

TECHNICAL NOTE

Project Title: SWMP-FDS for a proposed residential development at 188 Bury Street, Ruislip HR4 7TJ	Rev. 2
	Date: 15/03/2021
Client: Towers Associates	
Subject: Surface Water Management Plan	

TABLE OF CONTENTS

1. INTRODUCTION	2
1.1. BACKGROUND	2
1.2. LOCATION OF THE SCHEME	2
1.3. ENVIRONMENT AGENCY FLOOD MAP	4
1.4. SOIL	6
2. SURFACE WATER MANAGEMENT PLAN	6
2.1. BRIEF CONSIDERATION	6
2.2. DESIGN	7
2.3. RESIDUAL RISKS	9
2.4. POLLUTION	10
3. FOUL DRAINAGE STRATEGY	10
4. SUMMARY	11
5. REFERENCES	12
APPENDIX A: CLIMATE CHANGE ALLOWANCES	13
B1 INTRODUCTION	13
B2 PEAK RIVER FLOW ALLOWANCES	13
B3 PEAK RAINFALL INTENSITY ALLOWANCES	15
APPENDIX B: MICRO-DRAINAGE OUTPUT	16

Prepared By:	Reviewed by:	Approved By:
Charles Townsend	Charles Townsend	Charles Townsend

1. INTRODUCTION

1.1. Background

This Technical Note describes the Surface Water Management Plan in support of the planning application for a proposed residential development at 188 Bury Street, Ruislip HR4 7TJ. This Technical Note has been prepared in response to an enquiry by Towers Associates to answer the following condition for the site at 188 Bury Street:

'No superstructure works shall be commenced until a scheme for the provision of sustainable water management has been submitted to and approved in writing by the Local Planning Authority. The scheme shall clearly demonstrate that sustainable drainage systems (SUDS) have been incorporated into the designs of the development in accordance with the hierarchy set out in accordance with Policy 5.15 of the London Plan and will: i. provide information about the design storm period and intensity, the method employed to delay and control the surface water discharged from the site and the measures taken to prevent pollution of the receiving groundwater and/or surface waters; ii. include a timetable for its implementation; and iii. provide a management and maintenance plan for the lifetime of the development which shall include the arrangements for adoption by any public authority or statutory undertaker and any other arrangements to secure the operation of the scheme throughout its lifetime. The scheme shall also demonstrate the use of methods to minimise the use of potable water through water collection, reuse and recycling and will: iv. provide details of water collection facilities to capture excess rainwater; v. provide details of how rain and grey water will be recycled and reused in the development'

The assessment has been informed by the site-specific documents listed below.

1. Site proposal drawings and topography drawings.

1.2. Location of the Scheme

The location of the site is shown Figure 1 and the aerial image is shown in Figure 2. Existing site is approximately 0.11ha and a residential dwelling with associated parking and a swimming pool. The proposed development is for four dwellings and associated parking and road. The rest of the site is garden. There is a ditch to the east of the site. This ditch drains to a tributary of the River Pinn to the north of the site by approximately 126m. There is a tree to the south west of the road.

To the north is Hillingdon Athletic Club to the east is Park Wood. To the south is residential; and then to the west is the A4180 (Bury Street) and then more residential.

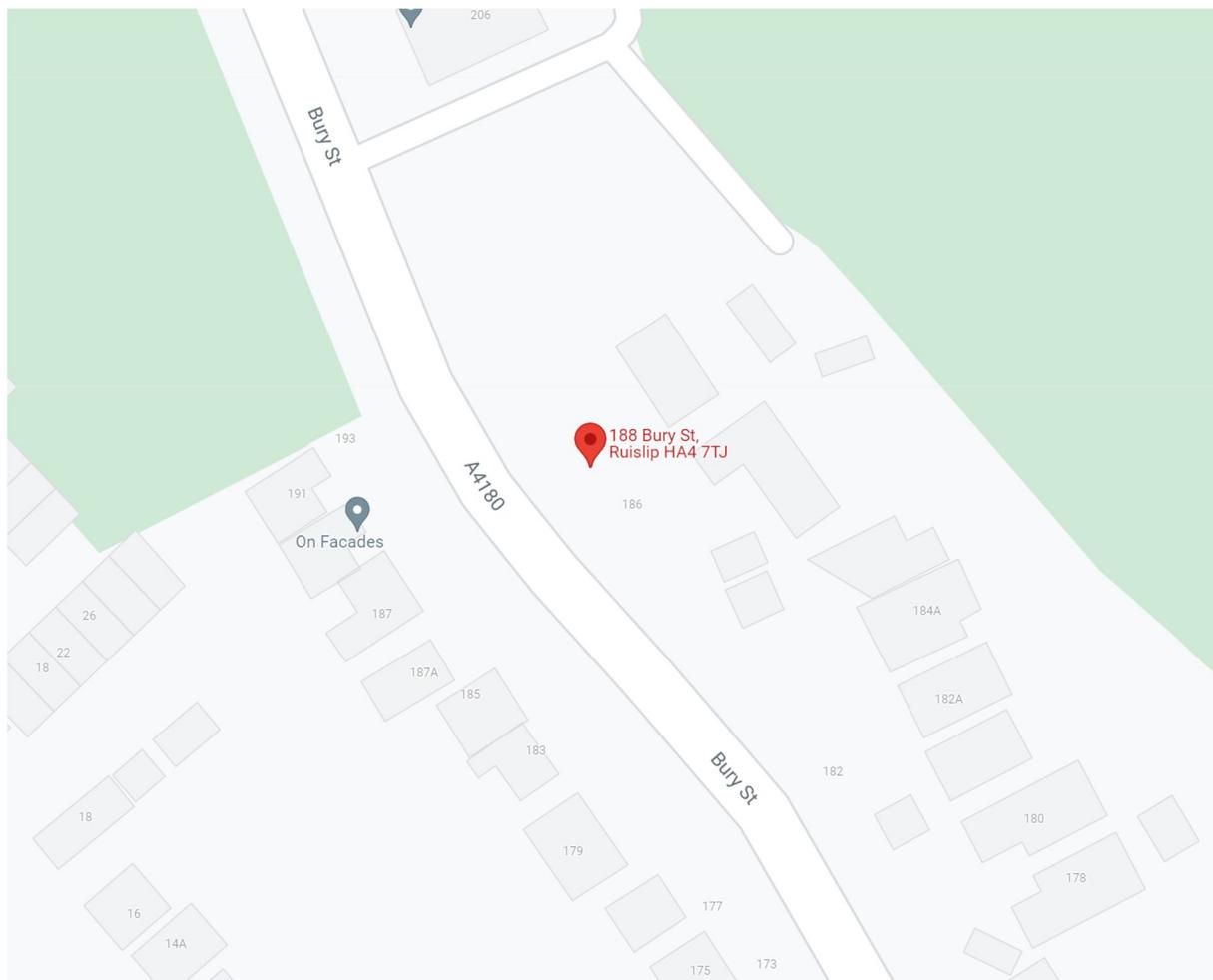


Figure 1: Site Location (Source: Tower Associates)



Figure 2: Site Location (Source: Bing Maps)

Table 1: The Details of the Proposed Development's Location (Source: Streetmap)

OS X (Eastings)	508629
OS Y (Northings)	188531
Nearest Post Code	HA4 7TJ
Lat (OSGB36)	N51:35:05 (51.58467)
Long (OSGB36)	W0:25:55 (-0.431925)
Lat, Long	51.584678, -0.431925
Nat Grid	TQ086885 / TQ0862988531

1.3. Environment Agency Flood Map

According to Environment Agency Long Term Flood Risk Map, there is very low risk of flooding from river or surface water flooding. See extent of flooding from rivers and surface water Figure 3 & 4.

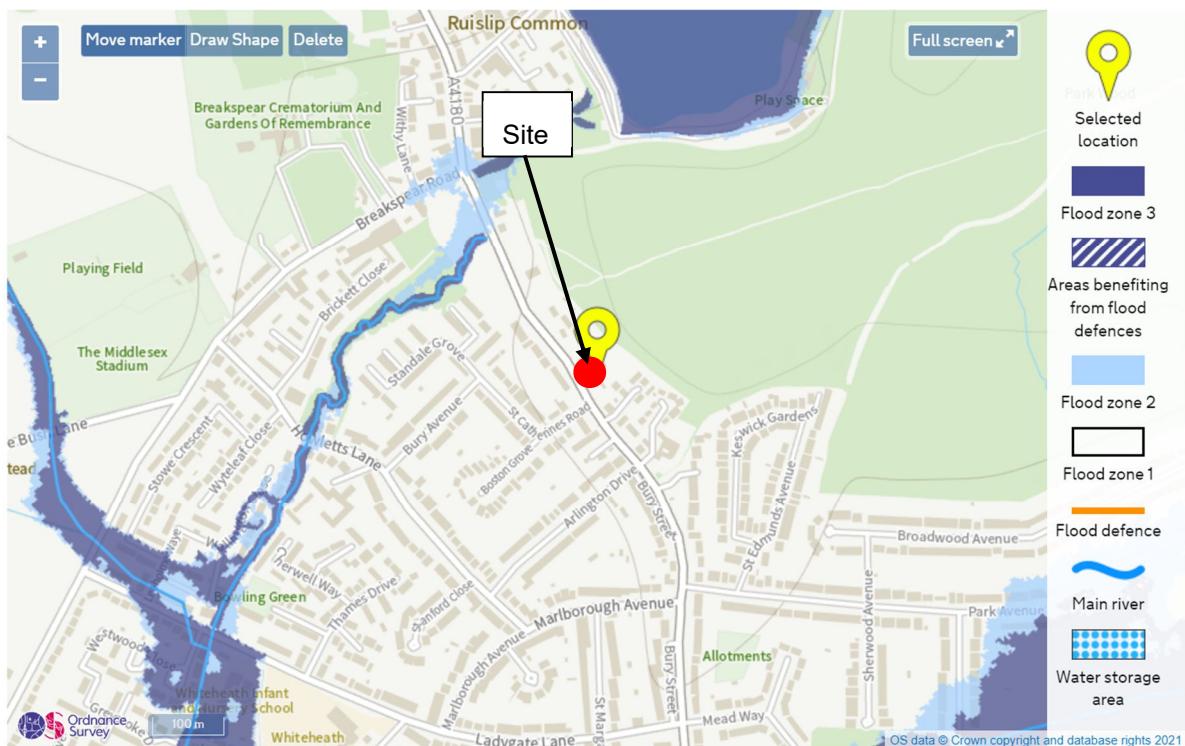
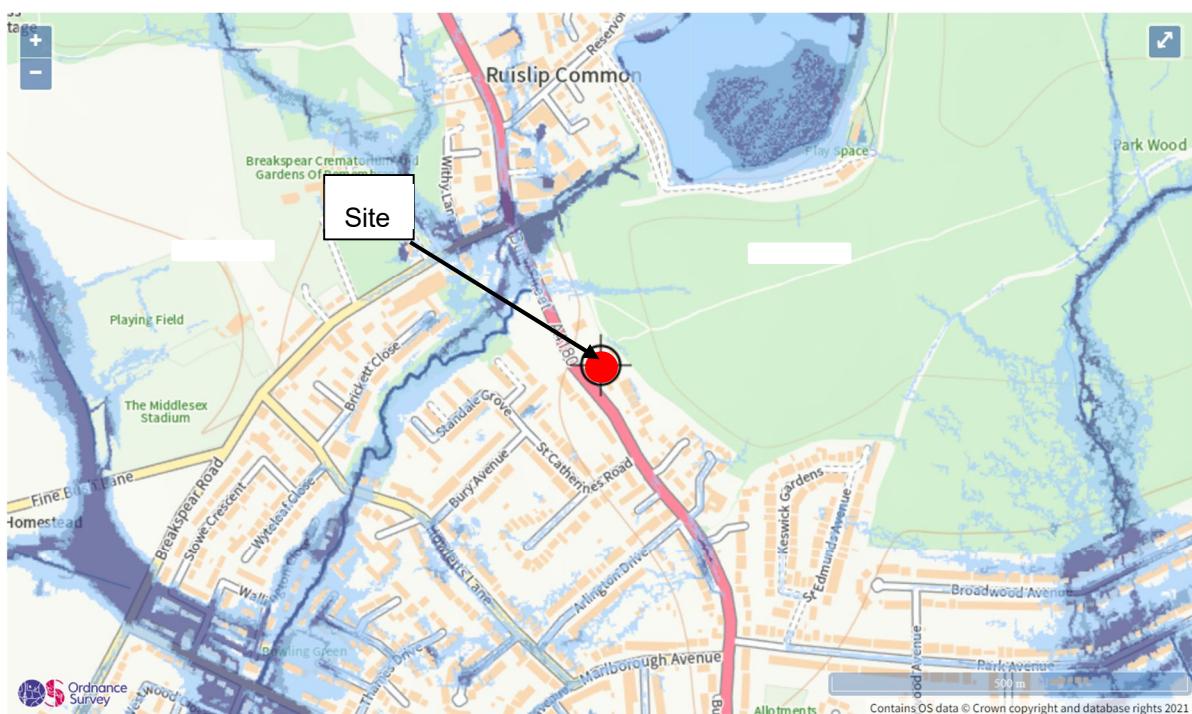


Figure 3 : EA Flood Map for Planning



Extent of flooding from surface water

High Medium Low Very low Location you selected

Figure 4: Surface Water Mapping

1.4. Soil

According to soilscape website the ground is Freely draining slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils. This suggest that the ground may not be permeable as the ground is wet. The Hillingdon SFRA states that infiltration is unlikely in this area.

Infiltration tests were undertaken on the 3rd to the 5th March. Two holes excavated one in the south of the site and another in the north of the site. The one in the north was abandoned because no virgin soil could be found.

The results of the soakaway test to the south indicate that infiltration did work and had a range between 2.49×10^{-5} m/s to 2.18×10^{-5} m/s. The tests were undertaken to BRE365. For conservativism the lowest infiltration value was used in calculations for the drainage 2.18×10^{-5} m/s

2. SURFACE WATER MANAGEMENT PLAN

2.1. Brief Consideration

The proposed development is for four dwellings. The impermeable area of the proposed development is the building roof areas and road will be approximately 0.064ha. The car parking spaces will be gravel and therefore is not impermeable. Please see figure 5 for the layout.

Following the hierarchy of drainage: site should drain firstly to soakaway, secondly to watercourse and then to surface water pipes and if these are not feasible then drain to a combined sewer. As said previously the ground does infiltrate so soakaways are feasible. Therefore, we propose to use soakaway to drain the site.

Due to the tree on the boundary, there is a no dig area, the tanks has been situated away from this area.

Given the above, the surface water from the houses will be drained to the south of the site to a soakaway under the road. The site is gently sloping towards the road to the south.

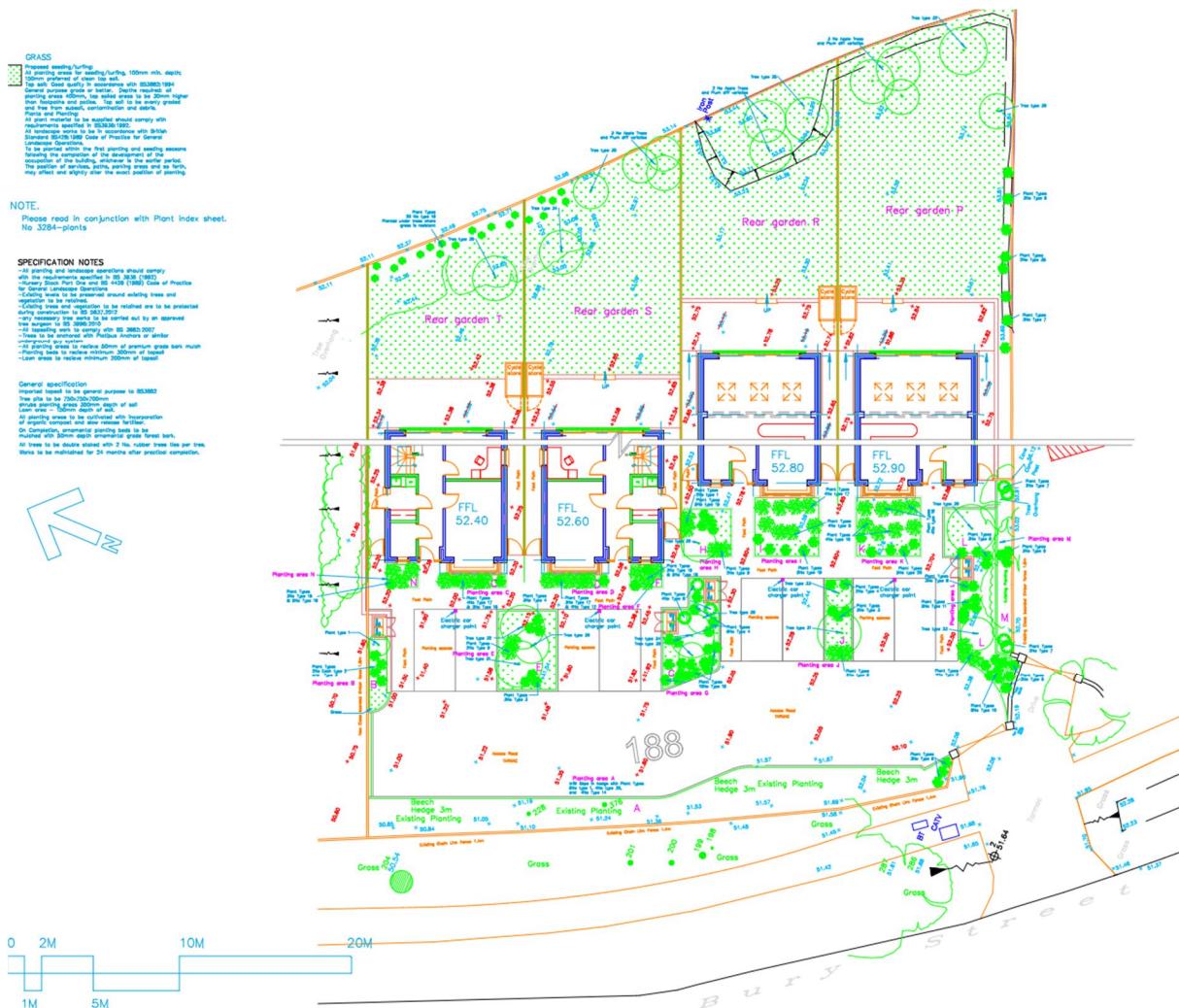


Figure 5 : Site Layout

2.2. Design

Modelling via Infodrainage was conducted to determine the required dimensions of the soakaway tank (results are shown in Appendix B). The following conservative assumptions and design parameters were set in the Micro Drainage model:

- Rainfall intensity was obtained through the FSR methodology and increased by 40% to take into account climate change, the Upper end allowance for climate change over the 100year design life of the proposed development in line with the requirements of NPPF.
- It will take up to 4 minutes for runoff from all Impermeable surfaces to reach the soakaway tank.
- The soakaway tank to the east will be approximately 1.3m deep and has a base area of 40.31m².
- The infiltration has been set at 2.18×10^{-5} m/s. The half time is 601 minutes.
- A 1.0 runoff coefficient was assumed in the modelling, meaning that all the rainfall onto the impermeable surfaces is directed to the attenuation basin and no runoff losses occur.

Model results indicate that a soakaway tank will attenuate up to and in 1 in 100 year event plus climate change. The output from the model is shown in Table 2 . The maximum water depth reaches up to

1.15m for 100 year + 40% climate change events. The detailed Micro-drainage output is shown in Appendix A.

Table 2: Model Output

FSR: Critical Storm Per Item

Stormwater Control	Storm Event	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Total Lost Volume (m³)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Tank	FSR: 100 years: +40 %; 360 mins: Winter	50.170	1.150	1.150	7.1	27.073	0.000	601	13	OK

A simplified proposed surface water management plan is shown in Figure 6.

