe (68)								
Branch: Pipe (70)								
Spur D c	S708B-6		Time of Concentration	0.066	100	0	100.0	0.066
Spur D d	S708B-5		Time of Concentration	0.187	100	0	100.0	0.187
Spur D f	S708B-3		Time of Concentration	0.180	100	0	100.0	0.180
Spur D e	S708B-1		Time of Concentration	0.361	100	0	100.0	0.361
Road 14	S708B		Time of Concentration	0.083	100	0	100.0	0.083
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
Road 16 (1)	S705		Time of Concentration	0.027	100	0	100.0	0.027
Branch: Pipe (81)								
Spur B	S703A-1		Time of Concentration	0.324	100	0	100.0	0.324
Branch: Pipe (31)								
Spur A	S702B		Time Area Diagram	1.715	100	0	100.0	1.715
TOTAL		0.0		14.264				13.766

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025			
	Designed by: C. Salt	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	Revision: Rev 2			

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	☒
Reduce Channel Depths	☐

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: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Network Design Criteria Storm Phase: Phase	Revision: Rev 2		



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: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025			
	Designed by: C. Salt	Checked by:	Approved By:	
Report Details: Type: Outfall Details Storm Phase: Phase	Revision: Rev 2			

Outfalls

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

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025			
	Designed by: C. Salt	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Revision: Rev 2			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	300
Prefill Manhole Sumps	☐
Perform No Discharge Analysis	☐

Rainfall

FEH	Type: FEH		
Site Location	GB 519000 133350 TQ 19000 33350		
Rainfall Version	2022		
Summer	☒		
Winter	☒		

Return Period

Return Period (years)	Increase Rainfall (%)
2.0	0.000
30.0	0.000
30.0	40.000
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

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur M		Revision: Rev 2			



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 %: 360 mins: Winter	61.10 0	58.10 0	61.388	3.288	55.7	291.175	287.782	9.5	391.005	Flood
S717	FEH: 2 years: +0 %: 60 mins: Summer	60.78 5	57.78 5	57.893	0.108	36.0	0.191	0.000	36.0	112.499	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur M		Revision: Rev 2			



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	61.760	3.660	100.6	663.301	659.908	10.0	411.541	Flood
S717	FEH: 30 years: +0 %: 60 mins: Summer	60.785	57.785	57.936	0.151	66.4	0.267	0.000	66.4	153.855	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur M		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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: +40 %: 600 mins: Winter	61.100	58.100	62.123	4.023	96.0	1026.568	1023.175	10.4	709.823	Flood
S717	FEH: 30 years: +40 %: 60 mins: Summer	60.785	57.785	58.610	0.825	82.3	1.458	0.000	72.9	182.488	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur M		Revision: Rev 2			



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 %: 600 mins: Winter	61.100	58.100	61.983	3.883	85.8	886.042	882.649	10.3	699.412	Flood
S717	FEH: 100 years: +0 %: 60 mins: Summer	60.785	57.785	58.266	0.481	76.2	0.851	0.000	74.2	174.326	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur M		Revision: Rev 2			



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: +45 %: 960 mins: Winter	61.100	58.100	62.544	4.444	88.0	1447.760	1444.367	10.9	1173.394	Flood
S717	FEH: 100 years: +45 %: 60 mins: Summer	60.785	57.785	59.881	2.096	86.5	3.704	0.000	85.2	213.648	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur L		Revision: Rev 2			



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 %: 360 mins: Winter	60.70 0	57.70 0	60.765	3.065	13.2	68.503	65.110	2.4	96.682	Flood
S716	FEH: 2 years: +0 %: 60 mins: Summer	60.91 5	57.43 0	57.621	0.191	42.7	0.216	0.000	42.7	132.995	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur L		Revision: Rev 2			



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	60.70 0	57.70 0	60.853	3.153	23.9	156.292	152.899	2.4	100.091	Flood
S716	FEH: 30 years: +0 %: 60 mins: Summer	60.91 5	57.43 0	57.806	0.376	78.7	0.425	0.000	78.6	181.923	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur L		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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: +40 %: 600 mins: Winter	60.700	57.700	60.939	3.239	22.8	242.867	239.474	2.4	169.015	Flood
S716	FEH: 30 years: +40 %: 60 mins: Summer	60.915	57.430	58.484	1.054	85.6	1.193	0.000	90.2	215.750	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur L		Revision: Rev 2			



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 %: 600 mins: Winter	60.70 0	57.70 0	60.906	3.206	20.4	209.042	205.649	2.4	168.117	Flood
S716	FEH: 100 years: +0 %: 60 mins: Summer	60.91 5	57.43 0	58.157	0.727	87.0	0.823	0.000	86.2	206.006	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur L		Revision: Rev 2			



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	61.041	3.341	20.9	344.214	340.821	2.5	273.914	Flood
S716	FEH: 100 years: +45 %: 60 mins: Summer	60.915	57.430	59.736	2.306	99.4	2.608	0.000	104.3	253.725	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur I		Revision: Rev 2			



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 %: 360 mins: Summer	61.27 0	58.27 0	58.788	0.518	22.5	0.586	0.000	22.5	467.905	Surcharged
S712A	FEH: 2 years: +0 %: 360 mins: Summer	59.85 0	58.07 0	58.128	0.058	22.5	0.065	0.000	22.5	467.710	OK
S712	FEH: 2 years: +0 %: 60 mins: Summer	59.97 5	55.12 0	55.449	0.329	104.4	0.581	0.000	102.2	340.346	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur I		Revision: Rev 2			



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 %: 360 mins: Summer	61.27 0	58.27 0	59.151	0.881	24.8	0.997	0.000	24.8	771.922	Surcharged
S712A	FEH: 30 years: +0 %: 360 mins: Summer	59.85 0	58.07 0	58.131	0.061	24.8	0.069	0.000	24.8	771.506	OK
S712	FEH: 30 years: +0 %: 60 mins: Summer	59.97 5	55.12 0	56.614	1.494	172.6	2.641	0.000	170.9	481.826	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur I		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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: +40 %: 60 mins: Summer	61.270	58.270	59.277	1.007	28.3	1.139	0.000	24.8	149.256	Surcharged
S712A	FEH: 30 years: +40 %: 60 mins: Winter	59.850	58.070	58.131	0.061	24.8	0.070	0.000	25.0	148.429	OK
S712	FEH: 30 years: +40 %: 60 mins: Summer	59.975	55.120	57.376	2.256	198.7	3.986	0.000	195.8	556.874	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur I		Revision: Rev 2			



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 %: 120 mins: Summer	61.27 0	58.27 0	59.313	1.043	25.1	1.180	0.000	24.8	295.365	Surcharged
S712A	FEH: 100 years: +0 %: 120 mins: Summer	59.85 0	58.07 0	58.132	0.062	24.8	0.070	0.000	24.9	294.457	OK
S712	FEH: 100 years: +0 %: 60 mins: Summer	59.97 5	55.12 0	57.139	2.019	190.0	3.568	0.000	188.3	536.686	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur I		Revision: Rev 2			



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: +45 %: 240 mins: Summer	61.27 0	58.27 0	60.205	1.935	25.5	2.188	0.000	24.8	547.911	Surcharged
S712A	FEH: 100 years: +45 %: 60 mins: Summer	59.85 0	58.07 0	58.405	0.335	27.8	0.378	0.000	38.7	149.974	Surcharged
S712	FEH: 100 years: +45 %: 60 mins: Summer	59.97 5	55.12 0	58.375	3.255	227.9	5.751	0.000	234.1	635.174	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur H		Revision: Rev 2			



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 %: 360 mins: Summer	59.70 0	55.42 0	55.887	0.467	11.0	0.824	0.000	10.9	370.560	Surcharged
S713	FEH: 2 years: +0 %: 60 mins: Summer	59.94 0	55.19 0	55.503	0.313	83.7	0.449	0.000	82.4	242.055	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur H		Revision: Rev 2			



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 %: 360 mins: Summer	59.70 0	55.42 0	56.238	0.818	11.3	1.446	0.000	11.0	427.985	Surcharged
S713	FEH: 30 years: +0 %: 60 mins: Summer	59.94 0	55.19 0	56.755	1.565	146.2	2.239	0.000	134.0	336.511	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur H		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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: +40 %: 240 mins: Winter	59.700	55.420	56.564	1.144	11.3	2.022	0.000	11.0	257.046	Surcharged
S713	FEH: 30 years: +40 %: 60 mins: Summer	59.940	55.190	57.548	2.358	174.7	3.375	0.000	152.5	398.657	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur H		Revision: Rev 2			



