DRAINAGE STRATEGY REPORT FOR MEADOW VIEW, BLAGRAVE LANE, CAVERSHAM, READING, RG4 7DX

DOCUMENT NUMBER.: C3157-R1-REV-B

PREPARED BY

Nimbus
ENGINEERING CONSULTANTS

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1. INTRODUCTION

1.1 Appointment

Nimbus Engineering Consultants Ltd have been appointed to provide a solution on the management of Surface Water runoff and to ensure that there is no risk of flooding caused by the proposed replacement dwelling.

Reading Borough Council have imposed the following planning condition, relating to surface water:

"7. No development shall commence on site until a comprehensive scheme of hard and soft landscaping has been submitted to and approved in writing by the Local Planning Authority. These details shall include:

a. Proposed finished ground and floor levels or contours, means of enclosure (including mammal gaps where appropriate), car parking layouts, other vehicle and pedestrian access and circulation areas;

b. Hard surfacing materials and minor artefacts and other ancillary structures (e.g. furniture, play equipment, refuse or other storage units, signs, lighting, external services, etc); Date: 9 September 2022 SDV Assistant Director of Planning, Transport and Public Protection Services

c. Soft landscaping details shall include planting plan, specification (including

cultivation and other operations associated with plant and grass establishment), schedules of plants, noting species, planting sizes and proposed numbers/densities where appropriate, and implementation timetable;

d. A maintenance programme detailing all operations to be carried out in order to allow successful establishment of planting;

e. routes and details of proposed and existing functional services above and below ground including foul and surface water drainage, soakaways and SUDs details, power, communications cables and water and gas supply pipelines, including access points, tree pit specifications;

The approved hard and soft landscaping scheme shall be carried out in accordance with the approved details prior to the occupation of any part of the development or in accordance with a timetable approved in writing by the Local Planning Authority. Any trees or plants which, within a period of 5 years from the date of planting, die, are removed or become seriously damaged or diseased shall be replaced in the next planting season with others of similar size and species, to be agreed in writing by the Local Planning Authority.

REASON: These details are required prior to commencement of development because of insufficient information contained within this submission and in the interest of ensuring that the landscaping of the development enhances the visual local environment and in accordance with Policy CC7 of the Reading Borough Local Plan 2019."

1.2 Objectives

This report will address the concerns raised by the Borough and provide details on a suitable Sustainable Urban Drainage System (SuDS) in order to reduce the surface water run-off leaving the site and show that the proposed development will not increase Flood Risk at the site or elsewhere.

1.3 Limitations

The general limitations of this report are:

- A number of data and information sources have been used to prepare this report. Whilst Nimbus Engineering believes them to be trustworthy, Nimbus Engineering is unable to guarantee the accuracy of data and information that has been provided by others;

- This report has been prepared using the best data and information that was available at the time of writing. There is the potential for further information or data to become available, leading to changes in the conclusions drawn by this report, for which Nimbus Engineering cannot be held responsible.

2. GEOLOGY OF THE AREA

According to the British Geological Survey (BGS), the superficial deposits at the site are of the Boyn Hill Gravel Member, as shown in Figure 1 below. The bedrock in the area is of the Seaford Chalk Formation, consisting of chalk, as shown in Figure 2, below.

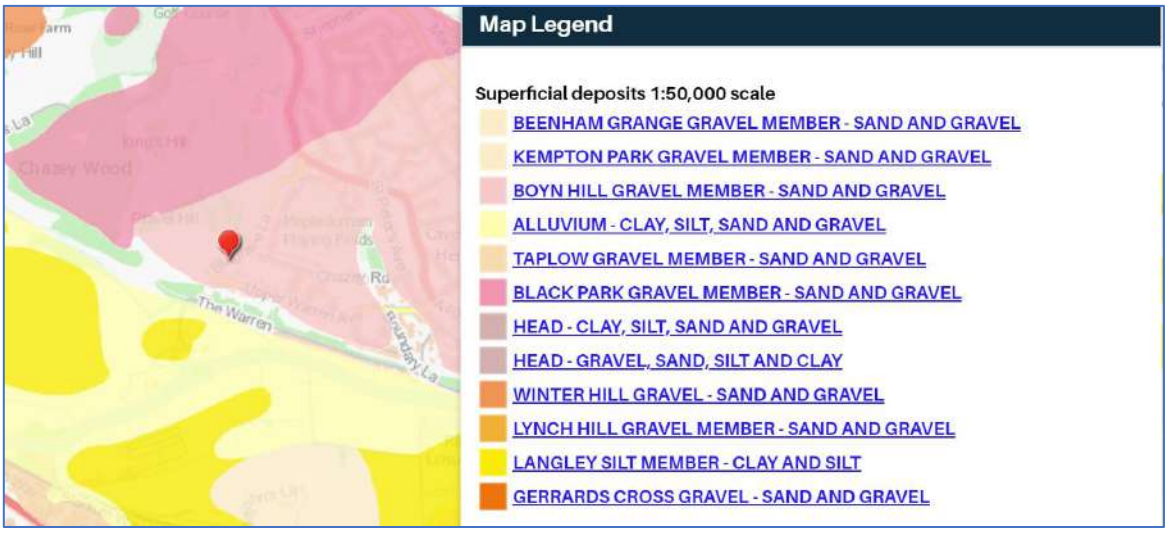


Figure 1- Superficial deposits at the site. (Source: British Geological Society Website (Contains British Geological Survey materials © URKI [2025]. Base mapping is provided by ESRI)).

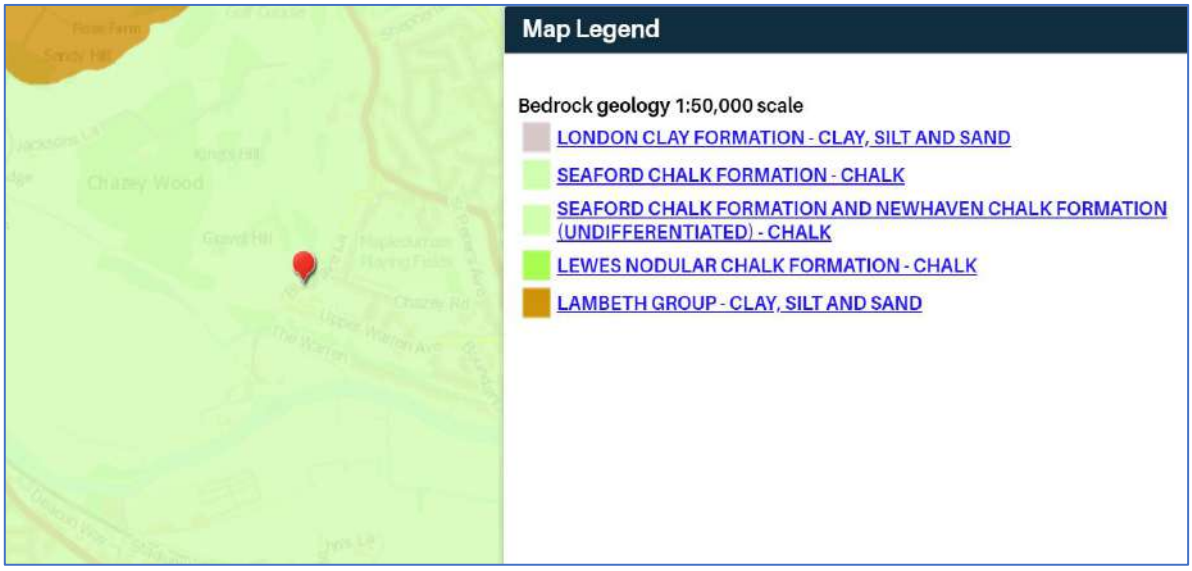


Figure 2- Bedrock at the site. (Source: British Geological Society Website (Contains British Geological Survey materials © URKI [2025]. Base mapping is provided by ESRI))

3. SUSTAINABLE URBAN DRAINAGE SYSTEMS

Surface water arising from a developed site should, as far as is practicable, be managed in a sustainable manner to mimic the surface water flows arising from the site prior to the proposed development, while reducing the flood risk to the site itself and elsewhere, taking climate change into account.

Reducing the rate of surface water discharge from urban sites is one of the most effective ways of reducing and managing flood risk.

Traditional piped surface water systems work by removing surface water from our developments as quickly as possible, however this can cause various adverse impacts:

- Increased downstream flooding, and sudden rises in flow rates and water levels in local water courses.

- Reduction in groundwater levels and dry weather flows in watercourses.

- Reduce amenity and adversely affect biodiversity due to the surface water runoff containing contaminants such as oil, organic matter and toxic materials.

SuDS are defined as a sequence of management principles and control structures deigned to drain surface water in a more sustainable fashion than conventional piped drainage techniques. SuDS should utilise the natural landscape of an area which as well as slowing down the rate of runoff provides a number of environmental, ecological and social benefits.

These include:

- Protection and enhancement of water quality. As well as providing on-site attenuation, SuDS treat the water, resulting in an improved quality of water leaving the site. This is achieved when the water passes through fine soils and the roots of specially selected plants. Pollutants washed off the hard landscaping by rainfall will be safely removed before the water reaches the natural receiving water course.

- A sympathetic approach to the environmental setting by providing opportunities to create habitats for flora and fauna in urban watercourses and open spaces.

- Meeting the amenity and social needs of the local community and residents in the creation of attractive green spaces.

The various types of SuDS include:

Permeable paving	
Soakaways;	
Swales and basins;	
Bioretention/ rain gardens;	
Green roofs and rainwater re-use;	

Preferably a combination of these techniques should be used as part of the surface water management train, and it is important for all stakeholders, such as developers, architects, landscape architects and engineers to work in order to determine a feasible solution.

The SuDS management train is shown below, and this has been followed when proposing the proposed Sustainable Urban Drainage Systems for this site.

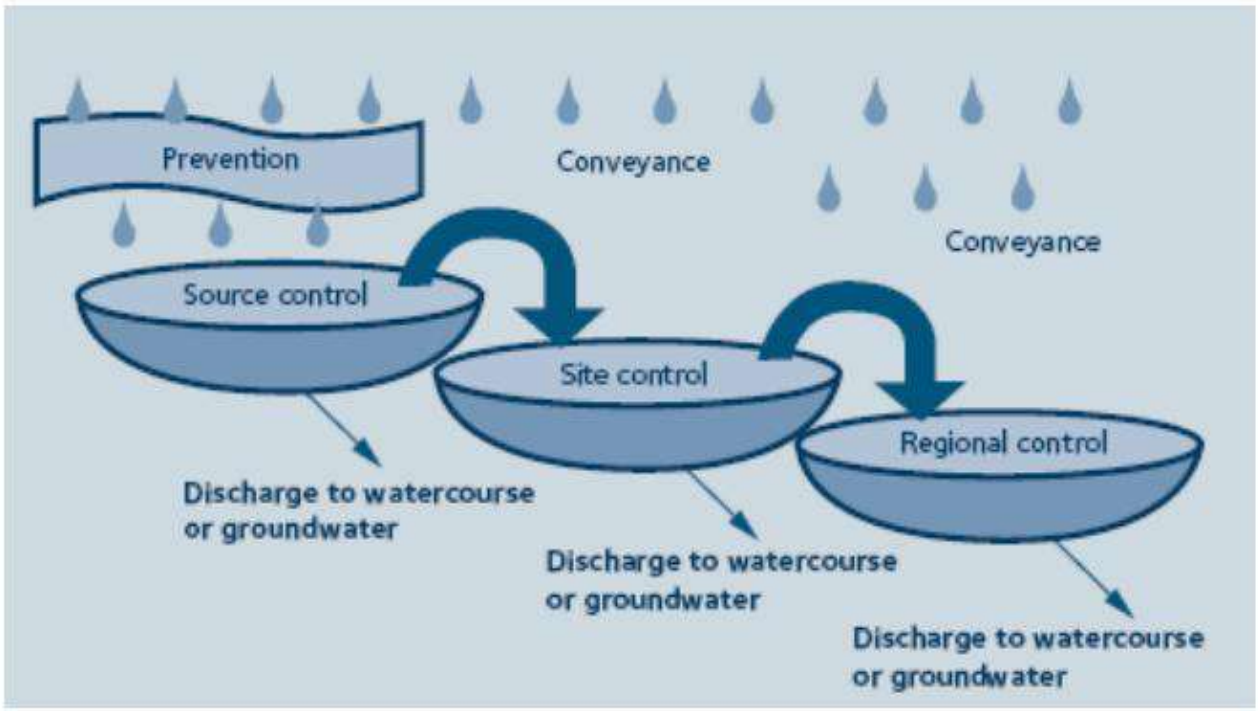


Figure 3 – SuDS Management Train

4. SuDS PROPOSALS FOR DEVELOPMENT

In accordance with the CIRIA SuDS Manual C753, the SuDS hierarchy has been considered in relation to the site-specific constraints and its surroundings. Table 1 below outlines the hierarchical approach considered for the development at Meadow View, Blagrave Lane, Caversham, Reading, RG4 7DX

Sustainable Drainage Proposal	Description	Constraints/Comments	Appropriate
Rainwater Use as a Resource	Use of rainwater runoff for reuse, e.g. Rainwater harvesting tanks, Blue Roofs for irrigation	One wall mounted rainwater harvesting tank will be provided	Yes
Rainwater Full Infiltration to Ground (Source Control)	Infiltration devices and/or soakaways. Surface water runoff stored on site and gradually percolating into receiving ground	Deep bore Soil Infiltration test was conducted on site by Aviron. Showing feasibility with lowest infiltration results being $1.8x10^{-4}$ m/s. Surface water run-off to be attenuated prior to being fully infiltered into ground water in deep bore soakaway.	Yes
Rainwater Partial Infiltration to Ground (Source Control)	Installation of permeable/porous surfacing	All new proposed hardstanding areas will be formed of porous surfacing	Yes
Rainwater attenuation in green infrastructure features for gradual release	The onsite storage of all surface water runoff which can then be gradually conveyed to a nearby watercourse, sewer or infiltration into the ground. Forms of green infrastructure features: Green Roofs, Raingardens, Ponds, Swales, Detention basins, Infiltration Trenches	Due to roof being pitched, green or sedum roofs are not feasible, however raingarden planters have been provided	No

	and raingarden planters		
Rainwater discharge direct to a watercourse	All surface water runoff on site discharged at a restricted rate to a nearby watercourse	N/A	N/A
Controlled rainwater discharge to a surface water sewer or drain	All surface water runoff on site discharged at a restricted rate to a nearby surface water sewer or drain, all rainwater runoff stored in below ground attenuation features. E.g. oversized pipes or geo-cellular tanks	N/A	N/A
Controlled rainwater discharge to a combined sewer	All surface water runoff on site discharged at a restricted rate to a nearby combined sewer all rainwater runoff stored in below ground attenuation features. E.g. oversized pipes or geo-cellular tanks	N/A	N/A

Table 1: SuDS Control Measures for Development

5. PROPOSED SOLUTION

The National Planning Policy Framework (NPPF) requires that any proposed Sustainable Drainage Systems (SuDS) solution should be appropriate for the nature and scale of the development.

To ensure comprehensive consideration of SuDS management, we have proposed installing a wall-mounted rainwater harvesting tank for the new dwelling. Additionally, all new hardstanding areas will be constructed using permeable surfacing underlaid by a geotextile membrane to remove hydrocarbons in the car parking areas. This is intended to manage surface water runoff at the source, with slot drains to capture runoff from sloped areas.

On-site BRE365 infiltration testing was carried out to determine the feasibility of installing a soakaway for the full infiltration of surface water run-off. However, due to the required size of the soakaway, the size of the garden, and the proximity of the septic tank, it was deemed unviable to ensure sufficient soakage capacity for both the surface water and foul drainage.

Deep bore soil infiltration tests were conducted on-site by Aviron, with test results demonstrating the feasibility of infiltration in the deep bore soakaway. The lowest infiltration rate recorded was 1.8x10-4 m/s or 0.648 m/hr, as shown in Appendix C.

The remaining surface water runoff from the site will be directed to a below-ground attenuation tank with a volume of 13.68 m^3 before being conveyed to a deep bore soakaway for full infiltration of existing surface water runoff into groundwater. The proposed SuDS solution is illustrated in drawing number C3157-03 in Appendix A.

To ensure a feasible solution was proposed a hydraulic model was built using Infodrainage, to simulate rainfall events for a 1 in 100 year storm event, with a 45% allowance for climate change. The results of the hydraulic model can be found in Appendix B.

We believe the above solution is proportionate to the nature and scale of the development.

6. FOUL DRAINAGE DESIGN

The foul drainage plans have been provided in C3157-05 in Appendix A.

7. TIMESCALE AND MAINTENANCE OF WORKS

All drainage works shall be completed prior to first occupation and there shall be no adoption of any of the drainage works within the site, the homeowners will be responsible to oversee the long-term maintenance of the drains. The following outline maintenance strategy sets out recommended timescales for maintenance of the proposed drainage works, in line with CIRIA SuDS Design Guide. A management and maintenance plan drawing has also been included in Appendix A.

- Regular inspection will comprise the inspection and cleaning of catchment, gutters, filters and tanks to reduce the likelihood of contamination, this is recommended to be carried out every 3 to 6 months

- The catchpit to the soakaway should be checked and emptied regularly or after a high storm event for the accumulation of debris/silt in order to ensure that there are no blockages

Maintenance schedule	Required action	Typical frequency
Regular maintenance	Pipe inlets to the raingarden planters should be checked every month and especially after an extreme rainstorm to ensure that there are no blockages.	Monthly
	Periodic inspections & removal of debris or other items that represent blockage risks particularly in vicinity of the inlet to the raingarden planters	Monthly
	Weeding, cutting of plants and removal of any dead plants to ensure that the system works effectively	Every three months
	For systems where rainfall infiltrates into the tank from above, check surface of filter for blockages by sediment, algae or other matter: remove and replace surface infiltration medium as necessary.	Annually
Remedial actions	Repair inlets, outlets, overflows	As required
Monitoring	Inspect/check all inlets, outlets, vents and overflows to ensure that the are in good condition and operating as designed	Annually

Table 2: Operation and maintenance requirement for rainwater garden planters

Maintenance schedule	Required action	Typical Frequency
Regular maintenance	Inspection of the tank for debris and sediment build-up, inlets/outlets/withdraw devices, overflow areas, pumps, filters	Annually (and following poor performance)
	Cleaning of tank, inlets, outlets, gutters. Withdrawal devices and roof drain filters of silts and other debris	Annually (and following poor performance)
Occasional maintenance	Cleaning and/ or replacement of any filters	Three monthly (or as required)
Remedial actions	Repair of overflow erosion damage or damage to tank	As required
	Pump repairs	As required

Table 3: Operation and maintenance requirement for RWH systems.

Maintenance schedule	Required action	Typical frequency
Regular maintenance	Brushing and vacuuming (standard cosmetic sweep over whole surface	Once a year, after autumn leaf fall, or reduced frequency as required, based on site-specific observations or clogging or manufacturer's recommendations – pay particular attention to areas where water runs onto pervious surface from adjacent impermeable areas as this is the most likely to collect the most sediment
Occasional maintenance	Stabilise and mow contributing and adjacent areas	As required
	Removal of weeds or management using glyphospate applied directly into the weeds by an applicator rather than spraying	As required
Remedial Actions	Remediate any landscaping which, through vegetation maintenance or soil slip, has been raised to within 50 mm of the level of the paving.	As required
	Remedial work to any depressions, rutting and cracked or broken blocks considered detrimental to the structural performance or a hazard to users, and replace lost jointing material.	As required
	Rehabilitation of surface and upper substructure by remedial sweeping	Every 10 to 15 years or as required (if infiltration performance is reduced due to significant clogging)
Monitoring	Initial inspection	Monthly for three months after installation
	Inspect for evidence of poor operation and/or weed growth – if required, take remedial action	Three-monthly, 48hr after large storms in six months
	Inspect slit accumulation rates and establish appropriate brushing frequencies	Annually
	Monitor inspection chambers	Annually

Table 4: Operation and maintenance requirements for pervious pavements.

Maintenance schedule	Required action	Typical frequency
Regular maintenance	Inspect and identify any areas that are not operating correctly. If required, take remedial action	Monthly for 3 months, then annually
	Remove debris from the catchment surface (where it may cause risks to performance)	Monthly
	For systems where rainfall infiltrates into the tank from above, check surface of filter for blockages by sediment, algae or other matter: remove and replace surface infiltration medium as necessary.	Annually
	Remove sediment from pre-treatment structures and/ or internal forebays	Annually, or as required
Remedial actions	Repair/ rehabilitate inlets, outlet, overflows and vents	As required
Monitoring	Inspect/check all inlets, outlets, vents and overflows to ensure that the are in good condition and operating as designed	Annually
	Survey inside of tank for sediment build-up and remove if necessary	Every 5 years or as required

Table 5: Operation and maintenance requirements for attenuation storage tanks.

*All Remedial Works should be carried out by a competent and certified contractor, with no access to chambers or removal of parts to be undertaken by homeowners

If upstream network of catchpit is regularly maintained, little maintenance is required within the chamber as there are no moving parts

8. CONCLUSIONS

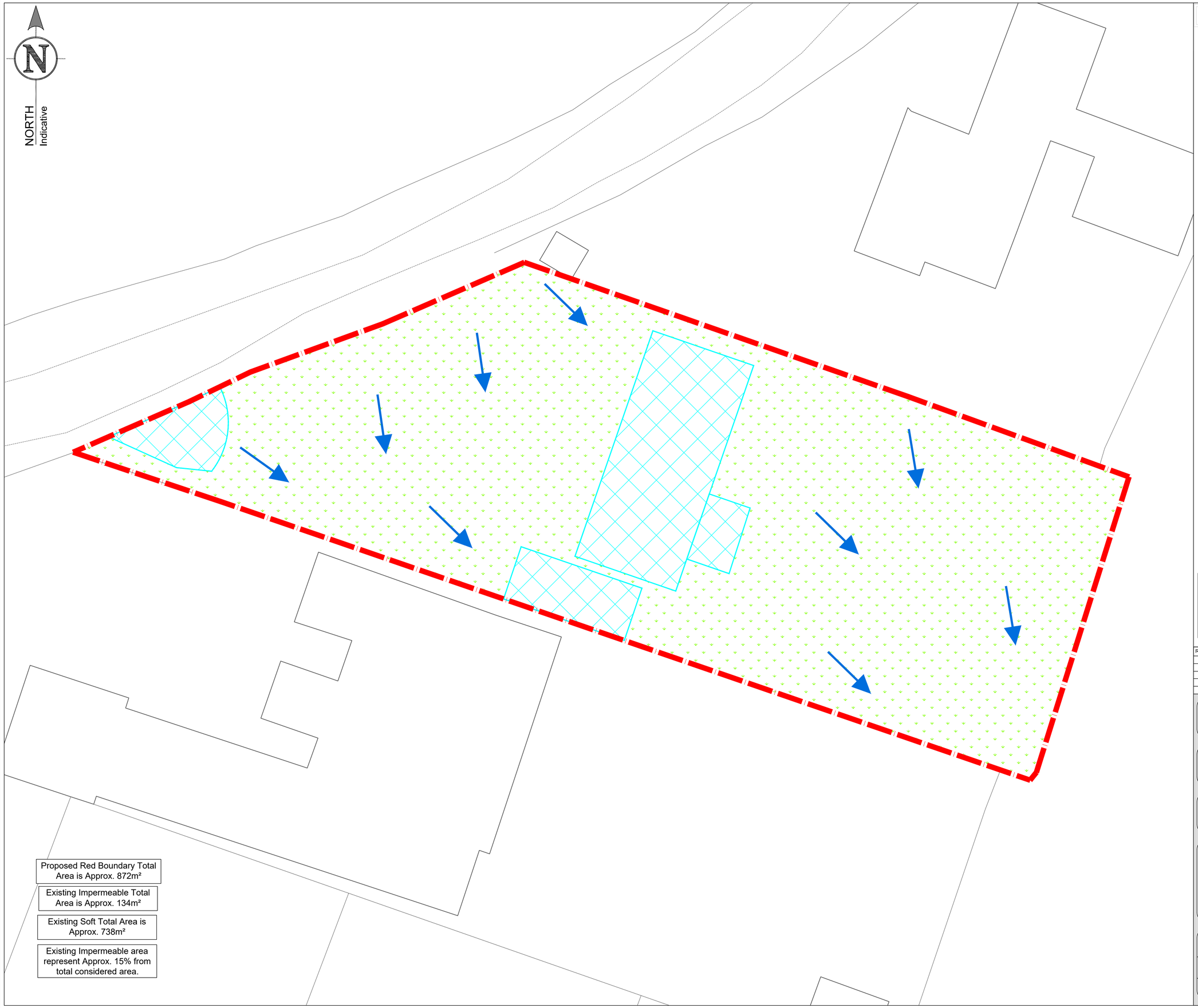
The purpose of this report and associated drawings, is to satisfy the planning condition imposed by the local planning authority relating to surface water flows arising due to the development at this site.