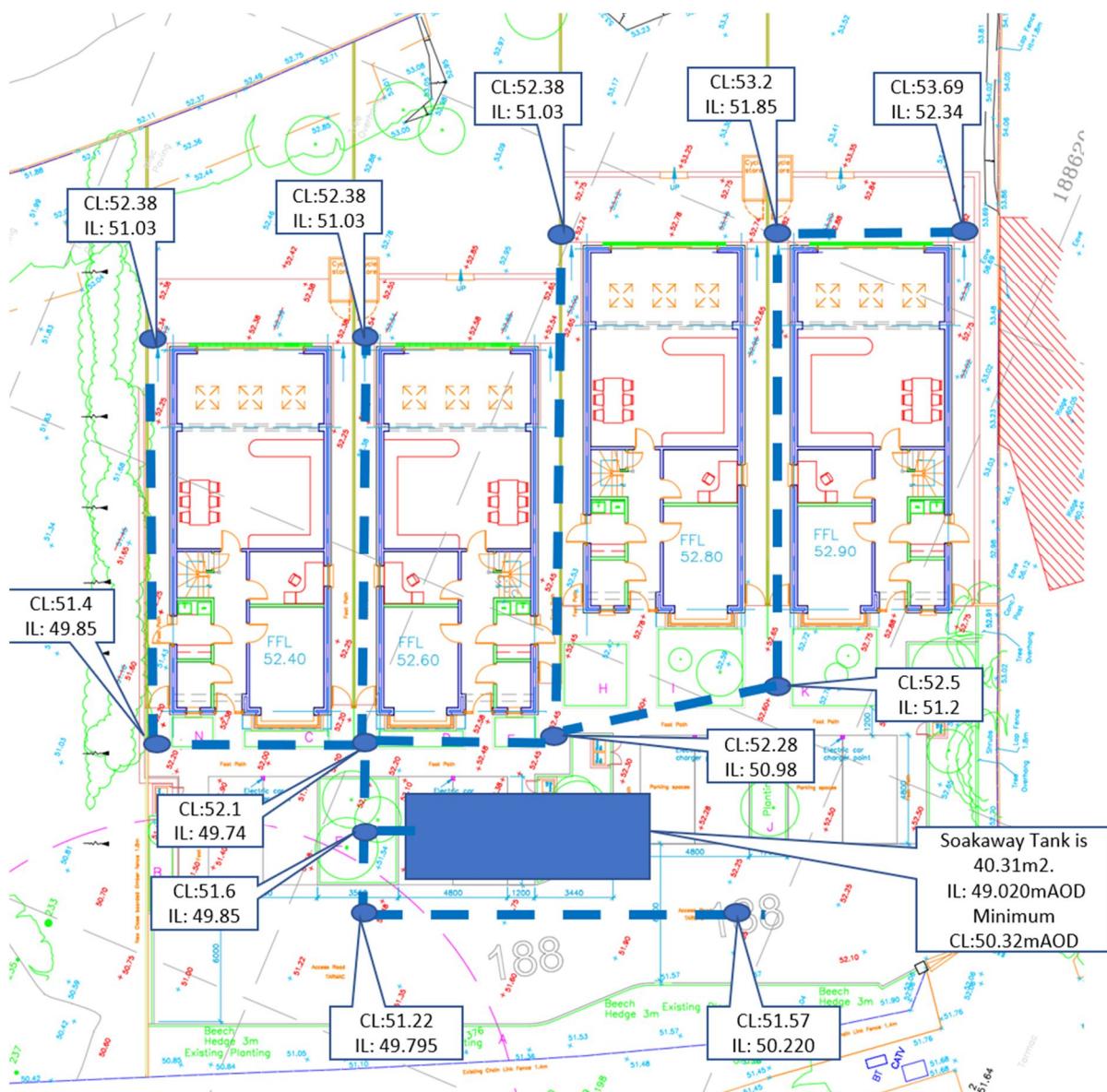


Figure 6 : Proposed SWMP Plan

2.3. Residual Risks

The 1 in 100-year event plus climate change will be contained within the attenuation basin. Events higher than this will fill the attenuation basin and then drain towards the ditch. The soakaway tank has been designed to hold the 1 in 100-year event plus Climate Change with a freeboard of 150mm.

Structures which manage surface water runoff require little maintenance, however a regular maintenance schedule e.g., after heavy rainfall, should be established by the site owners to reduce the risk of blockage within the drainage system and ensure the design remains in good working order.

A management company will maintain the proposed SUDS systems. They shall follow the maintenance plan indicated in Table 3. At this time, we cannot produce more information and therefore request a condition in regards to maintenance.

Table 3: Operation and Maintenance Requirements for Pervious Pavement Maintenance and attenuation tank Options

TABLE 22.1 Operation and maintenance requirements for detention basins		
Maintenance schedule	Required action	Typical frequency
Regular maintenance	Remove litter and debris	Monthly
	Cut grass – for spillways and access routes	Monthly (during growing season), or as required
	Cut grass – meadow grass in and around basin	Half yearly (spring – before nesting season, and autumn)
	Manage other vegetation and remove nuisance plants	Monthly (at start, then as required)
	Inspect inlets, outlets and overflows for blockages, and clear if required.	Monthly
	Inspect banksides, structures, pipework etc for evidence of physical damage	Monthly
	Inspect inlets and facility surface for silt accumulation. Establish appropriate silt removal frequencies.	Monthly (for first year), then annually or as required
	Check any penstocks and other mechanical devices	Annually
	Tidy all dead growth before start of growing season	Annually
	Remove sediment from inlets, outlet and forebay	Annually (or as required)
Occasional maintenance	Manage wetland plants in outlet pool – where provided	Annually (as set out in Chapter 23)
	Reseed areas of poor vegetation growth	As required
	Prune and trim any trees and remove cuttings	Every 2 years, or as required
Remedial actions	Remove sediment from inlets, outlets, forebay and main basin when required	Every 5 years, or as required (likely to be minimal requirements where effective upstream source control is provided)
	Repair erosion or other damage by reseeding or re-turfing	As required
	Realignment of rip-rap	As required
	Repair/rehabilitation of inlets, outlets and overflows	As required
	Relevel uneven surfaces and reinstate design levels	As required

2.4. Pollution

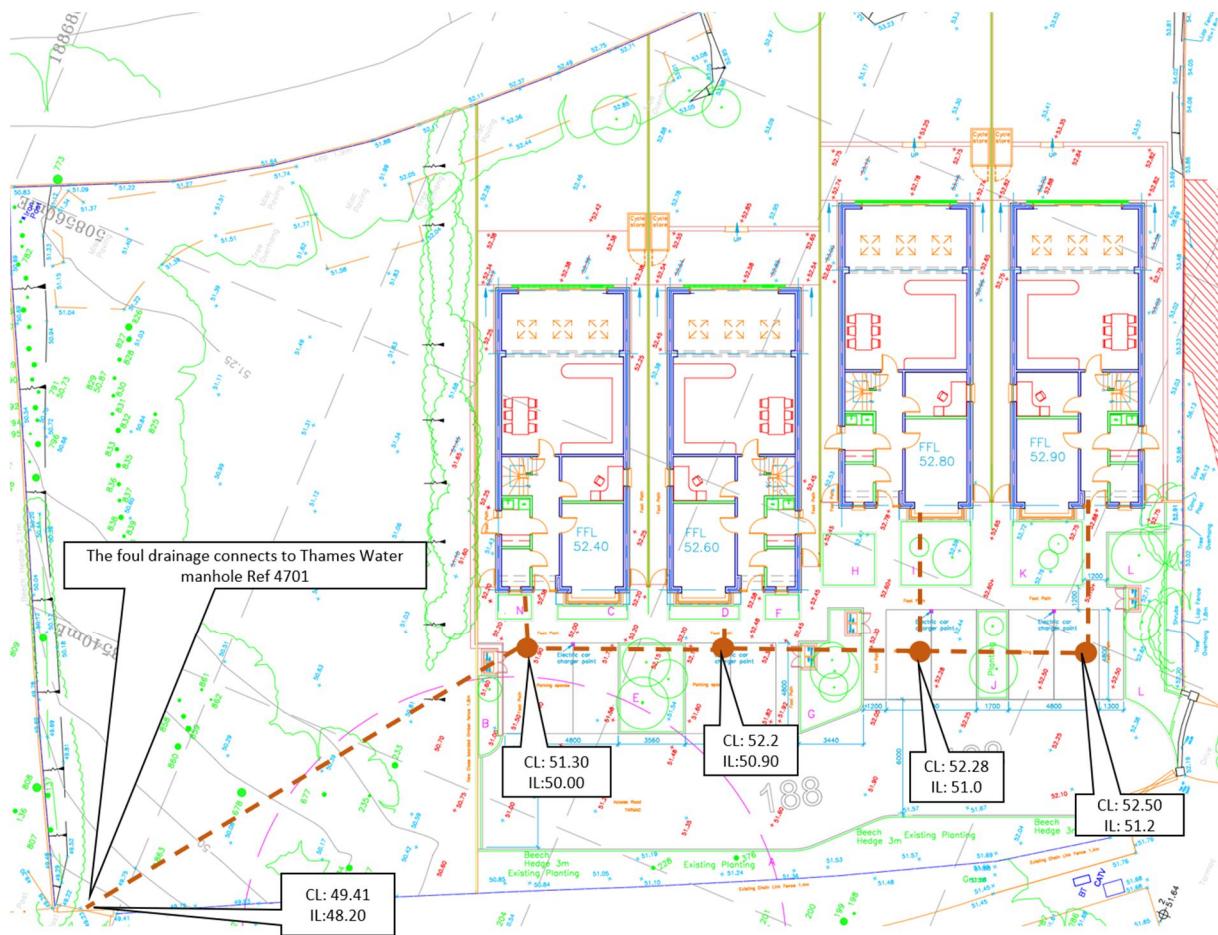
The water from the roofs will be clean water. This will then discharge into the soakaway tank which will hold the water up. This water should not have any pollution in it.

The surface water from the road will be filtered through gully pots and catchpits and then discharged into the soakaway tank. This will provide a two-tier pollution control firstly using a gully pots and catchpits and then a soakaway tank. According to the simple index approach this two-tier system should alleviate pollution from the residential car parks.

3. FOUL DRAINAGE STRATEGY

The foul water drainage will discharge to the Thames Water combined sewer manhole outside of the Hamilton Athletics club (Thames Water Ref number 4701). There are no available inverts for this manholes. However, the manhole cover is at approximately 48mAOD. The manhole downstream of 4701 has a cover level of 45m and an invert of 44.04mAOD is 0.96m lower. It is reasonable to assume the cover level is approximately 47mAOD. If the manholes have been built the same, the invert level will be approximately 46.04mAOD.

The lowest finished floor level is 52.40mAOD. Therefore, there is a difference of approximately 6m. The foul sewer will drain to Thames Water sewer ref number 4701. Before construction, this manhole will need to be surveyed. Please see below the foul drainage strategy.



4. SUMMARY

This Report presents a Surface Water Management Plan (SWMP) and Foul Drainage Strategy for the construction of a residential dwelling at 188 Bury Street, Ruislip HA44 7TN

A summary of the main conclusions from the study is presented below:

- The site is currently an existing house with associated parking and garden.
- The total building roof area and road is approximately 0.068ha.
- Soakaway tests indicate that infiltration SUDS is feasible. Therefore, it is proposed to attenuate surface water with soakaway tank which is 40.31m² by 1.3m deep.
- The half time of the soakaway tank is 601minutes.
- The soakaway tank has been designed for a 1 in 100-year event plus climate change.
- Foul flows will be connected to the 150mm combined sewer on Bury Road;
- The responsibility for maintaining any surface water and foul water features will be with the property owners and occupiers.

TECHNICAL NOTE

5. REFERENCES

Author	Date	Title/Description
Centre for Ecology and Hydrology.		The Flood Estimation Handbook Web Service
CIRIA	2015	The SUDS Manual – CIRIA Report C753.
DCLG	Mar 2014	Technical Guidance to the National Planning Policy Framework.
DEFRA / Environment Agency	2013	Rainfall Runoff Management for Development Report SC030219
Ministry of Housing, Communities and Local Government.	2019	National Planning Policy Framework
WHS	2016b	Revitalised Flood Hydrograph Model ReFH2: Technical Guidance.
Hillingdon Council		Surface Water Management Plan

Appendix A: Climate Change Allowances

B1 Introduction

In February 2016, the Environment Agency updated the climate change allowances required in Flood Risk Assessments (Environment Agency, 2016); this advice updates previous climate change allowances to support NPPF (2012). Guidance has been provided for:

- peak river flow by river basin district
- peak rainfall intensity
- sea level rise
- offshore wind speed and extreme wave height.

The general guidance is provided in this Appendix. For flood risk assessments and strategic flood risk assessments, assess both the central and upper end allowances to understand the range of impact.

B2 Peak River Flow Allowances

The peak river flow allowances for flood risk assessments should be applied by reference to the flood zone and vulnerability classification as shown below.

In flood zone 2:

- essential infrastructure – use the higher central and upper end to assess a range of allowances
- highly vulnerable – use the higher central and upper end to assess a range of allowances
- more vulnerable – use the central and higher central to assess a range of allowances
- less vulnerable – use the central allowance
- water compatible – use none of the allowances

In flood zone 3a

- essential infrastructure – use the upper end allowance
- highly vulnerable – development should not be permitted
- more vulnerable – use the higher central and upper end to assess a range of allowances
- less vulnerable – use the central and higher central to assess a range of allowances
- water compatible – use the central allowance

In flood zone 3b

- essential infrastructure – use the upper end allowance
- highly vulnerable – development should not be permitted
- more vulnerable – development should not be permitted
- less vulnerable – development should not be permitted
- water compatible – use the central allowance

If (exceptionally) development is considered appropriate when not in accordance with flood zone vulnerability categories, then it would be appropriate to use the upper end allowance.

River basin district	Allowance category	'2020s' (2015 - 2039)	'2050s' (2040 - 2069)	'2080s' (2070 - 2115)
Northumbria	Upper end	20%	30%	50%
	Higher central	15%	20%	25%
	Central	10%	15%	20%
Humber	Upper end	20%	30%	50%
	Higher central	15%	20%	30%
	Central	10%	15%	20%
Anglian	Upper end	25%	35%	65%
	Higher central	15%	20%	35%
	Central	10%	15%	25%
Southeast	Upper end	25%	50%	105%
	Higher central	15%	30%	45%
	Central	10%	20%	35%
Thames	Upper end	25%	35%	70%
	Higher central	15%	25%	35%
	Central	10%	15%	25%
Southwest	Upper end	25%	20%	85%
	Higher central	20%	30%	20%
	Central	10%	20%	30%
Severn	Upper end	25%	20%	70%
	Higher central	15%	25%	35%
	Central	10%	20%	25%
Dee	Upper end	20%	30%	45%
	Higher central	15%	20%	25%
	Central	10%	15%	20%
Northwest	Upper end	20%	35%	70%

	Higher central	20%	30%	35%
	Central	15%	25%	30%
Solway	Upper end	20%	30%	60%
	Higher central	15%	25%	30%
	Central	10%	20%	25%
Tweed	Upper end	20%	25%	45%
	Higher central	15%	20%	25%
	Central	10%	15%	20%

Table B2: Peak river flow allowances by river basin district (use 1961 to 1990 baseline)

B3 Peak Rainfall Intensity Allowances

For flood risk assessments and strategic flood risk assessments, both the central and upper end allowances should be used to understand the range of impact.

Applies across all of England	Total potential change anticipated for the '2020s' (2015 to 2039)	Total potential change anticipated for the '2050s' (2040 to 2069)	Total potential change anticipated for the '2080s' (2070 to 2115)
Upper end	10%	20%	40%
Central	5%	10%	20%

Table B3: peak rainfall intensity allowance in small and urban catchments (use 1961 to 1990 baseline)

Appendix B: Micro-Drainage Output

Project:		Date: 09/03/2022	Designed by: towns	Checked by:	Approved By:	
Report Details: Type: Junctions Storm Phase: Phase		Company Address:				

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)
MH3	Manhole	230.958	43.426	52.500	1.300
MH6.1	Manhole	229.187	35.297	51.570	1.350
MH6.2	Manhole	213.371	35.194	51.220	1.425
MH5	Manhole	213.399	41.927	52.100	2.360
MH5.2	Manhole	204.377	42.045	51.400	1.550
MH4	Manhole	221.611	42.225	52.280	1.300
MH5.3	Manhole	213.384	61.259	52.380	1.350
MH5.1	Manhole	203.990	61.044	52.380	1.350
MH4.1	Manhole	222.349	65.553	52.750	1.350
MH2	Manhole	231.528	65.822	53.200	1.350
MH6	Manhole	213.662	38.505	51.600	2.000
MH1	Manhole	240.147	65.593	53.690	1.350

Name	Invert Level (m)	Chamber Shape	Diameter (m)	Manhole Locked
MH3	51.200	Circular	1.200	<input type="checkbox"/>
MH6.1	50.220	Circular	1.200	<input type="checkbox"/>
MH6.2	49.795	Circular	1.200	<input type="checkbox"/>
MH5	49.740	Circular	1.200	<input type="checkbox"/>
MH5.2	49.850	Circular	1.200	<input type="checkbox"/>
MH4	50.980	Circular	1.200	<input type="checkbox"/>
MH5.3	51.030	Circular	1.200	<input type="checkbox"/>
MH5.1	51.030	Circular	1.200	<input type="checkbox"/>
MH4.1	51.400	Circular	1.200	<input type="checkbox"/>
MH2	51.850	Circular	1.200	<input type="checkbox"/>
MH6	49.600	Circular	1.200	<input type="checkbox"/>
MH1	52.340	Circular	1.200	<input type="checkbox"/>

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
MH3	Inlet	Area (3)	(None)	No Restriction
	Inlet (1)	Pipe (6)	(None)	No Restriction
MH6.1	Inlet	Area (4)	(None)	No Restriction
MH6.2	Inlet	Area (5)	(None)	No Restriction
	Inlet (1)	Pipe (1)	(None)	No Restriction
MH5	Inlet	Area (1)	(None)	No Restriction
	Pipe (2)			
	Inlet (1)	Pipe (9)	(None)	No Restriction
	Inlet (2)	Pipe (3)	(None)	No Restriction
MH5.2	Inlet	Area	(None)	No Restriction
	Inlet (1)	Pipe (10)	(None)	No Restriction
MH4	Inlet	Area (2)	(None)	No Restriction
	Pipe			
	Inlet (1)	Pipe (7)	(None)	No Restriction
	Inlet (2)	Pipe (8)	(None)	No Restriction
MH2	Inlet	Pipe (12)	(None)	No Restriction
MH6	Inlet	Pipe (4)	(None)	No Restriction
	Inlet (1)	Pipe (5)	(None)	No Restriction

Project:	Date: 09/03/2022	Designed by: towns	Checked by:	Approved By:	
Report Details: Type: Junctions Storm Phase: Phase	Company Address:				

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
MH3	Outlet	Pipe	Free Discharge
MH6.1	Outlet	Pipe (1)	Free Discharge
MH6.2	Outlet	Pipe (4)	Free Discharge
MH5	Outlet	Pipe (5)	Free Discharge
MH5.2	Outlet	Pipe (3)	Free Discharge
MH4	Outlet	Pipe (2)	Free Discharge
MH5.3	Outlet	Pipe (9)	Free Discharge
MH5.1	Outlet	Pipe (10)	Free Discharge
MH4.1	Outlet (1)	Pipe (7)	Free Discharge
MH2	Outlet	Pipe (8)	Free Discharge
MH6	Outlet	Pipe (11)	Free Discharge
MH1	Outlet	Pipe (12)	Free Discharge