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 %: 240 mins: Winter	59.700	55.420	56.439	1.019	11.3	1.801	0.000	11.0	264.862	Surcharged
S713	FEH: 100 years: +0 %: 60 mins: Summer	59.940	55.190	57.299	2.109	160.9	3.018	0.000	145.8	381.363	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur H		Revision: Rev 2			



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: +45 %: 720 mins: Winter	59.700	55.420	57.002	1.582	11.1	2.796	0.000	11.0	839.658	Surcharged
S713	FEH: 100 years: +45 %: 60 mins: Summer	59.940	55.190	58.605	3.415	205.8	4.887	0.000	182.6	470.599	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur G		Revision: Rev 2			



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 %: 120 mins: Winter	59.400	55.300	56.052	0.752	7.6	1.329	0.000	4.6	51.918	Surcharged
S711	FEH: 2 years: +0 %: 60 mins: Summer	59.000	54.945	55.252	0.307	117.8	0.542	0.000	115.4	375.601	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur G		Revision: Rev 2			



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 %: 120 mins: Summer	59.400	55.300	56.436	1.136	7.6	2.007	0.000	4.6	52.298	Surcharged
S711	FEH: 30 years: +0 %: 60 mins: Summer	59.000	54.945	56.103	1.158	196.0	2.047	0.000	191.2	532.090	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur G		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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: +40 %: 960 mins: Winter	59.400	55.300	57.088	1.788	5.1	3.159	0.000	5.1	512.066	Surcharged
S711	FEH: 30 years: +40 %: 60 mins: Summer	59.000	54.945	56.736	1.791	231.0	3.164	0.000	223.0	621.459	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur G		Revision: Rev 2			



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 %: 960 mins: Winter	59.400	55.300	56.929	1.629	5.0	2.878	0.000	4.9	491.884	Surcharged
S711	FEH: 100 years: +0 %: 60 mins: Summer	59.000	54.945	56.540	1.595	220.6	2.819	0.000	213.8	597.097	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur G		Revision: Rev 2			



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: +45 %: 1440 mins: Winter	59.400	55.300	57.642	2.342	5.8	4.138	0.000	5.8	849.324	Surcharged
S711	FEH: 100 years: +45 %: 60 mins: Summer	59.000	54.945	57.591	2.646	269.5	4.675	0.000	262.3	715.930	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur E		Revision: Rev 2			



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 %: 180 mins: Summer	59.00 0	55.05 0	56.382	1.332	5.1	1.506	0.000	4.8	86.244	Surcharged
S709	FEH: 2 years: +0 %: 60 mins: Summer	57.70 0	54.64 0	54.952	0.312	138.1	0.551	0.000	135.8	421.522	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur E		Revision: Rev 2			



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 %: 120 mins: Summer	59.000	55.050	56.753	1.703	5.2	1.927	0.000	4.8	52.936	Surcharged
S709	FEH: 30 years: +0 %: 60 mins: Summer	57.700	54.640	55.387	0.747	240.2	1.321	0.000	239.5	606.267	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur E		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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: +40 %: 720 mins: Winter	59.000	55.050	57.409	2.359	5.2	2.668	0.000	5.2	392.726	Surcharged
S709	FEH: 30 years: +40 %: 60 mins: Summer	57.700	54.640	55.783	1.143	288.7	2.020	0.000	287.7	718.065	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur E		Revision: Rev 2			



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 %: 720 mins: Winter	59.000	55.050	57.235	2.185	4.9	2.472	0.000	4.9	375.671	Surcharged
S709	FEH: 100 years: +0 %: 60 mins: Summer	57.700	54.640	55.659	1.019	275.3	1.801	0.000	274.5	686.769	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur E		Revision: Rev 2			



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	59.000	55.050	57.964	2.914	5.9	3.296	0.000	5.9	584.095	Surcharged
S709	FEH: 100 years: +45 %: 60 mins: Summer	57.700	54.640	56.356	1.716	343.4	3.032	0.000	341.5	840.474	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur D		Revision: Rev 2			



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 %: 60 mins: Summer	58.35 0	55.37 0	55.479	0.109	20.2	0.123	0.000	19.9	74.857	OK
S708A	FEH: 2 years: +0 %: 60 mins: Summer	57.80 0	55.29 0	55.373	0.083	19.9	0.094	0.000	19.9	74.547	OK
S708	FEH: 2 years: +0 %: 60 mins: Summer	57.57 5	54.50 0	54.879	0.379	161.7	0.670	0.000	160.6	500.900	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur D		Revision: Rev 2			



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 %: 60 mins: Summer	58.35 0	55.37 0	55.516	0.146	32.3	0.165	0.000	32.3	103.157	OK
S708A	FEH: 30 years: +0 %: 60 mins: Summer	57.80 0	55.29 0	55.400	0.110	32.3	0.124	0.000	32.3	102.802	OK
S708	FEH: 30 years: +0 %: 60 mins: Summer	57.57 5	54.50 0	55.179	0.679	285.2	1.200	0.000	284.7	722.994	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur D		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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: +40 %: 60 mins: Summer	58.35 0	55.37 0	55.845	0.475	40.5	0.538	0.000	39.8	115.360	Surcharged
S708A	FEH: 30 years: +40 %: 60 mins: Summer	57.80 0	55.29 0	55.763	0.473	39.8	0.535	0.000	39.5	115.007	Surcharged
S708	FEH: 30 years: +40 %: 60 mins: Summer	57.57 5	54.50 0	55.482	0.982	346.0	1.736	0.000	345.3	853.663	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur D		Revision: Rev 2			



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 %: 60 mins: Summer	58.35 0	55.37 0	55.704	0.334	38.2	0.378	0.000	37.4	112.203	Surcharged
S708A	FEH: 100 years: +0 %: 60 mins: Summer	57.80 0	55.29 0	55.633	0.343	37.4	0.388	0.000	36.9	111.846	Surcharged
S708	FEH: 100 years: +0 %: 60 mins: Summer	57.57 5	54.50 0	55.384	0.884	328.6	1.562	0.000	328.0	817.253	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur D		Revision: Rev 2			



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	58.35 0	55.37 0	56.430	1.060	48.9	1.199	0.000	47.8	125.563	Surcharged
S708A	FEH: 100 years: +45 %: 60 mins: Summer	57.80 0	55.29 0	56.318	1.028	47.8	1.163	0.000	46.7	125.225	Surcharged
S708	FEH: 100 years: +45 %: 60 mins: Summer	57.57 5	54.50 0	55.945	1.445	413.2	2.553	0.000	411.9	994.025	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur B		Revision: Rev 2			



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 %: 600 mins: Summer	56.200	54.730	54.970	0.240	1.9	0.423	0.000	1.9	95.688	OK
S703	FEH: 2 years: +0 %: 60 mins: Summer	56.000	54.110	54.274	0.164	183.6	0.290	0.000	169.8	519.694	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur B		Revision: Rev 2			



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 %: 60 mins: Summer	56.20 0	54.73 0	55.059	0.329	2.5	0.581	0.000	1.9	11.206	Surcharged
S703	FEH: 30 years: +0 %: 60 mins: Summer	56.00 0	54.11 0	54.363	0.253	318.5	0.448	0.000	318.3	768.824	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur B		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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: +40 %: 60 mins: Summer	56.20 0	54.73 0	55.189	0.459	2.8	0.811	0.000	1.9	11.349	Surcharged
S703	FEH: 30 years: +40 %: 60 mins: Summer	56.00 0	54.11 0	54.405	0.295	396.6	0.521	0.000	396.6	916.160	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur B		Revision: Rev 2			



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 %: 60 mins: Summer	56.20 0	54.73 0	55.151	0.421	2.7	0.744	0.000	1.9	11.364	Surcharged
S703	FEH: 100 years: +0 %: 60 mins: Summer	56.00 0	54.11 0	54.393	0.283	374.4	0.500	0.000	374.4	874.966	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur B		Revision: Rev 2			



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 %: 60 mins: Summer	56.20 0	54.73 0	55.341	0.611	2.9	1.079	0.000	1.9	10.504	Surcharged
S703	FEH: 100 years: +45 %: 60 mins: Summer	56.00 0	54.11 0	54.448	0.338	480.2	0.597	0.000	480.0	1074.197	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			



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 %: 60 mins: Summer	56.75 0	54.37 0	54.623	0.253	172.0	0.446	0.000	171.0	232.076	OK
S702A	FEH: 2 years: +0 %: 60 mins: Summer	56.30 0	54.24 5	54.385	0.140	171.0	0.158	0.000	170.1	232.112	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			