As requested, SuDS have been incorporated into this design, in the form of:

1. One wall mounted rainwater harvesting tanks
2. Porous surfacing on all proposed hardstanding areas
3. Attenuation tank to provide attenuation on site, prior to discharge via infiltration in the deep bore soakaway
4. Deep bore Soakaway to fully infiltrate surface water run-off into groundwater

The proposed foul drainage from the site, will discharge into the existing septic tank at the site.

APPENDIX A – DRAWINGS



DRAWING TO BE PRINTED IN COLOUR.

KEY:

- Existing Soft Areas as per topographical survey provided by architect. Soft areas include grass, shrubs and trees but for ease of reference is shown as same hatch.
- Existing impermeable areas as per existing site layout. Impermeable areas are roofs and pavements but for ease of reference is shown as same hatch.
- Proposed Site Boundary.
- Existing Exceedance SW routes as per information from Lidar Survey.

NOTES:

1. DRAWING WILL NEED TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS FROM ARCHITECT, LANDSCAPE ARCHITECT, STRUCTURAL ENGINEER AND M&E.
2. EXISTING ROUTES FOR UNDERGROUND UTILITIES ARE CURRENTLY UNKNOWN.

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REV	DATE	DRAWN	DESCRIPTION	CHECK	APPR.
A	23/02/24	N.E	For Information.	M.H	S.L

PROJECT:

C3157- Meadow View, Caversham, Reading, RG4 7DX

TITLE:

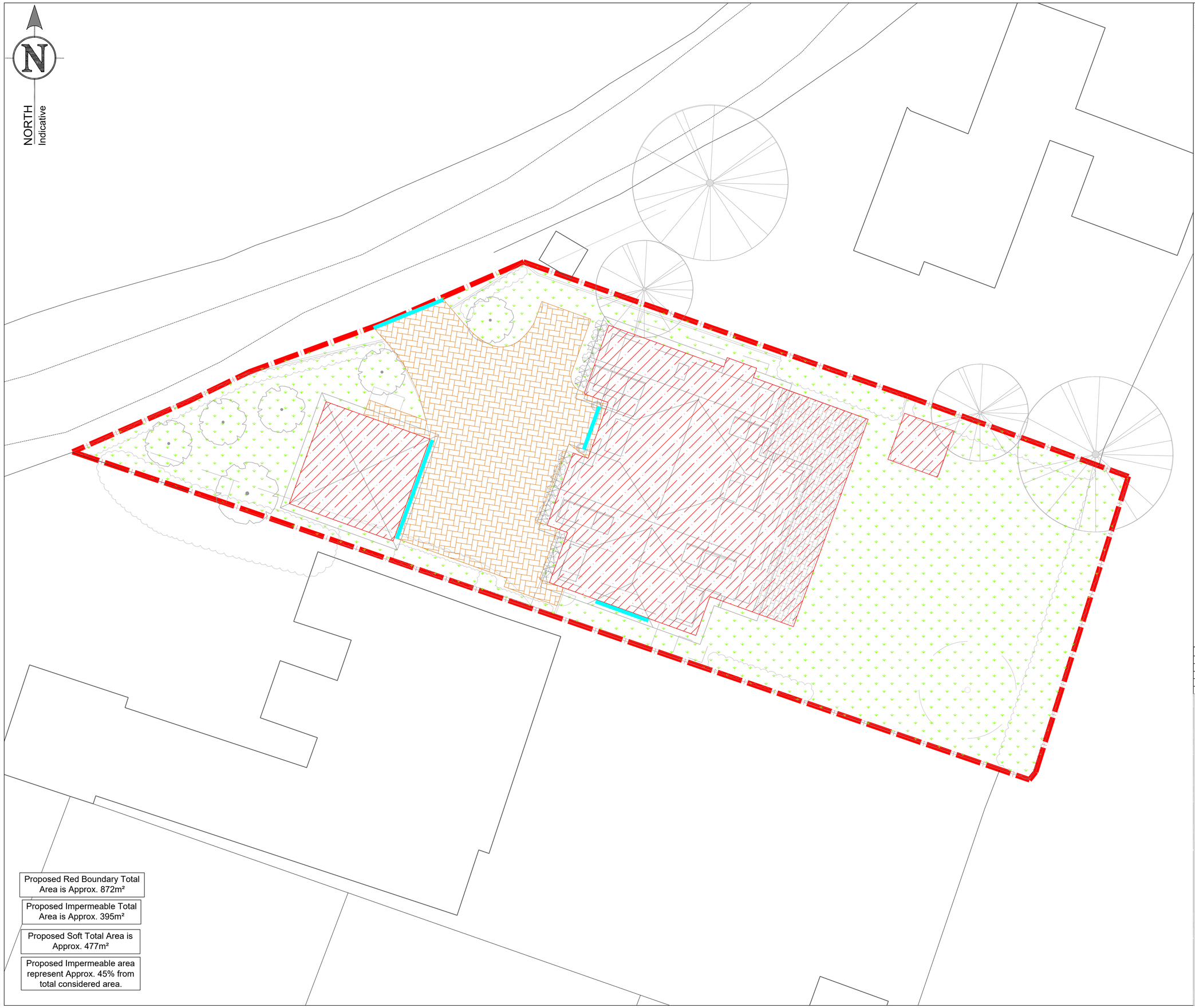
Pre-Development Impermeable Areas & Exceedance Routes

CLIENT:

Carney Construction Ltd.

Nimbus ENGINEERING CONSULTANTS
www.nimbusengineering.co.uk
info@nimbusengineering.co.uk

CHECKED BY:	DATE:	APPROVED BY:	DATE:
M.H	23/02/24	S.L	23/02/24
DRN BY: N.E	SCALE: 1:100	DRAWING NUMBER: C3157-01	REV: A
DATE: 23/02/24	SIZE: A1		



DRAWING TO BE PRINTED IN COLOUR.

KEY:

- Proposed Soft Areas as per Landscape drawing. Soft areas include grass, shrubs and trees but for ease of reference is shown as same hatch.
- Proposed Impermeable Area from roof and pavements of proposed structures. Shape of structures as per proposed site layout.
- Proposed Channel Drain.
- Proposed Site Boundary.
- Proposed assumed overland flow routes that are based on the levels information from the Lidar survey. To be confirmed once the detailed external levels design is undertaken.
- Proposed Permeable Pavement as per Landscape Architect specification. permeable pavement not considered for hydraulic storage. Permeable pavement only suitable for very small storm events.

NOTES:

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A	23/02/24	N.E	For Information.	M.H	S.L

PROJECT:

C3157- Meadow View, Caversham, Reading, RG4 7DX

TITLE:

Post-Development Impermeable Areas & Exceedance Routes

CLIENT:

Carney Construction Ltd.

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CHECKED BY:	DATE:	APPROVED BY:	DATE:
M.H	23/02/24	S.L	23/02/24
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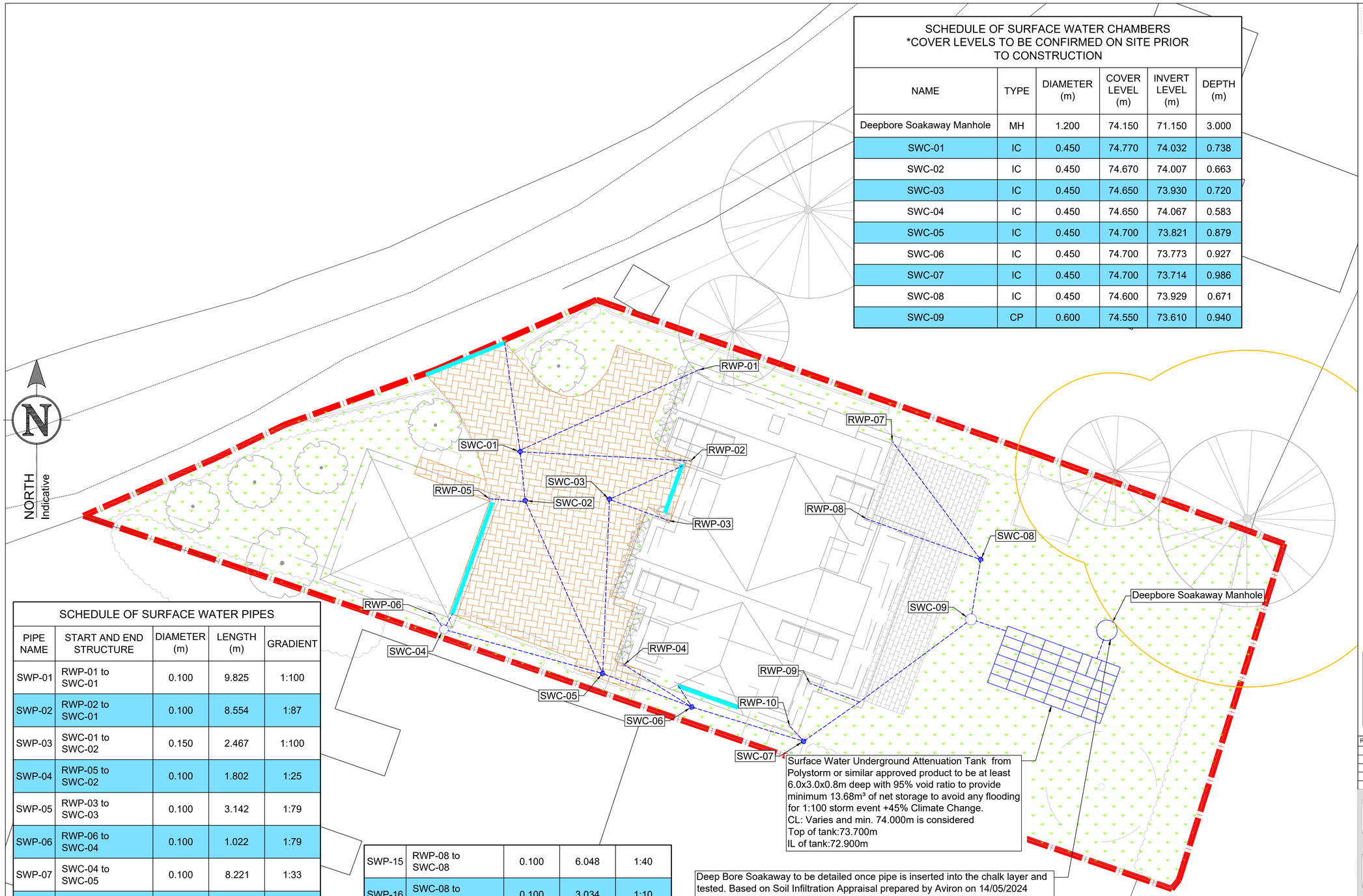
DATE: 23/02/24	SIZE: A1		



SCHEDULE OF SURFACE WATER CHAMBERS
*COVER LEVELS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION

NAME	TYPE	DIAMETER (m)	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH (m)
Deepbore Soakaway Manhole	MH	1.200	74.150	71.150	3.000
SWC-01	IC	0.450	74.770	74.032	0.738
SWC-02	IC	0.450	74.670	74.007	0.663
SWC-03	IC	0.450	74.650	73.930	0.720
SWC-04	IC	0.450	74.650	74.067	0.583
SWC-05	IC	0.450	74.700	73.821	0.879
SWC-06	IC	0.450	74.700	73.773	0.927
SWC-07	IC	0.450	74.700	73.714	0.986
SWC-08	IC	0.450	74.600	73.929	0.671
SWC-09	CP	0.600	74.550	73.610	0.940

SCHEDULE OF SURFACE WATER PIPES

PIPE NAME	START AND END STRUCTURE	DIAMETER (m)	LENGTH (m)	GRADIENT
SWP-01	RWP-01 to SWC-01	0.100	9.825	1:100
SWP-02	RWP-02 to SWC-01	0.100	8.554	1:87
SWP-03	SWC-01 to SWC-02	0.150	2.467	1:100
SWP-04	RWP-05 to SWC-02	0.100	1.802	1:25
SWP-05	RWP-03 to SWC-03	0.100	3.142	1:79
SWP-06	RWP-06 to SWC-04	0.100	1.022	1:79
SWP-07	SWC-04 to SWC-05	0.100	8.221	1:33
SWP-08	SWC-02 to SWC-05	0.150	9.493	1:51
SWP-09	SWC-03 to SWC-05	0.100	8.738	1:80
SWP-10	RWP-04 to SWC-06	0.100	4.022	1:11
SWP-11	SWC-05 to SWC-06	0.150	4.780	1:100
SWP-12	SWC-06 to SWC-07	0.150	5.853	1:99
SWP-13	RWP-10 to SWC-07	0.100	1.019	1:15
SWP-14	RWP-07 to SWC-08	0.100	7.389	1:37
SWP-15	RWP-08 to SWC-08	0.100	6.048	1:40
SWP-16	SWC-08 to SWC-09	0.100	3.034	1:10
SWP-17	SWC-09 to Att Tank	0.150	1.821	1:30
SWP-18	SWC-07 to Simple Junction	0.150	3.421	1:100
SWP-19	Simple Junction to SWC-09	0.150	6.962	1:99
SWP-20	RWP-09 to Simple Junction	0.100	2.640	1:6
SWP-21	Att Tank to Deepbore Soakaway Manhole	0.100	1.023	1:40

Deep Bore Soakaway to be detailed once pipe is inserted into the chalk layer and tested. Based on Soil Infiltration Appraisal prepared by Aviron on 14/05/2024 project no. 23-282.02 using results from DBSA1 at the proposed location of this deep bore soakaway in DBSA1 chalk was encountered between 2.3m and 20m deep with lowest tested infiltration rate being $1.8x10^{-4}$m/s or 0.648m/hr.
Deep bore to be Ø150mm with a Ø100mm perforated pipe inserted. Perforated pipe to only be allowed atleast 1m lower than start of chalk layer so suitable infiltration area could be between 4 and 20m depth. To achieve same infiltration results as tested by Aviron perforated installation to start at 8m depth and to be to depth of 19m.
Ø1200mm Access chamber to be built on top with estimated depth as below.
CL:74.150m
IL:72.875m incoming Ø100mm pipe
Sump allowed 700mm to cater for the siphon detail.
Bottom of chamber IL:71.150m
Detail of the chamber to be supplied once borehole is constructed.
No arboricultural report was provided and location of the borehole will need to be checked with the arboriculturist to verify no tree root protection areas are affected.
Deep Bore soakaway to be at lest 10m away from any structural foundation or road if chalk density is not tested.

DRAWING TO BE PRINTED IN COLOUR.

KEY:

- Proposed Surface Water Pipes.
- Slot drain position shown indicative at this design stage. Threshold drains to be detailed by the architects.
- Proposed Site Boundary.
- Proposed RWP. Locations TBC by Architect or M&E Engineer.
- Proposed SW inspection/catchpit chamber.
- Proposed Deep Bore Soakaway with Ø1200mm access chamber on top.
- Proposed Permeable pavement as per Landscape Architect Specification.
- Proposed geocellular underground attenuation tank to be Polystorm or similar approved product. Supplier to provide structural calculation and guidance for installation.

NOTES:

1. DRAWING WILL NEED TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS FROM ARCHITECT, LANDSCAPE ARCHITECT, STRUCTURAL ENGINEER AND M&E.
2. ROOT PROTECTION AREAS NOT PROVIDED. TO BE CHECKED IN SUBSEQUENT DESIGN STAGES ONCE THIS INFORMATION IS MADE AVAILABLE.
3. EXISTING LEVELS ARE BASED ON LIDAR SURVEY.
4. EXTERNAL LEVELS WERE ASSUMED AT THIS STAGE AND LOCATION OF SLOT DRAINS AND GULLIES TO BE CONFIRMED DURING DETAILED DRAINAGE DESIGN ONCE MORE INFORMATION IS AVAILABLE.
5. ALL CATCHPITS TO HAVE AT LEAST 450mm SUMP FROM IL SHOWN IN TABLE.

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B	17/04/25	M.HAM	RPA Boundary & Adjustments	S.L	S.L
A	23/05/24	N.E	For Information.	S.L	S.L

PROJECT:
C3157- Meadow View, Caversham, Reading, RG4 7DX

TITLE:
Proposed Surface Water Drainage & SuDs Layout

CLIENT:
Carney Construction Ltd.

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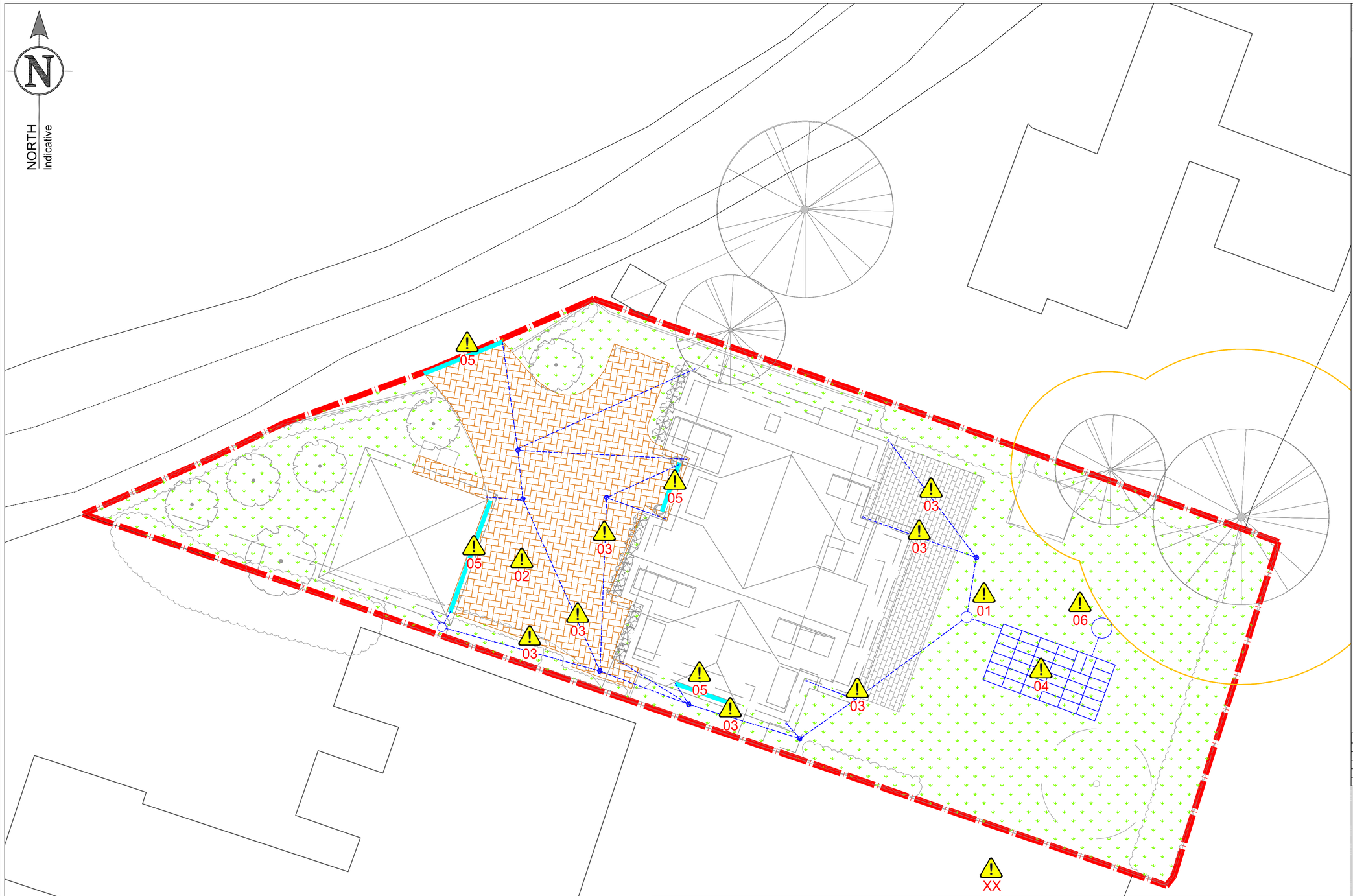
S.L	23/05/24	S.L	23/05/24
DRN BY: N.E	SCALE: 1:100	DRAWING NUMBER: C3157-03	REV: B
DATE: 23/05/24	SIZE: A1		



DRAWING TO BE PRINTED IN COLOUR.

KEY:

- Proposed Surface Water Pipes.
- Slot drain position shown indicative at this design stage. Threshold drains to be detailed by the architects.
- Proposed Site Boundary.
- Proposed RWP. Locations TBC by Architect or M&E Engineer.
- Proposed SW inspection/catchpit chamber.
- Proposed Deep Bore Soakaway with Ø1200mm access chamber on top.
- Proposed Permeable pavement as per Landscape Architect Specification.
- Proposed geocellular underground attenuation tank to be Polystorm or similar approved product. Supplier to provide structural calculation and guidance for installation.

NOT FOR CONSTRUCTION

IMPORTANT

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REV	DATE	DRAWN	DESCRIPTION	CHECK	APPR.
B	17/04/25	M.HAM	RPA Boundary & Adjustments	S.L	S.L
A	23/05/24	N.E	For Information.	S.L	S.L

PROJECT:
C3157- Meadow View, Caversham, Reading, RG4 7DX

TITLE:
Proposed Surface Water Drainage & SuDs Maintenance and Management Plan

CLIENT:
Carney Construction Ltd.