Project:	Date: 09/03/2022	Designed by: towns	Checked by:	Approved By:
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address:			



Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	1440
FSR	Type: FSR
Return Period (years)	100.0
Region	England and Wales
M5-60 (mm)	20.7
Ratio R	0.429

Pipe Options

Lock Slope Options	None
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:x)	500.00
Max. Slope (1:x)	5.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	<input type="checkbox"/>
Reduce Channel Depths	<input type="checkbox"/>

Pipe Size Library

Default

Add. Increment (mm)	75	
Diameter (mm)	Min. Slope (1:x)	Max. Slope (1:x)
100	0.00	0.00
150	0.00	0.00

Project:	Date: 09/03/2022	Designed by: towns	Checked by:	Approved By:
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address:			



Manhole Options

Apply Offset	<input type="checkbox"/>
Synchronise Manhole Invert Levels	<input checked="" type="checkbox"/>

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:	Date: 09/03/2022	Designed by: towns	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:			



SUM Area

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow (m³)
FSR: 100 years: +40 %: 15 mins: Summer	0.01	9.2	4.013
FSR: 100 years: +40 %: 15 mins: Winter	0.01	9.7	4.492
FSR: 100 years: +40 %: 30 mins: Summer	0.01	8.2	5.200
FSR: 100 years: +40 %: 30 mins: Winter	0.01	7.4	5.819
FSR: 100 years: +40 %: 60 mins: Summer	0.01	6.0	6.404
FSR: 100 years: +40 %: 60 mins: Winter	0.01	4.9	7.167
FSR: 100 years: +40 %: 120 mins: Summer	0.01	3.9	7.618
FSR: 100 years: +40 %: 120 mins: Winter	0.01	3.0	8.538
FSR: 100 years: +40 %: 180 mins: Summer	0.01	3.0	8.330
FSR: 100 years: +40 %: 180 mins: Winter	0.01	2.2	9.312
FSR: 100 years: +40 %: 240 mins: Summer	0.01	2.4	8.814
FSR: 100 years: +40 %: 240 mins: Winter	0.01	1.7	9.875
FSR: 100 years: +40 %: 360 mins: Summer	0.01	1.7	9.549
FSR: 100 years: +40 %: 360 mins: Winter	0.01	1.3	10.691
FSR: 100 years: +40 %: 480 mins: Summer	0.01	1.4	10.101
FSR: 100 years: +40 %: 480 mins: Winter	0.01	1.0	11.303
FSR: 100 years: +40 %: 600 mins: Summer	0.01	1.1	10.554
FSR: 100 years: +40 %: 600 mins: Winter	0.01	0.8	11.824
FSR: 100 years: +40 %: 720 mins: Summer	0.01	1.0	10.908
FSR: 100 years: +40 %: 720 mins: Winter	0.01	0.7	12.248
FSR: 100 years: +40 %: 960 mins: Summer	0.01	0.8	11.534
FSR: 100 years: +40 %: 960 mins: Winter	0.01	0.6	12.905
FSR: 100 years: +40 %: 1440 mins: Summer	0.01	0.6	12.385
FSR: 100 years: +40 %: 1440 mins: Winter	0.01	0.4	13.851

Project:		Date: 09/03/2022			Designed by: towns	Checked by:	Approved By:	
		Report Details: Type: Inflows Summary Storm Phase: Phase						
FSR: 100 years: +40		0.01	0.4	13.380				
%: 2160 mins:								
Summer								
FSR: 100 years: +40		0.01	0.3	14.927				
%: 2160 mins:								
Winter								
FSR: 100 years: +40		0.01	0.3	14.070				
%: 2880 mins:								
Summer								
FSR: 100 years: +40		0.01	0.2	15.667				
%: 2880 mins:								
Winter								
FSR: 100 years: +40		0.01	0.2	15.078				
%: 4320 mins:								
Summer								
FSR: 100 years: +40		0.01	0.2	16.900				
%: 4320 mins:								
Winter								
FSR: 100 years: +40		0.01	0.2	16.168				
%: 5760 mins:								
Summer								
FSR: 100 years: +40		0.01	0.1	17.747				
%: 5760 mins:								
Winter								
FSR: 100 years: +40		0.01	0.2	16.162				
%: 7200 mins:								
Summer								
FSR: 100 years: +40		0.01	0.1	18.574				
%: 7200 mins:								
Winter								
FSR: 100 years: +40		0.01	0.1	16.787				
%: 8640 mins:								
Summer								
FSR: 100 years: +40		0.01	0.1	19.387				
%: 8640 mins:								
Winter								
FSR: 100 years: +40		0.01	0.1	17.059				
%: 10080 mins:								
Summer								
FSR: 100 years: +40		0.01	0.1	18.877				
%: 10080 mins:								
Winter								

Project:	Date: 09/03/2022	Designed by: towns	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:			



SUM Area (1)

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow (m³)
FSR: 100 years: +40 %: 15 mins: Summer	0.01	8.2	3.575
FSR: 100 years: +40 %: 15 mins: Winter	0.01	8.6	4.005
FSR: 100 years: +40 %: 30 mins: Summer	0.01	7.3	4.633
FSR: 100 years: +40 %: 30 mins: Winter	0.01	6.6	5.188
FSR: 100 years: +40 %: 60 mins: Summer	0.01	5.4	5.704
FSR: 100 years: +40 %: 60 mins: Winter	0.01	4.3	6.391
FSR: 100 years: +40 %: 120 mins: Summer	0.01	3.5	6.790
FSR: 100 years: +40 %: 120 mins: Winter	0.01	2.6	7.610
FSR: 100 years: +40 %: 180 mins: Summer	0.01	2.6	7.421
FSR: 100 years: +40 %: 180 mins: Winter	0.01	1.9	8.304
FSR: 100 years: +40 %: 240 mins: Summer	0.01	2.1	7.861
FSR: 100 years: +40 %: 240 mins: Winter	0.01	1.5	8.790
FSR: 100 years: +40 %: 360 mins: Summer	0.01	1.5	8.512
FSR: 100 years: +40 %: 360 mins: Winter	0.01	1.1	9.538
FSR: 100 years: +40 %: 480 mins: Summer	0.01	1.2	9.005
FSR: 100 years: +40 %: 480 mins: Winter	0.01	0.9	10.096
FSR: 100 years: +40 %: 600 mins: Summer	0.01	1.0	9.397
FSR: 100 years: +40 %: 600 mins: Winter	0.01	0.7	10.529
FSR: 100 years: +40 %: 720 mins: Summer	0.01	0.9	9.723
FSR: 100 years: +40 %: 720 mins: Winter	0.01	0.6	10.879
FSR: 100 years: +40 %: 960 mins: Summer	0.01	0.7	10.270
FSR: 100 years: +40 %: 960 mins: Winter	0.01	0.5	11.510
FSR: 100 years: +40 %: 1440 mins: Summer	0.01	0.5	11.056
FSR: 100 years: +40 %: 1440 mins: Winter	0.01	0.4	12.360

Project:		Date: 09/03/2022			Designed by: towns	Checked by:	Approved By:	
		Report Details: Type: Inflows Summary Storm Phase: Phase						
FSR: 100 years: +40	%: 2160 mins:	0.01	0.4	11.828				
Summer								
FSR: 100 years: +40	%: 2160 mins:	0.01	0.3	13.360				
Winter								
FSR: 100 years: +40	%: 2880 mins:	0.01	0.3	12.572				
Summer								
FSR: 100 years: +40	%: 2880 mins:	0.01	0.2	14.134				
Winter								
FSR: 100 years: +40	%: 4320 mins:	0.01	0.2	13.572				
Summer								
FSR: 100 years: +40	%: 4320 mins:	0.01	0.2	15.241				
Winter								
FSR: 100 years: +40	%: 5760 mins:	0.01	0.2	13.974				
Summer								
FSR: 100 years: +40	%: 5760 mins:	0.01	0.1	15.697				
Winter								
FSR: 100 years: +40	%: 7200 mins:	0.01	0.1	14.268				
Summer								
FSR: 100 years: +40	%: 7200 mins:	0.01	0.1	16.679				
Winter								
FSR: 100 years: +40	%: 8640 mins:	0.01	0.1	14.833				
Summer								
FSR: 100 years: +40	%: 8640 mins:	0.01	0.1	16.487				
Winter								
FSR: 100 years: +40	%: 10080 mins:	0.01	0.1	15.247				
Summer								
FSR: 100 years: +40	%: 10080 mins:	0.01	0.1	16.933				
Winter								

Project:		Date: 09/03/2022	Designed by: towns	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase		Company Address:			

SUM Area (2)

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow (m³)
FSR: 100 years: +40 %: 15 mins: Summer	0.02	10.7	4.658
FSR: 100 years: +40 %: 15 mins: Winter	0.02	11.2	5.214
FSR: 100 years: +40 %: 30 mins: Summer	0.02	9.5	6.032
FSR: 100 years: +40 %: 30 mins: Winter	0.02	8.6	6.753
FSR: 100 years: +40 %: 60 mins: Summer	0.02	7.0	7.427
FSR: 100 years: +40 %: 60 mins: Winter	0.02	5.7	8.317
FSR: 100 years: +40 %: 120 mins: Summer	0.02	4.6	8.841
FSR: 100 years: +40 %: 120 mins: Winter	0.02	3.4	9.902
FSR: 100 years: +40 %: 180 mins: Summer	0.02	3.4	9.661
FSR: 100 years: +40 %: 180 mins: Winter	0.02	2.5	10.823
FSR: 100 years: +40 %: 240 mins: Summer	0.02	2.8	10.237
FSR: 100 years: +40 %: 240 mins: Winter	0.02	2.0	11.455
FSR: 100 years: +40 %: 360 mins: Summer	0.02	2.0	11.078
FSR: 100 years: +40 %: 360 mins: Winter	0.02	1.4	12.417
FSR: 100 years: +40 %: 480 mins: Summer	0.02	1.6	11.712
FSR: 100 years: +40 %: 480 mins: Winter	0.02	1.1	13.115
FSR: 100 years: +40 %: 600 mins: Summer	0.02	1.3	12.240
FSR: 100 years: +40 %: 600 mins: Winter	0.02	1.0	13.694
FSR: 100 years: +40 %: 720 mins: Summer	0.02	1.1	12.669
FSR: 100 years: +40 %: 720 mins: Winter	0.02	0.8	14.204
FSR: 100 years: +40 %: 960 mins: Summer	0.02	0.9	13.376
FSR: 100 years: +40 %: 960 mins: Winter	0.02	0.7	15.003
FSR: 100 years: +40 %: 1440 mins: Summer	0.02	0.6	14.352
FSR: 100 years: +40 %: 1440 mins: Winter	0.02	0.5	16.101

Project:		Date: 09/03/2022		Designed by: towns	Checked by:	Approved By:	
		Report Details: Type: Inflows Summary Storm Phase: Phase					
FSR: 100 years: +40	%: 2160 mins:	0.02	0.5	15.450			
Summer							
FSR: 100 years: +40	%: 2160 mins:	0.02	0.3	17.382			
Winter							
FSR: 100 years: +40	%: 2880 mins:	0.02	0.4	16.272			
Summer							
FSR: 100 years: +40	%: 2880 mins:	0.02	0.3	18.406			
Winter							
FSR: 100 years: +40	%: 4320 mins:	0.02	0.3	17.276			
Summer							
FSR: 100 years: +40	%: 4320 mins:	0.02	0.2	19.439			
Winter							
FSR: 100 years: +40	%: 5760 mins:	0.02	0.2	18.392			
Summer							
FSR: 100 years: +40	%: 5760 mins:	0.02	0.2	20.806			
Winter							
FSR: 100 years: +40	%: 7200 mins:	0.02	0.2	19.190			
Summer							
FSR: 100 years: +40	%: 7200 mins:	0.02	0.1	21.168			
Winter							
FSR: 100 years: +40	%: 8640 mins:	0.02	0.2	19.291			
Summer							
FSR: 100 years: +40	%: 8640 mins:	0.02	0.1	22.186			
Winter							
FSR: 100 years: +40	%: 10080 mins:	0.02	0.1	19.955			
Summer							
FSR: 100 years: +40	%: 10080 mins:	0.02	0.1	22.866			
Winter							

Project:	Date: 09/03/2022	Designed by: towns	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:			



Area (3)

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow (m³)
FSR: 100 years: +40 %: 15 mins: Summer	0.02	11.1	4.837
FSR: 100 years: +40 %: 15 mins: Winter	0.02	11.6	5.416
FSR: 100 years: +40 %: 30 mins: Summer	0.02	9.9	6.265
FSR: 100 years: +40 %: 30 mins: Winter	0.02	8.9	7.014
FSR: 100 years: +40 %: 60 mins: Summer	0.02	7.3	7.716
FSR: 100 years: +40 %: 60 mins: Winter	0.02	5.9	8.638
FSR: 100 years: +40 %: 120 mins: Summer	0.02	4.7	9.183
FSR: 100 years: +40 %: 120 mins: Winter	0.02	3.6	10.279
FSR: 100 years: +40 %: 180 mins: Summer	0.02	3.5	10.034
FSR: 100 years: +40 %: 180 mins: Winter	0.02	2.6	11.237
FSR: 100 years: +40 %: 240 mins: Summer	0.02	2.9	10.626
FSR: 100 years: +40 %: 240 mins: Winter	0.02	2.1	11.905
FSR: 100 years: +40 %: 360 mins: Summer	0.02	2.1	11.510
FSR: 100 years: +40 %: 360 mins: Winter	0.02	1.5	12.895
FSR: 100 years: +40 %: 480 mins: Summer	0.02	1.7	12.174
FSR: 100 years: +40 %: 480 mins: Winter	0.02	1.2	13.628
FSR: 100 years: +40 %: 600 mins: Summer	0.02	1.4	12.702
FSR: 100 years: +40 %: 600 mins: Winter	0.02	1.0	14.248
FSR: 100 years: +40 %: 720 mins: Summer	0.02	1.2	13.153
FSR: 100 years: +40 %: 720 mins: Winter	0.02	0.9	14.719
FSR: 100 years: +40 %: 960 mins: Summer	0.02	0.9	13.874
FSR: 100 years: +40 %: 960 mins: Winter	0.02	0.7	15.538
FSR: 100 years: +40 %: 1440 mins: Summer	0.02	0.7	14.968
FSR: 100 years: +40 %: 1440 mins: Winter	0.02	0.5	16.792

Project:		Date: 09/03/2022			Designed by: towns	Checked by:	Approved By:	
		Report Details: Type: Inflows Summary Storm Phase: Phase						
FSR: 100 years: +40	%: 2160 mins:	0.02	0.5	16.033				
Summer								
FSR: 100 years: +40	%: 2160 mins:	0.02	0.3	17.908				
Winter								
FSR: 100 years: +40	%: 2880 mins:	0.02	0.4	16.873				
Summer								
FSR: 100 years: +40	%: 2880 mins:	0.02	0.3	18.979				
Winter								
FSR: 100 years: +40	%: 4320 mins:	0.02	0.3	18.193				
Summer								
FSR: 100 years: +40	%: 4320 mins:	0.02	0.2	20.318				
Winter								
FSR: 100 years: +40	%: 5760 mins:	0.02	0.2	19.078				
Summer								
FSR: 100 years: +40	%: 5760 mins:	0.02	0.2	21.502				
Winter								
FSR: 100 years: +40	%: 7200 mins:	0.02	0.2	20.213				
Summer								
FSR: 100 years: +40	%: 7200 mins:	0.02	0.1	22.189				
Winter								
FSR: 100 years: +40	%: 8640 mins:	0.02	0.2	20.118				
Summer								
FSR: 100 years: +40	%: 8640 mins:	0.02	0.1	23.110				
Winter								
FSR: 100 years: +40	%: 10080 mins:	0.02	0.1	20.570				
Summer								
FSR: 100 years: +40	%: 10080 mins:	0.02	0.1	23.947				
Winter								

Project:		Date: 09/03/2022	Designed by: towns	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase		Company Address:			

SUM Area (4)

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow (m³)
FSR: 100 years: +40 %: 15 mins: Summer	0.01	4.7	2.044
FSR: 100 years: +40 %: 15 mins: Winter	0.01	4.9	2.290
FSR: 100 years: +40 %: 30 mins: Summer	0.01	4.2	2.651
FSR: 100 years: +40 %: 30 mins: Winter	0.01	3.8	2.967
FSR: 100 years: +40 %: 60 mins: Summer	0.01	3.1	3.264
FSR: 100 years: +40 %: 60 mins: Winter	0.01	2.5	3.657
FSR: 100 years: +40 %: 120 mins: Summer	0.01	2.0	3.884
FSR: 100 years: +40 %: 120 mins: Winter	0.01	1.5	4.350
FSR: 100 years: +40 %: 180 mins: Summer	0.01	1.5	4.241
FSR: 100 years: +40 %: 180 mins: Winter	0.01	1.1	4.755
FSR: 100 years: +40 %: 240 mins: Summer	0.01	1.2	4.490
FSR: 100 years: +40 %: 240 mins: Winter	0.01	0.9	5.041
FSR: 100 years: +40 %: 360 mins: Summer	0.01	0.9	4.867
FSR: 100 years: +40 %: 360 mins: Winter	0.01	0.6	5.447
FSR: 100 years: +40 %: 480 mins: Summer	0.01	0.7	5.145
FSR: 100 years: +40 %: 480 mins: Winter	0.01	0.5	5.767
FSR: 100 years: +40 %: 600 mins: Summer	0.01	0.6	5.376
FSR: 100 years: +40 %: 600 mins: Winter	0.01	0.4	5.998
FSR: 100 years: +40 %: 720 mins: Summer	0.01	0.5	5.570
FSR: 100 years: +40 %: 720 mins: Winter	0.01	0.4	6.197
FSR: 100 years: +40 %: 960 mins: Summer	0.01	0.4	5.861
FSR: 100 years: +40 %: 960 mins: Winter	0.01	0.3	6.563
FSR: 100 years: +40 %: 1440 mins: Summer	0.01	0.3	6.328
FSR: 100 years: +40 %: 1440 mins: Winter	0.01	0.2	7.138

Project: Report Details: Type: Inflows Summary Storm Phase: Phase		Date: 09/03/2022	Designed by: towns	Checked by:	Approved By:	
		Company Address:				
FSR: 100 years: +40 %: 2160 mins: Summer	0.01	0.2	6.841			
FSR: 100 years: +40 %: 2160 mins: Winter	0.01	0.2	7.742			
FSR: 100 years: +40 %: 2880 mins: Summer	0.01	0.2	7.123			
FSR: 100 years: +40 %: 2880 mins: Winter	0.01	0.1	7.957			
FSR: 100 years: +40 %: 4320 mins: Summer	0.01	0.1	7.663			
FSR: 100 years: +40 %: 4320 mins: Winter	0.01	0.1	8.443			
FSR: 100 years: +40 %: 5760 mins: Summer	0.01	0.1	8.089			
FSR: 100 years: +40 %: 5760 mins: Winter	0.01	0.1	8.850			
FSR: 100 years: +40 %: 7200 mins: Summer	0.01	0.1	8.810			
FSR: 100 years: +40 %: 7200 mins: Winter	0.01	0.0	9.247			
FSR: 100 years: +40 %: 8640 mins: Summer	0.01	0.1	9.533			
FSR: 100 years: +40 %: 8640 mins: Winter	0.01	0.0	10.051			
FSR: 100 years: +40 %: 10080 mins: Summer	0.01	0.1	9.444			
FSR: 100 years: +40 %: 10080 mins: Winter	0.01	0.0	10.402			

Project:	Date: 09/03/2022	Designed by: towns	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:			



Area (5)