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 %: 60 mins: Summer	56.75 0	54.37 0	54.786	0.416	389.7	0.735	0.000	389.1	525.635	OK
S702A	FEH: 30 years: +0 %: 60 mins: Summer	56.30 0	54.24 5	54.491	0.246	389.1	0.278	0.000	382.9	525.690	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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: +40 %: 60 mins: Summer	56.75 0	54.37 0	54.883	0.513	545.5	0.906	0.000	542.7	735.974	OK
S702A	FEH: 30 years: +40 %: 60 mins: Summer	56.30 0	54.24 5	54.561	0.316	542.7	0.357	0.000	540.3	735.718	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			



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 %: 60 mins: Summer	56.75 0	54.37 0	54.849	0.479	500.3	0.847	0.000	497.6	674.694	OK
S702A	FEH: 100 years: +0 %: 60 mins: Summer	56.30 0	54.24 5	54.542	0.297	497.6	0.335	0.000	495.4	674.661	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			



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: +45 %: 60 mins: Summer	56.75 0	54.37 0	55.308	0.938	725.0	1.657	0.000	727.6	978.708	Surcharged
S702A	FEH: 100 years: +45 %: 60 mins: Summer	56.30 0	54.24 5	54.642	0.397	727.6	0.449	0.000	730.7	977.802	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			



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)	Half Drain Down Time (mins)	Percentage Available (%)
Pond 7a	FEH: 2 years: +0 %: 960 mins: Winter	54.243	54.243	0.693	0.693	116.0	1067.084	0.000	0.000	70.5	4836.655		79.995

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Spur A	Revision: Rev 2		



Status

OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			



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)	Half Drain Down Time (mins)	Percentage Available (%)
Pond 7a	FEH: 30 years: +0 %: 960 mins: Winter	54.482	54.482	0.932	0.932	165.5	1935.889	0.000	0.000	74.6	7267.570		63.707

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Spur A	Revision: Rev 2		



Status

OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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)	Half Drain Down Time (mins)	Percentage Available (%)
Pond 7a	FEH: 30 years: +40 %: 1440 mins: Winter	54.728	54.728	1.178	1.178	159.6	2922.969	0.000	0.000	74.7	11445.866	300	45.201

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Spur A	Revision: Rev 2		



Status

OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			



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)	Half Drain Down Time (mins)	Percentage Available (%)
Pond 7a	FEH: 100 years: +0 %: 1440 mins: Winter	54.660	54.660	1.110	1.110	148.8	2638.937	0.000	0.000	74.7	11037.218		50.526

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Spur A	Revision: Rev 2		



Status

OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2			



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)	Half Drain Down Time (mins)	Percentage Available (%)
Pond 7a	FEH: 100 years: +45 %: 2160 mins: Winter	55.086	55.086	1.536	1.536	156.0	4534.380	0.000	0.000	74.7	16842.994	1655	14.991

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Spur A	Revision: Rev 2		



Status

OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur J		Revision: Rev 2			



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 %: 360 mins: Summer	60.200	55.605	60.229	4.624	11.9	34.302	29.105	2.1	67.049	Flood
S713	FEH: 2 years: +0 %: 60 mins: Summer	59.940	55.190	55.503	0.313	83.7	0.449	0.000	82.4	242.055	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur J		Revision: Rev 2			



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 %: 240 mins: Winter	60.200	55.605	60.276	4.671	19.0	81.230	76.033	2.1	58.169	Flood
S713	FEH: 30 years: +0 %: 60 mins: Summer	59.940	55.190	56.755	1.565	146.2	2.239	0.000	134.0	336.511	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur J		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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: +40 %: 360 mins: Winter	60.200	55.605	60.322	4.717	19.8	126.827	121.630	2.1	88.727	Flood
S713	FEH: 30 years: +40 %: 60 mins: Summer	59.940	55.190	57.548	2.358	174.7	3.375	0.000	152.5	398.657	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur J		Revision: Rev 2			



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 %: 360 mins: Winter	60.200	55.605	60.303	4.698	17.5	108.167	102.970	2.1	88.193	Flood
S713	FEH: 100 years: +0 %: 60 mins: Summer	59.940	55.190	57.299	2.109	160.9	3.018	0.000	145.8	381.363	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur J		Revision: Rev 2			



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: +45 %: 600 mins: Winter	60.20 0	55.60 5	60.372	4.767	17.5	176.991	171.794	2.2	149.399	Flood
S713	FEH: 100 years: +45 %: 60 mins: Summer	59.94 0	55.19 0	58.605	3.415	205.8	4.887	0.000	182.6	470.599	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur N		Revision: Rev 2			



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 %: 360 mins: Winter	61.00 0	58.30 0	61.074	2.774	15.3	76.668	73.615	2.9	117.525	Flood
S719	FEH: 2 years: +0 %: 60 mins: Summer	60.54 0	58.04 0	58.132	0.092	13.4	0.104	0.000	13.4	32.299	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur N		Revision: Rev 2			



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	61.00 0	58.30 0	61.174	2.874	27.6	177.292	174.239	2.9	121.869	Flood
S719	FEH: 30 years: +0 %: 60 mins: Summer	60.54 0	58.04 0	58.179	0.139	26.9	0.157	0.000	26.9	49.720	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur N		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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: +40 %: 600 mins: Winter	61.000	58.300	61.272	2.972	26.3	274.951	271.897	3.0	206.355	Flood
S719	FEH: 30 years: +40 %: 60 mins: Summer	60.540	58.040	58.716	0.676	36.0	0.764	0.000	33.8	62.064	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur N		Revision: Rev 2			



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	236.400	233.346	3.0	164.152	Flood
S719	FEH: 100 years: +0 %: 60 mins: Summer	60.540	58.040	58.353	0.313	33.3	0.354	0.000	31.3	58.415	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur N		Revision: Rev 2			



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: +45 %: 960 mins: Winter	61.000	58.300	61.386	3.086	24.1	388.773	385.719	3.0	334.470	Flood
S719	FEH: 100 years: +45 %: 60 mins: Summer	60.540	58.040	60.005	1.965	47.2	2.223	0.000	36.1	76.848	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			



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 %: 60 mins: Summer	60.85 0	59.32 0	59.368	0.048	10.6	0.054	0.000	10.6	13.251	OK
S719	FEH: 2 years: +0 %: 60 mins: Summer	60.54 0	58.04 0	58.132	0.092	13.4	0.104	0.000	13.4	32.299	OK
S718	FEH: 2 years: +0 %: 60 mins: Summer	60.40 5	57.92 5	58.040	0.115	19.1	0.130	0.000	19.1	39.018	OK
S717	FEH: 2 years: +0 %: 60 mins: Summer	60.78 5	57.78 5	57.893	0.108	36.0	0.191	0.000	36.0	112.499	OK
S716	FEH: 2 years: +0 %: 60 mins: Summer	60.91 5	57.43 0	57.621	0.191	42.7	0.216	0.000	42.7	132.995	OK
S715	FEH: 2 years: +0 %: 60 mins: Summer	60.65 5	57.31 5	57.497	0.182	48.2	0.206	0.000	48.2	139.110	OK
S714	FEH: 2 years: +0 %: 60 mins: Summer	60.33 5	57.23 0	57.329	0.099	53.1	0.142	0.000	53.1	144.908	OK
S713	FEH: 2 years: +0 %: 60 mins: Summer	59.94 0	55.19 0	55.503	0.313	83.7	0.449	0.000	82.4	242.055	OK
S712	FEH: 2 years: +0 %: 60 mins: Summer	59.97 5	55.12 0	55.449	0.329	104.4	0.581	0.000	102.2	340.346	OK
S711	FEH: 2 years: +0 %: 60 mins: Summer	59.00 0	54.94 5	55.252	0.307	117.8	0.542	0.000	115.4	375.601	OK
S710	FEH: 2 years: +0 %: 60 mins: Summer	58.36 5	54.75 0	55.080	0.330	124.1	0.584	0.000	122.0	383.608	OK
S709	FEH: 2 years: +0 %: 60 mins: Summer	57.70 0	54.64 0	54.952	0.312	138.1	0.551	0.000	135.8	421.522	OK
S708	FEH: 2 years: +0 %: 60 mins: Summer	57.57 5	54.50 0	54.879	0.379	161.7	0.670	0.000	160.6	500.900	OK
S707	FEH: 2 years: +0 %: 60 mins: Summer	57.66 0	54.48 0	54.832	0.352	169.3	0.622	0.000	167.9	509.957	OK
S706	FEH: 2 years: +0 %: 60 mins: Summer	57.64 5	54.40 5	54.712	0.307	173.1	0.543	0.000	171.4	514.650	OK
S705	FEH: 2 years: +0 %: 60 mins: Summer	57.00 0	54.28 5	54.623	0.338	174.3	0.598	0.000	170.3	514.391	OK
S704	FEH: 2 years: +0 %: 60 mins: Summer	56.00 0	54.13 5	54.417	0.282	170.3	0.499	0.000	182.0	510.885	OK
S703	FEH: 2 years: +0 %: 60 mins: Summer	56.00 0	54.11 0	54.274	0.164	183.6	0.290	0.000	169.8	519.694	OK
S702	FEH: 2 years: +0 %: 960 mins: Winter	55.80 0	53.52 5	54.241	0.716	70.5	1.264	0.000	70.5	4836.222	Surcharged
S701	FEH: 2 years: +0 %: 960 mins: Winter	54.70 0	53.37 5	53.708	0.333	70.5	0.376	0.000	70.5	4834.475	Surcharged
Outfall	FEH: 2 years: +0 %: 960 mins: Winter	54.20 0	53.34 0	53.640	0.300	70.5	0.000	0.000	70.5	4834.475	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025			
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Flow Path	Designed by: C. Salt	Checked by:	Approved By:	
	Revision: Rev 2			