Nimbus ENGINEERING CONSULTANTS
www.nimbusengineering.co.uk
info@nimbusengineering.co.uk

CHECKED BY:	DATE:	APPROVED BY:	DATE:
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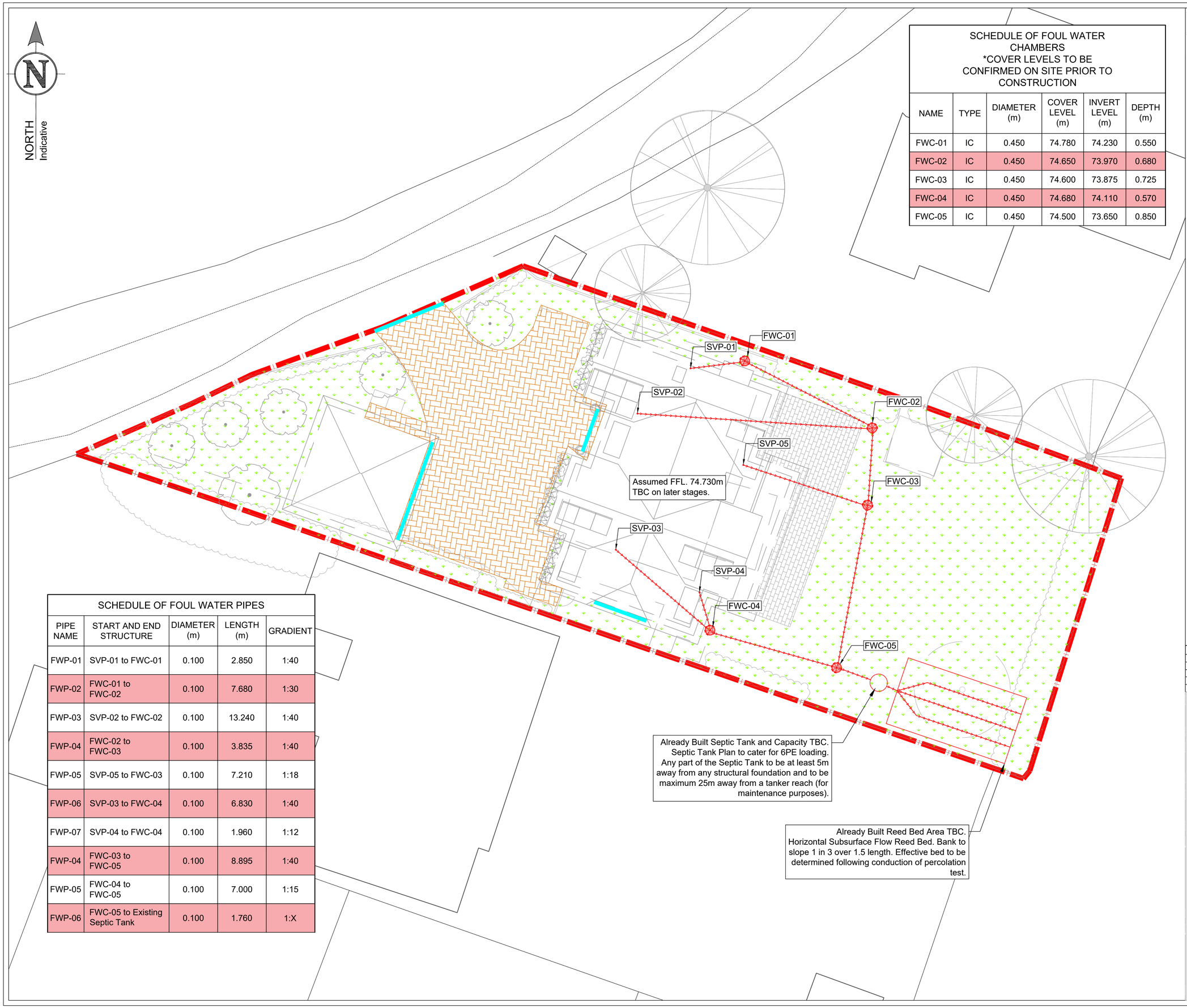
DRN BY: N.E	SCALE: 1:100	DRAWING NUMBER: C3157-04	REV: B
DATE: 23/05/24	SIZE: A1		

MAINTENANCE REQUIREMENTS FOR ALL DRAINAGE FEATURES WITHIN DEVELOPMENT	
OWNER OF THE HOUSE WILL BE RESPONSIBLE FOR ALL DRAINAGE FEATURES	
IDENTIFIER	MAINTENANCE REQUIREMENTS & REMEDIAL ACTIONS
1. CATCHPITS	CATCHPIT CHAMBERS ARE TO BE INSPECTED AND EMPTIED EVERY 3 MONTHS, ESPECIALLY AFTER A HEAVY RAINFALL EVENT TO ENSURE THE SYSTEM DOES NOT CLOG UP WITH SILT OR GET BLOCKED.
2. PERMEABLE PAVING	REGULAR JET-WASHING OF PERMEABLE BLOCK PAVING TO KEEP JOINTS AND VOIDS CLEAR. THIS SHOULD BE CARRIED OUT EVERY 6 MONTHS.
3. DRAINAGE RUNS	ANY DEFORMED OR DAMAGED PIPEWORK IS TO BE IDENTIFIED BY A DRAINAGE/CCTV SURVEY AND IS TO BE REPLACED BY APPOINTED MANAGEMENT COMPANY.
4. ATTENUATION TANK	INSPECT AND IDENTIFY ANY AREAS THAT ARE NOT OPERATING CORRECTLY MONTHLY FOR 3 MONTHS THEN ANNUALLY. IF REQUIRED, TAKE REMEDIAL ACTION. AS REQUIRED REPAIR/REHABILITATE INLETS/OUTLETS. EVERY 5 YEARS SURVEY INSIDE OF TANK FOR SEDIMENT BUILD-UP AND REMOVE IF NECESSARY.ANNUALLY INSPECT SILT ACCUMULATION RATES AND ESTABLISH APPROPRIATE BRUSHING FREQUENCIES.
5. CHANNEL DRAINS	CHANNEL DRAINS ARE TO BE INSPECTED AND ANY DEBRIS OR LITTER REMOVED EVERY 3 MONTHS OF AFTER A HEAVY RAINFALL EVENT TO ENSURE THERE ARE NO BLOCKAGES.
6.DEEP BORE SOAKAWAY	THE CATCHPIT CHAMBER ABOVE THE DEEP BORE PIPE WILL NEED TO FOLLOW THE SAME GUIDANCE FROM POINT AND THE DEEP BORE PIPE ITSELF IS TO BE INSPECTED EVERY 5 YEARS.



SCHEDULE OF FOUL WATER CHAMBERS
*COVER LEVELS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION

NAME	TYPE	DIAMETER (m)	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH (m)
FWC-01	IC	0.450	74.780	74.230	0.550
FWC-02	IC	0.450	74.650	73.970	0.680
FWC-03	IC	0.450	74.600	73.875	0.725
FWC-04	IC	0.450	74.680	74.110	0.570
FWC-05	IC	0.450	74.500	73.650	0.850

SCHEDULE OF FOUL WATER PIPES

PIPE NAME	START AND END STRUCTURE	DIAMETER (m)	LENGTH (m)	GRADIENT
FWP-01	SVP-01 to FWC-01	0.100	2.850	1:40
FWP-02	FWC-01 to FWC-02	0.100	7.680	1:30
FWP-03	SVP-02 to FWC-02	0.100	13.240	1:40
FWP-04	FWC-02 to FWC-03	0.100	3.835	1:40
FWP-05	SVP-05 to FWC-03	0.100	7.210	1:18
FWP-06	SVP-03 to FWC-04	0.100	6.830	1:40
FWP-07	SVP-04 to FWC-04	0.100	1.960	1:12
FWP-04	FWC-03 to FWC-05	0.100	8.895	1:40
FWP-05	FWC-04 to FWC-05	0.100	7.000	1:15
FWP-06	FWC-05 to Existing Septic Tank	0.100	1.760	1:X

DRAWING TO BE PRINTED IN COLOUR.

KEY:

- Channel drain position shown indicative at this design stage. Threshold drains to be detailed by the architects.
- Proposed Site Boundary.
- Proposed SVP. Locations TBC by Architect or M&E Engineer.
- Proposed SW inspection/catchpit chamber.
- Existing FW chamber owned by Thames Water. Location shown as per Thames Water Asset Plan.
- Proposed Permeable pavement as per Landscape Architect Specification.

NOTES:

1. DRAWING WILL NEED TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS FROM ARCHITECT, LANDSCAPE ARCHITECT, STRUCTURAL ENGINEER AND M&E.
2. ROOT PROTECTION AREAS NOT PROVIDED. TO BE CHECKED IN SUBSEQUENT DESIGN STAGES ONCE THIS INFORMATION IS MADE AVAILABLE.
3. EXISTING LEVELS ARE BASED ON LIDAR SURVEY.

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PROJECT:
C3157- Meadow View, Caversham, Reading, RG4 7DX

TITLE:
Proposed Foul Water Drainage Layout

CLIENT:
Carney Construction Ltd.

Nimbus ENGINEERING CONSULTANTS
www.nimbusengineering.co.uk
info@nimbusengineering.co.uk

CHECKED BY:	DATE:	APPROVED BY:	DATE:
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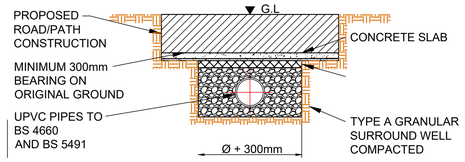
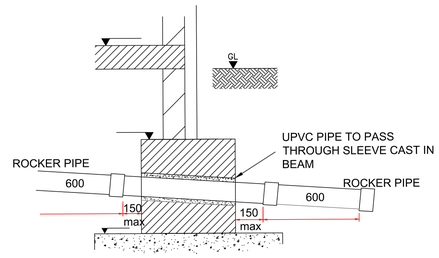
DRN BY: N.E	SCALE: 1:100	DRAWING NUMBER: C3157-05	REV: A
DATE: 23/05/24	SIZE: A1		

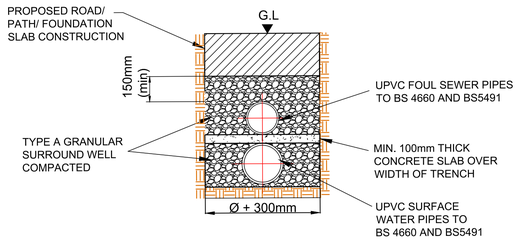
TRENCH BEDDING AND FILL MATERIALS								
GRANULAR BEDDING TYPE A								
TYPE	USE FOR NOMINAL PIPE (DIA.)	% PASSING BY MASS BS 410 SIEVE SIZES (mm)						
		63	37.5	20	14	10	5	2.36
A40	>1350	100	85-100	0-25	–	0-5	–	–
A20	600-1350	–	100	85-100	–	0-25	0-5	–
A14	300-525	–	–	100	85-100	0-50	0-10	–
A10	<300	–	–	–	100	85-100	0-25	0-5



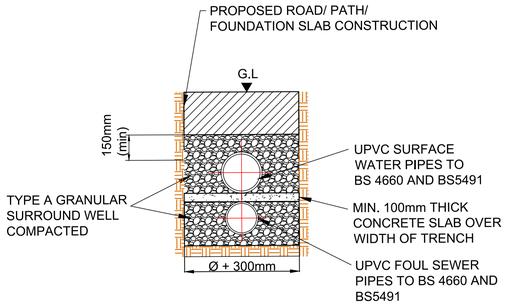
PROTECTION FOR PIPES LAID AT
SHALLOW DEPTHS
(UPVC PIPES)
NOT TO SCALE



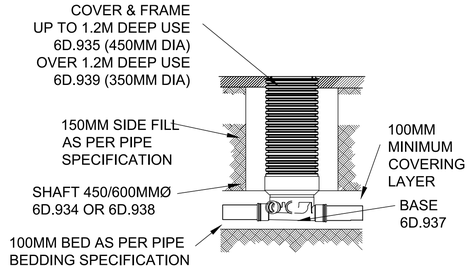
DETAIL OF DRAIN PASSING
THROUGH GROUND BEAM OR
OTHER STRUCTURE
NOT TO SCALE



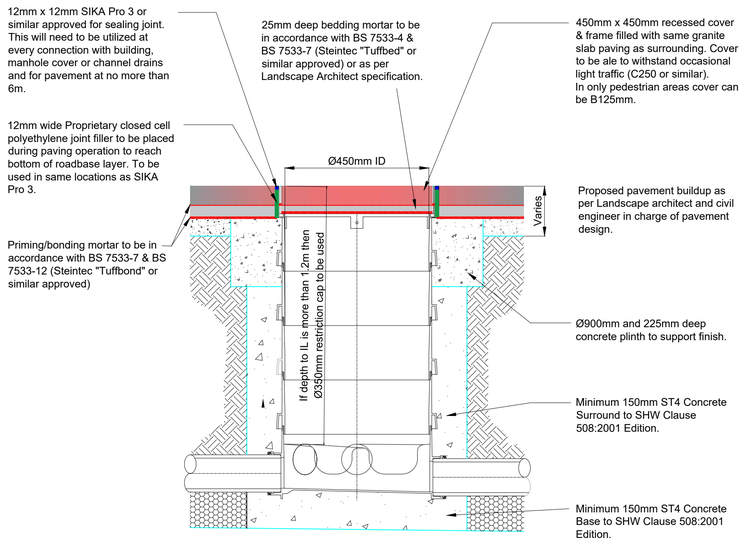
PROTECTION FOR FOUL SEWER CROSSINGS
ABOVE SURFACE WATER SEWERS
(UPVC PIPES)
NOT TO SCALE



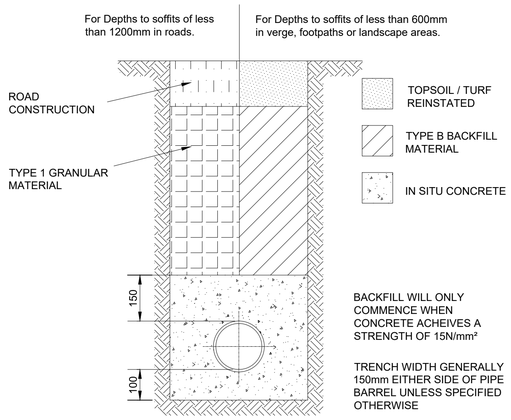
PROTECTION FOR SURFACE WATER SEWER
CROSSINGS ABOVE FOUL SEWERS
(UPVC PIPES)
NOT TO SCALE



TYPICAL INSPECTION CHAMBER DETAIL
(WITHIN PRIVATE LAND)
NOT TO SCALE



Ø450mm SURFACE WATER AND FOUL
INSPECTION CHAMBER TYPICAL
INSTALLATION DETAIL
NOT TO SCALE

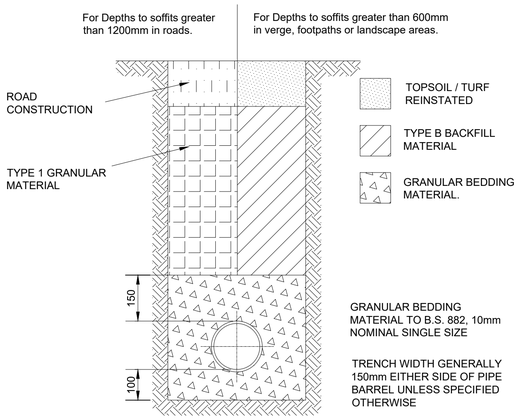


CONCRETE BED AND SURROUND TO BE GEN3 SULPHATE RESISTING WITH FLEXIBLE JOINTS 18mm THICK, AT ALTERNATE PIPE JOINTS.

SELECTED BACKFILL TYPE B AS SPECIFIED BUT GENERALLY LOCALLY EXCAVATED MATERIAL OR IMPORTED, READILY COMPACTIBLE , FREE FROM VEGETABLE MATTER, RUBBISH, FROZEN SOIL, AND MATERIAL RETAINED ON A 37.5mm SEIVE. COMPACTED IN LAYERS OF 150mm.

VERGE/LANDSCAPED AREAS REINSTATED TO MATCH EXISTING . PREPARE AND SEED GROUND TO BE REINSTATED AS SPECIFIED.

CLASS Z BEDDING FOR DRAINAGE PIPES
NOT TO SCALE



GRANULAR BACKFILL MATERIAL DTp TYPE 1. DTp CLAUSES 803 OR 804 RESPECTIVELY OR SUITABLE APPROVED EQUIVALENT COMPACTED IN LAYERS OF 150mm.

SELECTED BACKFILL TYPE B AS SPECIFIED BUT GENERALLY LOCALLY EXCAVATED MATERIAL OR IMPORTED, READILY COMPACTIBLE , FREE FROM VEGETABLE MATTER, RUBBISH, FROZEN SOIL, AND MATERIAL RETAINED ON A 37.5mm SEIVE. COMPACTED IN LAYERS OF 150mm.

VERGE/LANDSCAPED AREAS REINSTATED TO MATCH EXISTING . PREPARE AND SEED GROUND TO BE REINSTATED AS SPECIFIED.

CLASS S BEDDING FOR DRAINAGE PIPES
NOT TO SCALE

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A	23/05/24	N.E	For Information.	S.L	S.L

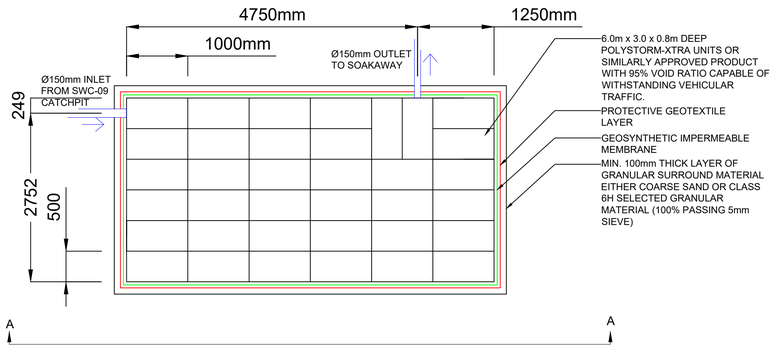
PROJECT:
C3157- Meadow View, Caversham, Reading, RG4 7DX

TITLE:
Proposed Drainage Details - Sheet 01 of 02

CLIENT:
Carney Construction Ltd.

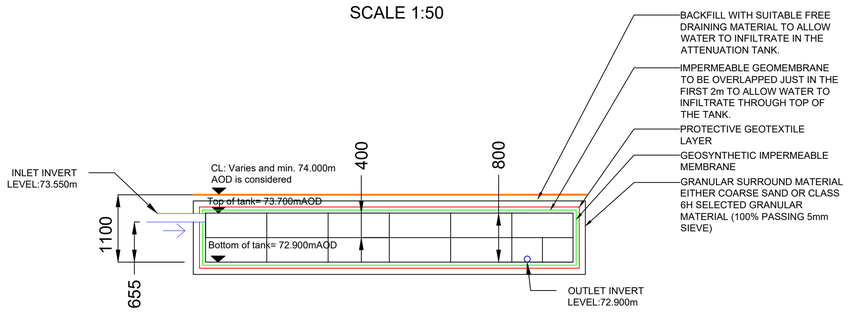
Nimbus ENGINEERING CONSULTANTS
www.nimbusengineering.co.uk
info@nimbusengineering.co.uk

CHECKED BY:	DATE:	APPROVED BY:	DATE:
S.L	23/05/24	S.L	23/05/24
DRN BY: N.E	SCALE: As Stated	DRAWING NUMBER: C3157-06	REV: A
DATE: 23/05/24	SIZE: A1		



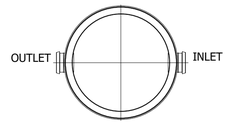
ATTENUATION TANK - PLAN VIEW

SCALE 1:50

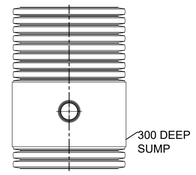


ATTENUATION TANK - SECTION A-A

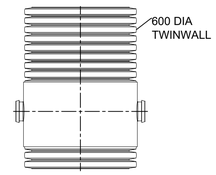
SCALE 1:50



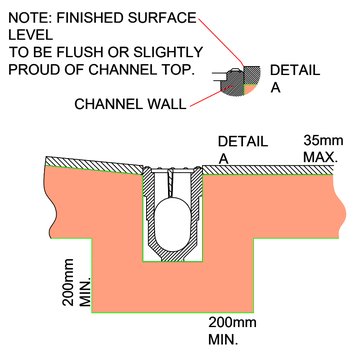
CATCHPIT CHAMBER PLAN
NOT TO SCALE



CATCHPIT CHAMBER ELEVATION
NOT TO SCALE

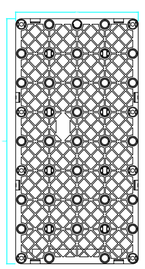


CATCHPIT CHAMBER ELEVATION
NOT TO SCALE

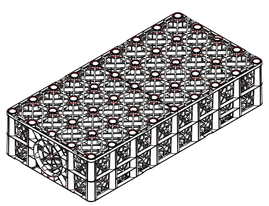


SLOT ROAD DRAIN DETAIL
(FOR USE IN PRIVATE LAND)
NOT TO SCALE

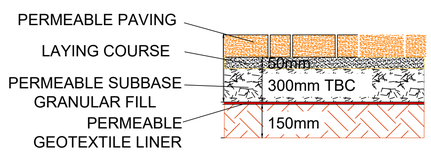
POLYSTORM CELL
Product Code: PSM3



PLAN VIEW
Scale 1:10



ISOMETRIC VIEW
Scale 1:10



PERMEABLE PAVING INDICATIVE CROSS-SECTION (WITHOUT STORAGE)

(SUBBASE DEPTH SHOWN INDICATIVE TBC)

NOT TO SCALE

NOT FOR CONSTRUCTION

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B	17/04/25	M.HAM	For Information.	S.L	S.L
A	23/05/24	N.E	For Information.	S.L	S.L

PROJECT:
C3157- Meadow View, Caversham, Reading, RG4 7DX

TITLE:
Proposed Drainage Details - Sheet 02 of 02

CLIENT:
Carney Construction Ltd.