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow (m³)
FSR: 100 years: +40 %: 15 mins: Summer	0.01	8.8	3.849
FSR: 100 years: +40 %: 15 mins: Winter	0.01	9.3	4.311
FSR: 100 years: +40 %: 30 mins: Summer	0.01	7.9	4.987
FSR: 100 years: +40 %: 30 mins: Winter	0.01	7.1	5.586
FSR: 100 years: +40 %: 60 mins: Summer	0.01	5.8	6.141
FSR: 100 years: +40 %: 60 mins: Winter	0.01	4.7	6.876
FSR: 100 years: +40 %: 120 mins: Summer	0.01	3.8	7.312
FSR: 100 years: +40 %: 120 mins: Winter	0.01	2.9	8.192
FSR: 100 years: +40 %: 180 mins: Summer	0.01	2.8	7.988
FSR: 100 years: +40 %: 180 mins: Winter	0.01	2.1	8.949
FSR: 100 years: +40 %: 240 mins: Summer	0.01	2.3	8.462
FSR: 100 years: +40 %: 240 mins: Winter	0.01	1.7	9.469
FSR: 100 years: +40 %: 360 mins: Summer	0.01	1.7	9.167
FSR: 100 years: +40 %: 360 mins: Winter	0.01	1.2	10.256
FSR: 100 years: +40 %: 480 mins: Summer	0.01	1.3	9.688
FSR: 100 years: +40 %: 480 mins: Winter	0.01	0.9	10.865
FSR: 100 years: +40 %: 600 mins: Summer	0.01	1.1	10.119
FSR: 100 years: +40 %: 600 mins: Winter	0.01	0.8	11.334
FSR: 100 years: +40 %: 720 mins: Summer	0.01	0.9	10.472
FSR: 100 years: +40 %: 720 mins: Winter	0.01	0.7	11.727
FSR: 100 years: +40 %: 960 mins: Summer	0.01	0.8	11.056
FSR: 100 years: +40 %: 960 mins: Winter	0.01	0.5	12.400
FSR: 100 years: +40 %: 1440 mins: Summer	0.01	0.5	11.927
FSR: 100 years: +40 %: 1440 mins: Winter	0.01	0.4	13.376

Project:		Date: 09/03/2022			Designed by: towns	Checked by:	Approved By:	
		Report Details: Type: Inflows Summary Storm Phase: Phase						
FSR: 100 years: +40		0.01	0.4	12.823				
%: 2160 mins:								
Summer								
FSR: 100 years: +40		0.01	0.3	14.363				
%: 2160 mins:								
Winter								
FSR: 100 years: +40		0.01	0.3	13.632				
%: 2880 mins:								
Summer								
FSR: 100 years: +40		0.01	0.2	15.107				
%: 2880 mins:								
Winter								
FSR: 100 years: +40		0.01	0.2	14.462				
%: 4320 mins:								
Summer								
FSR: 100 years: +40		0.01	0.2	16.375				
%: 4320 mins:								
Winter								
FSR: 100 years: +40		0.01	0.2	15.152				
%: 5760 mins:								
Summer								
FSR: 100 years: +40		0.01	0.1	16.798				
%: 5760 mins:								
Winter								
FSR: 100 years: +40		0.01	0.1	15.470				
%: 7200 mins:								
Summer								
FSR: 100 years: +40		0.01	0.1	17.718				
%: 7200 mins:								
Winter								
FSR: 100 years: +40		0.01	0.1	15.971				
%: 8640 mins:								
Summer								
FSR: 100 years: +40		0.01	0.1	18.762				
%: 8640 mins:								
Winter								
FSR: 100 years: +40		0.01	0.1	16.571				
%: 10080 mins:								
Summer								
FSR: 100 years: +40		0.01	0.1	18.379				
%: 10080 mins:								
Winter								

Project:		Date:	Approved By:				
		09/03/2022					
Report Details:		Designed by:	Checked by:	Company Address:			
Type: Junctions Summary							
Storm Phase: Phase							



MH3

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
FSR: 100 years: +40 %: 15 mins: Summer	52.500	51.200	51.663	0.463	11.1	0.523	0.000	8.9	4.825	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	52.500	51.200	51.760	0.560	11.6	0.634	0.000	9.0	5.404	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	52.500	51.200	51.586	0.386	9.9	0.436	0.000	8.9	6.255	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	52.500	51.200	51.575	0.375	8.9	0.424	0.000	8.3	7.005	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	52.500	51.200	51.273	0.073	7.3	0.082	0.000	7.3	7.708	OK
FSR: 100 years: +40 %: 60 mins: Winter	52.500	51.200	51.262	0.062	5.9	0.071	0.000	5.9	8.636	OK
FSR: 100 years: +40 %: 120 mins: Summer	52.500	51.200	51.254	0.054	4.7	0.061	0.000	4.7	9.181	OK
FSR: 100 years: +40 %: 120 mins: Winter	52.500	51.200	51.246	0.046	3.6	0.052	0.000	3.6	10.278	OK
FSR: 100 years: +40 %: 180 mins: Summer	52.500	51.200	51.246	0.046	3.5	0.052	0.000	3.5	10.032	OK
FSR: 100 years: +40 %: 180 mins: Winter	52.500	51.200	51.239	0.039	2.6	0.044	0.000	2.6	11.236	OK
FSR: 100 years: +40 %: 240 mins: Summer	52.500	51.200	51.240	0.040	2.9	0.046	0.000	2.9	10.624	OK
FSR: 100 years: +40 %: 240 mins: Winter	52.500	51.200	51.234	0.034	2.1	0.039	0.000	2.1	11.904	OK
FSR: 100 years: +40 %: 360 mins: Summer	52.500	51.200	51.234	0.034	2.1	0.038	0.000	2.1	11.509	OK
FSR: 100 years: +40 %: 360 mins: Winter	52.500	51.200	51.229	0.029	1.5	0.032	0.000	1.5	12.894	OK
FSR: 100 years: +40 %: 480 mins: Summer	52.500	51.200	51.230	0.030	1.7	0.034	0.000	1.7	12.173	OK
FSR: 100 years: +40 %: 480 mins: Winter	52.500	51.200	51.225	0.025	1.2	0.029	0.000	1.2	13.627	OK
FSR: 100 years: +40 %: 600 mins: Summer	52.500	51.200	51.227	0.027	1.4	0.031	0.000	1.4	12.701	OK
FSR: 100 years: +40 %: 600 mins: Winter	52.500	51.200	51.223	0.023	1.0	0.026	0.000	1.0	14.247	OK
FSR: 100 years: +40 %: 720 mins: Summer	52.500	51.200	51.225	0.025	1.2	0.029	0.000	1.2	13.152	OK

Project:			Date: 09/03/2022 Designed by: towns			Checked by: Approved By:				
Report Details: Type: Junctions Summary Storm Phase: Phase						Company Address:				
FSR: 100 years: +40 %: 720 mins: Winter	52.50 0	51.20 0	51.221	0.021	0.9	0.024	0.000	0.9	14.718	OK
FSR: 100 years: +40 %: 960 mins: Summer	52.50 0	51.20 0	51.222	0.022	0.9	0.025	0.000	0.9	13.873	OK
FSR: 100 years: +40 %: 960 mins: Winter	52.50 0	51.20 0	51.219	0.019	0.7	0.022	0.000	0.7	15.538	OK
FSR: 100 years: +40 %: 1440 mins: Summer	52.50 0	51.20 0	51.219	0.019	0.7	0.022	0.000	0.7	14.967	OK
FSR: 100 years: +40 %: 1440 mins: Winter	52.50 0	51.20 0	51.216	0.016	0.5	0.018	0.000	0.5	16.791	OK
FSR: 100 years: +40 %: 2160 mins: Summer	52.50 0	51.20 0	51.216	0.016	0.5	0.018	0.000	0.5	16.032	OK
FSR: 100 years: +40 %: 2160 mins: Winter	52.50 0	51.20 0	51.214	0.014	0.3	0.016	0.000	0.4	17.907	OK
FSR: 100 years: +40 %: 2880 mins: Summer	52.50 0	51.20 0	51.214	0.014	0.4	0.016	0.000	0.4	16.872	OK
FSR: 100 years: +40 %: 2880 mins: Winter	52.50 0	51.20 0	51.212	0.012	0.3	0.014	0.000	0.3	18.978	OK
FSR: 100 years: +40 %: 4320 mins: Summer	52.50 0	51.20 0	51.212	0.012	0.3	0.014	0.000	0.3	18.192	OK
FSR: 100 years: +40 %: 4320 mins: Winter	52.50 0	51.20 0	51.211	0.011	0.2	0.012	0.000	0.2	20.317	OK
FSR: 100 years: +40 %: 5760 mins: Summer	52.50 0	51.20 0	51.211	0.011	0.2	0.013	0.000	0.2	19.077	OK
FSR: 100 years: +40 %: 5760 mins: Winter	52.50 0	51.20 0	51.210	0.010	0.2	0.011	0.000	0.2	21.501	OK
FSR: 100 years: +40 %: 7200 mins: Summer	52.50 0	51.20 0	51.210	0.010	0.2	0.011	0.000	0.2	20.212	OK
FSR: 100 years: +40 %: 7200 mins: Winter	52.50 0	51.20 0	51.209	0.009	0.1	0.010	0.000	0.1	22.188	OK
FSR: 100 years: +40 %: 8640 mins: Summer	52.50 0	51.20 0	51.209	0.009	0.2	0.010	0.000	0.2	20.117	OK
FSR: 100 years: +40 %: 8640 mins: Winter	52.50 0	51.20 0	51.208	0.008	0.1	0.009	0.000	0.1	23.109	OK
FSR: 100 years: +40 %: 10080 mins: Summer	52.50 0	51.20 0	51.209	0.009	0.1	0.010	0.000	0.1	20.569	OK
FSR: 100 years: +40 %: 10080 mins: Winter	52.50 0	51.20 0	51.208	0.008	0.1	0.009	0.000	0.1	23.946	OK

Project:		Date: 09/03/2022					
		Designed by: towns	Checked by:	Approved By:			
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:					



MH6.1

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
FSR: 100 years: +40 %: 15 mins: Summer	51.570	50.220	50.767	0.547	6.1	0.619	0.000	4.3	2.044	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	51.570	50.220	50.883	0.663	4.9	0.749	0.000	3.9	2.293	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	51.570	50.220	50.767	0.547	4.2	0.619	0.000	3.7	2.663	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	51.570	50.220	50.827	0.607	3.8	0.686	0.000	3.5	2.967	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	51.570	50.220	50.628	0.408	3.1	0.461	0.000	3.0	3.259	Surcharged
FSR: 100 years: +40 %: 60 mins: Winter	51.570	50.220	50.598	0.378	2.5	0.427	0.000	2.4	3.636	Surcharged
FSR: 100 years: +40 %: 120 mins: Summer	51.570	50.220	50.282	0.062	2.0	0.071	0.000	2.0	3.868	OK
FSR: 100 years: +40 %: 120 mins: Winter	51.570	50.220	50.244	0.024	1.5	0.027	0.000	1.5	4.337	OK
FSR: 100 years: +40 %: 180 mins: Summer	51.570	50.220	50.244	0.024	1.5	0.027	0.000	1.5	4.232	OK
FSR: 100 years: +40 %: 180 mins: Winter	51.570	50.220	50.241	0.021	1.1	0.024	0.000	1.1	4.747	OK
FSR: 100 years: +40 %: 240 mins: Summer	51.570	50.220	50.242	0.022	1.2	0.025	0.000	1.2	4.482	OK
FSR: 100 years: +40 %: 240 mins: Winter	51.570	50.220	50.239	0.019	0.9	0.021	0.000	0.9	5.034	OK
FSR: 100 years: +40 %: 360 mins: Summer	51.570	50.220	50.239	0.019	0.9	0.021	0.000	0.9	4.864	OK
FSR: 100 years: +40 %: 360 mins: Winter	51.570	50.220	50.236	0.016	0.6	0.018	0.000	0.6	5.441	OK
FSR: 100 years: +40 %: 480 mins: Summer	51.570	50.220	50.237	0.017	0.7	0.019	0.000	0.7	5.143	OK
FSR: 100 years: +40 %: 480 mins: Winter	51.570	50.220	50.235	0.015	0.5	0.017	0.000	0.5	5.763	OK
FSR: 100 years: +40 %: 600 mins: Summer	51.570	50.220	50.236	0.016	0.6	0.018	0.000	0.6	5.374	OK
FSR: 100 years: +40 %: 600 mins: Winter	51.570	50.220	50.233	0.013	0.4	0.015	0.000	0.4	5.996	OK
FSR: 100 years: +40 %: 720 mins: Summer	51.570	50.220	50.235	0.015	0.5	0.016	0.000	0.5	5.568	OK

Project:			Date: 09/03/2022 Designed by: towns			Checked by: Approved By:			
Report Details: Type: Junctions Summary Storm Phase: Phase									
FSR: 100 years: +40 %: 720 mins: Winter	51.57 0	50.22 0	50.232	0.012	0.4	0.014	0.000	0.4	6.196 OK
FSR: 100 years: +40 %: 960 mins: Summer	51.57 0	50.22 0	50.233	0.013	0.4	0.015	0.000	0.4	5.859 OK
FSR: 100 years: +40 %: 960 mins: Winter	51.57 0	50.22 0	50.231	0.011	0.3	0.013	0.000	0.3	6.562 OK
FSR: 100 years: +40 %: 1440 mins: Summer	51.57 0	50.22 0	50.231	0.011	0.3	0.013	0.000	0.3	6.327 OK
FSR: 100 years: +40 %: 1440 mins: Winter	51.57 0	50.22 0	50.230	0.010	0.2	0.011	0.000	0.2	7.136 OK
FSR: 100 years: +40 %: 2160 mins: Summer	51.57 0	50.22 0	50.230	0.010	0.2	0.011	0.000	0.2	6.840 OK
FSR: 100 years: +40 %: 2160 mins: Winter	51.57 0	50.22 0	50.228	0.008	0.2	0.009	0.000	0.2	7.741 OK
FSR: 100 years: +40 %: 2880 mins: Summer	51.57 0	50.22 0	50.229	0.009	0.2	0.010	0.000	0.2	7.122 OK
FSR: 100 years: +40 %: 2880 mins: Winter	51.57 0	50.22 0	50.227	0.007	0.1	0.008	0.000	0.1	7.956 OK
FSR: 100 years: +40 %: 4320 mins: Summer	51.57 0	50.22 0	50.227	0.007	0.1	0.008	0.000	0.1	7.662 OK
FSR: 100 years: +40 %: 4320 mins: Winter	51.57 0	50.22 0	50.226	0.006	0.1	0.007	0.000	0.1	8.442 OK
FSR: 100 years: +40 %: 5760 mins: Summer	51.57 0	50.22 0	50.227	0.007	0.1	0.007	0.000	0.1	8.088 OK
FSR: 100 years: +40 %: 5760 mins: Winter	51.57 0	50.22 0	50.226	0.006	0.1	0.007	0.000	0.1	8.849 OK
FSR: 100 years: +40 %: 7200 mins: Summer	51.57 0	50.22 0	50.226	0.006	0.1	0.007	0.000	0.1	8.809 OK
FSR: 100 years: +40 %: 7200 mins: Winter	51.57 0	50.22 0	50.225	0.005	0.0	0.006	0.000	0.0	9.246 OK
FSR: 100 years: +40 %: 8640 mins: Summer	51.57 0	50.22 0	50.226	0.006	0.1	0.007	0.000	0.1	9.532 OK
FSR: 100 years: +40 %: 8640 mins: Winter	51.57 0	50.22 0	50.225	0.005	0.0	0.006	0.000	0.0	10.050 OK
FSR: 100 years: +40 %: 10080 mins: Summer	51.57 0	50.22 0	50.226	0.006	0.1	0.006	0.000	0.1	9.443 OK
FSR: 100 years: +40 %: 10080 mins: Winter	51.57 0	50.22 0	50.224	0.004	0.0	0.005	0.000	0.0	10.401 OK

Project:		Date: 09/03/2022	Designed by: towns			Checked by: Approved By:	
		Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:				



MH6.2

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
FSR: 100 years: +40 %: 15 mins: Summer	51.220	49.795	50.764	0.969	12.7	1.096	0.000	6.7	5.938	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	51.220	49.795	50.880	1.085	12.6	1.227	0.000	7.3	6.649	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	51.220	49.795	50.765	0.970	10.8	1.097	0.000	6.1	7.686	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	51.220	49.795	50.824	1.029	10.2	1.164	0.000	6.5	8.595	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	51.220	49.795	50.625	0.830	8.7	0.939	0.000	5.5	9.402	Surcharged
FSR: 100 years: +40 %: 60 mins: Winter	51.220	49.795	50.596	0.801	7.0	0.905	0.000	5.2	10.379	Surcharged
FSR: 100 years: +40 %: 120 mins: Summer	51.220	49.795	50.281	0.486	5.8	0.549	0.000	4.5	11.111	Surcharged
FSR: 100 years: +40 %: 120 mins: Winter	51.220	49.795	50.178	0.383	4.4	0.433	0.000	3.9	12.237	Surcharged
FSR: 100 years: +40 %: 180 mins: Summer	51.220	49.795	50.064	0.269	4.4	0.305	0.000	3.9	12.155	Surcharged
FSR: 100 years: +40 %: 180 mins: Winter	51.220	49.795	50.135	0.340	3.2	0.384	0.000	3.1	13.407	Surcharged
FSR: 100 years: +40 %: 240 mins: Summer	51.220	49.795	50.026	0.231	3.5	0.261	0.000	3.3	12.920	Surcharged
FSR: 100 years: +40 %: 240 mins: Winter	51.220	49.795	50.158	0.363	2.5	0.411	0.000	2.5	14.283	Surcharged
FSR: 100 years: +40 %: 360 mins: Summer	51.220	49.795	50.028	0.233	2.5	0.263	0.000	2.5	14.033	Surcharged
FSR: 100 years: +40 %: 360 mins: Winter	51.220	49.795	50.172	0.377	1.8	0.426	0.000	1.8	15.636	Surcharged
FSR: 100 years: +40 %: 480 mins: Summer	51.220	49.795	50.009	0.214	2.0	0.242	0.000	2.0	14.833	Surcharged
FSR: 100 years: +40 %: 480 mins: Winter	51.220	49.795	50.162	0.367	1.5	0.415	0.000	1.5	16.632	Surcharged
FSR: 100 years: +40 %: 600 mins: Summer	51.220	49.795	49.987	0.192	1.7	0.217	0.000	1.7	15.496	Surcharged
FSR: 100 years: +40 %: 600 mins: Winter	51.220	49.795	50.140	0.345	1.2	0.390	0.000	1.2	17.333	Surcharged
FSR: 100 years: +40 %: 720 mins: Summer	51.220	49.795	49.963	0.168	1.4	0.190	0.000	1.4	16.041	Surcharged