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

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model				Date: 18/12/2025				
				Designed by: C. Salt	Checked by:	Approved By:		
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Flow Path				Revision: Rev 2				

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 %: 60 mins: Summer	60.85 0	59.32 0	59.392	0.072	24.0	0.082	0.000	24.0	30.006	OK
S719	FEH: 30 years: +0 %: 60 mins: Summer	60.54 0	58.04 0	58.179	0.139	26.9	0.157	0.000	26.9	49.720	OK
S718	FEH: 30 years: +0 %: 60 mins: Summer	60.40 5	57.92 5	58.102	0.177	39.6	0.200	0.000	39.6	65.292	OK
S717	FEH: 30 years: +0 %: 60 mins: Summer	60.78 5	57.78 5	57.936	0.151	66.4	0.267	0.000	66.4	153.855	OK
S716	FEH: 30 years: +0 %: 60 mins: Summer	60.91 5	57.43 0	57.806	0.376	78.7	0.425	0.000	78.6	181.923	Surcharged
S715	FEH: 30 years: +0 %: 60 mins: Summer	60.65 5	57.31 5	57.607	0.292	91.0	0.330	0.000	90.8	196.647	OK
S714	FEH: 30 years: +0 %: 60 mins: Summer	60.33 5	57.23 0	57.375	0.145	102.1	0.207	0.000	102.1	210.214	OK
S713	FEH: 30 years: +0 %: 60 mins: Summer	59.94 0	55.19 0	56.755	1.565	146.2	2.239	0.000	134.0	336.511	Surcharged
S712	FEH: 30 years: +0 %: 60 mins: Summer	59.97 5	55.12 0	56.614	1.494	172.6	2.641	0.000	170.9	481.826	Surcharged
S711	FEH: 30 years: +0 %: 60 mins: Summer	59.00 0	54.94 5	56.103	1.158	196.0	2.047	0.000	191.2	532.090	Surcharged
S710	FEH: 30 years: +0 %: 60 mins: Summer	58.36 5	54.75 0	55.641	0.891	210.9	1.574	0.000	210.0	552.783	Surcharged
S709	FEH: 30 years: +0 %: 60 mins: Summer	57.70 0	54.64 0	55.387	0.747	240.2	1.321	0.000	239.5	606.267	Surcharged
S708	FEH: 30 years: +0 %: 60 mins: Summer	57.57 5	54.50 0	55.179	0.679	285.2	1.200	0.000	284.7	722.994	Surcharged
S707	FEH: 30 years: +0 %: 60 mins: Summer	57.66 0	54.48 0	55.106	0.626	304.3	1.106	0.000	303.6	745.532	Surcharged
S706	FEH: 30 years: +0 %: 60 mins: Summer	57.64 5	54.40 5	54.925	0.520	315.3	0.919	0.000	314.4	758.195	OK
S705	FEH: 30 years: +0 %: 60 mins: Summer	57.00 0	54.28 5	54.792	0.507	321.0	0.896	0.000	318.4	762.069	OK
S704	FEH: 30 years: +0 %: 60 mins: Summer	56.00 0	54.13 5	54.508	0.373	318.4	0.659	0.000	316.7	758.338	OK
S703	FEH: 30 years: +0 %: 60 mins: Summer	56.00 0	54.11 0	54.363	0.253	318.5	0.448	0.000	318.3	768.824	OK
S702	FEH: 30 years: +0 %: 960 mins: Winter	55.80 0	53.52 5	54.479	0.954	74.6	1.686	0.000	74.6	7265.426	Surcharged
S701	FEH: 30 years: +0 %: 960 mins: Winter	54.70 0	53.37 5	53.715	0.340	74.6	0.385	0.000	74.6	7261.297	Surcharged
Outfall	FEH: 30 years: +0 %: 960 mins: Winter	54.20 0	53.34 0	53.640	0.300	74.6	0.000	0.000	74.6	7261.297	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025			
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Flow Path	Designed by: C. Salt	Checked by:	Approved By:	
	Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model				Date: 18/12/2025				
				Designed by:	Checked by:	Approved By:		
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Flow Path				Revision: Rev 2				

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: +40 %: 60 mins: Summer	60.85 0	59.32 0	59.406	0.086	33.6	0.097	0.000	33.6	41.970	OK
S719	FEH: 30 years: +40 %: 60 mins: Summer	60.54 0	58.04 0	58.716	0.676	36.0	0.764	0.000	33.8	62.064	Surcharged
S718	FEH: 30 years: +40 %: 60 mins: Summer	60.40 5	57.92 5	58.687	0.762	51.6	0.861	0.000	48.6	83.897	Surcharged
S717	FEH: 30 years: +40 %: 60 mins: Summer	60.78 5	57.78 5	58.610	0.825	82.3	1.458	0.000	72.9	182.488	Surcharged
S716	FEH: 30 years: +40 %: 60 mins: Summer	60.91 5	57.43 0	58.484	1.054	85.6	1.193	0.000	90.2	215.750	Surcharged
S715	FEH: 30 years: +40 %: 60 mins: Summer	60.65 5	57.31 5	58.282	0.967	100.4	1.094	0.000	102.5	236.497	Surcharged
S714	FEH: 30 years: +40 %: 60 mins: Summer	60.33 5	57.23 0	58.063	0.833	114.6	1.192	0.000	115.6	255.671	Surcharged
S713	FEH: 30 years: +40 %: 60 mins: Summer	59.94 0	55.19 0	57.548	2.358	174.7	3.375	0.000	152.5	398.657	Surcharged
S712	FEH: 30 years: +40 %: 60 mins: Summer	59.97 5	55.12 0	57.376	2.256	198.7	3.986	0.000	195.8	556.874	Surcharged
S711	FEH: 30 years: +40 %: 60 mins: Summer	59.00 0	54.94 5	56.736	1.791	231.0	3.164	0.000	223.0	621.459	Surcharged
S710	FEH: 30 years: +40 %: 60 mins: Summer	58.36 5	54.75 0	56.130	1.380	250.6	2.439	0.000	249.1	649.218	Surcharged
S709	FEH: 30 years: +40 %: 60 mins: Summer	57.70 0	54.64 0	55.783	1.143	288.7	2.020	0.000	287.7	718.065	Surcharged
S708	FEH: 30 years: +40 %: 60 mins: Summer	57.57 5	54.50 0	55.482	0.982	346.0	1.736	0.000	345.3	853.663	Surcharged
S707	FEH: 30 years: +40 %: 60 mins: Summer	57.66 0	54.48 0	55.370	0.890	372.8	1.573	0.000	372.1	885.970	Surcharged
S706	FEH: 30 years: +40 %: 60 mins: Summer	57.64 5	54.40 5	55.109	0.704	388.5	1.244	0.000	388.0	904.453	Surcharged
S705	FEH: 30 years: +40 %: 60 mins: Summer	57.00 0	54.28 5	54.909	0.624	397.2	1.103	0.000	395.7	911.567	Surcharged
S704	FEH: 30 years: +40 %: 60 mins: Summer	56.00 0	54.13 5	54.562	0.427	395.7	0.755	0.000	394.7	906.567	OK
S703	FEH: 30 years: +40 %: 60 mins: Summer	56.00 0	54.11 0	54.405	0.295	396.6	0.521	0.000	396.6	916.160	OK
S702	FEH: 30 years: +40 %: 960 mins: Winter	55.80 0	53.52 5	54.678	1.153	74.7	2.038	0.000	74.6	7698.878	Surcharged
S701	FEH: 30 years: +40 %: 960 mins: Winter	54.70 0	53.37 5	53.715	0.340	74.6	0.385	0.000	74.6	7694.528	Surcharged
Outfall	FEH: 30 years: +40 %: 960 mins: Winter	54.20 0	53.34 0	53.640	0.300	74.6	0.000	0.000	74.6	7694.528	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025			
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Flow Path	Designed by: C. Salt	Checked by:	Approved By:	
	Revision: Rev 2			