Nimbus ENGINEERING CONSULTANTS
www.nimbusengineering.co.uk
info@nimbusengineering.co.uk

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S.L	23/05/24	S.L	23/05/24
DRN BY: N.E	SCALE: As Stated	DRAWING NUMBER: C3157-07	REV: B
DATE: 23/05/24	SIZE: A1		

APPENDIX B – HYDRAULIC MODELLING RESULTS

Meadow View, Blagrave Lane, Reading, RG4 7DX:	Date:		
Replacement dwelling 1 in 100 Year Storm event +45% CCA Deepbore Soakaway Full Infiltration	23/05/2024		
	Designed by:	Checked by:	Approved By:
	N.E	S.L	S.L
Report Details:	Company Address:		
Type: Stormwater Controls Storm Phase: Phase	Nimbus Engineering Ltd 124 City Road, London EC1V 2NX		

Deepbore Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	74.150
Depth (m)	19.000
Base Level (m)	55.150
Freeboard (mm)	0
Soakaway Shape	Circular
Diameter / Width (m)	0.150
Porosity (%)	100
Ineffective Storage Depth (m)	8.000
Number of Soakaways	1
Side Infiltration Rate (m/hr)	0.648
Safety Factor	2.0
Total Volume (m³)	0.194

Inlets

Inlet

Incoming Item(s)	DBS
Bypass Destination	(None)
Capacity Type	No Restriction

Att Tank

Type : Cellular Storage

Dimensions

Exceedance Level (m)	74.000
Depth (m)	0.800
Base Level (m)	72.900
Number of Crates Long	6
Number of Crates Wide	6
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	13.980

Inlets

Inlet

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

Outlets

Outlet

Outgoing Connection	SWP-21
Outlet Type	Free Discharge

Meadow View, Blagrave Lane, Reading, RG4 7DX:	Date:		
Replacement dwelling 1 in 100 Year Storm event +45% CCA Deepbore Soakaway Full Infiltration	23/05/2024		
	Designed by:	Checked by:	Approved By:
	N.E	S.L	S.L
Report Details:	Company Address:		
Type: Inflow Summary Storm Phase: Phase	Nimbus Engineering Ltd 124 City Road, London EC1V 2NX		

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	RWP-05		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (1)	Channel Drain 4		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (2)	RWP-06		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (4)	Channel Drain 1		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (5)	Channel Drain 3		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (6)	Channel Drain 2		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (7)	SWC-08		Time of Concentration	0.004	100	0	100	0.004
Roof 01	RWP-01		Time of Concentration	0.003	100	0	100	0.003
Roof 02	RWP-02		Time of Concentration	0.002	100	0	100	0.002
Roof 03	RWP-08		Time of Concentration	0.002	100	0	100	0.002
Roof 04	RWP-03		Time of Concentration	0.002	100	0	100	0.002
Roof 05	RWP-09		Time of Concentration	0.003	100	0	100	0.003
Roof 06	RWP-04		Time of Concentration	0.003	100	0	100	0.003
Roof 07	RWP-10		Time of Concentration	0.002	100	0	100	0.002
TOTAL		**0.0**		**0.040**				**0.040**

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Prefill Manhole Sumps	☐
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	19.0
Ratio R	0.400
Summer	☑
Winter	☑

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.2	0.561
Catchment Area (2)	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.2	0.537
Catchment Area (4)	FSR: 100 years: +45 %: 15 mins: Winter	0.00	2.7	1.257
Catchment Area (5)	FSR: 100 years: +45 %: 15 mins: Winter	0.00	2.5	1.134
Catchment Area (6)	FSR: 100 years: +45 %: 15 mins: Winter	0.01	3.7	1.701
Catchment Area (7)	FSR: 100 years: +45 %: 15 mins: Winter	0.00	2.2	1.011
Roof 06	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.6	0.738
Roof 07	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.4	0.648
Roof 05	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.7	0.774
Roof 04	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.2	0.567
Roof 02	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.3	0.615
Roof 03	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.3	0.615
Roof 01	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.9	0.888
Catchment Area (1)	FSR: 100 years: +45 %: 15 mins: Winter	0.00	0.8	0.381

Meadow View, Blagrave Lane, Reading, RG4 7DX: Replacement dwelling 1 in 100 Year Storm event +45% CCA Deepbore Soakaway Full Infiltration	Date: 23/05/2024 Designed by: N.E / Checked by: S.L / Approved By: S.L	Nimbus ENGINEERING CONSULTANTS
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address: Nimbus Engineering Ltd 124 City Road, London EC1V 2NX	

Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
Channel Drain 1	FSR: 100 years: +45 %: 15 mins: Winter		74.700	74.724	0.024	2.7			2.7	1.256	OK
Channel Drain 2	FSR: 100 years: +45 %: 15 mins: Winter		74.143	74.183	0.040	3.7			3.6	1.700	OK
Channel Drain 3	FSR: 100 years: +45 %: 15 mins: Winter		74.028	74.065	0.037	2.5			2.4	1.133	OK
Channel Drain 4	FSR: 100 years: +45 %: 15 mins: Winter		74.000	74.011	0.011	0.8			0.8	0.380	OK
RWP-05	FSR: 100 years: +45 %: 15 mins: Winter	74.680	74.080	74.101	0.021	1.2	0.000	0.000	1.2	0.560	OK
RWP-06	FSR: 100 years: +45 %: 15 mins: Winter	74.680	74.080	74.117	0.037	1.2	0.000	0.000	1.1	0.535	OK
RWP-02	FSR: 100 years: +45 %: 15 mins: Winter	74.730	74.130	74.160	0.030	1.3	0.000	0.000	1.3	0.613	OK
RWP-03	FSR: 100 years: +45 %: 15 mins: Winter	74.730	73.970	73.998	0.028	1.2	0.000	0.000	1.2	0.565	OK
RWP-01	FSR: 100 years: +45 %: 15 mins: Winter	74.730	74.130	74.168	0.038	1.9	0.000	0.000	1.9	0.886	OK
RWP-07	FSR: 100 years: +45 %: 15 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
RWP-04	FSR: 100 years: +45 %: 15 mins: Winter	74.730	74.130	74.149	0.019	1.6	0.000	0.000	1.6	0.737	OK
RWP-09	FSR: 100 years: +45 %: 15 mins: Winter	74.730	74.130	74.146	0.016	1.7	0.000	0.000	1.7	0.773	OK
RWP-10	FSR: 100 years: +45 %: 15 mins: Winter	74.730	73.780	73.865	0.085	1.4	0.000	0.000	1.1	0.647	OK
RWP-08	FSR: 100 years: +45 %: 15 mins: Winter	74.730	74.080	74.105	0.025	1.3	0.000	0.000	1.3	0.614	OK
SWC-01	FSR: 100 years: +45 %: 15 mins: Winter	74.770	74.032	74.096	0.064	5.8	0.010	0.000	5.7	2.753	OK
SWC-02	FSR: 100 years: +45 %: 15 mins: Winter	74.670	74.007	74.060	0.053	6.9	0.008	0.000	6.8	3.310	OK
SWC-03	FSR: 100 years: +45 %: 15 mins: Winter	74.650	73.930	73.981	0.051	3.6	0.008	0.000	3.2	1.695	OK
SWC-04	FSR: 100 years: +45 %: 15 mins: Winter	74.650	74.067	74.113	0.046	4.7	0.007	0.000	4.6	2.233	OK
SWC-05	FSR: 100 years: +45 %: 15 mins: Winter	74.700	73.821	73.964	0.143	14.6	0.023	0.000	13.6	7.233	OK

SWC-06	FSR: 100 years: +45 %: 15 mins: Winter	74.700	73.773	73.926	0.153	16.0	0.024	0.000	15.1	8.345	Surcharged
SWC-07	FSR: 100 years: +45 %: 15 mins: Winter	74.700	73.714	73.864	0.150	16.2	0.024	0.000	15.9	8.985	Surcharged
SWC-08	FSR: 100 years: +45 %: 15 mins: Winter	74.600	73.929	73.956	0.028	3.5	0.004	0.000	3.4	1.624	OK
SWC-09	FSR: 100 years: +45 %: 120 mins: Winter	74.550	73.610	73.829	0.219	7.8	0.062	0.000	7.8	22.831	Surcharged
Simple Junction	FSR: 100 years: +45 %: 120 mins: Winter		73.680	73.829	0.149	6.7			6.7	19.592	OK
Deepbore Soakaway Manhole	FSR: 100 years: +45 %: 120 mins: Winter	74.150	71.150	73.829	2.679	3.4	3.030	0.000	1.9	10.584	OK

Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Att Tank	FSR: 100 years: +45 %: 120 mins: Winter	73.829	73.829	0.929	0.929	7.8	13.809	0.000	0.000	3.4	13.342	1.223	OK
Deepbore Soakaway	FSR: 100 years: +45 %: 180 mins: Winter	73.843	73.843	18.693	18.693	2.2	0.331	0.000	15.531	0.0	0.000	-70.120	OK

Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
SWP-01	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.168	0.051	0.886	0.5	0.31	1.9	OK
d1	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.724	0.044	1.256	0.8	0.13	2.7	OK
SWP-02	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.160	0.047	0.613	0.4	0.2	1.3	OK
SWP-03	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.096	0.058	2.753	0.9	0.32	5.7	OK
SWP-04	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.101	0.037	0.560	0.5	0.1	1.2	OK
d2	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.065	0.044	1.133	0.7	0.25	2.4	OK
SWP-05	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.998	0.040	0.565	0.4	0.18	1.2	OK
SWP-06	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.117	0.041	0.535	0.4	0.16	1.1	OK
SWP-07	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.113	0.095	2.233	0.6	0.44	4.6	OK
SWP-08	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.060	0.098	3.310	0.6	0.27	6.8	OK
SWP-09	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.979	0.089	1.515	0.4	0.49	3.3	OK
SWP-10	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.149	0.086	0.737	0.2	0.09	1.6	OK
d4	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.011	0.082	0.380	0.1	0.03	0.8	OK
SWP-11	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.964	0.148	7.233	0.8	0.76	13.6	OK

SWP-12	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.926	0.150	8.345	0.9	0.85	15.1	Surcharged
SWP-13	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.865	0.100	0.647	0.2	0.07	1.1	OK
SWP-14	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.013	0.000	0.0	0	0.0	OK
SWP-15	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.105	0.026	0.614	0.8	0.13	1.3	OK
d3	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.183	0.043	1.700	1.1	0.22	3.6	OK
SWP-16	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.956	0.070	1.624	0.6	0.17	3.4	OK
SWP-17	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.723	0.100	11.367	1.6	0.63	20.5	OK
SWP-18	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.864	0.143	8.985	0.9	0.89	15.9	Surcharged
SWP-19	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.815	0.124	9.750	1.1	0.97	17.2	OK
SWP-20	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.146	0.076	0.773	0.3	0.07	1.7	OK
SWP-21	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.347	0.100	3.919	1.2	1.38	9.4	Surcharged
DBS	FSR: 100 years: +45 %: 240 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.731	0.038	21.050	0.0		2.2	

Phase
FSR: 100 years: Increase Rainfall (%): +45: 15 mins: Summer

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
TOTAL	23.5	10.212	0.0	0.000

Deepbore Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	74.150
Depth (m)	19.000
Base Level (m)	55.150
Freeboard (mm)	0
Soakaway Shape	Circular
Diameter / Width (m)	0.150
Porosity (%)	100
Ineffective Storage Depth (m)	8.000
Number of Soakaways	1
Side Infiltration Rate (m/hr)	0.648
Safety Factor	2.0
Total Volume (m³)	0.194

Inlets

Inlet

Incoming Item(s)	DBS
Bypass Destination	(None)
Capacity Type	No Restriction

Att Tank

Type : Cellular Storage

Dimensions

Exceedance Level (m)	74.000
Depth (m)	0.800
Base Level (m)	72.900
Number of Crates Long	6
Number of Crates Wide	6
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	13.980

Inlets

Inlet

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

Outlets

Outlet

Outgoing Connection	SWP-21
Outlet Type	Free Discharge

Meadow View, Blagrave Lane, Reading, RG4 7DX:	Date:		
Replacement dwelling 1 in 100 Year Storm event +45% CCA Deepbore Soakaway Full Infiltration	23/05/2024		
	Designed by:	Checked by:	Approved By:
	N.E	S.L	S.L
Report Details:	Company Address:		
Type: Inflow Summary Storm Phase: Phase	Nimbus Engineering Ltd 124 City Road, London EC1V 2NX		

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	RWP-05		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (1)	Channel Drain 4		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (2)	RWP-06		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (4)	Channel Drain 1		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (5)	Channel Drain 3		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (6)	Channel Drain 2		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (7)	SWC-08		Time of Concentration	0.004	100	0	100	0.004
Roof 01	RWP-01		Time of Concentration	0.003	100	0	100	0.003
Roof 02	RWP-02		Time of Concentration	0.002	100	0	100	0.002
Roof 03	RWP-08		Time of Concentration	0.002	100	0	100	0.002
Roof 04	RWP-03		Time of Concentration	0.002	100	0	100	0.002
Roof 05	RWP-09		Time of Concentration	0.003	100	0	100	0.003
Roof 06	RWP-04		Time of Concentration	0.003	100	0	100	0.003
Roof 07	RWP-10		Time of Concentration	0.002	100	0	100	0.002
TOTAL		**0.0**		**0.040**				**0.040**

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Prefill Manhole Sumps	☐
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	19.0
Ratio R	0.400
Summer	☑
Winter	☑

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

Summary Results for Catchment Area: Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	1.1	0.501
FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.2	0.561
FSR: 100 years: +45 %: 30 mins: Summer	0.00	0.8	0.654
FSR: 100 years: +45 %: 30 mins: Winter	0.00	0.8	0.738
FSR: 100 years: +45 %: 60 mins: Summer	0.00	0.7	0.828
FSR: 100 years: +45 %: 60 mins: Winter	0.00	0.6	0.918
FSR: 100 years: +45 %: 120 mins: Summer	0.00	0.5	0.996
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.4	1.122
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.4	1.098
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.3	1.236
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.3	1.170
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.2	1.314
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.2	1.284
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.2	1.440

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.2	1.386
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.1	1.506
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.2	1.422
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.1	1.596
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.1	1.446
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.1	1.686
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.1	1.560
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.1	1.704
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.1	1.776
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.1	1.902
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.1	1.968
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.0	2.196
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.0	1.830
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.0	2.358
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.0	1.710
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	2.016
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.0	1.722

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	2.142
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	1.644
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	1.908
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	1.758
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	1.974
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	1.692
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	2.178

Summary Results for Catchment Area (2): Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	1.1	0.483
FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.2	0.537
FSR: 100 years: +45 %: 30 mins: Summer	0.00	0.7	0.636
FSR: 100 years: +45 %: 30 mins: Winter	0.00	0.8	0.708
FSR: 100 years: +45 %: 60 mins: Summer	0.00	0.6	0.792
FSR: 100 years: +45 %: 60 mins: Winter	0.00	0.6	0.894
FSR: 100 years: +45 %: 120 mins: Summer	0.00	0.5	0.966
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.4	1.086
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.4	1.056
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.3	1.170
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.3	1.140
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.2	1.272
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.2	1.242
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.2	1.386

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.2	1.326
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.1	1.446
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.2	1.350
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.1	1.554
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.1	1.404
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.1	1.626
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.1	1.500
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.1	1.638
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.1	1.722
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.0	1.830
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.0	1.860
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.0	2.106
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.0	1.728
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.0	2.310
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.0	1.656
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	1.920
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.0	1.590

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	2.010
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	1.638
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	1.812
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	1.560
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	1.968
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	1.572
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	2.058

Summary Results for Catchment Area (4): Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	2.6	1.128
FSR: 100 years: +45 %: 15 mins: Winter	0.00	2.7	1.257
FSR: 100 years: +45 %: 30 mins: Summer	0.00	1.7	1.482
FSR: 100 years: +45 %: 30 mins: Winter	0.00	1.8	1.656
FSR: 100 years: +45 %: 60 mins: Summer	0.00	1.5	1.854
FSR: 100 years: +45 %: 60 mins: Winter	0.00	1.3	2.070
FSR: 100 years: +45 %: 120 mins: Summer	0.00	1.1	2.244
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.9	2.508
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.8	2.472
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.6	2.772
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.7	2.646
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.5	2.964
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.5	2.892
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.4	3.264

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.4	3.078
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.3	3.414
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.3	3.192
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.3	3.570
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.3	3.342
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.2	3.750
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.2	3.522
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.2	3.942
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.2	3.864
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.1	4.254
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.1	4.086
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.1	4.746
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.1	4.362
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.1	4.800
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.1	5.028
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	5.346
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.1	5.388

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	5.880
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	5.094
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	6.222
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	4.878
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	6.636
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	4.830
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	5.676

Summary Results for Catchment Area (5): Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	2.3	1.014
FSR: 100 years: +45 %: 15 mins: Winter	0.00	2.5	1.134
FSR: 100 years: +45 %: 30 mins: Summer	0.00	1.5	1.332
FSR: 100 years: +45 %: 30 mins: Winter	0.00	1.6	1.494
FSR: 100 years: +45 %: 60 mins: Summer	0.00	1.3	1.674
FSR: 100 years: +45 %: 60 mins: Winter	0.00	1.2	1.866
FSR: 100 years: +45 %: 120 mins: Summer	0.00	1.0	2.016
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.8	2.262
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.8	2.244
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.6	2.502
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.6	2.394
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.5	2.682
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.5	2.610
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.3	2.910

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.4	2.748
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.3	3.102
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.3	2.892
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.2	3.246
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.3	3.018
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.2	3.354
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.2	3.204
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.2	3.582
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.2	3.426
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.1	3.870
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.1	3.684
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.1	4.080
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.1	4.008
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.1	4.350
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.1	4.722
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	4.974
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.0	4.488

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	5.388
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	4.326
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	5.790
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	4.248
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	4.980
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	4.110
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	4.722

Summary Results for Catchment Area (6): Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.01	3.5	1.521
FSR: 100 years: +45 %: 15 mins: Winter	0.01	3.7	1.701
FSR: 100 years: +45 %: 30 mins: Summer	0.01	2.3	1.998
FSR: 100 years: +45 %: 30 mins: Winter	0.01	2.4	2.244
FSR: 100 years: +45 %: 60 mins: Summer	0.01	2.0	2.514
FSR: 100 years: +45 %: 60 mins: Winter	0.01	1.8	2.808
FSR: 100 years: +45 %: 120 mins: Summer	0.01	1.4	3.036
FSR: 100 years: +45 %: 120 mins: Winter	0.01	1.2	3.402
FSR: 100 years: +45 %: 180 mins: Summer	0.01	1.1	3.360
FSR: 100 years: +45 %: 180 mins: Winter	0.01	0.9	3.768
FSR: 100 years: +45 %: 240 mins: Summer	0.01	0.9	3.582
FSR: 100 years: +45 %: 240 mins: Winter	0.01	0.7	4.002
FSR: 100 years: +45 %: 360 mins: Summer	0.01	0.7	3.900
FSR: 100 years: +45 %: 360 mins: Winter	0.01	0.5	4.344

FSR: 100 years: +45 %: 480 mins: Summer	0.01	0.6	4.146
FSR: 100 years: +45 %: 480 mins: Winter	0.01	0.4	4.620
FSR: 100 years: +45 %: 600 mins: Summer	0.01	0.5	4.332
FSR: 100 years: +45 %: 600 mins: Winter	0.01	0.3	4.842
FSR: 100 years: +45 %: 720 mins: Summer	0.01	0.4	4.530
FSR: 100 years: +45 %: 720 mins: Winter	0.01	0.3	5.034
FSR: 100 years: +45 %: 960 mins: Summer	0.01	0.3	4.782
FSR: 100 years: +45 %: 960 mins: Winter	0.01	0.2	5.364
FSR: 100 years: +45 %: 1440 mins: Summer	0.01	0.2	5.160
FSR: 100 years: +45 %: 1440 mins: Winter	0.01	0.2	5.802
FSR: 100 years: +45 %: 2160 mins: Summer	0.01	0.2	5.664
FSR: 100 years: +45 %: 2160 mins: Winter	0.01	0.1	6.234
FSR: 100 years: +45 %: 2880 mins: Summer	0.01	0.1	5.784
FSR: 100 years: +45 %: 2880 mins: Winter	0.01	0.1	6.750
FSR: 100 years: +45 %: 4320 mins: Summer	0.01	0.1	6.420
FSR: 100 years: +45 %: 4320 mins: Winter	0.01	0.1	7.014
FSR: 100 years: +45 %: 5760 mins: Summer	0.01	0.1	7.050

FSR: 100 years: +45 %: 5760 mins: Winter	0.01	0.1	7.542
FSR: 100 years: +45 %: 7200 mins: Summer	0.01	0.1	7.608
FSR: 100 years: +45 %: 7200 mins: Winter	0.01	0.0	8.046
FSR: 100 years: +45 %: 8640 mins: Summer	0.01	0.1	7.878
FSR: 100 years: +45 %: 8640 mins: Winter	0.01	0.0	8.700
FSR: 100 years: +45 %: 10080 mins: Summer	0.01	0.0	7.386
FSR: 100 years: +45 %: 10080 mins: Winter	0.01	0.0	8.952

Summary Results for Catchment Area (7): Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	2.1	0.903
FSR: 100 years: +45 %: 15 mins: Winter	0.00	2.2	1.011
FSR: 100 years: +45 %: 30 mins: Summer	0.00	1.4	1.188
FSR: 100 years: +45 %: 30 mins: Winter	0.00	1.4	1.326
FSR: 100 years: +45 %: 60 mins: Summer	0.00	1.2	1.488
FSR: 100 years: +45 %: 60 mins: Winter	0.00	1.1	1.674
FSR: 100 years: +45 %: 120 mins: Summer	0.00	0.9	1.800
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.7	2.022
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.7	2.004
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.5	2.220
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.6	2.118
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.4	2.376
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.4	2.322
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.3	2.598

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.3	2.454
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.2	2.754
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.3	2.580
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.2	2.910
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.2	2.652
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.2	3.000
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.2	2.868
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.1	3.150
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.1	3.042
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.1	3.516
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.1	3.288
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.1	3.624
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.1	3.654
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.1	3.936
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.1	4.050
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	4.452
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.0	3.804

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	4.842
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	3.630
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	4.410
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	3.624
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	4.146
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	3.624
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	4.236

Summary Results for Roof 06: Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	1.5	0.660
FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.6	0.738
FSR: 100 years: +45 %: 30 mins: Summer	0.00	1.0	0.864
FSR: 100 years: +45 %: 30 mins: Winter	0.00	1.0	0.966
FSR: 100 years: +45 %: 60 mins: Summer	0.00	0.9	1.080
FSR: 100 years: +45 %: 60 mins: Winter	0.00	0.8	1.212
FSR: 100 years: +45 %: 120 mins: Summer	0.00	0.6	1.302
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.5	1.470
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.5	1.464
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.4	1.638
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.4	1.560
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.3	1.716
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.3	1.704
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.2	1.896

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.2	1.770
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.2	2.016
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.2	1.884
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.2	2.136
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.2	1.974
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.1	2.172
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.1	2.052
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.1	2.352
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.1	2.220
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.1	2.436
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.1	2.592
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.0	2.742
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.1	2.808
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.0	2.970
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.0	2.538
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	3.372
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.0	2.424

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	2.766
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	2.412
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	2.940
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	2.382
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	3.006
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	2.304
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	2.670

Summary Results for Roof 07: Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	1.3	0.579
FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.4	0.648
FSR: 100 years: +45 %: 30 mins: Summer	0.00	0.9	0.762
FSR: 100 years: +45 %: 30 mins: Winter	0.00	0.9	0.852
FSR: 100 years: +45 %: 60 mins: Summer	0.00	0.8	0.948
FSR: 100 years: +45 %: 60 mins: Winter	0.00	0.7	1.068
FSR: 100 years: +45 %: 120 mins: Summer	0.00	0.6	1.158
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.4	1.290
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.4	1.284
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.3	1.434
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.3	1.350
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.3	1.536
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.3	1.476
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.2	1.662

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.2	1.572
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.2	1.770
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.2	1.686
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.1	1.842
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.2	1.704
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.1	1.926
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.1	1.776
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.1	2.076
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.1	1.992
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.1	2.172
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.1	2.334
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.0	2.490
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.0	2.244
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.0	2.700
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.0	2.124
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	2.484
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.0	2.070

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	2.484
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	1.986
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	2.508
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	1.968
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	2.280
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	2.052
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	2.418

Summary Results for Roof 05: Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	1.6	0.690
FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.7	0.774
FSR: 100 years: +45 %: 30 mins: Summer	0.00	1.0	0.906
FSR: 100 years: +45 %: 30 mins: Winter	0.00	1.1	1.014
FSR: 100 years: +45 %: 60 mins: Summer	0.00	0.9	1.134
FSR: 100 years: +45 %: 60 mins: Winter	0.00	0.8	1.278
FSR: 100 years: +45 %: 120 mins: Summer	0.00	0.7	1.386
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.5	1.554
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.5	1.530
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.4	1.710
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.4	1.626
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.3	1.836
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.3	1.782
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.2	1.974

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.3	1.878
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.2	2.094
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.2	1.974
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.2	2.220
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.2	2.088
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.1	2.250
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.2	2.142
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.1	2.460
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.1	2.346
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.1	2.562
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.1	2.652
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.1	2.850
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.1	3.006
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.0	3.078
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.0	2.742
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	3.528
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.0	2.556