Project:			Date: 09/03/2022			Designed by: towns			Checked by: Approved By:			
Report Details: Type: Junctions Summary Storm Phase: Phase						Company Address:						
FSR: 100 years: +40 %: 720 mins: Winter	51.22 0	49.79 5	50.111	0.316	1.0	0.357	0.000	1.1	17.925	Surcharge d		
FSR: 100 years: +40 %: 960 mins: Summer	51.22 0	49.79 5	49.919	0.124	1.1	0.141	0.000	1.2	16.916	Surcharge d		
FSR: 100 years: +40 %: 960 mins: Winter	51.22 0	49.79 5	50.062	0.267	0.8	0.302	0.000	0.8	18.963	Surcharge d		
FSR: 100 years: +40 %: 1440 mins: Summer	51.22 0	49.79 5	49.851	0.056	0.8	0.063	0.000	0.8	18.253	OK		
FSR: 100 years: +40 %: 1440 mins: Winter	51.22 0	49.79 5	49.963	0.168	0.6	0.189	0.000	0.6	20.512	Surcharge d		
FSR: 100 years: +40 %: 2160 mins: Summer	51.22 0	49.79 5	49.809	0.014	0.6	0.016	0.000	0.6	19.663	OK		
FSR: 100 years: +40 %: 2160 mins: Winter	51.22 0	49.79 5	49.840	0.045	0.4	0.051	0.000	0.4	22.104	OK		
FSR: 100 years: +40 %: 2880 mins: Summer	51.22 0	49.79 5	49.807	0.012	0.5	0.014	0.000	0.5	20.754	OK		
FSR: 100 years: +40 %: 2880 mins: Winter	51.22 0	49.79 5	49.806	0.011	0.3	0.012	0.000	0.3	23.063	OK		
FSR: 100 years: +40 %: 4320 mins: Summer	51.22 0	49.79 5	49.806	0.011	0.3	0.012	0.000	0.3	22.124	OK		
FSR: 100 years: +40 %: 4320 mins: Winter	51.22 0	49.79 5	49.804	0.009	0.2	0.010	0.000	0.2	24.817	OK		
FSR: 100 years: +40 %: 5760 mins: Summer	51.22 0	49.79 5	49.804	0.009	0.3	0.011	0.000	0.3	23.240	OK		
FSR: 100 years: +40 %: 5760 mins: Winter	51.22 0	49.79 5	49.803	0.008	0.2	0.009	0.000	0.2	25.646	OK		
FSR: 100 years: +40 %: 7200 mins: Summer	51.22 0	49.79 5	49.804	0.009	0.2	0.010	0.000	0.2	24.280	OK		
FSR: 100 years: +40 %: 7200 mins: Winter	51.22 0	49.79 5	49.802	0.007	0.2	0.008	0.000	0.2	26.964	OK		
FSR: 100 years: +40 %: 8640 mins: Summer	51.22 0	49.79 5	49.803	0.008	0.2	0.009	0.000	0.2	25.502	OK		
FSR: 100 years: +40 %: 8640 mins: Winter	51.22 0	49.79 5	49.802	0.007	0.1	0.008	0.000	0.1	28.812	OK		
FSR: 100 years: +40 %: 10080 mins: Summer	51.22 0	49.79 5	49.803	0.008	0.2	0.009	0.000	0.2	26.014	OK		
FSR: 100 years: +40 %: 10080 mins: Winter	51.22 0	49.79 5	49.802	0.007	0.1	0.007	0.000	0.1	28.780	OK		

Project:			Date: 09/03/2022	Designed by: towns			Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase			Company Address:					



SUM
MH5

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
FSR: 100 years: +40 %: 15 mins: Summer	52.100	49.740	51.139	1.398	25.9	1.582	0.000	21.9	17.326	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	52.100	49.740	51.257	1.517	26.4	1.716	0.000	22.0	19.484	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	52.100	49.740	51.116	1.376	24.3	1.556	0.000	21.2	22.301	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	52.100	49.740	51.159	1.418	23.3	1.604	0.000	20.5	24.865	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	52.100	49.740	50.927	1.187	21.4	1.342	0.000	19.0	27.059	Surcharged
FSR: 100 years: +40 %: 60 mins: Winter	52.100	49.740	50.856	1.116	19.0	1.262	0.000	17.7	29.987	Surcharged
FSR: 100 years: +40 %: 120 mins: Summer	52.100	49.740	50.470	0.730	15.2	0.825	0.000	13.9	32.066	Surcharged
FSR: 100 years: +40 %: 120 mins: Winter	52.100	49.740	50.297	0.557	12.0	0.630	0.000	11.4	35.577	Surcharged
FSR: 100 years: +40 %: 180 mins: Summer	52.100	49.740	50.181	0.441	11.7	0.499	0.000	11.1	35.119	Surcharged
FSR: 100 years: +40 %: 180 mins: Winter	52.100	49.740	50.136	0.396	8.9	0.448	0.000	8.5	38.932	Surcharged
FSR: 100 years: +40 %: 240 mins: Summer	52.100	49.740	50.027	0.287	9.4	0.324	0.000	9.0	37.308	Surcharged
FSR: 100 years: +40 %: 240 mins: Winter	52.100	49.740	50.159	0.419	7.4	0.474	0.000	7.8	41.375	Surcharged
FSR: 100 years: +40 %: 360 mins: Summer	52.100	49.740	50.029	0.288	7.4	0.326	0.000	7.1	40.643	Surcharged
FSR: 100 years: +40 %: 360 mins: Winter	52.100	49.740	50.173	0.432	5.3	0.489	0.000	5.5	45.247	Surcharged
FSR: 100 years: +40 %: 480 mins: Summer	52.100	49.740	50.010	0.269	5.9	0.305	0.000	6.1	42.989	Surcharged
FSR: 100 years: +40 %: 480 mins: Winter	52.100	49.740	50.163	0.422	4.2	0.478	0.000	4.4	48.137	Surcharged
FSR: 100 years: +40 %: 600 mins: Summer	52.100	49.740	49.988	0.247	4.9	0.280	0.000	4.9	44.890	Surcharged
FSR: 100 years: +40 %: 600 mins: Winter	52.100	49.740	50.141	0.400	3.5	0.453	0.000	3.7	50.293	Surcharged
FSR: 100 years: +40 %: 720 mins: Summer	52.100	49.740	49.964	0.224	4.2	0.253	0.000	4.2	46.451	Surcharged

Project:			Date: 09/03/2022			Designed by: towns			Checked by: Approved By:			
Report Details: Type: Junctions Summary Storm Phase: Phase						Company Address:						
FSR: 100 years: +40 %: 720 mins: Winter	52.10 0	49.74 0	50.112	0.371	3.1	0.420	0.000	3.2	52.049	Surcharge d		
FSR: 100 years: +40 %: 960 mins: Summer	52.10 0	49.74 0	49.920	0.180	3.3	0.203	0.000	3.3	49.052	Surcharge d		
FSR: 100 years: +40 %: 960 mins: Winter	52.10 0	49.74 0	50.063	0.322	2.4	0.365	0.000	2.4	54.956	Surcharge d		
FSR: 100 years: +40 %: 1440 mins: Summer	52.10 0	49.74 0	49.851	0.111	2.4	0.125	0.000	2.4	52.760	Surcharge d		
FSR: 100 years: +40 %: 1440 mins: Winter	52.10 0	49.74 0	49.963	0.223	1.7	0.252	0.000	1.7	59.103	Surcharge d		
FSR: 100 years: +40 %: 2160 mins: Summer	52.10 0	49.74 0	49.767	0.027	1.7	0.030	0.000	1.7	56.689	OK		
FSR: 100 years: +40 %: 2160 mins: Winter	52.10 0	49.74 0	49.841	0.100	1.2	0.114	0.000	1.2	63.574	Surcharge d		
FSR: 100 years: +40 %: 2880 mins: Summer	52.10 0	49.74 0	49.764	0.024	1.4	0.027	0.000	1.4	59.785	OK		
FSR: 100 years: +40 %: 2880 mins: Winter	52.10 0	49.74 0	49.761	0.020	1.0	0.023	0.000	1.0	67.183	OK		
FSR: 100 years: +40 %: 4320 mins: Summer	52.10 0	49.74 0	49.760	0.020	1.0	0.023	0.000	1.0	64.117	OK		
FSR: 100 years: +40 %: 4320 mins: Winter	52.10 0	49.74 0	49.757	0.017	0.7	0.019	0.000	0.7	71.895	OK		
FSR: 100 years: +40 %: 5760 mins: Summer	52.10 0	49.74 0	49.758	0.018	0.8	0.020	0.000	0.8	67.609	OK		
FSR: 100 years: +40 %: 5760 mins: Winter	52.10 0	49.74 0	49.756	0.015	0.6	0.017	0.000	0.6	75.749	OK		
FSR: 100 years: +40 %: 7200 mins: Summer	52.10 0	49.74 0	49.757	0.016	0.6	0.018	0.000	0.6	69.830	OK		
FSR: 100 years: +40 %: 7200 mins: Winter	52.10 0	49.74 0	49.754	0.014	0.5	0.016	0.000	0.5	78.607	OK		
FSR: 100 years: +40 %: 8640 mins: Summer	52.10 0	49.74 0	49.755	0.015	0.5	0.017	0.000	0.5	71.027	OK		
FSR: 100 years: +40 %: 8640 mins: Winter	52.10 0	49.74 0	49.753	0.013	0.4	0.014	0.000	0.4	81.167	OK		
FSR: 100 years: +40 %: 10080 mins: Summer	52.10 0	49.74 0	49.755	0.014	0.5	0.016	0.000	0.5	72.829	OK		
FSR: 100 years: +40 %: 10080 mins: Winter	52.10 0	49.74 0	49.752	0.012	0.3	0.013	0.000	0.3	82.621	OK		

Project:		Date: 09/03/2022 Designed by: towns		Checked by: Approved By:		
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:				



MH5.2

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
FSR: 100 years: +40 %: 15 mins: Summer	51.400	49.850	51.176	1.326	9.2	1.500	0.000	5.1	4.269	Flood Risk
FSR: 100 years: +40 %: 15 mins: Winter	51.400	49.850	51.292	1.442	9.7	1.631	0.000	5.6	4.862	Flood Risk
FSR: 100 years: +40 %: 30 mins: Summer	51.400	49.850	51.153	1.303	8.2	1.473	0.000	5.0	5.392	Flood Risk
FSR: 100 years: +40 %: 30 mins: Winter	51.400	49.850	51.194	1.344	7.4	1.520	0.000	4.7	6.057	Flood Risk
FSR: 100 years: +40 %: 60 mins: Summer	51.400	49.850	50.964	1.114	6.0	1.260	0.000	4.5	6.411	Surcharge d
FSR: 100 years: +40 %: 60 mins: Winter	51.400	49.850	50.890	1.040	4.9	1.176	0.000	4.0	7.049	Surcharge d
FSR: 100 years: +40 %: 120 mins: Summer	51.400	49.850	50.496	0.646	3.9	0.731	0.000	3.2	7.587	Surcharge d
FSR: 100 years: +40 %: 120 mins: Winter	51.400	49.850	50.314	0.464	3.0	0.525	0.000	2.5	8.284	Surcharge d
FSR: 100 years: +40 %: 180 mins: Summer	51.400	49.850	50.198	0.348	3.0	0.393	0.000	2.4	8.316	Surcharge d
FSR: 100 years: +40 %: 180 mins: Winter	51.400	49.850	50.136	0.286	2.2	0.323	0.000	2.1	9.062	Surcharge d
FSR: 100 years: +40 %: 240 mins: Summer	51.400	49.850	50.036	0.186	2.4	0.210	0.000	2.2	8.813	Surcharge d
FSR: 100 years: +40 %: 240 mins: Winter	51.400	49.850	50.159	0.309	1.7	0.349	0.000	1.7	9.680	Surcharge d
FSR: 100 years: +40 %: 360 mins: Summer	51.400	49.850	50.028	0.178	1.7	0.202	0.000	1.7	9.549	Surcharge d
FSR: 100 years: +40 %: 360 mins: Winter	51.400	49.850	50.172	0.322	1.3	0.365	0.000	1.3	10.688	Surcharge d
FSR: 100 years: +40 %: 480 mins: Summer	51.400	49.850	50.010	0.160	1.4	0.180	0.000	1.4	10.101	Surcharge d
FSR: 100 years: +40 %: 480 mins: Winter	51.400	49.850	50.162	0.312	1.0	0.353	0.000	1.0	11.303	Surcharge d
FSR: 100 years: +40 %: 600 mins: Summer	51.400	49.850	49.987	0.137	1.1	0.155	0.000	1.2	10.554	Surcharge d
FSR: 100 years: +40 %: 600 mins: Winter	51.400	49.850	50.140	0.290	0.8	0.328	0.000	0.8	11.824	Surcharge d
FSR: 100 years: +40 %: 720 mins: Summer	51.400	49.850	49.964	0.114	1.0	0.129	0.000	1.0	10.908	Surcharge d

Project:			Date: 09/03/2022 Designed by: towns			Checked by: Approved By:				
Report Details: Type: Junctions Summary Storm Phase: Phase						Company Address:				
FSR: 100 years: +40 %: 720 mins: Winter	51.40 0	49.85 0	50.111	0.261	0.7	0.296	0.000	0.7	12.249	Surcharge d
FSR: 100 years: +40 %: 960 mins: Summer	51.40 0	49.85 0	49.920	0.070	0.8	0.079	0.000	0.8	11.534	OK
FSR: 100 years: +40 %: 960 mins: Winter	51.40 0	49.85 0	50.062	0.212	0.6	0.240	0.000	0.6	12.906	Surcharge d
FSR: 100 years: +40 %: 1440 mins: Summer	51.40 0	49.85 0	49.870	0.020	0.6	0.022	0.000	0.6	12.385	OK
FSR: 100 years: +40 %: 1440 mins: Winter	51.40 0	49.85 0	49.963	0.113	0.4	0.128	0.000	0.4	13.851	Surcharge d
FSR: 100 years: +40 %: 2160 mins: Summer	51.40 0	49.85 0	49.867	0.017	0.4	0.019	0.000	0.4	13.379	OK
FSR: 100 years: +40 %: 2160 mins: Winter	51.40 0	49.85 0	49.864	0.014	0.3	0.016	0.000	0.3	14.927	OK
FSR: 100 years: +40 %: 2880 mins: Summer	51.40 0	49.85 0	49.865	0.015	0.3	0.017	0.000	0.3	14.069	OK
FSR: 100 years: +40 %: 2880 mins: Winter	51.40 0	49.85 0	49.863	0.013	0.2	0.015	0.000	0.2	15.666	OK
FSR: 100 years: +40 %: 4320 mins: Summer	51.40 0	49.85 0	49.863	0.013	0.2	0.015	0.000	0.2	15.077	OK
FSR: 100 years: +40 %: 4320 mins: Winter	51.40 0	49.85 0	49.861	0.011	0.2	0.012	0.000	0.2	16.899	OK
FSR: 100 years: +40 %: 5760 mins: Summer	51.40 0	49.85 0	49.861	0.011	0.2	0.013	0.000	0.2	16.167	OK
FSR: 100 years: +40 %: 5760 mins: Winter	51.40 0	49.85 0	49.860	0.010	0.1	0.011	0.000	0.1	17.746	OK
FSR: 100 years: +40 %: 7200 mins: Summer	51.40 0	49.85 0	49.861	0.011	0.2	0.012	0.000	0.2	16.161	OK
FSR: 100 years: +40 %: 7200 mins: Winter	51.40 0	49.85 0	49.859	0.009	0.1	0.010	0.000	0.1	18.573	OK
FSR: 100 years: +40 %: 8640 mins: Summer	51.40 0	49.85 0	49.860	0.010	0.1	0.011	0.000	0.1	16.786	OK
FSR: 100 years: +40 %: 8640 mins: Winter	51.40 0	49.85 0	49.858	0.008	0.1	0.009	0.000	0.1	19.387	OK
FSR: 100 years: +40 %: 10080 mins: Summer	51.40 0	49.85 0	49.859	0.009	0.1	0.010	0.000	0.1	17.058	OK
FSR: 100 years: +40 %: 10080 mins: Winter	51.40 0	49.85 0	49.858	0.008	0.1	0.009	0.000	0.1	18.876	OK

Project:		Date:	09/03/2022			Designed by: towns			Approved By:		
		Report Details:				Company Address:					

SUM MH4

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
FSR: 100 years: +40 %: 15 mins: Summer	52.280	50.980	51.508	0.528	19.1	0.597	0.000	16.3	9.732	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	52.280	50.980	51.617	0.637	19.5	0.720	0.000	16.0	10.997	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	52.280	50.980	51.447	0.467	18.4	0.528	0.000	16.3	12.415	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	52.280	50.980	51.455	0.475	16.9	0.538	0.000	15.2	13.897	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	52.280	50.980	51.182	0.202	14.3	0.228	0.000	14.0	15.141	Surcharged
FSR: 100 years: +40 %: 60 mins: Winter	52.280	50.980	51.031	0.051	11.5	0.058	0.000	11.5	16.944	OK
FSR: 100 years: +40 %: 120 mins: Summer	52.280	50.980	51.023	0.043	9.3	0.049	0.000	9.3	18.015	OK
FSR: 100 years: +40 %: 120 mins: Winter	52.280	50.980	51.017	0.037	7.0	0.042	0.000	7.0	20.173	OK
FSR: 100 years: +40 %: 180 mins: Summer	52.280	50.980	51.017	0.037	7.0	0.041	0.000	7.0	19.686	OK
FSR: 100 years: +40 %: 180 mins: Winter	52.280	50.980	51.011	0.031	5.1	0.035	0.000	5.1	22.053	OK
FSR: 100 years: +40 %: 240 mins: Summer	52.280	50.980	51.012	0.032	5.6	0.037	0.000	5.6	20.855	OK
FSR: 100 years: +40 %: 240 mins: Winter	52.280	50.980	51.008	0.028	4.1	0.032	0.000	4.1	23.353	OK
FSR: 100 years: +40 %: 360 mins: Summer	52.280	50.980	51.008	0.028	4.1	0.032	0.000	4.1	22.584	OK
FSR: 100 years: +40 %: 360 mins: Winter	52.280	50.980	51.004	0.024	3.0	0.027	0.000	3.0	25.308	OK
FSR: 100 years: +40 %: 480 mins: Summer	52.280	50.980	51.005	0.025	3.3	0.028	0.000	3.3	23.884	OK
FSR: 100 years: +40 %: 480 mins: Winter	52.280	50.980	51.001	0.021	2.3	0.024	0.000	2.4	26.739	OK
FSR: 100 years: +40 %: 600 mins: Summer	52.280	50.980	51.003	0.023	2.7	0.026	0.000	2.7	24.940	OK
FSR: 100 years: +40 %: 600 mins: Winter	52.280	50.980	50.999	0.019	2.0	0.022	0.000	2.0	27.939	OK
FSR: 100 years: +40 %: 720 mins: Summer	52.280	50.980	51.001	0.021	2.3	0.024	0.000	2.3	25.821	OK

Project:			Date: 09/03/2022 Designed by: towns			Checked by: Approved By:				
Report Details: Type: Junctions Summary Storm Phase: Phase						Company Address:				
FSR: 100 years: +40 %: 720 mins: Winter	52.28 0	50.98 0	50.998	0.018	1.7	0.021	0.000	1.7	28.920	OK
FSR: 100 years: +40 %: 960 mins: Summer	52.28 0	50.98 0	50.999	0.019	1.9	0.021	0.000	1.9	27.249	OK
FSR: 100 years: +40 %: 960 mins: Winter	52.28 0	50.98 0	50.996	0.016	1.3	0.018	0.000	1.3	30.539	OK
FSR: 100 years: +40 %: 1440 mins: Summer	52.28 0	50.98 0	50.996	0.016	1.3	0.018	0.000	1.3	29.319	OK
FSR: 100 years: +40 %: 1440 mins: Winter	52.28 0	50.98 0	50.994	0.014	1.0	0.016	0.000	1.0	32.892	OK
FSR: 100 years: +40 %: 2160 mins: Summer	52.28 0	50.98 0	50.994	0.014	1.0	0.016	0.000	1.0	31.482	OK
FSR: 100 years: +40 %: 2160 mins: Winter	52.28 0	50.98 0	50.992	0.012	0.7	0.013	0.000	0.7	35.289	OK
FSR: 100 years: +40 %: 2880 mins: Summer	52.28 0	50.98 0	50.992	0.012	0.8	0.014	0.000	0.8	33.144	OK
FSR: 100 years: +40 %: 2880 mins: Winter	52.28 0	50.98 0	50.991	0.011	0.6	0.012	0.000	0.6	37.383	OK
FSR: 100 years: +40 %: 4320 mins: Summer	52.28 0	50.98 0	50.990	0.010	0.5	0.012	0.000	0.5	35.468	OK
FSR: 100 years: +40 %: 4320 mins: Winter	52.28 0	50.98 0	50.989	0.009	0.4	0.010	0.000	0.4	39.756	OK
FSR: 100 years: +40 %: 5760 mins: Summer	52.28 0	50.98 0	50.989	0.009	0.4	0.011	0.000	0.4	37.468	OK
FSR: 100 years: +40 %: 5760 mins: Winter	52.28 0	50.98 0	50.988	0.008	0.3	0.009	0.000	0.3	42.306	OK
FSR: 100 years: +40 %: 7200 mins: Summer	52.28 0	50.98 0	50.989	0.009	0.3	0.010	0.000	0.4	39.402	OK
FSR: 100 years: +40 %: 7200 mins: Winter	52.28 0	50.98 0	50.988	0.008	0.3	0.008	0.000	0.3	43.356	OK
FSR: 100 years: +40 %: 8640 mins: Summer	52.28 0	50.98 0	50.988	0.008	0.3	0.009	0.000	0.3	39.408	OK
FSR: 100 years: +40 %: 8640 mins: Winter	52.28 0	50.98 0	50.987	0.007	0.2	0.008	0.000	0.2	45.294	OK
FSR: 100 years: +40 %: 10080 mins: Summer	52.28 0	50.98 0	50.988	0.008	0.3	0.009	0.000	0.3	40.524	OK
FSR: 100 years: +40 %: 10080 mins: Winter	52.28 0	50.98 0	50.987	0.007	0.2	0.007	0.000	0.2	46.812	OK