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

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model				Date: 18/12/2025				
				Designed by:	Checked by:	Approved By:		
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Flow Path				Revision: Rev 2				

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 %: 60 mins: Summer	60.85 0	59.32 0	59.402	0.082	30.8	0.093	0.000	30.9	38.487	OK
S719	FEH: 100 years: +0 %: 60 mins: Summer	60.54 0	58.04 0	58.353	0.313	33.3	0.354	0.000	31.3	58.415	Surcharged
S718	FEH: 100 years: +0 %: 60 mins: Summer	60.40 5	57.92 5	58.326	0.401	47.5	0.454	0.000	47.9	78.524	Surcharged
S717	FEH: 100 years: +0 %: 60 mins: Summer	60.78 5	57.78 5	58.266	0.481	76.2	0.851	0.000	74.2	174.326	Surcharged
S716	FEH: 100 years: +0 %: 60 mins: Summer	60.91 5	57.43 0	58.157	0.727	87.0	0.823	0.000	86.2	206.006	Surcharged
S715	FEH: 100 years: +0 %: 60 mins: Summer	60.65 5	57.31 5	57.974	0.659	98.1	0.746	0.000	95.1	225.118	Surcharged
S714	FEH: 100 years: +0 %: 60 mins: Summer	60.33 5	57.23 0	57.774	0.544	107.5	0.778	0.000	116.7	242.656	Surcharged
S713	FEH: 100 years: +0 %: 60 mins: Summer	59.94 0	55.19 0	57.299	2.109	160.9	3.018	0.000	145.8	381.363	Surcharged
S712	FEH: 100 years: +0 %: 60 mins: Summer	59.97 5	55.12 0	57.139	2.019	190.0	3.568	0.000	188.3	536.686	Surcharged
S711	FEH: 100 years: +0 %: 60 mins: Summer	59.00 0	54.94 5	56.540	1.595	220.6	2.819	0.000	213.8	597.097	Surcharged
S710	FEH: 100 years: +0 %: 60 mins: Summer	58.36 5	54.75 0	55.978	1.228	239.1	2.170	0.000	238.1	622.467	Surcharged
S709	FEH: 100 years: +0 %: 60 mins: Summer	57.70 0	54.64 0	55.659	1.019	275.3	1.801	0.000	274.5	686.769	Surcharged
S708	FEH: 100 years: +0 %: 60 mins: Summer	57.57 5	54.50 0	55.384	0.884	328.6	1.562	0.000	328.0	817.253	Surcharged
S707	FEH: 100 years: +0 %: 60 mins: Summer	57.66 0	54.48 0	55.284	0.804	353.2	1.421	0.000	352.6	846.703	Surcharged
S706	FEH: 100 years: +0 %: 60 mins: Summer	57.64 5	54.40 5	55.053	0.648	367.6	1.145	0.000	367.0	863.492	Surcharged
S705	FEH: 100 years: +0 %: 60 mins: Summer	57.00 0	54.28 5	54.873	0.588	375.4	1.039	0.000	373.5	869.630	OK
S704	FEH: 100 years: +0 %: 60 mins: Summer	56.00 0	54.13 5	54.547	0.412	373.5	0.728	0.000	372.5	865.026	OK
S703	FEH: 100 years: +0 %: 60 mins: Summer	56.00 0	54.11 0	54.393	0.283	374.4	0.500	0.000	374.4	874.966	OK
S702	FEH: 100 years: +0 %: 2880 mins: Winter	55.80 0	53.52 5	54.601	1.076	74.7	1.902	0.000	74.6	14398.191	Surcharged
S701	FEH: 100 years: +0 %: 600 mins: Summer	54.70 0	53.37 5	53.715	0.340	74.6	0.385	0.000	74.6	4745.941	Surcharged
Outfall	FEH: 100 years: +0 %: 600 mins: Summer	54.20 0	53.34 0	53.640	0.300	74.6	0.000	0.000	74.6	4745.941	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025			
	Designed by: C. Salt	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Flow Path	Revision: Rev 2			



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

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model				Date: 18/12/2025				
				Designed by: C. Salt	Checked by:	Approved By:		
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Flow Path				Revision: Rev 2				

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: +45 %: 60 mins: Summer	60.85 0	59.32 0	60.191	0.871	44.7	0.985	0.000	44.6	55.759	Surcharged
S719	FEH: 100 years: +45 %: 60 mins: Summer	60.54 0	58.04 0	60.005	1.965	47.2	2.223	0.000	36.1	76.848	Surcharged
S718	FEH: 100 years: +45 %: 60 mins: Summer	60.40 5	57.92 5	59.973	2.048	56.3	2.316	0.000	51.5	104.762	Surcharged
S717	FEH: 100 years: +45 %: 60 mins: Summer	60.78 5	57.78 5	59.881	2.096	86.5	3.704	0.000	85.2	213.648	Surcharged
S716	FEH: 100 years: +45 %: 60 mins: Summer	60.91 5	57.43 0	59.736	2.306	99.4	2.608	0.000	104.3	253.725	Surcharged
S715	FEH: 100 years: +45 %: 60 mins: Summer	60.65 5	57.31 5	59.503	2.188	114.5	2.475	0.000	119.5	280.188	Surcharged
S714	FEH: 100 years: +45 %: 60 mins: Summer	60.33 5	57.23 0	59.240	2.010	130.4	2.876	0.000	135.1	305.842	Surcharged
S713	FEH: 100 years: +45 %: 60 mins: Summer	59.94 0	55.19 0	58.605	3.415	205.8	4.887	0.000	182.6	470.599	Surcharged
S712	FEH: 100 years: +45 %: 60 mins: Summer	59.97 5	55.12 0	58.375	3.255	227.9	5.751	0.000	234.1	635.174	Surcharged
S711	FEH: 100 years: +45 %: 60 mins: Summer	59.00 0	54.94 5	57.591	2.646	269.5	4.675	0.000	262.3	715.930	Surcharged
S710	FEH: 100 years: +45 %: 60 mins: Summer	58.36 5	54.75 0	56.817	2.067	295.0	3.653	0.000	292.3	753.772	Surcharged
S709	FEH: 100 years: +45 %: 60 mins: Summer	57.70 0	54.64 0	56.356	1.716	343.4	3.032	0.000	341.5	840.474	Surcharged
S708	FEH: 100 years: +45 %: 60 mins: Summer	57.57 5	54.50 0	55.945	1.445	413.2	2.553	0.000	411.9	994.025	Surcharged
S707	FEH: 100 years: +45 %: 60 mins: Summer	57.66 0	54.48 0	55.788	1.308	448.5	2.312	0.000	447.3	1037.662	Surcharged
S706	FEH: 100 years: +45 %: 60 mins: Summer	57.64 5	54.40 5	55.408	1.003	469.1	1.772	0.000	468.3	1062.896	Surcharged
S705	FEH: 100 years: +45 %: 60 mins: Summer	57.00 0	54.28 5	55.106	0.821	480.5	1.450	0.000	479.4	1073.732	Surcharged
S704	FEH: 100 years: +45 %: 60 mins: Summer	56.00 0	54.13 5	54.622	0.487	479.4	0.860	0.000	478.3	1066.957	OK
S703	FEH: 100 years: +45 %: 60 mins: Summer	56.00 0	54.11 0	54.448	0.338	480.2	0.597	0.000	480.0	1074.197	OK
S702	FEH: 100 years: +45 %: 2880 mins: Winter	55.80 0	53.52 5	55.074	1.549	74.7	2.737	0.000	74.6	20112.352	Surcharged
S701	FEH: 100 years: +45 %: 1440 mins: Winter	54.70 0	53.37 5	53.715	0.340	74.6	0.385	0.000	74.6	11266.789	Surcharged
Outfall	FEH: 100 years: +45 %: 1440 mins: Winter	54.20 0	53.34 0	53.640	0.300	74.6	0.000	0.000	74.6	11266.789	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			