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	2.976
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	2.592
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	3.108
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	2.490
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	3.114
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	2.538
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	3.138

Summary Results for Roof 04: Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	1.2	0.507
FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.2	0.567
FSR: 100 years: +45 %: 30 mins: Summer	0.00	0.8	0.666
FSR: 100 years: +45 %: 30 mins: Winter	0.00	0.8	0.750
FSR: 100 years: +45 %: 60 mins: Summer	0.00	0.7	0.840
FSR: 100 years: +45 %: 60 mins: Winter	0.00	0.6	0.936
FSR: 100 years: +45 %: 120 mins: Summer	0.00	0.5	1.014
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.4	1.140
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.4	1.128
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.3	1.254
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.3	1.194
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.2	1.326
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.2	1.290
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.2	1.446

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.2	1.416
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.1	1.524
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.2	1.440
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.1	1.608
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.1	1.482
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.1	1.716
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.1	1.572
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.1	1.752
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.1	1.800
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.1	1.920
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.1	2.022
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.0	2.196
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.0	1.866
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.0	2.418
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.0	1.764
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	2.028
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.0	1.728

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	2.208
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	1.644
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	1.992
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	1.764
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	2.070
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	1.698
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	2.178

Summary Results for Roof 02: Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	1.3	0.549
FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.3	0.615
FSR: 100 years: +45 %: 30 mins: Summer	0.00	0.8	0.720
FSR: 100 years: +45 %: 30 mins: Winter	0.00	0.9	0.810
FSR: 100 years: +45 %: 60 mins: Summer	0.00	0.7	0.906
FSR: 100 years: +45 %: 60 mins: Winter	0.00	0.6	1.014
FSR: 100 years: +45 %: 120 mins: Summer	0.00	0.5	1.104
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.4	1.230
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.4	1.218
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.3	1.356
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.3	1.290
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.3	1.440
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.3	1.398
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.2	1.554

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.2	1.494
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.2	1.704
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.2	1.584
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.1	1.752
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.2	1.614
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.1	1.842
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.1	1.722
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.1	1.896
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.1	1.938
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.1	2.088
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.1	2.274
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.0	2.316
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.0	2.112
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.0	2.562
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.0	2.016
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	2.238
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.0	1.938

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	2.352
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	1.818
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	2.334
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	1.968
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	2.172
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	1.818
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	2.298

Summary Results for Roof 03: Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	1.3	0.546
FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.3	0.615
FSR: 100 years: +45 %: 30 mins: Summer	0.00	0.8	0.720
FSR: 100 years: +45 %: 30 mins: Winter	0.00	0.9	0.804
FSR: 100 years: +45 %: 60 mins: Summer	0.00	0.7	0.906
FSR: 100 years: +45 %: 60 mins: Winter	0.00	0.6	1.008
FSR: 100 years: +45 %: 120 mins: Summer	0.00	0.5	1.104
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.4	1.218
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.4	1.212
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.3	1.350
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.3	1.278
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.3	1.440
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.3	1.398
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.2	1.554

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.2	1.494
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.2	1.692
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.2	1.578
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.1	1.752
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.2	1.602
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.1	1.830
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.1	1.716
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.1	1.890
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.1	1.902
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.1	2.076
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.1	2.250
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.0	2.316
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.0	2.112
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.0	2.556
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.0	1.920
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	2.232
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.0	1.938

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	2.352
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	1.818
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	2.334
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	1.968
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	2.076
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	1.818
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	2.298

Summary Results for Roof 01: Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	1.8	0.786
FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.9	0.888
FSR: 100 years: +45 %: 30 mins: Summer	0.00	1.2	1.038
FSR: 100 years: +45 %: 30 mins: Winter	0.00	1.3	1.164
FSR: 100 years: +45 %: 60 mins: Summer	0.00	1.0	1.296
FSR: 100 years: +45 %: 60 mins: Winter	0.00	0.9	1.458
FSR: 100 years: +45 %: 120 mins: Summer	0.00	0.8	1.584
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.6	1.764
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.6	1.746
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.4	1.950
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.5	1.860
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.4	2.076
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.4	2.010
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.3	2.292

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.3	2.166
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.2	2.424
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.3	2.256
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.2	2.526
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.2	2.328
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.2	2.652
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.2	2.508
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.1	2.772
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.1	2.640
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.1	3.114
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.1	2.958
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.1	3.192
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.1	3.282
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.0	3.522
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.0	3.360
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	3.996
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.0	3.180

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	4.218
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	3.024
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	3.540
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	3.012
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	3.630
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	3.018
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	3.744

Summary Results for Catchment Area (1): Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FSR: 100 years: +45 %: 15 mins: Summer	0.00	0.8	0.345
FSR: 100 years: +45 %: 15 mins: Winter	0.00	0.8	0.381
FSR: 100 years: +45 %: 30 mins: Summer	0.00	0.5	0.450
FSR: 100 years: +45 %: 30 mins: Winter	0.00	0.6	0.504
FSR: 100 years: +45 %: 60 mins: Summer	0.00	0.4	0.558
FSR: 100 years: +45 %: 60 mins: Winter	0.00	0.4	0.636
FSR: 100 years: +45 %: 120 mins: Summer	0.00	0.3	0.684
FSR: 100 years: +45 %: 120 mins: Winter	0.00	0.3	0.774
FSR: 100 years: +45 %: 180 mins: Summer	0.00	0.3	0.756
FSR: 100 years: +45 %: 180 mins: Winter	0.00	0.2	0.834
FSR: 100 years: +45 %: 240 mins: Summer	0.00	0.2	0.804
FSR: 100 years: +45 %: 240 mins: Winter	0.00	0.2	0.918
FSR: 100 years: +45 %: 360 mins: Summer	0.00	0.2	0.876
FSR: 100 years: +45 %: 360 mins: Winter	0.00	0.1	0.978

FSR: 100 years: +45 %: 480 mins: Summer	0.00	0.1	0.930
FSR: 100 years: +45 %: 480 mins: Winter	0.00	0.1	1.068
FSR: 100 years: +45 %: 600 mins: Summer	0.00	0.1	0.966
FSR: 100 years: +45 %: 600 mins: Winter	0.00	0.1	1.068
FSR: 100 years: +45 %: 720 mins: Summer	0.00	0.1	1.026
FSR: 100 years: +45 %: 720 mins: Winter	0.00	0.1	1.116
FSR: 100 years: +45 %: 960 mins: Summer	0.00	0.1	1.146
FSR: 100 years: +45 %: 960 mins: Winter	0.00	0.0	1.212
FSR: 100 years: +45 %: 1440 mins: Summer	0.00	0.0	1.218
FSR: 100 years: +45 %: 1440 mins: Winter	0.00	0.0	1.398
FSR: 100 years: +45 %: 2160 mins: Summer	0.00	0.0	1.104
FSR: 100 years: +45 %: 2160 mins: Winter	0.00	0.0	1.344
FSR: 100 years: +45 %: 2880 mins: Summer	0.00	0.0	1.074
FSR: 100 years: +45 %: 2880 mins: Winter	0.00	0.0	1.278
FSR: 100 years: +45 %: 4320 mins: Summer	0.00	0.0	1.086
FSR: 100 years: +45 %: 4320 mins: Winter	0.00	0.0	1.296
FSR: 100 years: +45 %: 5760 mins: Summer	0.00	0.0	1.038

FSR: 100 years: +45 %: 5760 mins: Winter	0.00	0.0	1.314
FSR: 100 years: +45 %: 7200 mins: Summer	0.00	0.0	0.954
FSR: 100 years: +45 %: 7200 mins: Winter	0.00	0.0	1.386
FSR: 100 years: +45 %: 8640 mins: Summer	0.00	0.0	1.038
FSR: 100 years: +45 %: 8640 mins: Winter	0.00	0.0	1.452
FSR: 100 years: +45 %: 10080 mins: Summer	0.00	0.0	1.086
FSR: 100 years: +45 %: 10080 mins: Winter	0.00	0.0	1.452

Summary Results for Channel Drain 1: Rank By: Max. Depth

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: +45 %: 15 mins: Summer		74.700	74.724	0.024	2.6			2.6	1.127	OK
FSR: 100 years: +45 %: 15 mins: Winter		74.700	74.724	0.024	2.7			2.7	1.256	OK
FSR: 100 years: +45 %: 30 mins: Summer		74.700	74.719	0.019	1.7			1.7	1.482	OK
FSR: 100 years: +45 %: 30 mins: Winter		74.700	74.720	0.020	1.8			1.8	1.656	OK
FSR: 100 years: +45 %: 60 mins: Summer		74.700	74.718	0.018	1.5			1.5	1.854	OK
FSR: 100 years: +45 %: 60 mins: Winter		74.700	74.717	0.017	1.3			1.3	2.070	OK
FSR: 100 years: +45 %: 120 mins: Summer		74.700	74.715	0.015	1.1			1.1	2.244	OK
FSR: 100 years: +45 %: 120 mins: Winter		74.700	74.714	0.014	0.9			0.9	2.508	OK
FSR: 100 years: +45 %: 180 mins: Summer		74.700	74.714	0.014	0.8			0.8	2.472	OK
FSR: 100 years: +45 %: 180 mins: Winter		74.700	74.712	0.012	0.6			0.6	2.772	OK
FSR: 100 years: +45 %: 240 mins: Summer		74.700	74.713	0.013	0.7			0.7	2.646	OK
FSR: 100 years: +45 %: 240 mins: Winter		74.700	74.711	0.011	0.5			0.5	2.964	OK
FSR: 100 years: +45 %: 360 mins: Summer		74.700	74.711	0.011	0.5			0.5	2.892	OK
FSR: 100 years: +45 %: 360 mins: Winter		74.700	74.709	0.009	0.4			0.4	3.264	OK
FSR: 100 years: +45 %: 480 mins: Summer		74.700	74.710	0.010	0.4			0.4	3.078	OK
FSR: 100 years: +45 %: 480 mins: Winter		74.700	74.708	0.008	0.3			0.3	3.414	OK
FSR: 100 years: +45 %: 600 mins: Summer		74.700	74.709	0.009	0.3			0.3	3.192	OK
FSR: 100 years: +45 %: 600 mins: Winter		74.700	74.708	0.008	0.3			0.3	3.570	OK
FSR: 100 years: +45 %: 720 mins: Summer		74.700	74.708	0.008	0.3			0.3	3.342	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.700	74.707	0.007	0.2	0.2	3.750	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.700	74.708	0.008	0.2	0.2	3.522	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.700	74.707	0.007	0.2	0.2	3.942	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.700	74.707	0.007	0.2	0.2	3.864	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.700	74.706	0.006	0.1	0.1	4.254	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.700	74.706	0.006	0.1	0.1	4.086	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.700	74.705	0.005	0.1	0.1	4.746	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.700	74.705	0.005	0.1	0.1	4.362	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.700	74.704	0.004	0.1	0.1	4.800	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.700	74.704	0.004	0.1	0.1	5.028	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.700	74.703	0.003	0.0	0.1	5.346	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.700	74.703	0.003	0.1	0.1	5.388	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.700	74.703	0.003	0.0	0.0	5.880	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.700	74.703	0.003	0.0	0.1	5.094	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.700	74.702	0.002	0.0	0.0	6.222	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.700	74.703	0.003	0.0	0.0	4.878	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.700	74.702	0.002	0.0	0.0	6.636	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.700	74.703	0.003	0.0	0.0	4.830	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.700	74.702	0.002	0.0	0.0	5.676	OK

Summary Results for Channel Drain 2: Rank By: Max. Depth

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: +45 %: 15 mins: Summer		74.143	74.181	0.038	3.5			3.4	1.520	OK
FSR: 100 years: +45 %: 15 mins: Winter		74.143	74.183	0.040	3.7			3.6	1.700	OK
FSR: 100 years: +45 %: 30 mins: Summer		74.143	74.173	0.030	2.3			2.3	1.998	OK
FSR: 100 years: +45 %: 30 mins: Winter		74.143	74.174	0.031	2.4			2.4	2.244	OK
FSR: 100 years: +45 %: 60 mins: Summer		74.143	74.170	0.027	2.0			2.0	2.514	OK
FSR: 100 years: +45 %: 60 mins: Winter		74.143	74.169	0.026	1.8			1.8	2.808	OK
FSR: 100 years: +45 %: 120 mins: Summer		74.143	74.166	0.023	1.4			1.4	3.036	OK
FSR: 100 years: +45 %: 120 mins: Winter		74.143	74.163	0.020	1.2			1.2	3.402	OK
FSR: 100 years: +45 %: 180 mins: Summer		74.143	74.162	0.019	1.1			1.1	3.360	OK
FSR: 100 years: +45 %: 180 mins: Winter		74.143	74.160	0.017	0.9			0.9	3.768	OK
FSR: 100 years: +45 %: 240 mins: Summer		74.143	74.161	0.018	0.9			0.9	3.582	OK
FSR: 100 years: +45 %: 240 mins: Winter		74.143	74.158	0.015	0.7			0.7	4.002	OK
FSR: 100 years: +45 %: 360 mins: Summer		74.143	74.158	0.015	0.7			0.7	3.900	OK
FSR: 100 years: +45 %: 360 mins: Winter		74.143	74.156	0.013	0.5			0.5	4.344	OK
FSR: 100 years: +45 %: 480 mins: Summer		74.143	74.156	0.013	0.6			0.6	4.146	OK
FSR: 100 years: +45 %: 480 mins: Winter		74.143	74.154	0.011	0.4			0.4	4.620	OK
FSR: 100 years: +45 %: 600 mins: Summer		74.143	74.155	0.012	0.5			0.5	4.332	OK
FSR: 100 years: +45 %: 600 mins: Winter		74.143	74.153	0.010	0.3			0.3	4.842	OK
FSR: 100 years: +45 %: 720 mins: Summer		74.143	74.154	0.011	0.4			0.4	4.530	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.143	74.153	0.010	0.3	0.3	5.034	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.143	74.153	0.010	0.3	0.3	4.782	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.143	74.152	0.009	0.2	0.2	5.364	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.143	74.152	0.009	0.2	0.2	5.160	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.143	74.150	0.007	0.2	0.2	5.802	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.143	74.150	0.007	0.2	0.2	5.663	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.143	74.149	0.006	0.1	0.1	6.233	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.143	74.149	0.006	0.1	0.1	5.783	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.143	74.149	0.006	0.1	0.1	6.749	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.143	74.149	0.006	0.1	0.1	6.419	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.143	74.148	0.005	0.1	0.1	7.013	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.143	74.148	0.005	0.1	0.1	7.049	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.143	74.148	0.005	0.1	0.1	7.541	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.143	74.148	0.005	0.1	0.1	7.607	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.143	74.147	0.004	0.0	0.1	8.045	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.143	74.148	0.005	0.1	0.1	7.877	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.143	74.147	0.004	0.0	0.0	8.699	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.143	74.147	0.004	0.0	0.1	7.385	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.143	74.147	0.004	0.0	0.0	8.951	OK

Summary Results for Channel Drain 3: Rank By: Max. Depth

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: +45 %: 15 mins: Summer		74.028	74.064	0.035	2.3			2.3	1.013	OK
FSR: 100 years: +45 %: 15 mins: Winter		74.028	74.065	0.037	2.5			2.4	1.133	OK
FSR: 100 years: +45 %: 30 mins: Summer		74.028	74.056	0.028	1.5			1.5	1.331	OK
FSR: 100 years: +45 %: 30 mins: Winter		74.028	74.057	0.029	1.6			1.6	1.493	OK
FSR: 100 years: +45 %: 60 mins: Summer		74.028	74.054	0.026	1.3			1.3	1.673	OK
FSR: 100 years: +45 %: 60 mins: Winter		74.028	74.053	0.024	1.2			1.2	1.865	OK
FSR: 100 years: +45 %: 120 mins: Summer		74.028	74.050	0.022	1.0			1.0	2.015	OK
FSR: 100 years: +45 %: 120 mins: Winter		74.028	74.048	0.019	0.8			0.8	2.261	OK
FSR: 100 years: +45 %: 180 mins: Summer		74.028	74.047	0.019	0.8			0.8	2.243	OK
FSR: 100 years: +45 %: 180 mins: Winter		74.028	74.045	0.017	0.6			0.6	2.501	OK
FSR: 100 years: +45 %: 240 mins: Summer		74.028	74.046	0.017	0.6			0.6	2.393	OK
FSR: 100 years: +45 %: 240 mins: Winter		74.028	74.044	0.015	0.5			0.5	2.681	OK
FSR: 100 years: +45 %: 360 mins: Summer		74.028	74.043	0.015	0.5			0.5	2.609	OK
FSR: 100 years: +45 %: 360 mins: Winter		74.028	74.041	0.013	0.3			0.3	2.909	OK
FSR: 100 years: +45 %: 480 mins: Summer		74.028	74.042	0.014	0.4			0.4	2.747	OK
FSR: 100 years: +45 %: 480 mins: Winter		74.028	74.040	0.012	0.3			0.3	3.101	OK
FSR: 100 years: +45 %: 600 mins: Summer		74.028	74.041	0.013	0.3			0.3	2.891	OK
FSR: 100 years: +45 %: 600 mins: Winter		74.028	74.039	0.011	0.2			0.2	3.245	OK
FSR: 100 years: +45 %: 720 mins: Summer		74.028	74.040	0.012	0.3			0.3	3.017	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.028	74.038	0.010	0.2	0.2	3.353	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.028	74.039	0.011	0.2	0.2	3.203	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.028	74.037	0.009	0.2	0.2	3.581	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.028	74.037	0.009	0.2	0.2	3.425	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.028	74.036	0.008	0.1	0.1	3.869	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.028	74.036	0.008	0.1	0.1	3.683	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.028	74.035	0.007	0.1	0.1	4.079	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.028	74.035	0.007	0.1	0.1	4.007	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.028	74.034	0.006	0.1	0.1	4.349	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.028	74.034	0.006	0.1	0.1	4.721	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.028	74.033	0.005	0.0	0.1	4.973	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.028	74.033	0.005	0.0	0.1	4.487	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.028	74.033	0.004	0.0	0.0	5.387	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.028	74.033	0.004	0.0	0.0	4.325	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.028	74.032	0.004	0.0	0.0	5.789	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.028	74.033	0.004	0.0	0.0	4.247	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.028	74.032	0.004	0.0	0.0	4.979	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.028	74.032	0.004	0.0	0.0	4.109	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.028	74.031	0.003	0.0	0.0	4.721	OK

Summary Results for Channel Drain 4: Rank By: Max. Depth

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: +45 %: 15 mins: Summer		74.000	74.011	0.011	0.8			0.8	0.344	OK
FSR: 100 years: +45 %: 15 mins: Winter		74.000	74.011	0.011	0.8			0.8	0.380	OK
FSR: 100 years: +45 %: 30 mins: Summer		74.000	74.009	0.009	0.5			0.5	0.450	OK
FSR: 100 years: +45 %: 30 mins: Winter		74.000	74.009	0.009	0.6			0.6	0.504	OK
FSR: 100 years: +45 %: 60 mins: Summer		74.000	74.008	0.008	0.4			0.4	0.558	OK
FSR: 100 years: +45 %: 60 mins: Winter		74.000	74.008	0.008	0.4			0.4	0.636	OK
FSR: 100 years: +45 %: 120 mins: Summer		74.000	74.007	0.007	0.3			0.3	0.684	OK
FSR: 100 years: +45 %: 120 mins: Winter		74.000	74.007	0.007	0.3			0.3	0.774	OK
FSR: 100 years: +45 %: 180 mins: Summer		74.000	74.006	0.006	0.3			0.3	0.756	OK
FSR: 100 years: +45 %: 180 mins: Winter		74.000	74.006	0.006	0.2			0.2	0.834	OK
FSR: 100 years: +45 %: 240 mins: Summer		74.000	74.006	0.006	0.2			0.2	0.804	OK
FSR: 100 years: +45 %: 240 mins: Winter		74.000	74.005	0.005	0.2			0.2	0.918	OK
FSR: 100 years: +45 %: 360 mins: Summer		74.000	74.005	0.005	0.2			0.2	0.876	OK
FSR: 100 years: +45 %: 360 mins: Winter		74.000	74.004	0.004	0.1			0.1	0.978	OK
FSR: 100 years: +45 %: 480 mins: Summer		74.000	74.005	0.005	0.1			0.1	0.930	OK
FSR: 100 years: +45 %: 480 mins: Winter		74.000	74.004	0.004	0.1			0.1	1.068	OK
FSR: 100 years: +45 %: 600 mins: Summer		74.000	74.004	0.004	0.1			0.1	0.966	OK
FSR: 100 years: +45 %: 600 mins: Winter		74.000	74.004	0.004	0.1			0.1	1.068	OK
FSR: 100 years: +45 %: 720 mins: Summer		74.000	74.004	0.004	0.1			0.1	1.026	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.000	74.003	0.003	0.1	0.1	1.116	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.000	74.003	0.003	0.1	0.1	1.146	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.000	74.003	0.003	0.0	0.1	1.212	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.000	74.003	0.003	0.0	0.1	1.218	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.000	74.002	0.002	0.0	0.0	1.398	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.000	74.002	0.002	0.0	0.0	1.104	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.000	74.002	0.002	0.0	0.0	1.344	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.000	74.002	0.002	0.0	0.0	1.074	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.000	74.002	0.002	0.0	0.0	1.278	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.000	74.002	0.002	0.0	0.0	1.086	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.000	74.002	0.002	0.0	0.0	1.296	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.000	74.002	0.002	0.0	0.0	1.038	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.000	74.002	0.002	0.0	0.0	1.314	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.000	74.002	0.002	0.0	0.0	0.954	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.000	74.001	0.001	0.0	0.0	1.386	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.000	74.002	0.002	0.0	0.0	1.038	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.000	74.001	0.001	0.0	0.0	1.452	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.000	74.001	0.001	0.0	0.0	1.086	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.000	74.001	0.001	0.0	0.0	1.452	OK