Project:		Date: 09/03/2022					
		Designed by: towns				Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:					

SUM MH5.3

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
FSR: 100 years: +40 %: 15 mins: Summer	52.380	51.030	51.143	0.113	2.1	0.128	0.000	1.1	0.174	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	52.380	51.030	51.261	0.231	2.3	0.261	0.000	1.8	0.304	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	52.380	51.030	51.118	0.088	1.5	0.100	0.000	1.1	0.142	OK
FSR: 100 years: +40 %: 30 mins: Winter	52.380	51.030	51.160	0.130	1.6	0.147	0.000	1.3	0.189	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 60 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 120 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 120 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 180 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 180 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 240 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 240 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 360 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 360 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 480 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 480 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 600 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 600 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 720 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK

Project:			Date: 09/03/2022			Designed by: towns			Checked by: Approved By:			
Report Details: Type: Junctions Summary Storm Phase: Phase						Company Address:						
FSR: 100 years: +40 %: 720 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 960 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 960 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 1440 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 1440 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 2160 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 2160 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 2880 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 2880 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 4320 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 4320 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 5760 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 5760 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 7200 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 7200 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 8640 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 8640 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 10080 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	
FSR: 100 years: +40 %: 10080 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.000	0.000 OK	0.0 OK	0.000 OK	0.000 OK	

Project:		Date: 09/03/2022					
		Designed by: towns	Checked by:	Approved By:			
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:					

SUM MH5.1

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
FSR: 100 years: +40 %: 15 mins: Summer	52.380	51.030	51.181	0.151	2.5	0.171	0.000	1.6	0.211	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	52.380	51.030	51.296	0.266	3.0	0.301	0.000	2.2	0.345	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	52.380	51.030	51.154	0.124	1.6	0.140	0.000	1.4	0.182	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	52.380	51.030	51.196	0.166	1.7	0.187	0.000	1.4	0.231	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 60 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 120 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 120 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 180 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 180 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 240 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 240 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 360 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 360 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 480 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 480 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 600 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 600 mins: Winter	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 720 mins: Summer	52.380	51.030	51.030	0.000	0.0	0.000	0.000	0.0	0.000	OK

Project:		Date: 09/03/2022		Designed by: towns		Checked by: Approved By:		
FSR: 100 years: +40 %: 720 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 960 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 960 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 1440 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 1440 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 2160 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 2160 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 2880 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 2880 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 4320 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 4320 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 5760 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 5760 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 7200 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 7200 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 8640 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 8640 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 10080 mins: Summer	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK
FSR: 100 years: +40 %: 10080 mins: Winter	52.38 0	51.03 0	51.030 0	0.000 0	0.0 0.000	0.000 0.000	0.0 0.0	0.000 OK

Project:		Date: 09/03/2022					
		Designed by: towns				Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:					



MH4.1

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
FSR: 100 years: +40 %: 15 mins: Summer	52.750	51.400	51.513	0.113	2.8	0.128	0.000	1.9	0.226	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	52.750	51.400	51.621	0.221	4.0	0.250	0.000	2.9	0.355	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	52.750	51.400	51.451	0.051	1.4	0.058	0.000	1.5	0.109	OK
FSR: 100 years: +40 %: 30 mins: Winter	52.750	51.400	51.458	0.058	1.6	0.065	0.000	1.1	0.124	OK
FSR: 100 years: +40 %: 60 mins: Summer	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 60 mins: Winter	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 120 mins: Summer	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 120 mins: Winter	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 180 mins: Summer	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 180 mins: Winter	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 240 mins: Summer	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 240 mins: Winter	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 360 mins: Summer	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 360 mins: Winter	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 480 mins: Summer	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 480 mins: Winter	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 600 mins: Summer	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 600 mins: Winter	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 720 mins: Summer	52.750	51.400	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK

Project:			Date: 09/03/2022			Designed by: towns			Checked by: Approved By:			
Report Details: Type: Junctions Summary Storm Phase: Phase						Company Address:						
FSR: 100 years: +40 %: 720 mins: Winter	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 960 mins: Summer	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 960 mins: Winter	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 1440 mins: Summer	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 1440 mins: Winter	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 2160 mins: Summer	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 2160 mins: Winter	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 2880 mins: Summer	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 2880 mins: Winter	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 4320 mins: Summer	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 4320 mins: Winter	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 5760 mins: Summer	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 5760 mins: Winter	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 7200 mins: Summer	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 7200 mins: Winter	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 8640 mins: Summer	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 8640 mins: Winter	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 10080 mins: Summer	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		
FSR: 100 years: +40 %: 10080 mins: Winter	52.75 0	51.40 0	51.400	0.000	0.0	0.000	0.000	0.0	0.000	OK		

Project:		Date: 09/03/2022	Designed by: towns			Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:						



MH2

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
FSR: 100 years: +40 %: 15 mins: Summer	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 15 mins: Winter	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 30 mins: Summer	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 30 mins: Winter	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 60 mins: Summer	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 60 mins: Winter	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 120 mins: Summer	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 120 mins: Winter	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 180 mins: Summer	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 180 mins: Winter	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 240 mins: Summer	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 240 mins: Winter	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 360 mins: Summer	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 360 mins: Winter	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 480 mins: Summer	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 480 mins: Winter	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 600 mins: Summer	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 600 mins: Winter	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 720 mins: Summer	53.200	51.850	51.850	0.000	0.0	0.000	0.000	0.0	0.000	OK

Project:		Date: 09/03/2022		Designed by: towns		Checked by: Approved By:		
FSR: 100 years: +40 %: 720 mins: Winter	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 960 mins: Summer	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 960 mins: Winter	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 1440 mins: Summer	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 1440 mins: Winter	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 2160 mins: Summer	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 2160 mins: Winter	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 2880 mins: Summer	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 2880 mins: Winter	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 4320 mins: Summer	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 4320 mins: Winter	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 5760 mins: Summer	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 5760 mins: Winter	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 7200 mins: Summer	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 7200 mins: Winter	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 8640 mins: Summer	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 8640 mins: Winter	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 10080 mins: Summer	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 10080 mins: Winter	53.20 0	51.85 0	51.850	0.000	0.0	0.000	0.000	0.0 0.000 OK

Project:		Date: 09/03/2022		Designed by: towns		Checked by: Approved By:			
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:							



MH6

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
FSR: 100 years: +40 %: 15 mins: Summer	51.600	49.600	50.731	1.131	27.5	1.280	0.000	25.8	23.018	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	51.600	49.600	50.841	1.241	28.3	1.404	0.000	26.6	25.729	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	51.600	49.600	50.735	1.135	26.7	1.283	0.000	25.1	29.647	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	51.600	49.600	50.790	1.190	26.3	1.346	0.000	25.1	32.988	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	51.600	49.600	50.597	0.997	23.5	1.128	0.000	22.6	36.143	Surcharged
FSR: 100 years: +40 %: 60 mins: Winter	51.600	49.600	50.567	0.967	22.1	1.094	0.000	21.4	39.956	Surcharged
FSR: 100 years: +40 %: 120 mins: Summer	51.600	49.600	50.260	0.660	18.4	0.746	0.000	17.6	42.815	Surcharged
FSR: 100 years: +40 %: 120 mins: Winter	51.600	49.600	50.163	0.563	15.0	0.637	0.000	14.6	47.328	Surcharged
FSR: 100 years: +40 %: 180 mins: Summer	51.600	49.600	50.050	0.450	14.3	0.509	0.000	13.9	46.923	Surcharged
FSR: 100 years: +40 %: 180 mins: Winter	51.600	49.600	50.134	0.534	11.5	0.604	0.000	10.9	51.857	Surcharged
FSR: 100 years: +40 %: 240 mins: Summer	51.600	49.600	50.026	0.426	12.0	0.482	0.000	11.6	49.918	Surcharged
FSR: 100 years: +40 %: 240 mins: Winter	51.600	49.600	50.158	0.558	10.3	0.631	0.000	9.3	55.211	Surcharged
FSR: 100 years: +40 %: 360 mins: Summer	51.600	49.600	50.028	0.428	9.6	0.484	0.000	9.4	54.490	Surcharged
FSR: 100 years: +40 %: 360 mins: Winter	51.600	49.600	50.172	0.572	7.4	0.647	0.000	7.1	60.541	Surcharged
FSR: 100 years: +40 %: 480 mins: Summer	51.600	49.600	50.009	0.409	8.1	0.463	0.000	7.8	57.818	Surcharged
FSR: 100 years: +40 %: 480 mins: Winter	51.600	49.600	50.162	0.562	5.9	0.635	0.000	5.6	64.563	Surcharged
FSR: 100 years: +40 %: 600 mins: Summer	51.600	49.600	49.987	0.387	6.6	0.438	0.000	6.6	60.385	Surcharged
FSR: 100 years: +40 %: 600 mins: Winter	51.600	49.600	50.140	0.540	4.9	0.611	0.000	4.7	67.612	Surcharged
FSR: 100 years: +40 %: 720 mins: Summer	51.600	49.600	49.963	0.363	5.7	0.411	0.000	5.7	62.491	Surcharged

Project:			Date: 09/03/2022 Designed by: towns			Checked by: Approved By:				
Report Details: Type: Junctions Summary Storm Phase: Phase						Company Address:				
FSR: 100 years: +40 %: 720 mins: Winter	51.60 0	49.60 0	50.111	0.511	4.2	0.578	0.000	4.0	69.972	Surcharge d
FSR: 100 years: +40 %: 960 mins: Summer	51.60 0	49.60 0	49.919	0.319	4.5	0.361	0.000	4.5	65.965	Surcharge d
FSR: 100 years: +40 %: 960 mins: Winter	51.60 0	49.60 0	50.062	0.462	3.3	0.522	0.000	3.2	73.917	Surcharge d
FSR: 100 years: +40 %: 1440 mins: Summer	51.60 0	49.60 0	49.851	0.251	3.2	0.283	0.000	3.2	71.011	Surcharge d
FSR: 100 years: +40 %: 1440 mins: Winter	51.60 0	49.60 0	49.962	0.362	2.3	0.410	0.000	2.3	79.613	Surcharge d
FSR: 100 years: +40 %: 2160 mins: Summer	51.60 0	49.60 0	49.762	0.162	2.3	0.183	0.000	2.3	76.350	Surcharge d
FSR: 100 years: +40 %: 2160 mins: Winter	51.60 0	49.60 0	49.840	0.240	1.7	0.272	0.000	1.7	85.677	Surcharge d
FSR: 100 years: +40 %: 2880 mins: Summer	51.60 0	49.60 0	49.678	0.078	1.8	0.089	0.000	1.8	80.538	OK
FSR: 100 years: +40 %: 2880 mins: Winter	51.60 0	49.60 0	49.724	0.124	1.3	0.141	0.000	1.3	90.244	Surcharge d
FSR: 100 years: +40 %: 4320 mins: Summer	51.60 0	49.60 0	49.618	0.018	1.3	0.021	0.000	1.3	86.236	OK
FSR: 100 years: +40 %: 4320 mins: Winter	51.60 0	49.60 0	49.616	0.016	0.9	0.018	0.000	0.9	96.707	OK
FSR: 100 years: +40 %: 5760 mins: Summer	51.60 0	49.60 0	49.616	0.016	1.0	0.019	0.000	1.0	90.844	OK
FSR: 100 years: +40 %: 5760 mins: Winter	51.60 0	49.60 0	49.615	0.015	0.8	0.017	0.000	0.8	101.390	OK
FSR: 100 years: +40 %: 7200 mins: Summer	51.60 0	49.60 0	49.615	0.015	0.9	0.017	0.000	0.9	94.105	OK
FSR: 100 years: +40 %: 7200 mins: Winter	51.60 0	49.60 0	49.615	0.015	0.6	0.017	0.000	0.6	105.567	OK
FSR: 100 years: +40 %: 8640 mins: Summer	51.60 0	49.60 0	49.615	0.015	0.7	0.017	0.000	0.7	96.524	OK
FSR: 100 years: +40 %: 8640 mins: Winter	51.60 0	49.60 0	49.615	0.015	0.5	0.017	0.000	0.5	109.975	OK
FSR: 100 years: +40 %: 10080 mins: Summer	51.60 0	49.60 0	49.615	0.015	0.6	0.017	0.000	0.7	98.839	OK
FSR: 100 years: +40 %: 10080 mins: Winter	51.60 0	49.60 0	49.615	0.015	0.5	0.017	0.000	0.5	111.396	OK

Project:		Date: 09/03/2022	Designed by: towns			Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:						



MH1

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
FSR: 100 years: +40 %: 15 mins: Summer	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 15 mins: Winter	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 30 mins: Summer	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 30 mins: Winter	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 60 mins: Summer	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 60 mins: Winter	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 120 mins: Summer	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 120 mins: Winter	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 180 mins: Summer	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 180 mins: Winter	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 240 mins: Summer	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 240 mins: Winter	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 360 mins: Summer	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 360 mins: Winter	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 480 mins: Summer	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 480 mins: Winter	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 600 mins: Summer	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 600 mins: Winter	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +40 %: 720 mins: Summer	53.690	52.340	52.340	0.000	0.0	0.000	0.000	0.0	0.000	OK

Project:		Date: 09/03/2022		Designed by: towns		Checked by: Approved By:		
FSR: 100 years: +40 %: 720 mins: Winter	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 960 mins: Summer	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 960 mins: Winter	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 1440 mins: Summer	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 1440 mins: Winter	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 2160 mins: Summer	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 2160 mins: Winter	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 2880 mins: Summer	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 2880 mins: Winter	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 4320 mins: Summer	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 4320 mins: Winter	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 5760 mins: Summer	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 5760 mins: Winter	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 7200 mins: Summer	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 7200 mins: Winter	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 8640 mins: Summer	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 8640 mins: Winter	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 10080 mins: Summer	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK
FSR: 100 years: +40 %: 10080 mins: Winter	53.69 0	52.34 0	52.340	0.000	0.0	0.000	0.000	0.0 0.000 OK

Project:				Date: 09/03/2022							
				Designed by: towns		Checked by:		Approved By:			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase				Company Address:							



Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resid. nt Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentag e Available (%)	Status
FSR: 100 years: +40 %: 15 mins: Summer	49.573	49.573	0.553	0.553	25.8	22.281	0.000	0.880	0.0	0.000	58	OK
FSR: 100 years: +40 %: 15 mins: Winter	49.638	49.638	0.618	0.618	26.6	24.934	0.000	0.889	0.0	0.009	53	OK
FSR: 100 years: +40 %: 30 mins: Summer	49.727	49.727	0.707	0.707	25.1	28.502	0.000	1.933	0.0	0.001	47	OK
FSR: 100 years: +40 %: 30 mins: Winter	49.807	49.807	0.787	0.787	25.1	31.730	0.000	1.967	0.0	0.017	40	OK
FSR: 100 years: +40 %: 60 mins: Summer	49.860	49.860	0.840	0.840	22.6	33.871	0.000	4.135	0.0	0.000	36	OK
FSR: 100 years: +40 %: 60 mins: Winter	49.953	49.953	0.933	0.933	21.4	37.618	0.000	4.231	0.0	0.000	29	OK
FSR: 100 years: +40 %: 120 mins: Summer	49.965	49.965	0.945	0.945	17.6	38.078	0.000	8.627	0.0	0.000	29	OK
FSR: 100 years: +40 %: 120 mins: Winter	50.078	50.078	1.058	1.058	14.6	42.667	0.000	8.876	0.0	0.000	20	OK
FSR: 100 years: +40 %: 180 mins: Summer	50.007	50.007	0.987	0.987	13.9	39.804	0.000	13.110	0.0	0.000	25	OK
FSR: 100 years: +40 %: 180 mins: Winter	50.132	50.132	1.112	1.112	10.9	44.833	0.000	13.524	0.0	0.000	16	OK
FSR: 100 years: +40 %: 240 mins: Summer	50.024	50.024	1.004	1.004	11.6	40.472	0.000	17.527	0.0	0.000	24	OK
FSR: 100 years: +40 %: 240 mins: Winter	50.156	50.156	1.136	1.136	9.3	45.809	0.000	18.112	0.0	0.000	14	OK
FSR: 100 years: +40 %: 360 mins: Summer	50.026	50.026	1.006	1.006	9.4	40.568	0.000	26.128	0.0	0.000	24	OK
FSR: 100 years: +40 %: 360 mins: Winter	50.170	50.170	1.150	1.150	7.1	46.372	0.000	27.073	0.0	0.000	13	OK

Project:				Date: 09/03/2022 Designed by: towns						Checked by: Approved By:							
				Company Address:													
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase																	
FSR: 100 years: +40 %: 480 mins: Summer	50.008	50.008	0.988	0.988	7.8	39.820	0.000	34.350	0.0	0.000	25	OK					
FSR: 100 years: +40 %: 480 mins: Winter	50.160	50.160	1.140	1.140	5.6	45.976	0.000	35.673	0.0	0.000	14	OK					
FSR: 100 years: +40 %: 600 mins: Summer	49.986	49.986	0.966	0.966	6.6	38.926	0.000	42.161	0.0	0.000	27	OK					
FSR: 100 years: +40 %: 600 mins: Winter	50.139	50.139	1.119	1.119	4.7	45.092	0.000	43.865	0.0	0.000	15	OK					
FSR: 100 years: +40 %: 720 mins: Summer	49.962	49.962	0.942	0.942	5.7	37.978	0.000	49.526	0.0	0.000	29	OK					
FSR: 100 years: +40 %: 720 mins: Winter	50.110	50.110	1.090	1.090	4.0	43.926	0.000	51.605	0.0	0.000	18	OK					
FSR: 100 years: +40 %: 960 mins: Summer	49.918	49.918	0.898	0.898	4.5	36.203	0.000	62.888	0.0	0.000	32	OK					
FSR: 100 years: +40 %: 960 mins: Winter	50.061	50.061	1.041	1.041	3.2	41.949	0.000	65.830	0.0	0.000	21	OK					
FSR: 100 years: +40 %: 1440 mins: Summer	49.849	49.849	0.829	0.829	3.2	33.434	0.000	71.011	0.0	0.000	37	OK					
FSR: 100 years: +40 %: 1440 mins: Winter	49.961	49.961	0.941	0.941	2.3	37.943	0.000	79.608	0.0	0.000	29	OK					
FSR: 100 years: +40 %: 2160 mins: Summer	49.761	49.761	0.741	0.741	2.3	29.870	0.000	76.350	0.0	0.000	44	OK					
FSR: 100 years: +40 %: 2160 mins: Winter	49.839	49.839	0.819	0.819	1.7	33.012	0.000	85.677	0.0	0.000	38	OK					
FSR: 100 years: +40 %: 2880 mins: Summer	49.677	49.677	0.657	0.657	1.8	26.496	0.000	80.538	0.0	0.000	50	OK					
FSR: 100 years: +40 %: 2880 mins: Winter	49.723	49.723	0.703	0.703	1.3	28.355	0.000	90.244	0.0	0.000	47	OK					
FSR: 100 years: +40 %: 4320 mins: Summer	49.529	49.529	0.509	0.509	1.3	20.523	0.000	86.235	0.0	0.000	61	OK					
FSR: 100 years: +40 %: 4320 mins: Winter	49.511	49.511	0.491	0.491	0.9	19.783	0.000	96.682	0.0	0.000	63	OK					