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)	Half Drain Down Time (mins)	Percentage Available (%)
Pond 7a	FEH: 2 years: +0 %: 960 mins: Winter	54.243	54.243	0.693	0.693	116.0	1067.084	0.000	0.000	70.5	4836.655		79.995

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Flow Path	Revision: Rev 2		



Status

OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			



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)	Half Drain Down Time (mins)	Percentage Available (%)
Pond 7a	FEH: 30 years: +0 %: 960 mins: Winter	54.482	54.482	0.932	0.932	165.5	1935.889	0.000	0.000	74.6	7267.570		63.707

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Flow Path	Revision: Rev 2		



Status

OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			



FEH: 30 years: Increase Rainfall (%): +40: 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)	Half Drain Down Time (mins)	Percentage Available (%)
Pond 7a	FEH: 30 years: +40 %: 1440 mins: Winter	54.728	54.728	1.178	1.178	159.6	2922.969	0.000	0.000	74.7	11445.866	300	45.201

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Flow Path	Revision: Rev 2		



Status

OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			



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)	Half Drain Down Time (mins)	Percentage Available (%)
Pond 7a	FEH: 100 years: +0 %: 1440 mins: Winter	54.660	54.660	1.110	1.110	148.8	2638.937	0.000	0.000	74.7	11037.218		50.526

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Flow Path	Revision: Rev 2		



Status

OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2			



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)	Half Drain Down Time (mins)	Percentage Available (%)
Pond 7a	FEH: 100 years: +45 %: 2160 mins: Winter	55.086	55.086	1.536	1.536	156.0	4534.380	0.000	0.000	74.7	16842.994	1655	14.991

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Flow Path	Revision: Rev 2		

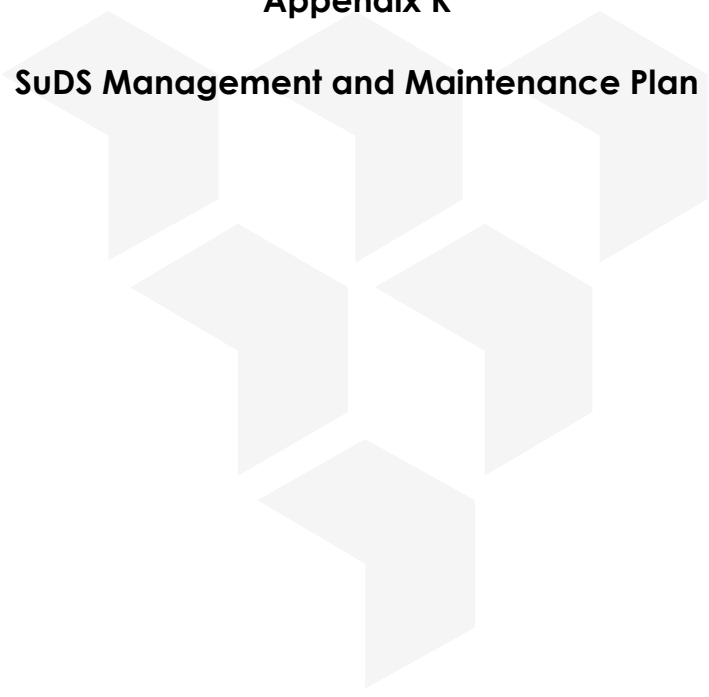


Status

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 dewatering 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

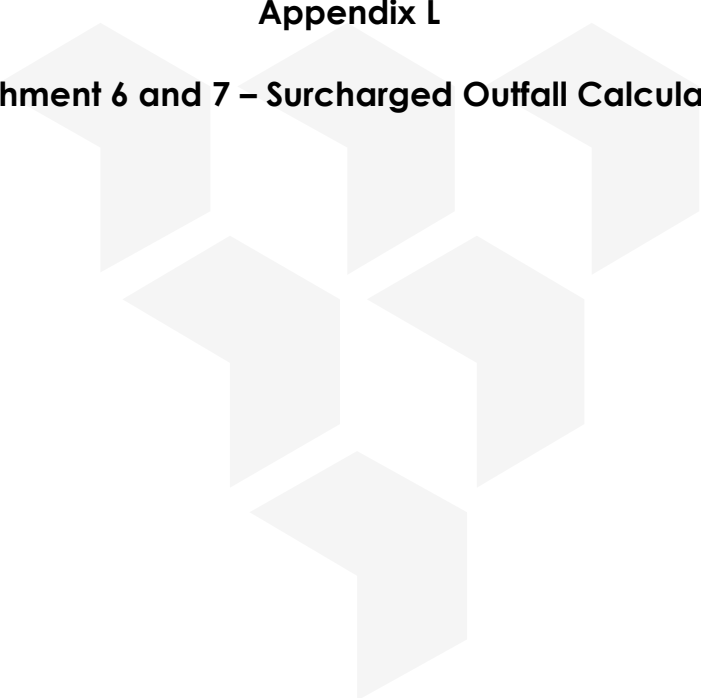
Inlet / Outlets / Controls

- 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Network Design Criteria Storm Phase: Phase		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
--------------	--------------------------

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

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
S20	Free Discharge			
HW6	Fixed Surcharged Level	☒	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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall	Date: 27/08/2025			
Report Details: Type: Outfall Details Storm Phase: Phase	Designed by: C. Salt	Checked by:	Approved By:	
Revision: Rev 3				

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

Project: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall	Date: 27/08/2025			
Report Details: Type: Outfall Details Storm Phase: Phase	Designed by: C. Salt	Checked by:	Approved By:	
Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall	Date: 27/08/2025					
Report Title: Rainfall Analysis Criteria	Designed by: 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: 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	☐

Rainfall		
FEH22	Type: FEH	
Site Location	GB 519000 133350 TQ 19000 33350	
Rainfall Version	2022	
Summer	☒	
Winter	☒	

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

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

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

Project: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: S104		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: S104		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: S104		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: S104		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: S104		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: S104		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 2		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Highway 2		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 2		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 2		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 2		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 2 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 1		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 1		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Highway 1		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Highway 1		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Highway 1		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Highway 1		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 1		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 1		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Highway 1		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: S104 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: S104 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: S104 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: S104 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: S104 (Branch)		Designed by: C. Salt	Checked by:		Approved By:
		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: S104 (Branch)		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Private		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Private		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Private		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Private		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Private		Revision: 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: Mowbray (Land North of Horsham) Catchment 6 - Hydraulic Model Surcharged Outfall		Date: 27/08/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase Flow Path: Private		Revision: 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: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Outfall Details Storm Phase: Phase		Revision: Rev 2 Surcharged Outfall			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
Outfall	Fixed Surcharged Level	☒	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				

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025			
	Designed by: C. Salt	Checked by:	Approved By:	
Report Details: Type: Rainfall Analysis Criteria	Revision: Rev 2 Surcharged Outfall			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	300
Prefill Manhole Sumps	☐
Perform No Discharge Analysis	☐

Rainfall

FEH - Surcharge		Type: FEH
Site Location	GB 519000 133350 TQ 19000 33350	
Rainfall Version	2022	
Summer	☒	
Winter	☒	

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

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur M		Revision: Rev 2 Surcharged Outfall			



FEH - Surge: 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 - Surge: 100 years: +45 %: 960 mins: Winter	61.100	58.100	62.544	4.444	88.0	1447.760	1444.367	10.9	1173.394	Flood
S717	FEH - Surge: 100 years: +45 %: 60 mins: Summer	60.785	57.785	59.881	2.096	86.5	3.704	0.000	85.2	213.649	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur L		Revision: Rev 2 Surcharged Outfall			



FEH - Surge: 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 - Surge: 100 years: +45 %: 960 mins: Winter	60.700	57.700	61.041	3.341	20.9	344.214	340.821	2.5	273.914	Flood
S716	FEH - Surge: 100 years: +45 %: 60 mins: Summer	60.915	57.430	59.736	2.306	99.4	2.608	0.000	104.3	253.725	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur I		Revision: Rev 2 Surcharged Outfall			



FEH - Surge: 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 - Surge: 100 years: +45 %: 240 mins: Summer	61.27 0	58.27 0	60.205	1.935	25.5	2.188	0.000	24.8	547.912	Surcharged
S712A	FEH - Surge: 100 years: +45 %: 60 mins: Summer	59.85 0	58.07 0	58.405	0.335	27.8	0.379	0.000	38.7	149.974	Surcharged
S712	FEH - Surge: 100 years: +45 %: 60 mins: Summer	59.97 5	55.12 0	58.374	3.254	227.9	5.750	0.000	234.1	635.176	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur H		Revision: Rev 2 Surcharged Outfall			