Summary Results for RWP-05: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.680	74.080	74.100	0.020	1.1	0.000	0.000	1.1	0.500	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.680	74.080	74.101	0.021	1.2	0.000	0.000	1.2	0.560	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.680	74.080	74.097	0.017	0.8	0.000	0.000	0.8	0.653	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.680	74.080	74.097	0.017	0.8	0.000	0.000	0.8	0.737	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.680	74.080	74.096	0.016	0.7	0.000	0.000	0.7	0.828	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.680	74.080	74.095	0.015	0.6	0.000	0.000	0.6	0.918	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.680	74.080	74.093	0.013	0.5	0.000	0.000	0.5	0.996	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.680	74.080	74.092	0.012	0.4	0.000	0.000	0.4	1.122	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.680	74.080	74.092	0.012	0.4	0.000	0.000	0.4	1.098	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.680	74.080	74.091	0.011	0.3	0.000	0.000	0.3	1.236	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.680	74.080	74.091	0.011	0.3	0.000	0.000	0.3	1.170	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.680	74.080	74.090	0.010	0.2	0.000	0.000	0.2	1.314	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.680	74.080	74.090	0.010	0.2	0.000	0.000	0.2	1.284	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.680	74.080	74.088	0.008	0.2	0.000	0.000	0.2	1.440	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.680	74.080	74.089	0.009	0.2	0.000	0.000	0.2	1.386	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.680	74.080	74.087	0.007	0.1	0.000	0.000	0.1	1.506	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.680	74.080	74.088	0.008	0.2	0.000	0.000	0.2	1.422	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.680	74.080	74.087	0.007	0.1	0.000	0.000	0.1	1.596	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.680	74.080	74.087	0.007	0.1	0.000	0.000	0.1	1.446	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.680	74.080	74.086	0.006	0.1	0.000	0.000	0.1	1.686	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.680	74.080	74.087	0.007	0.1	0.000	0.000	0.1	1.560	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.680	74.080	74.086	0.006	0.1	0.000	0.000	0.1	1.704	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.680	74.080	74.086	0.006	0.1	0.000	0.000	0.1	1.776	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.680	74.080	74.085	0.005	0.1	0.000	0.000	0.1	1.902	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.680	74.080	74.085	0.005	0.1	0.000	0.000	0.1	1.968	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.680	74.080	74.084	0.004	0.0	0.000	0.000	0.0	2.196	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.680	74.080	74.084	0.004	0.0	0.000	0.000	0.0	1.830	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.680	74.080	74.083	0.003	0.0	0.000	0.000	0.0	2.358	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.680	74.080	74.083	0.003	0.0	0.000	0.000	0.0	1.710	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.680	74.080	74.083	0.003	0.0	0.000	0.000	0.0	2.016	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.680	74.080	74.083	0.003	0.0	0.000	0.000	0.0	1.722	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.680	74.080	74.083	0.003	0.0	0.000	0.000	0.0	2.142	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.680	74.080	74.083	0.003	0.0	0.000	0.000	0.0	1.644	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.680	74.080	74.083	0.003	0.0	0.000	0.000	0.0	1.908	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.680	74.080	74.083	0.003	0.0	0.000	0.000	0.0	1.758	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.680	74.080	74.082	0.002	0.0	0.000	0.000	0.0	1.974	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.680	74.080	74.083	0.003	0.0	0.000	0.000	0.0	1.692	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.680	74.080	74.082	0.002	0.0	0.000	0.000	0.0	2.178	OK

Summary Results for RWP-06: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.680	74.080	74.116	0.036	1.1	0.000	0.000	1.0	0.481	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.680	74.080	74.117	0.037	1.2	0.000	0.000	1.1	0.535	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.680	74.080	74.108	0.028	0.7	0.000	0.000	0.7	0.635	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.680	74.080	74.109	0.029	0.8	0.000	0.000	0.8	0.707	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.680	74.080	74.105	0.025	0.6	0.000	0.000	0.6	0.791	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.680	74.080	74.104	0.024	0.6	0.000	0.000	0.6	0.893	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.680	74.080	74.101	0.021	0.5	0.000	0.000	0.5	0.965	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.680	74.080	74.098	0.018	0.4	0.000	0.000	0.4	1.085	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.680	74.080	74.098	0.018	0.4	0.000	0.000	0.4	1.055	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.680	74.080	74.095	0.015	0.3	0.000	0.000	0.3	1.169	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.680	74.080	74.096	0.016	0.3	0.000	0.000	0.3	1.139	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.680	74.080	74.093	0.013	0.2	0.000	0.000	0.2	1.271	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.680	74.080	74.093	0.013	0.2	0.000	0.000	0.2	1.241	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.680	74.080	74.091	0.011	0.2	0.000	0.000	0.2	1.385	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.680	74.080	74.092	0.012	0.2	0.000	0.000	0.2	1.325	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.680	74.080	74.090	0.010	0.1	0.000	0.000	0.1	1.445	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.680	74.080	74.091	0.011	0.2	0.000	0.000	0.1	1.349	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.680	74.080	74.089	0.009	0.1	0.000	0.000	0.1	1.553	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.680	74.080	74.090	0.010	0.1	0.000	0.000	0.1	1.403	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.680	74.080	74.088	0.008	0.1	0.000	0.000	0.1	1.625	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.680	74.080	74.089	0.009	0.1	0.000	0.000	0.1	1.499	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.680	74.080	74.087	0.007	0.1	0.000	0.000	0.1	1.637	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.680	74.080	74.087	0.007	0.1	0.000	0.000	0.1	1.721	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.680	74.080	74.086	0.006	0.0	0.000	0.000	0.1	1.829	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.680	74.080	74.086	0.006	0.0	0.000	0.000	0.1	1.860	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.680	74.080	74.085	0.005	0.0	0.000	0.000	0.0	2.105	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.680	74.080	74.085	0.005	0.0	0.000	0.000	0.0	1.728	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.680	74.080	74.084	0.004	0.0	0.000	0.000	0.0	2.310	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.680	74.080	74.084	0.004	0.0	0.000	0.000	0.0	1.656	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.680	74.080	74.084	0.004	0.0	0.000	0.000	0.0	1.920	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.680	74.080	74.084	0.004	0.0	0.000	0.000	0.0	1.590	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.680	74.080	74.084	0.004	0.0	0.000	0.000	0.0	2.010	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.680	74.080	74.084	0.004	0.0	0.000	0.000	0.0	1.638	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.680	74.080	74.083	0.003	0.0	0.000	0.000	0.0	1.812	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.680	74.080	74.084	0.004	0.0	0.000	0.000	0.0	1.560	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.680	74.080	74.083	0.003	0.0	0.000	0.000	0.0	1.968	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.680	74.080	74.084	0.004	0.0	0.000	0.000	0.0	1.572	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.680	74.080	74.083	0.003	0.0	0.000	0.000	0.0	2.058	OK

Summary Results for RWP-02: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.730	74.130	74.159	0.029	1.3	0.000	0.000	1.2	0.547	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.730	74.130	74.160	0.030	1.3	0.000	0.000	1.3	0.613	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.730	74.130	74.154	0.024	0.8	0.000	0.000	0.8	0.719	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.730	74.130	74.155	0.025	0.9	0.000	0.000	0.9	0.809	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.730	74.130	74.152	0.022	0.7	0.000	0.000	0.7	0.905	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.730	74.130	74.151	0.021	0.6	0.000	0.000	0.6	1.013	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.730	74.130	74.149	0.019	0.5	0.000	0.000	0.5	1.103	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.730	74.130	74.147	0.017	0.4	0.000	0.000	0.4	1.229	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.730	74.130	74.147	0.017	0.4	0.000	0.000	0.4	1.217	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.730	74.130	74.145	0.015	0.3	0.000	0.000	0.3	1.355	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.730	74.130	74.145	0.015	0.3	0.000	0.000	0.3	1.289	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.730	74.130	74.143	0.013	0.3	0.000	0.000	0.2	1.439	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.730	74.130	74.143	0.013	0.3	0.000	0.000	0.2	1.397	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.730	74.130	74.141	0.011	0.2	0.000	0.000	0.2	1.553	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.730	74.130	74.142	0.012	0.2	0.000	0.000	0.2	1.493	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.730	74.130	74.141	0.011	0.2	0.000	0.000	0.2	1.703	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.730	74.130	74.141	0.011	0.2	0.000	0.000	0.2	1.583	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.730	74.130	74.139	0.009	0.1	0.000	0.000	0.1	1.751	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.730	74.130	74.141	0.011	0.2	0.000	0.000	0.1	1.613	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.730	74.130	74.139	0.009	0.1	0.000	0.000	0.1	1.841	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.730	74.130	74.139	0.009	0.1	0.000	0.000	0.1	1.721	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.730	74.130	74.138	0.008	0.1	0.000	0.000	0.1	1.895	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.730	74.130	74.138	0.008	0.1	0.000	0.000	0.1	1.937	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.730	74.130	74.137	0.007	0.1	0.000	0.000	0.1	2.087	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.730	74.130	74.137	0.007	0.1	0.000	0.000	0.1	2.273	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.730	74.130	74.135	0.005	0.0	0.000	0.000	0.0	2.315	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.730	74.130	74.136	0.006	0.0	0.000	0.000	0.0	2.112	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.730	74.130	74.135	0.005	0.0	0.000	0.000	0.0	2.561	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.730	74.130	74.135	0.005	0.0	0.000	0.000	0.0	2.016	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	2.238	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	1.938	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	2.352	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	1.818	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	2.334	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	1.968	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.730	74.130	74.133	0.003	0.0	0.000	0.000	0.0	2.172	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	1.818	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.730	74.130	74.133	0.003	0.0	0.000	0.000	0.0	2.298	OK

Summary Results for RWP-03: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.730	73.970	73.997	0.027	1.2	0.000	0.000	1.1	0.505	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.730	73.970	73.998	0.028	1.2	0.000	0.000	1.2	0.565	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.730	73.970	73.992	0.023	0.8	0.000	0.000	0.8	0.665	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.730	73.970	73.993	0.023	0.8	0.000	0.000	0.8	0.749	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.730	73.970	73.991	0.021	0.7	0.000	0.000	0.7	0.839	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.730	73.970	73.990	0.020	0.6	0.000	0.000	0.6	0.935	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.730	73.970	73.988	0.018	0.5	0.000	0.000	0.5	1.013	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.730	73.970	73.986	0.016	0.4	0.000	0.000	0.4	1.139	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.730	73.970	73.985	0.016	0.4	0.000	0.000	0.4	1.127	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.730	73.970	73.984	0.014	0.3	0.000	0.000	0.3	1.253	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.730	73.970	73.984	0.015	0.3	0.000	0.000	0.3	1.193	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.730	73.970	73.982	0.013	0.2	0.000	0.000	0.2	1.325	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.730	73.970	73.982	0.013	0.2	0.000	0.000	0.2	1.289	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.730	73.970	73.981	0.011	0.2	0.000	0.000	0.2	1.445	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.730	73.970	73.981	0.012	0.2	0.000	0.000	0.2	1.415	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.730	73.970	73.980	0.010	0.1	0.000	0.000	0.1	1.523	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.730	73.970	73.980	0.011	0.2	0.000	0.000	0.2	1.439	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.730	73.970	73.979	0.009	0.1	0.000	0.000	0.1	1.607	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.730	73.970	73.980	0.010	0.1	0.000	0.000	0.1	1.481	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.730	73.970	73.978	0.009	0.1	0.000	0.000	0.1	1.715	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.730	73.970	73.979	0.009	0.1	0.000	0.000	0.1	1.571	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.730	73.970	73.977	0.008	0.1	0.000	0.000	0.1	1.751	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.730	73.970	73.977	0.008	0.1	0.000	0.000	0.1	1.799	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.730	73.970	73.976	0.007	0.1	0.000	0.000	0.1	1.919	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.730	73.970	73.976	0.007	0.1	0.000	0.000	0.1	2.022	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.730	73.970	73.974	0.005	0.0	0.000	0.000	0.0	2.195	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.730	73.970	73.974	0.005	0.0	0.000	0.000	0.0	1.866	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.730	73.970	73.974	0.004	0.0	0.000	0.000	0.0	2.418	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.730	73.970	73.974	0.004	0.0	0.000	0.000	0.0	1.764	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.730	73.970	73.973	0.004	0.0	0.000	0.000	0.0	2.028	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.730	73.970	73.974	0.004	0.0	0.000	0.000	0.0	1.728	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.730	73.970	73.973	0.004	0.0	0.000	0.000	0.0	2.208	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.730	73.970	73.973	0.004	0.0	0.000	0.000	0.0	1.644	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.730	73.970	73.973	0.004	0.0	0.000	0.000	0.0	1.992	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.730	73.970	73.973	0.004	0.0	0.000	0.000	0.0	1.764	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.730	73.970	73.972	0.003	0.0	0.000	0.000	0.0	2.070	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.730	73.970	73.973	0.004	0.0	0.000	0.000	0.0	1.698	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.730	73.970	73.972	0.003	0.0	0.000	0.000	0.0	2.178	OK

Summary Results for RWP-01: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.730	74.130	74.167	0.037	1.8	0.000	0.000	1.8	0.784	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.730	74.130	74.168	0.038	1.9	0.000	0.000	1.9	0.886	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.730	74.130	74.160	0.030	1.2	0.000	0.000	1.2	1.037	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.730	74.130	74.161	0.031	1.3	0.000	0.000	1.3	1.163	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.730	74.130	74.158	0.028	1.0	0.000	0.000	1.0	1.295	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.730	74.130	74.157	0.027	0.9	0.000	0.000	0.9	1.457	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.730	74.130	74.154	0.024	0.8	0.000	0.000	0.8	1.583	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.730	74.130	74.151	0.021	0.6	0.000	0.000	0.6	1.763	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.730	74.130	74.151	0.021	0.6	0.000	0.000	0.6	1.745	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.730	74.130	74.149	0.019	0.4	0.000	0.000	0.4	1.949	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.730	74.130	74.149	0.019	0.5	0.000	0.000	0.5	1.859	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.730	74.130	74.147	0.017	0.4	0.000	0.000	0.4	2.075	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.730	74.130	74.147	0.017	0.4	0.000	0.000	0.4	2.009	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.730	74.130	74.144	0.014	0.3	0.000	0.000	0.3	2.291	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.730	74.130	74.145	0.015	0.3	0.000	0.000	0.3	2.165	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.730	74.130	74.143	0.013	0.2	0.000	0.000	0.2	2.423	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.730	74.130	74.144	0.014	0.3	0.000	0.000	0.2	2.255	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.730	74.130	74.142	0.012	0.2	0.000	0.000	0.2	2.525	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.730	74.130	74.143	0.013	0.2	0.000	0.000	0.2	2.327	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.730	74.130	74.141	0.011	0.2	0.000	0.000	0.2	2.651	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.730	74.130	74.142	0.012	0.2	0.000	0.000	0.2	2.507	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.730	74.130	74.140	0.010	0.1	0.000	0.000	0.1	2.771	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.730	74.130	74.140	0.010	0.1	0.000	0.000	0.1	2.639	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.730	74.130	74.139	0.009	0.1	0.000	0.000	0.1	3.113	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.730	74.130	74.139	0.009	0.1	0.000	0.000	0.1	2.957	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.730	74.130	74.137	0.007	0.1	0.000	0.000	0.1	3.191	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.730	74.130	74.138	0.008	0.1	0.000	0.000	0.1	3.281	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.730	74.130	74.136	0.006	0.0	0.000	0.000	0.1	3.521	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.730	74.130	74.136	0.006	0.0	0.000	0.000	0.1	3.360	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.730	74.130	74.135	0.005	0.0	0.000	0.000	0.0	3.995	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.730	74.130	74.135	0.005	0.0	0.000	0.000	0.0	3.180	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	4.218	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	3.024	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	3.540	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	3.012	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	3.630	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	3.018	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.730	74.130	74.134	0.004	0.0	0.000	0.000	0.0	3.744	OK

Summary Results for RWP-07: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK

Summary Results for RWP-04 : Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.730	74.130	74.148	0.018	1.5	0.000	0.000	1.5	0.659	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.730	74.130	74.149	0.019	1.6	0.000	0.000	1.6	0.737	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.730	74.130	74.145	0.015	1.0	0.000	0.000	1.0	0.864	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.730	74.130	74.145	0.015	1.0	0.000	0.000	1.0	0.966	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.730	74.130	74.144	0.014	0.9	0.000	0.000	0.9	1.080	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.730	74.130	74.143	0.013	0.8	0.000	0.000	0.8	1.212	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.730	74.130	74.142	0.012	0.6	0.000	0.000	0.6	1.302	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.730	74.130	74.141	0.011	0.5	0.000	0.000	0.5	1.470	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.730	74.130	74.141	0.011	0.5	0.000	0.000	0.5	1.464	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.730	74.130	74.139	0.009	0.4	0.000	0.000	0.4	1.638	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.730	74.130	74.140	0.010	0.4	0.000	0.000	0.4	1.560	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.730	74.130	74.138	0.008	0.3	0.000	0.000	0.3	1.716	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.730	74.130	74.138	0.008	0.3	0.000	0.000	0.3	1.704	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.730	74.130	74.137	0.007	0.2	0.000	0.000	0.2	1.896	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.730	74.130	74.138	0.008	0.2	0.000	0.000	0.2	1.770	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.730	74.130	74.137	0.007	0.2	0.000	0.000	0.2	2.016	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.730	74.130	74.137	0.007	0.2	0.000	0.000	0.2	1.884	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.730	74.130	74.136	0.006	0.2	0.000	0.000	0.2	2.136	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.730	74.130	74.137	0.007	0.2	0.000	0.000	0.2	1.974	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.730	74.130	74.136	0.006	0.1	0.000	0.000	0.1	2.172	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.730	74.130	74.136	0.006	0.1	0.000	0.000	0.1	2.052	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.730	74.130	74.135	0.005	0.1	0.000	0.000	0.1	2.352	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.730	74.130	74.135	0.005	0.1	0.000	0.000	0.1	2.220	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.730	74.130	74.134	0.004	0.1	0.000	0.000	0.1	2.436	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.730	74.130	74.134	0.004	0.1	0.000	0.000	0.1	2.592	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.730	74.130	74.133	0.003	0.0	0.000	0.000	0.1	2.742	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.730	74.130	74.134	0.004	0.1	0.000	0.000	0.1	2.808	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.730	74.130	74.133	0.003	0.0	0.000	0.000	0.0	2.970	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.730	74.130	74.133	0.003	0.0	0.000	0.000	0.0	2.538	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	3.372	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	2.424	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	2.766	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	2.412	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	2.940	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	2.382	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	3.006	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	2.304	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	2.670	OK

Summary Results for RWP-09: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.730	74.130	74.146	0.016	1.6	0.000	0.000	1.6	0.689	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.730	74.130	74.146	0.016	1.7	0.000	0.000	1.7	0.773	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.730	74.130	74.143	0.013	1.0	0.000	0.000	1.0	0.906	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.730	74.130	74.143	0.013	1.1	0.000	0.000	1.1	1.014	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.730	74.130	74.142	0.012	0.9	0.000	0.000	0.9	1.134	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.730	74.130	74.141	0.011	0.8	0.000	0.000	0.8	1.278	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.730	74.130	74.140	0.010	0.7	0.000	0.000	0.7	1.386	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.730	74.130	74.139	0.009	0.5	0.000	0.000	0.5	1.554	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.730	74.130	74.139	0.009	0.5	0.000	0.000	0.5	1.530	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.730	74.130	74.138	0.008	0.4	0.000	0.000	0.4	1.710	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.730	74.130	74.138	0.008	0.4	0.000	0.000	0.4	1.626	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.730	74.130	74.137	0.007	0.3	0.000	0.000	0.3	1.836	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.730	74.130	74.137	0.007	0.3	0.000	0.000	0.3	1.782	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.730	74.130	74.136	0.006	0.2	0.000	0.000	0.2	1.974	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.730	74.130	74.137	0.007	0.3	0.000	0.000	0.3	1.878	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.730	74.130	74.136	0.006	0.2	0.000	0.000	0.2	2.094	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.730	74.130	74.136	0.006	0.2	0.000	0.000	0.2	1.974	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.730	74.130	74.135	0.005	0.2	0.000	0.000	0.2	2.220	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.730	74.130	74.136	0.006	0.2	0.000	0.000	0.2	2.088	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.730	74.130	74.135	0.005	0.1	0.000	0.000	0.1	2.250	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.730	74.130	74.135	0.005	0.2	0.000	0.000	0.2	2.142	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.730	74.130	74.134	0.004	0.1	0.000	0.000	0.1	2.460	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.730	74.130	74.134	0.004	0.1	0.000	0.000	0.1	2.346	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.730	74.130	74.134	0.004	0.1	0.000	0.000	0.1	2.562	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.730	74.130	74.134	0.004	0.1	0.000	0.000	0.1	2.652	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.730	74.130	74.133	0.003	0.1	0.000	0.000	0.1	2.850	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.730	74.130	74.133	0.003	0.1	0.000	0.000	0.1	3.006	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.730	74.130	74.133	0.003	0.0	0.000	0.000	0.0	3.078	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.730	74.130	74.133	0.003	0.0	0.000	0.000	0.0	2.742	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	3.528	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	2.556	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	2.976	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	2.592	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	3.108	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	2.490	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	3.114	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	2.538	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.730	74.130	74.132	0.002	0.0	0.000	0.000	0.0	3.138	OK

Summary Results for RWP-10: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.730	73.780	73.858	0.078	1.3	0.000	0.000	0.8	0.578	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.730	73.780	73.865	0.085	1.4	0.000	0.000	1.1	0.647	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.730	73.780	73.828	0.048	0.9	0.000	0.000	0.9	0.761	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.730	73.780	73.833	0.053	0.9	0.000	0.000	0.9	0.852	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.730	73.780	73.816	0.036	0.8	0.000	0.000	0.8	0.948	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.730	73.780	73.809	0.029	0.7	0.000	0.000	0.7	1.068	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.730	73.780	73.795	0.015	0.6	0.000	0.000	0.6	1.157	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.730	73.780	73.829	0.049	0.4	0.000	0.000	0.4	1.296	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.730	73.780	73.791	0.011	0.4	0.000	0.000	0.4	1.284	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.730	73.780	73.827	0.047	0.3	0.000	0.000	0.3	1.434	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.730	73.780	73.790	0.010	0.3	0.000	0.000	0.4	1.350	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.730	73.780	73.789	0.009	0.3	0.000	0.000	0.3	1.536	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.730	73.780	73.789	0.009	0.3	0.000	0.000	0.3	1.476	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.730	73.780	73.787	0.007	0.2	0.000	0.000	0.2	1.662	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.730	73.780	73.788	0.008	0.2	0.000	0.000	0.2	1.572	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.730	73.780	73.787	0.007	0.2	0.000	0.000	0.2	1.770	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.730	73.780	73.787	0.007	0.2	0.000	0.000	0.2	1.686	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.730	73.780	73.786	0.006	0.1	0.000	0.000	0.1	1.842	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.730	73.780	73.787	0.007	0.2	0.000	0.000	0.2	1.704	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.730	73.780	73.786	0.006	0.1	0.000	0.000	0.1	1.926	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.730	73.780	73.786	0.006	0.1	0.000	0.000	0.1	1.776	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.730	73.780	73.785	0.005	0.1	0.000	0.000	0.1	2.076	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.730	73.780	73.785	0.005	0.1	0.000	0.000	0.1	1.992	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.730	73.780	73.784	0.004	0.1	0.000	0.000	0.1	2.172	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.730	73.780	73.784	0.004	0.1	0.000	0.000	0.1	2.334	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.730	73.780	73.784	0.004	0.0	0.000	0.000	0.1	2.490	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.730	73.780	73.784	0.004	0.0	0.000	0.000	0.1	2.244	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.730	73.780	73.783	0.003	0.0	0.000	0.000	0.0	2.700	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.730	73.780	73.783	0.003	0.0	0.000	0.000	0.0	2.124	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.730	73.780	73.783	0.003	0.0	0.000	0.000	0.0	2.484	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.730	73.780	73.783	0.003	0.0	0.000	0.000	0.0	2.070	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.730	73.780	73.782	0.002	0.0	0.000	0.000	0.0	2.484	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.730	73.780	73.782	0.002	0.0	0.000	0.000	0.0	1.986	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.730	73.780	73.782	0.002	0.0	0.000	0.000	0.0	2.508	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.730	73.780	73.782	0.002	0.0	0.000	0.000	0.0	1.968	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.730	73.780	73.782	0.002	0.0	0.000	0.000	0.0	2.280	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.730	73.780	73.782	0.002	0.0	0.000	0.000	0.0	2.052	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.730	73.780	73.782	0.002	0.0	0.000	0.000	0.0	2.418	OK