Project: Report Details: Type: Stormwater Controls Summary Storm Phase: Phase				Date: 09/03/2022							
				Designed by: townS		Checked by:		Approved By:			
Company Address:											
FSR: 100 years: +40 %: 5760 mins: Summer	49.400	49.400	0.380	0.380	1.0	15.337	0.000	90.842	0.0	0.000	71 OK
FSR: 100 years: +40 %: 5760 mins: Winter	49.341	49.341	0.321	0.321	0.8	12.930	0.000	101.388	0.0	0.000	76 OK
FSR: 100 years: +40 %: 7200 mins: Summer	49.296	49.296	0.276	0.276	0.9	11.134	0.000	94.104	0.0	0.000	79 OK
FSR: 100 years: +40 %: 7200 mins: Winter	49.203	49.203	0.183	0.183	0.6	7.385	0.000	105.564	0.0	0.000	86 OK
FSR: 100 years: +40 %: 8640 mins: Summer	49.219	49.219	0.199	0.199	0.7	8.003	0.000	96.524	0.0	0.000	85 OK
FSR: 100 years: +40 %: 8640 mins: Winter	49.108	49.108	0.088	0.088	0.5	3.542	0.000	109.972	0.0	0.000	93 OK
FSR: 100 years: +40 %: 10080 mins: Summer	49.150	49.150	0.130	0.130	0.7	5.252	0.000	98.838	0.0	0.000	90 OK
FSR: 100 years: +40 %: 10080 mins: Winter	49.037	49.037	0.017	0.017	0.5	0.668	0.000	111.391	0.0	0.000	99 OK

Project:			Date: 09/03/2022								
Report Details: Type: Connections Summary Storm Phase: Phase			Designed by: towns Checked by: Approved By:								
Company Address:											



Pipe (1)

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	Max. US Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.767	0.150	2.013	0.9	0.16	4.3	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.883	0.150	2.261	0.9	0.15	3.9	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.767	0.150	2.631	1.0	0.14	3.7	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.827	0.150	2.941	0.9	0.13	3.5	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.628	0.150	3.244	0.9	0.11	3.0	Surcharged
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.598	0.150	3.636	0.9	0.09	2.4	Surcharged
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.282	0.150	3.868	0.8	0.08	2.0	OK
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.244	0.150	4.337	0.8	0.06	1.5	OK
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.244	0.108	4.232	0.8	0.06	1.5	OK
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.241	0.136	4.747	0.7	0.04	1.1	OK
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.242	0.081	4.482	0.8	0.05	1.2	OK

Project: Report Details: Type: Connections Summary Storm Phase: Phase				Date: 09/03/2022 Designed by: townS Checked by: Approved By:							
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.239	0.147	5.034	0.7	0.03	0.9	OK
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.239	0.082	4.864	0.7	0.03	0.9	OK
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.236	0.150	5.441	0.6	0.02	0.6	OK
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.237	0.072	5.143	0.6	0.03	0.7	OK
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.235	0.149	5.763	0.6	0.02	0.5	OK
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.236	0.061	5.374	0.6	0.02	0.6	OK
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.233	0.138	5.996	0.5	0.02	0.4	OK
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.235	0.049	5.568	0.6	0.02	0.5	OK
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.232	0.123	6.196	0.5	0.01	0.4	OK
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.233	0.027	5.859	0.5	0.02	0.4	OK
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.231	0.099	6.562	0.5	0.01	0.3	OK
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.231	0.011	6.327	0.5	0.01	0.3	OK
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.230	0.049	7.136	0.4	0.01	0.2	OK

Project:				Date: 09/03/2022							
				Designed by: towns		Checked by:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.230	0.010	6.840	0.4	0.01	0.2	OK
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.228	0.008	7.741	0.4	0.01	0.2	OK
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.229	0.008	7.122	0.4	0.01	0.2	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.227	0.007	7.956	0.4	0	0.1	OK
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.227	0.007	7.662	0.4	0	0.1	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.226	0.006	8.442	0.3	0	0.1	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.227	0.006	8.088	0.3	0	0.1	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.226	0.006	8.849	0.3	0	0.1	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.226	0.006	8.809	0.3	0	0.1	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.225	0.005	9.246	0.3	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.226	0.006	9.532	0.3	0	0.1	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.225	0.005	10.050	0.3	0	0.0	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH6.1	MH6.2	51.6	50.226	0.005	9.443	0.3	0	0.1	OK

Project:				Date: 09/03/2022							
				Designed by: towns	Checked by:	Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH6.1	MH6.2	51.6	50.224	0.004	10.401	0.3	0	0.0	OK

Project:			Date: 09/03/2022								
Report Details: Type: Connections Summary Storm Phase: Phase			Designed by: TOWNS Checked by: Approved By:								
Company Address:											

SUM Pipe

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	US Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH3	MH4	52.5	51.663	0.100	4.825	1.3	0.96	8.9	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH3	MH4	52.5	51.760	0.100	5.404	1.4	0.97	9.0	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH3	MH4	52.5	51.586	0.100	6.255	1.4	0.96	8.9	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH3	MH4	52.5	51.575	0.100	7.005	1.4	0.89	8.3	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH3	MH4	52.5	51.273	0.100	7.708	1.3	0.79	7.3	OK
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH3	MH4	52.5	51.262	0.056	8.636	1.3	0.63	5.9	OK
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH3	MH4	52.5	51.254	0.049	9.181	1.2	0.51	4.7	OK
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH3	MH4	52.5	51.246	0.041	10.278	1.2	0.39	3.6	OK
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH3	MH4	52.5	51.246	0.041	10.032	1.2	0.38	3.5	OK
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH3	MH4	52.5	51.239	0.035	11.236	1.1	0.28	2.6	OK
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH3	MH4	52.5	51.240	0.036	10.624	1.1	0.31	2.9	OK

Project: Report Details: Type: Connections Summary Storm Phase: Phase				Date: 09/03/2022 Designed by: townis Checked by: Approved By:							
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH3	MH4	52.5	51.234	0.031	11.904	1.0	0.23	2.1	OK
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH3	MH4	52.5	51.234	0.031	11.509	1.0	0.23	2.1	OK
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH3	MH4	52.5	51.229	0.026	12.894	0.9	0.16	1.5	OK
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH3	MH4	52.5	51.230	0.028	12.173	0.9	0.18	1.7	OK
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH3	MH4	52.5	51.225	0.023	13.627	0.9	0.13	1.2	OK
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH3	MH4	52.5	51.227	0.025	12.701	0.9	0.15	1.4	OK
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH3	MH4	52.5	51.223	0.021	14.247	0.8	0.11	1.0	OK
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH3	MH4	52.5	51.225	0.023	13.152	0.9	0.13	1.2	OK
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH3	MH4	52.5	51.221	0.020	14.718	0.8	0.09	0.9	OK
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH3	MH4	52.5	51.222	0.021	13.873	0.8	0.1	0.9	OK
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH3	MH4	52.5	51.219	0.018	15.538	0.7	0.07	0.7	OK
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH3	MH4	52.5	51.219	0.018	14.967	0.7	0.07	0.7	OK
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH3	MH4	52.5	51.216	0.015	16.791	0.7	0.05	0.5	OK

Project:				Date: 09/03/2022							
				Designed by: townis		Checked by:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH3	MH4	52.5	51.216	0.015	16.032	0.7	0.05	0.5	OK
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH3	MH4	52.5	51.214	0.013	17.907	0.6	0.04	0.4	OK
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH3	MH4	52.5	51.214	0.013	16.872	0.6	0.04	0.4	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH3	MH4	52.5	51.212	0.012	18.978	0.6	0.03	0.3	OK
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH3	MH4	52.5	51.212	0.011	18.192	0.5	0.03	0.3	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH3	MH4	52.5	51.211	0.010	20.317	0.5	0.02	0.2	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH3	MH4	52.5	51.211	0.010	19.077	0.5	0.02	0.2	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH3	MH4	52.5	51.210	0.009	21.501	0.5	0.02	0.2	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH3	MH4	52.5	51.210	0.009	20.212	0.5	0.02	0.2	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH3	MH4	52.5	51.209	0.008	22.188	0.4	0.01	0.1	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH3	MH4	52.5	51.209	0.009	20.117	0.5	0.02	0.2	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH3	MH4	52.5	51.208	0.007	23.109	0.4	0.01	0.1	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH3	MH4	52.5	51.209	0.008	20.569	0.4	0.02	0.1	OK

Project:				Date: 09/03/2022							
Designed by: towns				Checked by:		Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH3	MH4	52.5	51.208	0.007	23.946	0.4	0.01	0.1	OK

Project:			Date: 09/03/2022								
Report Details: Type: Connections Summary Storm Phase: Phase			Designed by: towns Checked by: Approved By:								
Company Address:											

SUM Pipe (6)

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.036	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.031	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.027	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.023	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.023	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.019	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.020	0.000	0.0	0	0.0	OK

Project:			Date: 09/03/2022 Designed by: towns			Checked by: Approved By:					
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.017	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.017	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.014	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.015	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.013	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.014	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.012	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.013	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.011	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.011	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.010	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.010	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.008	0.000	0.0	0	0.0	OK

Project:			Date: 09/03/2022					
			Designed by: towns	Checked by:	Approved By:			
Report Details: Type: Connections Summary Storm Phase: Phase			Company Address:					

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.008	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.007	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.007	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH2	MH3	53.2	51.850	0.005	0.000	0.0	0	0.0	OK

Project:				Date: 09/03/2022							
				Designed by: towns	Checked by:	Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH2	MH3	53.2	51.850	0.004	0.000	0.0	0	0.0	OK

Project:			Date: 09/03/2022								
Report Details: Type: Connections Summary Storm Phase: Phase			Designed by: TOWNS Checked by: Approved By:								
Company Address:											

SUM Pipe (7)

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH4.1	MH4	52.8	51.513	0.100	0.000	0.1	0.12	1.0	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH4.1	MH4	52.8	51.621	0.100	0.001	0.2	0.18	1.4	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH4.1	MH4	52.8	51.451	0.100	0.000	0.1	0.09	0.8	OK
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH4.1	MH4	52.8	51.458	0.100	0.000	0.1	0.07	0.6	OK
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.026	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.022	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.018	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.018	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.015	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.016	0.000	0.0	0	0.0	OK

Project: Report Details: Type: Connections Summary Storm Phase: Phase				Date: 09/03/2022 Designed by: townS Checked by: Approved By:							
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.014	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.014	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.012	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.013	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.011	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.011	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.010	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.011	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.009	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.009	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.008	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.008	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.007	0.000	0.0	0	0.0	OK

Project:			Date: 09/03/2022					
			Designed by: towns	Checked by:	Approved By:			
Report Details: Type: Connections Summary Storm Phase: Phase			Company Address:					

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.007	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.003	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.004	0.000	0.0	0	0.0	OK

Project:				Date: 09/03/2022							
				Designed by: towns	Checked by:	Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.003	0.000	0.0	0	0.0	OK

Project:			Date: 09/03/2022								
Report Details: Type: Connections Summary Storm Phase: Phase			Designed by: TOWNS Checked by: Approved By:								
Company Address:											

SUM Pipe (8)

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH4.1	MH4	52.8	51.513	0.100	0.000	0.1	0.12	1.0	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH4.1	MH4	52.8	51.621	0.100	0.001	0.2	0.18	1.4	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH4.1	MH4	52.8	51.451	0.100	0.000	0.1	0.09	0.8	OK
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH4.1	MH4	52.8	51.458	0.100	0.000	0.1	0.07	0.6	OK
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.026	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.022	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.018	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.018	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.015	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.016	0.000	0.0	0	0.0	OK

Project: Report Details: Type: Connections Summary Storm Phase: Phase				Date: 09/03/2022 Designed by: townS Checked by: Approved By:							
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.014	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.014	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.012	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.013	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.011	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.011	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.010	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.011	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.009	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.009	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.008	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.008	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.007	0.000	0.0	0	0.0	OK

Project:			Date: 09/03/2022			 Designed by: towns		
			Checked by: Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase			Company Address:					

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.007	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.003	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH4.1	MH4	52.8	51.400	0.004	0.000	0.0	0	0.0	OK

Project:				Date: 09/03/2022							
				Designed by: towns	Checked by:	Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH4.1	MH4	52.8	51.400	0.003	0.000	0.0	0	0.0	OK

Project:			Date: 09/03/2022								
Report Details: Type: Connections Summary Storm Phase: Phase			Designed by: TOWNS Checked by: Approved By:								
Company Address:											

SUM Pipe (9)

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH5.3	MH5	52.4	51.143	0.100	0.000	0.1	0.07	1.1	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH5.3	MH5	52.4	51.261	0.100	0.000	0.2	0.11	1.8	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH5.3	MH5	52.4	51.118	0.100	0.000	0.1	0.07	1.1	OK
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH5.3	MH5	52.4	51.160	0.100	0.000	0.2	0.08	1.3	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK

Project: Report Details: Type: Connections Summary Storm Phase: Phase				Date: 09/03/2022 Designed by: townis Checked by: Approved By:							
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.090	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.055	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.100	0.000	0.0	0	0.0	OK

Project:				Date: 09/03/2022							
				Designed by: towns		Checked by:					Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.013	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.050	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.012	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.010	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.010	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.009	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.009	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.008	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.008	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.007	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.008	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH5.3	MH5	52.4	51.030	0.007	0.000	0.0	0	0.0	OK

Project:				Date: 09/03/2022							
				Designed by: towns	Checked by:	Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH5.3	MH5	52.4	51.030	0.006	0.000	0.0	0	0.0	OK

Project:		Date: 09/03/2022	Designed by: TOWNS Checked by: Approved By:			
Report Details: Type: Connections Summary Storm Phase: Phase		Company Address:				



Pipe (10)

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.181	0.100	0.000	0.2	0.11	1.6	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.296	0.100	0.000	0.3	0.15	2.2	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.154	0.100	0.000	0.2	0.09	1.4	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.196	0.100	0.000	0.2	0.09	1.4	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.093	0.000	0.0	0	0.0	OK

Project: Report Details: Type: Connections Summary Storm Phase: Phase				Date: 09/03/2022 Designed by: townis Checked by: Approved By:							
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.089	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.080	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.069	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.057	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.035	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.100	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.010	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.056	0.000	0.0	0	0.0	OK

Project:			Date: 09/03/2022					
			Designed by: towns	Checked by:	Approved By:			
Report Details: Type: Connections Summary Storm Phase: Phase			Company Address:					

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.008	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.007	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.008	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH5.1	MH5.2	52.4	51.030	0.005	0.000	0.0	0	0.0	OK

Project:				Date: 09/03/2022							
				Designed by: towns	Checked by:	Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH5.1	MH5.2	52.4	51.030	0.004	0.000	0.0	0	0.0	OK

Project:			Date: 09/03/2022								
Report Details: Type: Connections Summary Storm Phase: Phase			Designed by: towns Checked by: Approved By:								
			Company Address:								

SUM Pipe (3)

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH5.2	MH5	51.4	51.176	0.100	4.028	0.6	0.76	5.1	Flood Risk
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH5.2	MH5	51.4	51.292	0.100	4.503	0.7	0.83	5.6	Flood Risk
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH5.2	MH5	51.4	51.153	0.100	5.209	0.6	0.75	5.0	Flood Risk
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH5.2	MH5	51.4	51.194	0.100	5.825	0.6	0.71	4.7	Flood Risk
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH5.2	MH5	51.4	50.964	0.100	6.407	0.6	0.67	4.5	Surcharge d
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH5.2	MH5	51.4	50.890	0.100	7.048	0.5	0.59	4.0	Surcharge d
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH5.2	MH5	51.4	50.496	0.100	7.587	0.5	0.48	3.2	Surcharge d
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH5.2	MH5	51.4	50.314	0.100	8.284	0.5	0.38	2.5	Surcharge d
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH5.2	MH5	51.4	50.198	0.100	8.316	0.5	0.37	2.4	Surcharge d
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH5.2	MH5	51.4	50.136	0.100	9.062	0.5	0.31	2.1	Surcharge d
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH5.2	MH5	51.4	50.036	0.100	8.813	0.5	0.33	2.2	Surcharge d

Project: Report Details: Type: Connections Summary Storm Phase: Phase				Date: 09/03/2022 Designed by: townis Checked by: Approved By:											
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH5.2	MH5	51.4	50.159	0.100	9.680	0.5	0.26	1.7	Surcharge d				
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH5.2	MH5	51.4	50.028	0.100	9.549	0.5	0.26	1.7	Surcharge d				
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH5.2	MH5	51.4	50.172	0.100	10.688	0.5	0.19	1.3	Surcharge d				
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH5.2	MH5	51.4	50.010	0.100	10.101	0.5	0.21	1.4	Surcharge d				
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH5.2	MH5	51.4	50.162	0.100	11.303	0.4	0.15	1.0	Surcharge d				
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH5.2	MH5	51.4	49.987	0.100	10.554	0.4	0.17	1.2	Surcharge d				
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH5.2	MH5	51.4	50.140	0.100	11.824	0.4	0.12	0.8	Surcharge d				
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH5.2	MH5	51.4	49.964	0.100	10.908	0.4	0.15	1.0	Surcharge d				
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH5.2	MH5	51.4	50.111	0.100	12.249	0.4	0.11	0.7	Surcharge d				
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH5.2	MH5	51.4	49.920	0.100	11.534	0.4	0.12	0.8	OK				
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH5.2	MH5	51.4	50.062	0.100	12.906	0.4	0.09	0.6	Surcharge d				
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH5.2	MH5	51.4	49.870	0.060	12.385	0.3	0.08	0.6	OK				
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH5.2	MH5	51.4	49.963	0.100	13.851	0.3	0.06	0.4	Surcharge d				

Project:			Date: 09/03/2022			 Designed by: towns		
			Checked by: Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase			Company Address:					

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH5.2	MH5	51.4	49.867	0.022	13.379	0.3	0.06	0.4	OK
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH5.2	MH5	51.4	49.864	0.054	14.927	0.3	0.04	0.3	OK
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH5.2	MH5	51.4	49.865	0.019	14.069	0.3	0.05	0.3	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH5.2	MH5	51.4	49.863	0.017	15.666	0.3	0.03	0.2	OK
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH5.2	MH5	51.4	49.863	0.016	15.077	0.3	0.03	0.2	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH5.2	MH5	51.4	49.861	0.014	16.899	0.2	0.02	0.2	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH5.2	MH5	51.4	49.861	0.015	16.167	0.3	0.03	0.2	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH5.2	MH5	51.4	49.860	0.013	17.746	0.2	0.02	0.1	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH5.2	MH5	51.4	49.861	0.013	16.161	0.2	0.02	0.2	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH5.2	MH5	51.4	49.859	0.012	18.573	0.2	0.02	0.1	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH5.2	MH5	51.4	49.860	0.012	16.786	0.2	0.02	0.1	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH5.2	MH5	51.4	49.858	0.011	19.387	0.2	0.01	0.1	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH5.2	MH5	51.4	49.859	0.012	17.058	0.2	0.02	0.1	OK