FEH - Surge: 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 - Surge: 100 years: +45 %: 720 mins: Winter	59.700	55.420	57.002	1.582	11.1	2.796	0.000	11.0	839.661	Surcharged
S713	FEH - Surge: 100 years: +45 %: 60 mins: Summer	59.940	55.190	58.605	3.415	205.9	4.887	0.000	182.7	470.600	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur G		Revision: Rev 2 Surcharged Outfall			



FEH - Surge: 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 - Surge: 100 years: +45 %: 1440 mins: Winter	59.400	55.300	57.642	2.342	5.8	4.138	0.000	5.8	849.278	Surcharged
S711	FEH - Surge: 100 years: +45 %: 60 mins: Summer	59.000	54.945	57.591	2.646	269.5	4.675	0.000	262.3	715.933	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur E		Revision: Rev 2 Surcharged Outfall			



FEH - Surge: 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 - Surge: 100 years: +45 %: 960 mins: Winter	59.000	55.050	57.964	2.914	5.9	3.296	0.000	5.9	584.082	Surcharged
S709	FEH - Surge: 100 years: +45 %: 60 mins: Summer	57.700	54.640	56.355	1.715	343.4	3.031	0.000	341.5	840.477	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur D		Revision: Rev 2 Surcharged Outfall			



FEH - Surge: 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 - Surge: 100 years: +45 %: 60 mins: Summer	58.350	55.370	56.430	1.060	48.9	1.198	0.000	47.8	125.563	Surcharged
S708A	FEH - Surge: 100 years: +45 %: 60 mins: Summer	57.800	55.290	56.318	1.028	47.8	1.162	0.000	46.7	125.225	Surcharged
S708	FEH - Surge: 100 years: +45 %: 60 mins: Summer	57.575	54.500	55.944	1.444	413.3	2.552	0.000	411.9	994.028	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur B		Revision: Rev 2 Surcharged Outfall			



FEH - Surcharge: 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 - Surcharge: 100 years: +45 %: 60 mins: Summer	56.200	54.730	55.341	0.611	2.9	1.079	0.000	1.9	10.505	Surcharged
S703	FEH - Surcharge: 100 years: +45 %: 60 mins: Summer	56.000	54.110	54.450	0.340	480.3	0.600	0.000	480.1	1071.835	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2 Surcharged Outfall			



FEH - Surge: 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 - Surge: 100 years: +45 %: 60 mins: Summer	56.750	54.370	55.301	0.931	725.0	1.645	0.000	724.6	978.511	Surcharged
S702A	FEH - Surge: 100 years: +45 %: 60 mins: Summer	56.300	54.245	54.642	0.397	724.6	0.449	0.000	727.5	977.295	OK

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Spur A		Revision: Rev 2 Surcharged Outfall			



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)	Half Drain Down Time (mins)	Percentage Available (%)
Pond 7a	FEH - Surcharge: 100 years: +45 %: 2880 mins: Winter	55.275	55.275	1.725	1.725	140.1	5459.935	0.000	0.000	74.7	19340.348	1765	-2.361

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Spur A	Revision: Rev 2 Surcharged Outfall		



Status

Flood Risk

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur J		Revision: Rev 2 Surcharged Outfall			



FEH - Surcharge: 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 - Surcharge: 100 years: +45 %: 600 mins: Winter	60.200	55.605	60.372	4.767	17.5	176.992	171.795	2.2	149.399	Flood
S713	FEH - Surcharge: 100 years: +45 %: 60 mins: Summer	59.940	55.190	58.605	3.415	205.9	4.887	0.000	182.7	470.600	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Spur N		Revision: Rev 2 Surcharged Outfall			



FEH - Surge: 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 - Surge: 100 years: +45 %: 960 mins: Winter	61.000	58.300	61.386	3.086	24.1	388.773	385.719	3.0	334.470	Flood
S719	FEH - Surge: 100 years: +45 %: 60 mins: Summer	60.540	58.040	60.005	1.965	47.2	2.223	0.000	36.1	76.848	Surcharged

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025			
	Designed by: C. Salt	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Flow Path	Revision: Rev 2 Surcharged Outfall			



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

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model				Date: 18/12/2025				
				Designed by: C. Salt	Checked by:	Approved By:		
Report Details: Type: Junctions Summary Storm Phase: Phase Flow Path: Flow Path				Revision: Rev 2 Surcharged Outfall				

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: 100 years: +45 %: 60 mins: Summer	60.85 0	59.32 0	60.191	0.871	44.7	0.985	0.000	44.6	55.759	Surcharged
S719	FEH - Surge: 100 years: +45 %: 60 mins: Summer	60.54 0	58.04 0	60.005	1.965	47.2	2.223	0.000	36.1	76.848	Surcharged
S718	FEH - Surge: 100 years: +45 %: 60 mins: Summer	60.40 5	57.92 5	59.973	2.048	56.3	2.316	0.000	51.5	104.762	Surcharged
S717	FEH - Surge: 100 years: +45 %: 60 mins: Summer	60.78 5	57.78 5	59.881	2.096	86.5	3.704	0.000	85.2	213.649	Surcharged
S716	FEH - Surge: 100 years: +45 %: 60 mins: Summer	60.91 5	57.43 0	59.736	2.306	99.4	2.608	0.000	104.3	253.725	Surcharged
S715	FEH - Surge: 100 years: +45 %: 60 mins: Summer	60.65 5	57.31 5	59.503	2.188	114.5	2.475	0.000	119.5	280.189	Surcharged
S714	FEH - Surge: 100 years: +45 %: 60 mins: Summer	60.33 5	57.23 0	59.240	2.010	130.4	2.876	0.000	135.1	305.843	Surcharged
S713	FEH - Surge: 100 years: +45 %: 60 mins: Summer	59.94 0	55.19 0	58.605	3.415	205.9	4.887	0.000	182.7	470.600	Surcharged
S712	FEH - Surge: 100 years: +45 %: 60 mins: Summer	59.97 5	55.12 0	58.374	3.254	227.9	5.750	0.000	234.1	635.176	Surcharged
S711	FEH - Surge: 100 years: +45 %: 60 mins: Summer	59.00 0	54.94 5	57.591	2.646	269.5	4.675	0.000	262.3	715.933	Surcharged
S710	FEH - Surge: 100 years: +45 %: 60 mins: Summer	58.36 5	54.75 0	56.817	2.067	295.0	3.652	0.000	292.3	753.776	Surcharged
S709	FEH - Surge: 100 years: +45 %: 60 mins: Summer	57.70 0	54.64 0	56.355	1.715	343.4	3.031	0.000	341.5	840.477	Surcharged
S708	FEH - Surge: 100 years: +45 %: 60 mins: Summer	57.57 5	54.50 0	55.944	1.444	413.3	2.552	0.000	411.9	994.028	Surcharged
S707	FEH - Surge: 100 years: +45 %: 60 mins: Summer	57.66 0	54.48 0	55.788	1.308	448.5	2.311	0.000	447.3	1037.662	Surcharged
S706	FEH - Surge: 100 years: +45 %: 60 mins: Summer	57.64 5	54.40 5	55.407	1.002	469.1	1.771	0.000	468.3	1062.887	Surcharged
S705	FEH - Surge: 100 years: +45 %: 60 mins: Summer	57.00 0	54.28 5	55.105	0.820	480.5	1.449	0.000	479.4	1073.078	Surcharged
S704	FEH - Surge: 100 years: +45 %: 60 mins: Summer	56.00 0	54.13 5	54.621	0.486	479.4	0.858	0.000	478.3	1065.149	OK
S703	FEH - Surge: 100 years: +45 %: 60 mins: Summer	56.00 0	54.11 0	54.450	0.340	480.3	0.600	0.000	480.1	1071.835	OK
S702	FEH - Surge: 100 years: +45 %: 1440 mins: Summer	55.80 0	53.52 5	55.163	1.638	74.7	2.894	0.000	74.6	10783.620	Surcharged
S701	FEH - Surge: 100 years: +45 %: 1440 mins: Summer	54.70 0	53.37 5	54.100	0.725	74.6	0.820	0.000	74.6	10778.682	Surcharged
Outfall	FEH - Surge: 100 years: +45 %: 1440 mins: Summer	54.20 0	53.34 0	54.025	0.685	74.6	0.000	0.000	74.6	10778.682	Flood Risk