Summary Results for RWP-08: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.730	74.080	74.105	0.025	1.3	0.000	0.000	1.2	0.545	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.730	74.080	74.105	0.025	1.3	0.000	0.000	1.3	0.614	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.730	74.080	74.100	0.020	0.8	0.000	0.000	0.8	0.719	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.730	74.080	74.101	0.021	0.9	0.000	0.000	0.9	0.803	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.730	74.080	74.099	0.019	0.7	0.000	0.000	0.7	0.905	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.730	74.080	74.098	0.018	0.6	0.000	0.000	0.6	1.007	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.730	74.080	74.096	0.016	0.5	0.000	0.000	0.5	1.103	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.730	74.080	74.094	0.014	0.4	0.000	0.000	0.4	1.217	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.730	74.080	74.094	0.014	0.4	0.000	0.000	0.4	1.211	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.730	74.080	74.092	0.012	0.3	0.000	0.000	0.3	1.349	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.730	74.080	74.093	0.013	0.3	0.000	0.000	0.3	1.277	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.730	74.080	74.091	0.011	0.3	0.000	0.000	0.3	1.439	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.730	74.080	74.091	0.011	0.3	0.000	0.000	0.2	1.397	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.730	74.080	74.090	0.010	0.2	0.000	0.000	0.2	1.553	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.730	74.080	74.090	0.010	0.2	0.000	0.000	0.2	1.493	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.730	74.080	74.089	0.009	0.2	0.000	0.000	0.1	1.691	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.730	74.080	74.089	0.009	0.2	0.000	0.000	0.2	1.577	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.730	74.080	74.088	0.008	0.1	0.000	0.000	0.1	1.751	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.730	74.080	74.089	0.009	0.2	0.000	0.000	0.1	1.601	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.730	74.080	74.088	0.008	0.1	0.000	0.000	0.1	1.829	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.730	74.080	74.088	0.008	0.1	0.000	0.000	0.1	1.715	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.730	74.080	74.087	0.007	0.1	0.000	0.000	0.1	1.889	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.730	74.080	74.087	0.007	0.1	0.000	0.000	0.1	1.901	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.730	74.080	74.086	0.006	0.1	0.000	0.000	0.1	2.075	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.730	74.080	74.086	0.006	0.1	0.000	0.000	0.1	2.249	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.730	74.080	74.085	0.005	0.0	0.000	0.000	0.0	2.315	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.730	74.080	74.085	0.005	0.0	0.000	0.000	0.0	2.112	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.730	74.080	74.085	0.005	0.0	0.000	0.000	0.0	2.556	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.730	74.080	74.084	0.004	0.0	0.000	0.000	0.0	1.920	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.730	74.080	74.084	0.004	0.0	0.000	0.000	0.0	2.232	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.730	74.080	74.084	0.004	0.0	0.000	0.000	0.0	1.938	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.730	74.080	74.083	0.003	0.0	0.000	0.000	0.0	2.352	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.730	74.080	74.083	0.003	0.0	0.000	0.000	0.0	1.818	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.730	74.080	74.083	0.003	0.0	0.000	0.000	0.0	2.334	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.730	74.080	74.083	0.003	0.0	0.000	0.000	0.0	1.968	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.730	74.080	74.082	0.002	0.0	0.000	0.000	0.0	2.076	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.730	74.080	74.083	0.003	0.0	0.000	0.000	0.0	1.818	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.730	74.080	74.082	0.002	0.0	0.000	0.000	0.0	2.298	OK

Summary Results for SWC-01: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.770	74.032	74.094	0.062	5.5	0.010	0.000	5.4	2.456	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.770	74.032	74.096	0.064	5.8	0.010	0.000	5.7	2.753	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.770	74.032	74.083	0.051	3.7	0.008	0.000	3.7	3.236	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.770	74.032	74.084	0.052	3.9	0.008	0.000	3.9	3.626	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.770	74.032	74.079	0.047	3.2	0.007	0.000	3.2	4.053	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.770	74.032	74.076	0.044	2.9	0.007	0.000	2.9	4.539	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.770	74.032	74.071	0.040	2.3	0.006	0.000	2.3	4.930	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.770	74.032	74.067	0.035	1.9	0.006	0.000	1.9	5.500	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.770	74.032	74.066	0.035	1.8	0.006	0.000	1.8	5.434	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.770	74.032	74.062	0.030	1.4	0.005	0.000	1.4	6.076	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.770	74.032	74.063	0.032	1.5	0.005	0.000	1.5	5.794	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.770	74.032	74.059	0.027	1.1	0.004	0.000	1.1	6.478	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.770	74.032	74.059	0.027	1.1	0.004	0.000	1.1	6.298	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.770	74.032	74.055	0.023	0.8	0.004	0.000	0.8	7.108	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.770	74.032	74.056	0.024	0.9	0.004	0.000	0.9	6.736	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.770	74.032	74.053	0.021	0.7	0.003	0.000	0.7	7.540	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.770	74.032	74.054	0.022	0.8	0.004	0.000	0.8	7.030	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.770	74.032	74.051	0.019	0.6	0.003	0.000	0.6	7.846	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.770	74.032	74.053	0.021	0.7	0.003	0.000	0.7	7.282	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.770	74.032	74.050	0.018	0.5	0.003	0.000	0.5	8.242	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.770	74.032	74.050	0.019	0.5	0.003	0.000	0.5	7.750	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.770	74.032	74.047	0.016	0.4	0.002	0.000	0.4	8.608	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.770	74.032	74.048	0.016	0.4	0.003	0.000	0.4	8.440	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.770	74.032	74.045	0.014	0.3	0.002	0.000	0.3	9.454	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.770	74.032	74.045	0.014	0.3	0.002	0.000	0.3	9.316	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.770	74.032	74.043	0.011	0.2	0.002	0.000	0.2	10.252	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.770	74.032	74.044	0.012	0.2	0.002	0.000	0.2	9.754	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.770	74.032	74.042	0.011	0.2	0.002	0.000	0.2	10.882	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.770	74.032	74.042	0.011	0.2	0.002	0.000	0.2	10.403	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.770	74.032	74.041	0.009	0.1	0.001	0.000	0.1	11.578	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.770	74.032	74.041	0.010	0.1	0.002	0.000	0.1	10.505	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.770	74.032	74.040	0.008	0.1	0.001	0.000	0.1	12.449	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.770	74.032	74.040	0.008	0.1	0.001	0.000	0.1	9.935	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.770	74.032	74.039	0.007	0.1	0.001	0.000	0.1	12.095	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.770	74.032	74.040	0.008	0.1	0.001	0.000	0.1	9.857	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.770	74.032	74.038	0.007	0.1	0.001	0.000	0.1	12.437	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.770	74.032	74.040	0.008	0.1	0.001	0.000	0.1	9.665	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.770	74.032	74.038	0.007	0.1	0.001	0.000	0.1	11.717	OK

Summary Results for SWC-02: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.670	74.007	74.058	0.051	6.5	0.008	0.000	6.4	2.953	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.670	74.007	74.060	0.053	6.9	0.008	0.000	6.8	3.310	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.670	74.007	74.050	0.043	4.5	0.007	0.000	4.5	3.887	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.670	74.007	74.051	0.044	4.7	0.007	0.000	4.7	4.361	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.670	74.007	74.047	0.040	3.9	0.006	0.000	3.9	4.880	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.670	74.007	74.045	0.038	3.5	0.006	0.000	3.5	5.456	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.670	74.007	74.041	0.034	2.8	0.005	0.000	2.8	5.925	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.670	74.007	74.037	0.030	2.3	0.005	0.000	2.3	6.621	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.670	74.007	74.037	0.030	2.2	0.005	0.000	2.2	6.531	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.670	74.007	74.033	0.026	1.7	0.004	0.000	1.7	7.311	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.670	74.007	74.034	0.027	1.8	0.004	0.000	1.8	6.963	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.670	74.007	74.031	0.024	1.4	0.004	0.000	1.4	7.791	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.670	74.007	74.031	0.024	1.3	0.004	0.000	1.3	7.581	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.670	74.007	74.027	0.020	1.0	0.003	0.000	1.0	8.547	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.670	74.007	74.028	0.021	1.1	0.003	0.000	1.1	8.121	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.670	74.007	74.025	0.018	0.8	0.003	0.000	0.8	9.045	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.670	74.007	74.027	0.020	0.9	0.003	0.000	0.9	8.451	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.670	74.007	74.024	0.017	0.7	0.003	0.000	0.7	9.441	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.670	74.007	74.025	0.018	0.8	0.003	0.000	0.8	8.727	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.670	74.007	74.023	0.016	0.6	0.003	0.000	0.6	9.927	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.670	74.007	74.024	0.017	0.6	0.003	0.000	0.6	9.309	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.670	74.007	74.021	0.014	0.4	0.002	0.000	0.5	10.311	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.670	74.007	74.021	0.014	0.5	0.002	0.000	0.5	10.215	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.670	74.007	74.019	0.012	0.3	0.002	0.000	0.3	11.355	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.670	74.007	74.019	0.012	0.3	0.002	0.000	0.3	11.283	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.670	74.007	74.017	0.010	0.2	0.002	0.000	0.2	12.447	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.670	74.007	74.018	0.011	0.3	0.002	0.000	0.3	11.584	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.670	74.007	74.016	0.009	0.2	0.002	0.000	0.2	13.239	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.670	74.007	74.016	0.009	0.2	0.002	0.000	0.2	12.113	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.670	74.007	74.015	0.008	0.1	0.001	0.000	0.1	13.594	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.670	74.007	74.016	0.009	0.2	0.001	0.000	0.2	12.227	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.670	74.007	74.014	0.007	0.1	0.001	0.000	0.1	14.590	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.670	74.007	74.015	0.008	0.1	0.001	0.000	0.1	11.579	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.670	74.007	74.014	0.007	0.1	0.001	0.000	0.1	14.003	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.670	74.007	74.014	0.007	0.1	0.001	0.000	0.1	11.615	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.670	74.007	74.013	0.006	0.1	0.001	0.000	0.1	14.411	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.670	74.007	74.014	0.007	0.1	0.001	0.000	0.1	11.357	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.670	74.007	74.013	0.006	0.1	0.001	0.000	0.1	13.895	OK

Summary Results for SWC-03: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.650	73.930	73.979	0.049	3.4	0.008	0.000	3.3	1.515	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.650	73.930	73.981	0.051	3.6	0.008	0.000	3.2	1.695	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.650	73.930	73.970	0.040	2.3	0.006	0.000	2.3	1.994	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.650	73.930	73.971	0.041	2.4	0.006	0.000	2.4	2.240	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.650	73.930	73.967	0.037	2.0	0.006	0.000	2.0	2.512	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.650	73.930	73.965	0.035	1.8	0.006	0.000	1.8	2.800	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.650	73.930	73.961	0.031	1.4	0.005	0.000	1.4	3.028	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.650	73.930	73.958	0.028	1.2	0.004	0.000	1.2	3.400	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.650	73.930	73.957	0.027	1.1	0.004	0.000	1.1	3.370	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.650	73.930	73.954	0.024	0.9	0.004	0.000	0.9	3.754	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.650	73.930	73.955	0.025	0.9	0.004	0.000	0.9	3.586	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.650	73.930	73.952	0.022	0.7	0.003	0.000	0.7	4.006	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.650	73.930	73.951	0.021	0.7	0.003	0.000	0.7	3.898	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.650	73.930	73.948	0.018	0.5	0.003	0.000	0.5	4.354	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.650	73.930	73.949	0.019	0.6	0.003	0.000	0.6	4.162	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.650	73.930	73.947	0.017	0.4	0.003	0.000	0.4	4.624	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.650	73.930	73.948	0.018	0.5	0.003	0.000	0.5	4.330	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.650	73.930	73.945	0.015	0.3	0.002	0.000	0.3	4.852	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.650	73.930	73.947	0.017	0.4	0.003	0.000	0.4	4.498	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.650	73.930	73.944	0.014	0.3	0.002	0.000	0.3	5.068	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.650	73.930	73.945	0.015	0.3	0.002	0.000	0.3	4.774	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.650	73.930	73.943	0.013	0.2	0.002	0.000	0.2	5.332	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.650	73.930	73.943	0.013	0.2	0.002	0.000	0.2	5.224	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.650	73.930	73.941	0.011	0.2	0.002	0.000	0.2	5.788	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.650	73.930	73.941	0.011	0.2	0.002	0.000	0.2	5.704	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.650	73.930	73.939	0.009	0.1	0.001	0.000	0.1	6.274	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.650	73.930	73.940	0.010	0.1	0.002	0.000	0.1	5.873	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.650	73.930	73.938	0.008	0.1	0.001	0.000	0.1	6.766	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.650	73.930	73.938	0.008	0.1	0.001	0.000	0.1	6.485	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.650	73.930	73.937	0.007	0.1	0.001	0.000	0.1	7.001	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.650	73.930	73.938	0.008	0.1	0.001	0.000	0.1	6.215	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.650	73.930	73.937	0.007	0.1	0.001	0.000	0.1	7.595	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.650	73.930	73.937	0.007	0.1	0.001	0.000	0.1	5.969	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.650	73.930	73.936	0.006	0.1	0.001	0.000	0.1	7.781	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.650	73.930	73.937	0.007	0.1	0.001	0.000	0.1	6.011	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.650	73.930	73.935	0.005	0.0	0.001	0.000	0.0	7.049	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.650	73.930	73.936	0.006	0.1	0.001	0.000	0.1	5.807	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.650	73.930	73.934	0.004	0.0	0.001	0.000	0.0	6.899	OK

Summary Results for SWC-04: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.650	74.067	74.111	0.044	4.5	0.007	0.000	4.4	1.999	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.650	74.067	74.113	0.046	4.7	0.007	0.000	4.6	2.233	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.650	74.067	74.103	0.036	3.0	0.006	0.000	3.0	2.631	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.650	74.067	74.104	0.037	3.2	0.006	0.000	3.2	2.949	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.650	74.067	74.101	0.034	2.6	0.005	0.000	2.6	3.304	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.650	74.067	74.099	0.032	2.4	0.005	0.000	2.4	3.700	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.650	74.067	74.096	0.029	1.9	0.005	0.000	1.9	4.000	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.650	74.067	74.093	0.026	1.5	0.004	0.000	1.5	4.486	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.650	74.067	74.092	0.025	1.5	0.004	0.000	1.5	4.414	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.650	74.067	74.089	0.022	1.1	0.004	0.000	1.1	4.936	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.650	74.067	74.090	0.023	1.2	0.004	0.000	1.2	4.720	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.650	74.067	74.087	0.020	0.9	0.003	0.000	0.9	5.272	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.650	74.067	74.087	0.020	0.9	0.003	0.000	0.9	5.140	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.650	74.067	74.084	0.017	0.7	0.003	0.000	0.7	5.728	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.650	74.067	74.085	0.018	0.7	0.003	0.000	0.7	5.470	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.650	74.067	74.082	0.015	0.5	0.002	0.000	0.5	6.064	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.650	74.067	74.084	0.017	0.6	0.003	0.000	0.6	5.680	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.650	74.067	74.081	0.014	0.5	0.002	0.000	0.5	6.394	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.650	74.067	74.082	0.015	0.5	0.002	0.000	0.5	5.932	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.650	74.067	74.080	0.013	0.4	0.002	0.000	0.4	6.658	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.650	74.067	74.081	0.014	0.4	0.002	0.000	0.4	6.280	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.650	74.067	74.079	0.012	0.3	0.002	0.000	0.3	7.000	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.650	74.067	74.079	0.012	0.3	0.002	0.000	0.3	6.880	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.650	74.067	74.077	0.010	0.2	0.002	0.000	0.2	7.630	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.650	74.067	74.077	0.010	0.2	0.002	0.000	0.2	7.523	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.650	74.067	74.076	0.009	0.2	0.001	0.000	0.2	8.338	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.650	74.067	74.076	0.009	0.2	0.001	0.000	0.2	7.511	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.650	74.067	74.075	0.008	0.1	0.001	0.000	0.1	9.059	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.650	74.067	74.075	0.008	0.1	0.001	0.000	0.1	8.075	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.650	74.067	74.074	0.007	0.1	0.001	0.000	0.1	8.933	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.650	74.067	74.074	0.007	0.1	0.001	0.000	0.1	8.639	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.650	74.067	74.073	0.006	0.1	0.001	0.000	0.1	9.551	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.650	74.067	74.073	0.006	0.1	0.001	0.000	0.1	9.245	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.650	74.067	74.072	0.005	0.1	0.001	0.000	0.1	9.857	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.650	74.067	74.073	0.006	0.1	0.001	0.000	0.1	9.437	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.650	74.067	74.071	0.004	0.1	0.001	0.000	0.1	10.667	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.650	74.067	74.073	0.006	0.1	0.001	0.000	0.1	8.957	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.650	74.067	74.071	0.004	0.1	0.001	0.000	0.1	11.009	OK

Summary Results for SWC-05: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.700	73.821	73.951	0.130	14.1	0.021	0.000	13.4	6.463	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.700	73.821	73.964	0.143	14.6	0.023	0.000	13.6	7.233	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.700	73.821	73.918	0.097	9.9	0.015	0.000	9.8	8.510	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.700	73.821	73.922	0.101	10.4	0.016	0.000	10.4	9.548	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.700	73.821	73.908	0.087	8.5	0.014	0.000	8.6	10.694	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.700	73.821	73.902	0.081	7.7	0.013	0.000	7.7	11.954	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.700	73.821	73.891	0.070	6.1	0.011	0.000	6.1	12.952	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.700	73.821	73.882	0.061	4.9	0.010	0.000	4.9	14.507	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.700	73.821	73.881	0.060	4.8	0.009	0.000	4.8	14.315	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.700	73.821	73.872	0.051	3.7	0.008	0.000	3.7	16.001	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.700	73.821	73.874	0.053	4.0	0.008	0.000	4.0	15.269	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.700	73.821	73.866	0.045	3.0	0.007	0.000	3.0	17.069	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.700	73.821	73.866	0.045	2.9	0.007	0.000	2.9	16.619	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.700	73.821	73.859	0.038	2.2	0.006	0.000	2.2	18.629	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.700	73.821	73.861	0.040	2.4	0.006	0.000	2.4	17.753	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.700	73.821	73.855	0.034	1.7	0.005	0.000	1.7	19.733	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.700	73.821	73.857	0.036	2.0	0.006	0.000	2.0	18.461	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.700	73.821	73.851	0.030	1.4	0.005	0.000	1.4	20.687	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.700	73.821	73.855	0.034	1.7	0.005	0.000	1.7	19.157	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.700	73.821	73.849	0.028	1.3	0.005	0.000	1.3	21.653	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.700	73.821	73.851	0.030	1.4	0.005	0.000	1.4	20.363	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.700	73.821	73.846	0.025	1.0	0.004	0.000	1.0	22.643	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.700	73.821	73.846	0.025	1.0	0.004	0.000	1.0	22.319	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.700	73.821	73.842	0.021	0.7	0.003	0.000	0.7	24.773	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.700	73.821	73.842	0.021	0.7	0.003	0.000	0.7	24.510	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.700	73.821	73.839	0.018	0.5	0.003	0.000	0.5	27.059	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.700	73.821	73.840	0.019	0.6	0.003	0.000	0.6	24.967	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.700	73.821	73.837	0.016	0.4	0.003	0.000	0.4	29.064	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.700	73.821	73.837	0.016	0.4	0.003	0.000	0.4	26.672	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.700	73.821	73.835	0.014	0.3	0.002	0.000	0.3	29.527	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.700	73.821	73.836	0.015	0.3	0.002	0.000	0.3	27.081	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.700	73.821	73.834	0.013	0.3	0.002	0.000	0.3	31.736	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.700	73.821	73.834	0.013	0.3	0.002	0.000	0.3	26.793	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.700	73.821	73.832	0.011	0.2	0.002	0.000	0.2	31.640	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.700	73.821	73.834	0.013	0.3	0.002	0.000	0.3	27.063	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.700	73.821	73.831	0.010	0.2	0.002	0.000	0.2	32.127	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.700	73.821	73.833	0.012	0.2	0.002	0.000	0.2	26.121	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.700	73.821	73.831	0.010	0.2	0.002	0.000	0.2	31.803	OK

Summary Results for SWC-06: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.700	73.773	73.912	0.139	15.7	0.022	0.000	15.1	7.461	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.700	73.773	73.926	0.153	16.0	0.024	0.000	15.1	8.345	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	74.700	73.773	73.877	0.104	11.4	0.017	0.000	11.4	9.820	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.700	73.773	73.882	0.109	12.0	0.017	0.000	12.0	11.014	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.700	73.773	73.866	0.093	9.9	0.015	0.000	9.9	12.329	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.700	73.773	73.860	0.087	8.9	0.014	0.000	8.9	13.799	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.700	73.773	73.848	0.075	7.1	0.012	0.000	7.1	14.937	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.700	73.773	73.838	0.065	5.7	0.010	0.000	5.7	16.750	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.700	73.773	73.837	0.064	5.5	0.010	0.000	5.5	16.534	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.700	73.773	73.828	0.055	4.3	0.009	0.000	4.3	18.472	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.700	73.773	73.830	0.057	4.6	0.009	0.000	4.6	17.632	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.700	73.773	73.821	0.048	3.4	0.008	0.000	3.4	19.702	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.700	73.773	73.821	0.048	3.4	0.008	0.000	3.4	19.198	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.700	73.773	73.813	0.040	2.5	0.006	0.000	2.5	21.502	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.700	73.773	73.816	0.043	2.8	0.007	0.000	2.8	20.452	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.700	73.773	73.809	0.036	2.0	0.006	0.000	2.0	22.816	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.700	73.773	73.812	0.039	2.3	0.006	0.000	2.3	21.310	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.700	73.773	73.806	0.033	1.7	0.005	0.000	1.7	23.890	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.700	73.773	73.809	0.036	2.0	0.006	0.000	2.0	22.156	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.700	73.773	73.803	0.030	1.5	0.005	0.000	1.5	24.940	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.700	73.773	73.805	0.032	1.6	0.005	0.000	1.6	23.560	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.700	73.773	73.800	0.027	1.2	0.004	0.000	1.2	26.206	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.700	73.773	73.800	0.027	1.2	0.004	0.000	1.2	25.756	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.700	73.773	73.796	0.023	0.8	0.004	0.000	0.8	28.606	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.700	73.773	73.796	0.023	0.8	0.004	0.000	0.8	28.205	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.700	73.773	73.792	0.019	0.6	0.003	0.000	0.6	31.144	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.700	73.773	73.793	0.020	0.6	0.003	0.000	0.6	28.848	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.700	73.773	73.790	0.017	0.5	0.003	0.000	0.5	33.311	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.700	73.773	73.790	0.017	0.5	0.003	0.000	0.5	30.295	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.700	73.773	73.788	0.015	0.3	0.002	0.000	0.3	34.195	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.700	73.773	73.789	0.016	0.4	0.002	0.000	0.4	30.542	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.700	73.773	73.786	0.013	0.3	0.002	0.000	0.3	35.815	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.700	73.773	73.787	0.014	0.3	0.002	0.000	0.3	30.158	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.700	73.773	73.785	0.012	0.2	0.002	0.000	0.2	35.966	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.700	73.773	73.786	0.013	0.3	0.002	0.000	0.3	30.482	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.700	73.773	73.784	0.011	0.2	0.002	0.000	0.2	36.584	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.700	73.773	73.786	0.013	0.3	0.002	0.000	0.3	29.510	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.700	73.773	73.784	0.011	0.2	0.002	0.000	0.2	35.924	OK