Project:				Date: 09/03/2022							
Designed by: towns				Checked by:		Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH5.2	MH5	51.4	49.858	0.010	18.876	0.2	0.01	0.1	OK

Project:			Date: 09/03/2022								
Report Details: Type: Connections Summary Storm Phase: Phase			Designed by: towns Checked by: Approved By:								
			Company Address:								

SUM Pipe (2)

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	Max. US Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH4	MH5	52.3	51.508	0.100	9.506	2.1	0.69	16.3	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH4	MH5	52.3	51.617	0.100	10.644	2.0	0.68	16.0	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH4	MH5	52.3	51.447	0.100	12.305	2.1	0.68	16.3	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH4	MH5	52.3	51.455	0.100	13.773	1.9	0.64	15.2	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH4	MH5	52.3	51.182	0.100	15.141	1.8	0.59	14.0	Surcharged
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH4	MH5	52.3	51.031	0.100	16.944	1.5	0.49	11.5	OK
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH4	MH5	52.3	51.023	0.100	18.015	1.2	0.39	9.3	OK
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH4	MH5	52.3	51.017	0.100	20.173	1.2	0.3	7.0	OK
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH4	MH5	52.3	51.017	0.100	19.686	1.2	0.29	7.0	OK
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH4	MH5	52.3	51.011	0.100	22.053	1.2	0.22	5.1	OK
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH4	MH5	52.3	51.012	0.100	20.855	1.2	0.24	5.6	OK

Project: Report Details: Type: Connections Summary Storm Phase: Phase				Date: 09/03/2022 Designed by: townis Checked by: Approved By:						
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH4	MH5	52.3	51.008	0.100	23.353	1.2	0.17	4.1 OK
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH4	MH5	52.3	51.008	0.100	22.584	1.2	0.17	4.1 OK
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH4	MH5	52.3	51.004	0.100	25.308	1.2	0.12	3.0 OK
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH4	MH5	52.3	51.005	0.100	23.884	1.2	0.14	3.3 OK
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH4	MH5	52.3	51.001	0.100	26.739	1.2	0.1	2.4 OK
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH4	MH5	52.3	51.003	0.100	24.940	1.2	0.11	2.7 OK
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH4	MH5	52.3	50.999	0.100	27.939	1.1	0.08	2.0 OK
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH4	MH5	52.3	51.001	0.100	25.821	1.1	0.1	2.3 OK
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH4	MH5	52.3	50.998	0.100	28.920	1.1	0.07	1.7 OK
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH4	MH5	52.3	50.999	0.093	27.249	1.0	0.08	1.9 OK
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH4	MH5	52.3	50.996	0.100	30.539	1.0	0.06	1.3 OK
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH4	MH5	52.3	50.996	0.059	29.319	0.9	0.06	1.3 OK
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH4	MH5	52.3	50.994	0.100	32.892	0.9	0.04	1.0 OK

Project:			Date: 09/03/2022			 Designed by: towns		
			Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:	

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH4	MH5	52.3	50.994	0.020	31.482	0.8	0.04	1.0	OK
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH4	MH5	52.3	50.992	0.054	35.289	0.8	0.03	0.7	OK
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH4	MH5	52.3	50.992	0.018	33.144	0.8	0.03	0.8	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH4	MH5	52.3	50.991	0.015	37.383	0.7	0.02	0.6	OK
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH4	MH5	52.3	50.990	0.015	35.468	0.7	0.02	0.5	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH4	MH5	52.3	50.989	0.013	39.756	0.7	0.02	0.4	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH4	MH5	52.3	50.989	0.014	37.468	0.7	0.02	0.4	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH4	MH5	52.3	50.988	0.012	42.306	0.6	0.01	0.3	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH4	MH5	52.3	50.989	0.012	39.402	0.6	0.01	0.4	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH4	MH5	52.3	50.988	0.011	43.356	0.6	0.01	0.3	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH4	MH5	52.3	50.988	0.012	39.408	0.6	0.01	0.3	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH4	MH5	52.3	50.987	0.010	45.294	0.6	0.01	0.2	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH4	MH5	52.3	50.988	0.011	40.524	0.6	0.01	0.3	OK

Project:				Date: 09/03/2022							
Designed by: towns				Checked by:		Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH4	MH5	52.3	50.987	0.009	46.812	0.5	0.01	0.2	OK

Project:			Date: 09/03/2022								
Report Details: Type: Connections Summary Storm Phase: Phase			Designed by: towns Checked by: Approved By:								
Company Address:											

SUM Pipe (4)

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	US Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH6.2	MH6	51.2	50.764	0.100	5.906	0.9	0.45	6.7	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH6.2	MH6	51.2	50.880	0.100	6.617	0.9	0.49	7.3	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH6.2	MH6	51.2	50.765	0.100	7.654	0.9	0.42	6.1	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH6.2	MH6	51.2	50.824	0.100	8.565	0.9	0.44	6.5	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH6.2	MH6	51.2	50.625	0.100	9.387	0.9	0.38	5.5	Surcharged
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH6.2	MH6	51.2	50.596	0.100	10.379	0.9	0.35	5.2	Surcharged
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH6.2	MH6	51.2	50.281	0.100	11.111	0.8	0.3	4.5	Surcharged
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH6.2	MH6	51.2	50.178	0.100	12.237	0.8	0.26	3.9	Surcharged
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH6.2	MH6	51.2	50.064	0.100	12.155	0.8	0.26	3.9	Surcharged
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH6.2	MH6	51.2	50.135	0.100	13.407	0.8	0.21	3.1	Surcharged
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH6.2	MH6	51.2	50.026	0.100	12.920	0.8	0.23	3.3	Surcharged

Project: Report Details: Type: Connections Summary Storm Phase: Phase				Date: 09/03/2022 Designed by: townS Checked by: Approved By:											
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH6.2	MH6	51.2	50.158	0.100	14.283	0.8	0.17	2.5	Surcharge d				
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH6.2	MH6	51.2	50.028	0.100	14.033	0.8	0.17	2.5	Surcharge d				
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH6.2	MH6	51.2	50.172	0.100	15.636	0.7	0.12	1.8	Surcharge d				
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH6.2	MH6	51.2	50.009	0.100	14.833	0.8	0.14	2.0	Surcharge d				
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH6.2	MH6	51.2	50.162	0.100	16.632	0.7	0.1	1.5	Surcharge d				
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH6.2	MH6	51.2	49.987	0.100	15.496	0.7	0.12	1.7	Surcharge d				
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH6.2	MH6	51.2	50.140	0.100	17.333	0.7	0.08	1.2	Surcharge d				
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH6.2	MH6	51.2	49.963	0.100	16.041	0.7	0.1	1.4	Surcharge d				
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH6.2	MH6	51.2	50.111	0.100	17.925	0.7	0.07	1.1	Surcharge d				
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH6.2	MH6	51.2	49.919	0.100	16.916	0.7	0.08	1.2	Surcharge d				
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH6.2	MH6	51.2	50.062	0.100	18.963	0.6	0.06	0.8	Surcharge d				
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH6.2	MH6	51.2	49.851	0.100	18.253	0.6	0.06	0.8	OK				
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH6.2	MH6	51.2	49.963	0.100	20.512	0.6	0.04	0.6	Surcharge d				

Project:			Date: 09/03/2022					
			Designed by: towns	Checked by:	Approved By:			
Report Details: Type: Connections Summary Storm Phase: Phase			Company Address:					

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH6.2	MH6	51.2	49.809	0.084	19.663	0.6	0.04	0.6	OK
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH6.2	MH6	51.2	49.840	0.100	22.104	0.5	0.03	0.4	OK
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH6.2	MH6	51.2	49.807	0.043	20.754	0.5	0.03	0.5	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH6.2	MH6	51.2	49.806	0.066	23.063	0.5	0.02	0.3	OK
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH6.2	MH6	51.2	49.806	0.015	22.124	0.5	0.02	0.3	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH6.2	MH6	51.2	49.804	0.012	24.817	0.4	0.02	0.2	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH6.2	MH6	51.2	49.804	0.013	23.240	0.5	0.02	0.3	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH6.2	MH6	51.2	49.803	0.011	25.646	0.4	0.01	0.2	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH6.2	MH6	51.2	49.804	0.012	24.280	0.4	0.01	0.2	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH6.2	MH6	51.2	49.802	0.011	26.964	0.4	0.01	0.2	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH6.2	MH6	51.2	49.803	0.011	25.502	0.4	0.01	0.2	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH6.2	MH6	51.2	49.802	0.011	28.812	0.4	0.01	0.1	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH6.2	MH6	51.2	49.803	0.011	26.014	0.4	0.01	0.2	OK

Project:				Date: 09/03/2022							
Report Details: Type: Connections Summary Storm Phase: Phase				Designed by: towns	Checked by:	Approved By:					
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH6.2	MH6	51.2	49.802	0.011	28.780	0.3	0.01	0.1	OK

Project:			Date: 09/03/2022	Designed by: TOWNS			Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase			Company Address:					

SUM Pipe (5)

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	Max. US Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH5	MH6	52.1	51.139	0.100	17.121	2.8	1.78	21.9	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH5	MH6	52.1	51.257	0.100	19.165	2.8	1.79	22.0	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH5	MH6	52.1	51.116	0.100	22.158	2.7	1.72	21.2	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH5	MH6	52.1	51.159	0.100	24.666	2.6	1.67	20.5	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH5	MH6	52.1	50.927	0.100	27.055	2.4	1.54	19.0	Surcharged
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH5	MH6	52.1	50.856	0.100	29.985	2.3	1.44	17.7	Surcharged
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH5	MH6	52.1	50.470	0.100	32.066	1.8	1.13	13.9	Surcharged
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH5	MH6	52.1	50.297	0.100	35.577	1.5	0.93	11.4	Surcharged
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH5	MH6	52.1	50.181	0.100	35.119	1.5	0.9	11.1	Surcharged
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH5	MH6	52.1	50.136	0.100	38.932	1.5	0.69	8.5	Surcharged
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH5	MH6	52.1	50.027	0.100	37.308	1.5	0.73	9.0	Surcharged

Project: Report Details: Type: Connections Summary Storm Phase: Phase				Date: 09/03/2022 Designed by: townis Checked by: Approved By:							
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH5	MH6	52.1	50.159	0.100	41.375	1.5	0.64	7.8	Surcharge d
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH5	MH6	52.1	50.029	0.100	40.643	1.5	0.58	7.1	Surcharge d
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH5	MH6	52.1	50.173	0.100	45.247	1.4	0.45	5.5	Surcharge d
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH5	MH6	52.1	50.010	0.100	42.989	1.4	0.49	6.1	Surcharge d
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH5	MH6	52.1	50.163	0.100	48.137	1.3	0.36	4.4	Surcharge d
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH5	MH6	52.1	49.988	0.100	44.890	1.4	0.4	4.9	Surcharge d
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH5	MH6	52.1	50.141	0.100	50.293	1.3	0.3	3.7	Surcharge d
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH5	MH6	52.1	49.964	0.100	46.451	1.3	0.34	4.2	Surcharge d
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH5	MH6	52.1	50.112	0.100	52.049	1.2	0.26	3.2	Surcharge d
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH5	MH6	52.1	49.920	0.100	49.052	1.3	0.27	3.3	Surcharge d
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH5	MH6	52.1	50.063	0.100	54.956	1.2	0.2	2.4	Surcharge d
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH5	MH6	52.1	49.851	0.100	52.760	1.2	0.19	2.4	Surcharge d
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH5	MH6	52.1	49.963	0.100	59.103	1.1	0.14	1.7	Surcharge d

Project:			Date: 09/03/2022					
			Designed by: towns	Checked by:	Approved By:			
Report Details: Type: Connections Summary Storm Phase: Phase			Company Address:					

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH5	MH6	52.1	49.767	0.092	56.689	1.1	0.14	1.7	OK
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH5	MH6	52.1	49.841	0.100	63.574	1.0	0.1	1.2	Surcharge
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH5	MH6	52.1	49.764	0.046	59.785	1.0	0.11	1.4	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH5	MH6	52.1	49.761	0.069	67.183	0.9	0.08	1.0	OK
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH5	MH6	52.1	49.760	0.019	64.117	0.9	0.08	1.0	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH5	MH6	52.1	49.757	0.016	71.895	0.8	0.06	0.7	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH5	MH6	52.1	49.758	0.017	67.609	0.9	0.06	0.8	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH5	MH6	52.1	49.756	0.015	75.749	0.8	0.05	0.6	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH5	MH6	52.1	49.757	0.016	69.830	0.8	0.05	0.6	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH5	MH6	52.1	49.754	0.013	78.607	0.8	0.04	0.5	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH5	MH6	52.1	49.755	0.014	71.027	0.8	0.04	0.5	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH5	MH6	52.1	49.753	0.013	81.167	0.7	0.03	0.4	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH5	MH6	52.1	49.755	0.014	72.829	0.8	0.04	0.5	OK

Project:				Date: 09/03/2022							
Report Details: Type: Connections Summary Storm Phase: Phase				Designed by: towns Checked by: Approved By:							
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH5	MH6	52.1	49.752	0.013	82.621	0.7	0.03	0.3	OK

Project:			Date: 09/03/2022			Designed by: towns			Checked by: Approved By:			
Report Details: Type: Connections Summary Storm Phase: Phase			Company Address:									

SUM Pipe (11)

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	US Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH6	Tank	51.6	50.731	0.100	23.018	3.3	1.57	25.8	Surcharged
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH6	Tank	51.6	50.841	0.100	25.721	3.4	1.62	26.6	Surcharged
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH6	Tank	51.6	50.735	0.100	29.646	3.2	1.52	25.1	Surcharged
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH6	Tank	51.6	50.790	0.100	32.958	3.2	1.53	25.1	Surcharged
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH6	Tank	51.6	50.597	0.100	36.143	2.9	1.37	22.6	Surcharged
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH6	Tank	51.6	50.567	0.100	39.956	2.7	1.3	21.4	Surcharged
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH6	Tank	51.6	50.260	0.100	42.815	2.4	1.07	17.6	Surcharged
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH6	Tank	51.6	50.163	0.100	47.328	2.4	0.89	14.6	Surcharged
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH6	Tank	51.6	50.050	0.100	46.923	2.2	0.84	13.9	Surcharged
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH6	Tank	51.6	50.134	0.100	51.857	2.2	0.66	10.9	Surcharged
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH6	Tank	51.6	50.026	0.100	49.918	2.1	0.71	11.6	Surcharged

Project:			Date: 09/03/2022 Designed by: towns			Checked by: Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase						Company Address:					
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH6	Tank	51.6	50.158	0.100	55.211	2.1	0.56	9.3	Surcharge d
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH6	Tank	51.6	50.028	0.100	54.490	2.0	0.57	9.4	Surcharge d
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH6	Tank	51.6	50.172	0.100	60.541	1.9	0.43	7.1	Surcharge d
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH6	Tank	51.6	50.009	0.100	57.818	1.9	0.48	7.8	Surcharge d
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH6	Tank	51.6	50.162	0.100	64.563	1.9	0.34	5.6	Surcharge d
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH6	Tank	51.6	49.987	0.100	60.385	1.8	0.4	6.6	Surcharge d
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH6	Tank	51.6	50.140	0.100	67.612	1.8	0.28	4.7	Surcharge d
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH6	Tank	51.6	49.963	0.100	62.491	1.8	0.34	5.7	Surcharge d
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH6	Tank	51.6	50.111	0.100	69.972	1.8	0.25	4.0	Surcharge d
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH6	Tank	51.6	49.919	0.100	65.965	1.8	0.27	4.5	Surcharge d
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH6	Tank	51.6	50.062	0.100	73.917	1.8	0.2	3.2	Surcharge d
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH6	Tank	51.6	49.851	0.100	71.011	1.8	0.2	3.2	Surcharge d
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH6	Tank	51.6	49.962	0.100	79.613	1.8	0.14	2.3	Surcharge d

Project:			Date: 09/03/2022			Designed by: townis Checked by: Approved By:			
			Report Details: Type: Connections Summary Storm Phase: Phase						

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH6	Tank	51.6	49.762	0.100	76.350	1.8	0.14	2.3	Surcharge d
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH6	Tank	51.6	49.840	0.100	85.677	1.8	0.1	1.7	Surcharge d
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH6	Tank	51.6	49.678	0.100	80.538	1.8	0.11	1.8	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH6	Tank	51.6	49.724	0.100	90.244	1.8	0.08	1.3	Surcharge d
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH6	Tank	51.6	49.618	0.100	86.236	1.8	0.08	1.3	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH6	Tank	51.6	49.616	0.100	96.707	1.8	0.06	0.9	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH6	Tank	51.6	49.616	0.100	90.844	1.8	0.06	1.0	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH6	Tank	51.6	49.615	0.100	101.390	1.8	0.05	0.8	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH6	Tank	51.6	49.615	0.100	94.105	1.8	0.05	0.9	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH6	Tank	51.6	49.615	0.097	105.567	1.8	0.04	0.6	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH6	Tank	51.6	49.615	0.100	96.524	1.8	0.04	0.7	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH6	Tank	51.6	49.615	0.049	109.975	1.8	0.03	0.5	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH6	Tank	51.6	49.615	0.071	98.839	1.8	0.04	0.7	OK

Project:				Date: 09/03/2022							
Report Details: Type: Connections Summary Storm Phase: Phase				Designed by: towns Checked by: Approved By:							
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH6	Tank	51.6	49.615	0.014	111.396	1.8	0.03	0.5	OK

Project:			Date: 09/03/2022								
Report Details: Type: Connections Summary Storm Phase: Phase			Designed by: towns Checked by: Approved By:								
Company Address:											

SUM Pipe (12)

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. Water Level (m)	Max. US Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 30 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 60 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 60 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 120 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 180 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 180 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 240 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK

Project:			Date: 09/03/2022			Designed by: towns			Checked by: Approved By:			
Report Details: Type: Connections Summary Storm Phase: Phase						Company Address:						
FSR: 100 years: +40 %: 240 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	
FSR: 100 years: +40 %: 360 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	
FSR: 100 years: +40 %: 360 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	
FSR: 100 years: +40 %: 480 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	
FSR: 100 years: +40 %: 480 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	
FSR: 100 years: +40 %: 600 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	
FSR: 100 years: +40 %: 600 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	
FSR: 100 years: +40 %: 720 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	
FSR: 100 years: +40 %: 720 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	
FSR: 100 years: +40 %: 960 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	
FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	
FSR: 100 years: +40 %: 1440 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	
FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK	

Project:			Date: 09/03/2022					
			Designed by: towns	Checked by:	Approved By:			
Report Details: Type: Connections Summary Storm Phase: Phase			Company Address:					

FSR: 100 years: +40 %: 2160 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2160 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2880 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 2880 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 4320 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 4320 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 5760 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 5760 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 7200 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 7200 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 8640 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK
FSR: 100 years: +40 %: 10080 mins: Summer	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK

Project:				Date: 09/03/2022							
				Designed by: towns	Checked by:	Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							
FSR: 100 years: +40 %: 10080 mins: Winter	Pipe	MH1	MH2	53.7	52.340	0.000	0.000	0.0	0	0.0	OK

Project:	Date: 09/03/2022	Designed by: towns	Checked by:	Approved By:	
Report Details: Type: Phase Management Storm Phase: Phase	Company Address:				

 Phase
FSR: 100 years: Increase Rainfall (%): +40: 15 mins: Summer

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
TOTAL	52.8	22.977	0.0	0.000

Graphs