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model		Date: 18/12/2025			
		Designed by: C. Salt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Flow Path		Revision: Rev 2 Surcharged Outfall			



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)	Half Drain Down Time (mins)	Percentage Available (%)
Pond 7a	FEH - Surcharge: 100 years: +45 %: 2880 mins: Winter	55.275	55.275	1.725	1.725	140.1	5459.935	0.000	0.000	74.7	19340.348	1765	-2.361

Project: Mowbray (Land North of Horsham) Catchment 7 - Hydraulic Model	Date: 18/12/2025		
	Designed by: C. Salt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase Flow Path: Flow Path	Revision: Rev 2 Surcharged Outfall		

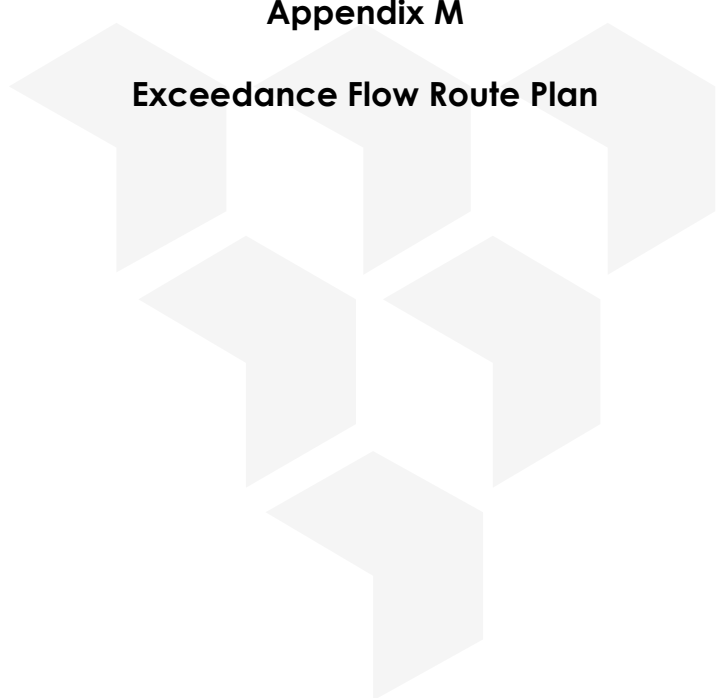


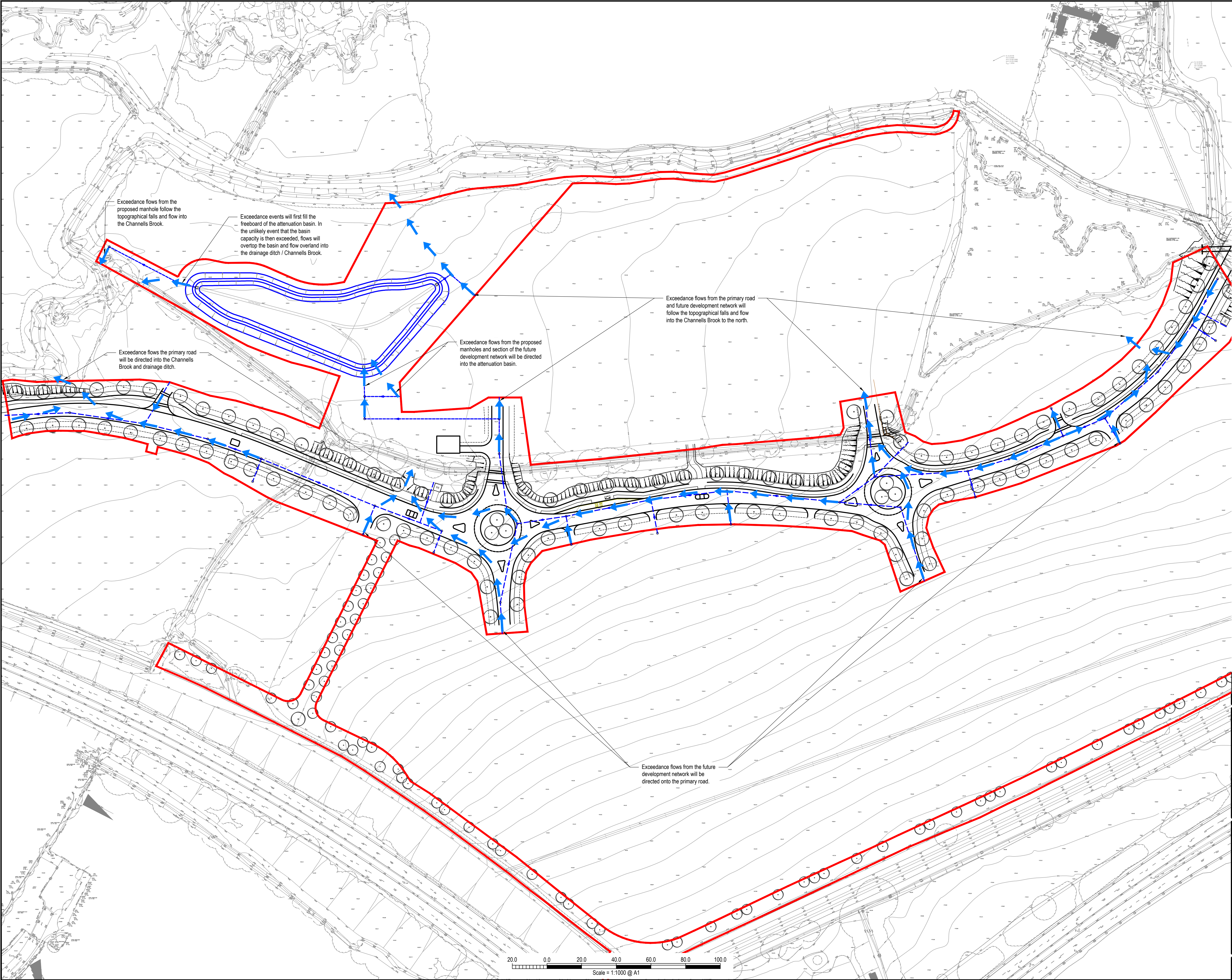
Status

Flood Risk

Appendix M

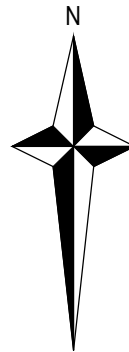
Exceedance Flow Route Plan





- 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

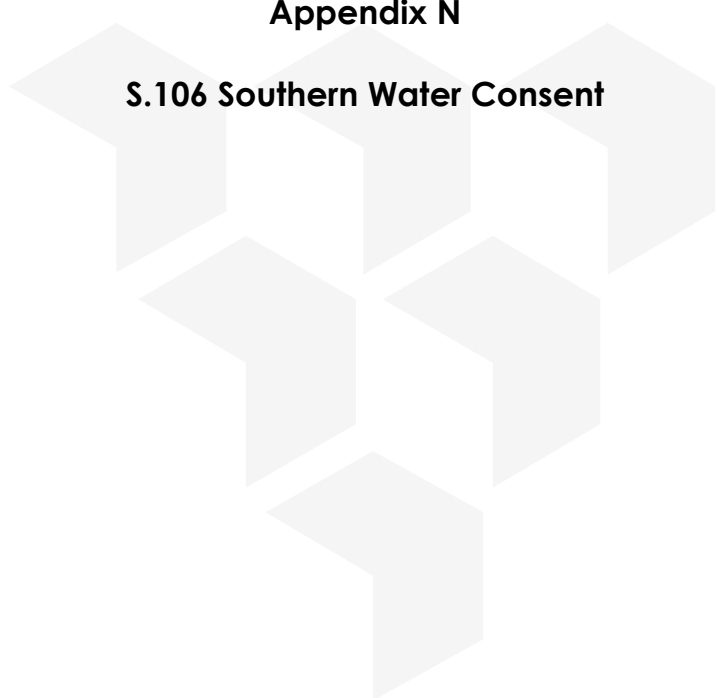
Cambridgeshire

Bristol

Client:	Legal & General (Strategic Land North Horsham) Ltd		
Project:	Mowbray (Land North of Horsham)		
Title:	RMA2 – Employment Land 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
			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.southernwater.co.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
- 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

Hertfordshire

|

Oxfordshire

|

Cambridgeshire

|

Bristol

postbox@glanvillegroup.com | www.glanvillegroup.com



Glanville Consultants Ltd, Registered office: 3 Grovelands Business Centre,
Boundary Way, Hemel Hempstead, Hertfordshire, HP2 7TE