Summary Results for SWC-07: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.700	73.714	73.857	0.143	15.9	0.023	0.000	15.4	8.032	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.700	73.714	73.864	0.150	16.2	0.024	0.000	15.9	8.985	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	74.700	73.714	73.827	0.113	12.2	0.018	0.000	12.3	10.579	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.700	73.714	73.832	0.118	12.9	0.019	0.000	12.9	11.863	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.700	73.714	73.815	0.101	10.6	0.016	0.000	10.6	13.275	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.700	73.714	73.808	0.094	9.6	0.015	0.000	9.6	14.865	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.700	73.714	73.794	0.080	7.6	0.013	0.000	7.6	16.094	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.700	73.714	73.829	0.115	6.1	0.018	0.000	6.1	18.045	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.700	73.714	73.783	0.069	6.0	0.011	0.000	6.0	17.817	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.700	73.714	73.827	0.113	4.6	0.018	0.000	4.6	19.906	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.700	73.714	73.775	0.061	4.9	0.010	0.000	4.9	18.981	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.700	73.714	73.766	0.052	3.7	0.008	0.000	3.7	21.238	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.700	73.714	73.766	0.052	3.7	0.008	0.000	3.7	20.673	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.700	73.714	73.757	0.043	2.7	0.007	0.000	2.7	23.163	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.700	73.714	73.760	0.046	3.0	0.007	0.000	3.0	22.023	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.700	73.714	73.752	0.038	2.2	0.006	0.000	2.2	24.585	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.700	73.714	73.756	0.042	2.5	0.007	0.000	2.5	22.995	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.700	73.714	73.749	0.035	1.8	0.006	0.000	1.8	25.731	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.700	73.714	73.753	0.039	2.2	0.006	0.000	2.2	23.859	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.700	73.714	73.747	0.033	1.6	0.005	0.000	1.6	26.865	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.700	73.714	73.748	0.034	1.7	0.005	0.000	1.7	25.335	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.700	73.714	73.743	0.029	1.2	0.005	0.000	1.2	28.281	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.700	73.714	73.743	0.029	1.3	0.005	0.000	1.3	27.747	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.700	73.714	73.738	0.024	0.9	0.004	0.000	0.9	30.777	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.700	73.714	73.738	0.024	0.9	0.004	0.000	0.9	30.538	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.700	73.714	73.734	0.020	0.6	0.003	0.000	0.6	33.634	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.700	73.714	73.735	0.021	0.7	0.003	0.000	0.7	31.092	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.700	73.714	73.732	0.018	0.5	0.003	0.000	0.5	36.010	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.700	73.714	73.732	0.018	0.5	0.003	0.000	0.5	32.419	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.700	73.714	73.730	0.016	0.4	0.003	0.000	0.4	36.678	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.700	73.714	73.731	0.017	0.4	0.003	0.000	0.4	32.612	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.700	73.714	73.728	0.014	0.3	0.002	0.000	0.3	38.299	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.700	73.714	73.728	0.014	0.3	0.002	0.000	0.3	32.144	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.700	73.714	73.727	0.013	0.3	0.002	0.000	0.3	38.473	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.700	73.714	73.728	0.014	0.3	0.002	0.000	0.3	32.450	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.700	73.714	73.726	0.012	0.2	0.002	0.000	0.2	38.864	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.700	73.714	73.728	0.014	0.3	0.002	0.000	0.3	31.562	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.700	73.714	73.725	0.011	0.2	0.002	0.000	0.2	38.342	OK

Summary Results for SWC-08: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.600	73.929	73.956	0.027	3.3	0.004	0.000	3.3	1.447	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.600	73.929	73.956	0.028	3.5	0.004	0.000	3.4	1.624	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.600	73.929	73.951	0.022	2.2	0.003	0.000	2.2	1.907	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.600	73.929	73.951	0.022	2.3	0.004	0.000	2.3	2.129	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.600	73.929	73.949	0.020	1.9	0.003	0.000	1.9	2.393	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.600	73.929	73.948	0.019	1.7	0.003	0.000	1.7	2.681	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.600	73.929	73.946	0.017	1.4	0.003	0.000	1.4	2.903	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.600	73.929	73.945	0.016	1.1	0.003	0.000	1.1	3.239	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.600	73.929	73.944	0.015	1.1	0.002	0.000	1.1	3.215	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.600	73.929	73.943	0.014	0.8	0.002	0.000	0.8	3.569	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.600	73.929	73.943	0.014	0.9	0.002	0.000	0.9	3.395	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.600	73.929	73.941	0.012	0.7	0.002	0.000	0.7	3.815	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.600	73.929	73.941	0.012	0.7	0.002	0.000	0.7	3.719	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.600	73.929	73.939	0.011	0.5	0.002	0.000	0.5	4.151	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.600	73.929	73.940	0.011	0.5	0.002	0.000	0.5	3.947	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.600	73.929	73.938	0.010	0.4	0.002	0.000	0.4	4.445	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.600	73.929	73.939	0.010	0.4	0.002	0.000	0.5	4.157	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.600	73.929	73.938	0.009	0.3	0.001	0.000	0.3	4.661	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.600	73.929	73.938	0.010	0.4	0.002	0.000	0.4	4.253	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.600	73.929	73.937	0.008	0.3	0.001	0.000	0.3	4.829	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.600	73.929	73.937	0.009	0.3	0.001	0.000	0.3	4.583	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.600	73.929	73.936	0.007	0.2	0.001	0.000	0.2	5.039	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.600	73.929	73.936	0.007	0.2	0.001	0.000	0.2	4.943	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.600	73.929	73.935	0.006	0.2	0.001	0.000	0.2	5.591	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.600	73.929	73.935	0.006	0.2	0.001	0.000	0.2	5.537	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.600	73.929	73.934	0.005	0.1	0.001	0.000	0.1	5.939	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.600	73.929	73.935	0.006	0.1	0.001	0.000	0.1	5.766	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.600	73.929	73.934	0.005	0.1	0.001	0.000	0.1	6.491	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.600	73.929	73.934	0.005	0.1	0.001	0.000	0.1	5.970	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.600	73.929	73.933	0.004	0.1	0.001	0.000	0.1	6.684	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.600	73.929	73.933	0.004	0.1	0.001	0.000	0.1	5.742	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.600	73.929	73.932	0.003	0.1	0.000	0.000	0.1	7.194	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.600	73.929	73.932	0.004	0.1	0.001	0.000	0.1	5.448	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.600	73.929	73.932	0.003	0.1	0.000	0.000	0.1	6.744	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.600	73.929	73.932	0.003	0.1	0.000	0.000	0.1	5.592	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.600	73.929	73.931	0.003	0.0	0.000	0.000	0.0	6.222	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.600	73.929	73.932	0.003	0.1	0.000	0.000	0.1	5.442	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.600	73.929	73.931	0.003	0.0	0.000	0.000	0.0	6.534	OK

Summary Results for SWC-09: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.550	73.610	73.719	0.109	19.9	0.031	0.000	19.7	10.153	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.550	73.610	73.723	0.113	20.7	0.032	0.000	20.5	11.367	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.550	73.610	73.702	0.092	15.5	0.026	0.000	15.5	13.386	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.550	73.610	73.706	0.096	16.3	0.027	0.000	16.3	15.000	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.550	73.610	73.694	0.084	13.4	0.024	0.000	13.4	16.798	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.550	73.610	73.689	0.079	12.1	0.022	0.000	12.1	18.821	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.550	73.610	73.678	0.068	9.7	0.019	0.000	9.7	20.380	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.550	73.610	73.829	0.219	7.8	0.062	0.000	7.8	22.831	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	74.550	73.610	73.669	0.059	7.5	0.017	0.000	7.5	22.560	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.550	73.610	73.826	0.216	5.8	0.061	0.000	5.8	25.185	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	74.550	73.610	73.663	0.053	6.2	0.015	0.000	6.2	24.001	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.550	73.610	73.732	0.122	4.7	0.034	0.000	4.7	26.887	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.550	73.610	73.654	0.044	4.6	0.013	0.000	4.6	26.173	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.550	73.610	73.647	0.037	3.4	0.011	0.000	3.4	29.288	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.550	73.610	73.649	0.039	3.8	0.011	0.000	3.8	27.847	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.550	73.610	73.643	0.033	2.7	0.009	0.000	2.7	31.123	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.550	73.610	73.646	0.036	3.2	0.010	0.000	3.2	29.125	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.550	73.610	73.640	0.030	2.3	0.009	0.000	2.3	32.611	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.550	73.610	73.643	0.033	2.7	0.009	0.000	2.7	30.199	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.550	73.610	73.638	0.028	2.0	0.008	0.000	2.0	33.943	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.550	73.610	73.639	0.029	2.2	0.008	0.000	2.2	32.059	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.550	73.610	73.635	0.025	1.6	0.007	0.000	1.6	35.779	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.550	73.610	73.635	0.025	1.6	0.007	0.000	1.6	35.035	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.550	73.610	73.631	0.021	1.1	0.006	0.000	1.1	38.929	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.550	73.610	73.631	0.021	1.1	0.006	0.000	1.1	38.726	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.550	73.610	73.627	0.017	0.8	0.005	0.000	0.8	42.422	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.550	73.610	73.628	0.018	0.9	0.005	0.000	0.9	39.862	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.550	73.610	73.626	0.016	0.6	0.004	0.000	0.6	45.579	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.550	73.610	73.626	0.016	0.6	0.004	0.000	0.6	41.129	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.550	73.610	73.623	0.013	0.5	0.004	0.000	0.5	46.889	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.550	73.610	73.624	0.014	0.5	0.004	0.000	0.5	40.908	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.550	73.610	73.622	0.012	0.4	0.003	0.000	0.4	48.467	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.550	73.610	73.622	0.012	0.4	0.004	0.000	0.4	40.182	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.550	73.610	73.621	0.011	0.3	0.003	0.000	0.3	48.324	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.550	73.610	73.622	0.012	0.4	0.003	0.000	0.4	40.530	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.550	73.610	73.620	0.010	0.3	0.003	0.000	0.3	48.198	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.550	73.610	73.622	0.012	0.4	0.003	0.000	0.4	39.540	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.550	73.610	73.620	0.010	0.2	0.003	0.000	0.2	48.012	OK

Summary Results for Simple Junction: Rank By: Max. Depth

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: +45 %: 15 mins: Summer		73.680	73.809	0.129	17.0			16.6	8.713	OK
FSR: 100 years: +45 %: 15 mins: Winter		73.680	73.815	0.135	17.5			17.2	9.750	OK
FSR: 100 years: +45 %: 30 mins: Summer		73.680	73.786	0.106	13.3			13.3	11.482	OK
FSR: 100 years: +45 %: 30 mins: Winter		73.680	73.790	0.110	14.0			14.0	12.874	OK
FSR: 100 years: +45 %: 60 mins: Summer		73.680	73.776	0.096	11.5			11.5	14.407	OK
FSR: 100 years: +45 %: 60 mins: Winter		73.680	73.769	0.090	10.4			10.4	16.141	OK
FSR: 100 years: +45 %: 120 mins: Summer		73.680	73.758	0.078	8.3			8.3	17.478	OK
FSR: 100 years: +45 %: 120 mins: Winter		73.680	73.829	0.149	6.7			6.7	19.592	OK
FSR: 100 years: +45 %: 180 mins: Summer		73.680	73.747	0.067	6.5			6.5	19.346	OK
FSR: 100 years: +45 %: 180 mins: Winter		73.680	73.826	0.147	5.0			5.0	21.616	OK
FSR: 100 years: +45 %: 240 mins: Summer		73.680	73.740	0.060	5.3			5.3	20.607	OK
FSR: 100 years: +45 %: 240 mins: Winter		73.680	73.732	0.052	4.0			4.0	23.073	OK
FSR: 100 years: +45 %: 360 mins: Summer		73.680	73.731	0.051	4.0			4.0	22.455	OK
FSR: 100 years: +45 %: 360 mins: Winter		73.680	73.723	0.043	2.9			2.9	25.137	OK
FSR: 100 years: +45 %: 480 mins: Summer		73.680	73.725	0.046	3.2			3.2	23.901	OK
FSR: 100 years: +45 %: 480 mins: Winter		73.680	73.718	0.039	2.3			2.3	26.679	OK
FSR: 100 years: +45 %: 600 mins: Summer		73.680	73.722	0.042	2.7			2.7	24.969	OK
FSR: 100 years: +45 %: 600 mins: Winter		73.680	73.715	0.035	2.0			2.0	27.951	OK
FSR: 100 years: +45 %: 720 mins: Summer		73.680	73.718	0.039	2.4			2.4	25.947	OK

FSR: 100 years: +45 %: 720 mins: Winter	73.680	73.713	0.033	1.7	1.7	29.115	OK
FSR: 100 years: +45 %: 960 mins: Summer	73.680	73.714	0.034	1.9	1.9	27.477	OK
FSR: 100 years: +45 %: 960 mins: Winter	73.680	73.709	0.029	1.4	1.4	30.741	OK
FSR: 100 years: +45 %: 1440 mins: Summer	73.680	73.709	0.029	1.4	1.4	30.093	OK
FSR: 100 years: +45 %: 1440 mins: Winter	73.680	73.705	0.025	1.0	1.0	33.339	OK
FSR: 100 years: +45 %: 2160 mins: Summer	73.680	73.705	0.025	1.0	1.0	33.190	OK
FSR: 100 years: +45 %: 2160 mins: Winter	73.680	73.701	0.021	0.7	0.7	36.484	OK
FSR: 100 years: +45 %: 2880 mins: Summer	73.680	73.702	0.022	0.8	0.8	34.098	OK
FSR: 100 years: +45 %: 2880 mins: Winter	73.680	73.699	0.019	0.6	0.6	39.088	OK
FSR: 100 years: +45 %: 4320 mins: Summer	73.680	73.699	0.019	0.6	0.6	35.161	OK
FSR: 100 years: +45 %: 4320 mins: Winter	73.680	73.696	0.016	0.4	0.4	40.206	OK
FSR: 100 years: +45 %: 5760 mins: Summer	73.680	73.697	0.017	0.5	0.5	35.167	OK
FSR: 100 years: +45 %: 5760 mins: Winter	73.680	73.695	0.015	0.3	0.3	41.274	OK
FSR: 100 years: +45 %: 7200 mins: Summer	73.680	73.695	0.015	0.3	0.3	34.735	OK
FSR: 100 years: +45 %: 7200 mins: Winter	73.680	73.693	0.013	0.3	0.3	41.581	OK
FSR: 100 years: +45 %: 8640 mins: Summer	73.680	73.695	0.015	0.3	0.3	34.939	OK
FSR: 100 years: +45 %: 8640 mins: Winter	73.680	73.692	0.013	0.2	0.2	41.977	OK
FSR: 100 years: +45 %: 10080 mins: Summer	73.680	73.694	0.014	0.3	0.3	34.099	OK
FSR: 100 years: +45 %: 10080 mins: Winter	73.680	73.692	0.012	0.2	0.2	41.479	OK

Summary Results for Deepbore Soakaway Manhole: Rank By: Max. Depth

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: +45 %: 15 mins: Summer	74.150	71.150	73.282	2.133	8.4	2.412	0.000	2.0	1.335	OK
FSR: 100 years: +45 %: 15 mins: Winter	74.150	71.150	73.346	2.196	9.4	2.484	0.000	2.1	1.364	OK
FSR: 100 years: +45 %: 30 mins: Summer	74.150	71.150	73.430	2.280	6.8	2.579	0.000	1.8	2.608	OK
FSR: 100 years: +45 %: 30 mins: Winter	74.150	71.150	73.515	2.366	7.3	2.676	0.000	2.2	2.644	OK
FSR: 100 years: +45 %: 60 mins: Summer	74.150	71.150	73.551	2.401	3.8	2.716	0.000	2.0	5.228	OK
FSR: 100 years: +45 %: 60 mins: Winter	74.150	71.150	73.657	2.507	5.5	2.836	0.000	2.2	5.273	OK
FSR: 100 years: +45 %: 120 mins: Summer	74.150	71.150	73.612	2.462	3.2	2.785	0.000	2.1	10.504	OK
FSR: 100 years: +45 %: 120 mins: Winter	74.150	71.150	73.829	2.679	3.4	3.030	0.000	1.9	10.584	OK
FSR: 100 years: +45 %: 180 mins: Summer	74.150	71.150	73.600	2.451	2.7	2.772	0.000	2.1	15.727	OK
FSR: 100 years: +45 %: 180 mins: Winter	74.150	71.150	73.826	2.676	2.5	3.027	0.000	2.2	15.853	OK
FSR: 100 years: +45 %: 240 mins: Summer	74.150	71.150	73.568	2.419	3.0	2.736	0.000	2.1	20.818	OK
FSR: 100 years: +45 %: 240 mins: Winter	74.150	71.150	73.731	2.582	2.4	2.920	0.000	2.2	21.049	OK
FSR: 100 years: +45 %: 360 mins: Summer	74.150	71.150	73.518	2.369	2.5	2.679	0.000	2.1	26.071	OK
FSR: 100 years: +45 %: 360 mins: Winter	74.150	71.150	73.638	2.489	2.1	2.815	0.000	2.1	29.158	OK
FSR: 100 years: +45 %: 480 mins: Summer	74.150	71.150	73.468	2.318	2.2	2.622	0.000	2.2	27.757	OK
FSR: 100 years: +45 %: 480 mins: Winter	74.150	71.150	73.571	2.421	1.9	2.738	0.000	2.2	31.020	OK
FSR: 100 years: +45 %: 600 mins: Summer	74.150	71.150	73.425	2.275	2.0	2.573	0.000	2.0	29.043	OK
FSR: 100 years: +45 %: 600 mins: Winter	74.150	71.150	73.504	2.355	1.7	2.663	0.000	2.2	32.529	OK
FSR: 100 years: +45 %: 720 mins: Summer	74.150	71.150	73.379	2.229	1.8	2.521	0.000	2.2	30.118	OK

FSR: 100 years: +45 %: 720 mins: Winter	74.150	71.150	73.436	2.286	1.5	2.586	0.000	2.0	33.873	OK
FSR: 100 years: +45 %: 960 mins: Summer	74.150	71.150	73.297	2.147	1.6	2.428	0.000	2.1	31.995	OK
FSR: 100 years: +45 %: 960 mins: Winter	74.150	71.150	73.305	2.155	1.3	2.437	0.000	2.2	35.700	OK
FSR: 100 years: +45 %: 1440 mins: Summer	74.150	71.150	73.142	1.992	1.4	2.253	0.000	2.2	34.974	OK
FSR: 100 years: +45 %: 1440 mins: Winter	74.150	71.150	73.082	1.932	1.1	2.186	0.000	2.1	38.852	OK
FSR: 100 years: +45 %: 2160 mins: Summer	74.150	71.150	72.976	1.826	1.1	2.065	0.000	2.1	38.675	OK
FSR: 100 years: +45 %: 2160 mins: Winter	74.150	71.150	72.217	1.068	0.8	1.208	0.000	2.0	42.366	OK
FSR: 100 years: +45 %: 2880 mins: Summer	74.150	71.150	72.213	1.063	0.9	1.203	0.000	1.9	39.811	OK
FSR: 100 years: +45 %: 2880 mins: Winter	74.150	71.150	71.182	0.033	0.6	0.037	0.000	0.6	45.557	OK
FSR: 100 years: +45 %: 4320 mins: Summer	74.150	71.150	71.182	0.032	0.6	0.036	0.000	0.6	41.108	OK
FSR: 100 years: +45 %: 4320 mins: Winter	74.150	71.150	71.176	0.027	0.5	0.030	0.000	0.5	46.849	OK
FSR: 100 years: +45 %: 5760 mins: Summer	74.150	71.150	71.178	0.028	0.5	0.032	0.000	0.5	40.719	OK
FSR: 100 years: +45 %: 5760 mins: Winter	74.150	71.150	71.172	0.023	0.4	0.026	0.000	0.4	48.416	OK
FSR: 100 years: +45 %: 7200 mins: Summer	74.150	71.150	71.174	0.024	0.4	0.027	0.000	0.4	39.477	OK
FSR: 100 years: +45 %: 7200 mins: Winter	74.150	71.150	71.170	0.020	0.3	0.023	0.000	0.3	48.222	OK
FSR: 100 years: +45 %: 8640 mins: Summer	74.150	71.150	71.172	0.023	0.4	0.026	0.000	0.4	39.738	OK
FSR: 100 years: +45 %: 8640 mins: Winter	74.150	71.150	71.167	0.018	0.3	0.020	0.000	0.3	47.928	OK
FSR: 100 years: +45 %: 10080 mins: Summer	74.150	71.150	71.171	0.022	0.3	0.024	0.000	0.3	38.859	OK
FSR: 100 years: +45 %: 10080 mins: Winter	74.150	71.150	71.166	0.017	0.2	0.019	0.000	0.2	47.088	OK

Summary Results for Att Tank: Rank By: Max. Avg. Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
FSR: 100 years: +45 %: 15 mins: Summer	73.283	73.283	0.383	0.383	19.7	6.551	0.000	0.000	8.4	3.816	53.137	OK
FSR: 100 years: +45 %: 15 mins: Winter	73.347	73.347	0.447	0.447	20.5	7.640	0.000	0.000	9.4	3.919	45.351	OK
FSR: 100 years: +45 %: 30 mins: Summer	73.430	73.430	0.530	0.530	15.5	9.068	0.000	0.000	6.8	5.217	35.135	OK
FSR: 100 years: +45 %: 30 mins: Winter	73.516	73.516	0.616	0.616	16.3	10.541	0.000	0.000	7.3	5.357	24.602	OK
FSR: 100 years: +45 %: 60 mins: Summer	73.551	73.551	0.651	0.651	13.4	11.136	0.000	0.000	3.8	7.906	20.345	OK
FSR: 100 years: +45 %: 60 mins: Winter	73.659	73.659	0.759	0.759	12.1	12.973	0.000	0.000	5.5	8.079	7.201	OK
FSR: 100 years: +45 %: 120 mins: Summer	73.613	73.613	0.713	0.713	9.7	12.184	0.000	0.000	3.2	13.089	12.845	OK
FSR: 100 years: +45 %: 120 mins: Winter	73.829	73.829	0.929	0.929	7.8	13.809	0.000	0.000	3.4	13.342	1.223	OK
FSR: 100 years: +45 %: 180 mins: Summer	73.602	73.602	0.702	0.702	7.5	12.001	0.000	0.000	2.7	18.138	14.158	OK
FSR: 100 years: +45 %: 180 mins: Winter	73.826	73.826	0.926	0.926	5.8	13.806	0.000	0.000	2.5	18.441	1.242	OK
FSR: 100 years: +45 %: 240 mins: Summer	73.570	73.570	0.670	0.670	6.2	11.457	0.000	0.000	3.0	23.005	18.045	OK
FSR: 100 years: +45 %: 240 mins: Winter	73.732	73.732	0.832	0.832	4.7	13.716	0.000	0.000	2.4	23.427	1.886	OK
FSR: 100 years: +45 %: 360 mins: Summer	73.519	73.519	0.619	0.619	4.6	10.587	0.000	0.000	2.5	26.147	24.267	OK
FSR: 100 years: +45 %: 360 mins: Winter	73.639	73.639	0.739	0.739	3.4	12.640	0.000	0.000	2.1	29.253	9.588	OK

FSR: 100 years: +45 %: 480 mins: Summer	73.469	73.469	0.569	0.569	3.8	9.726	0.000	0.000	2.2	27.826	30.428	OK
FSR: 100 years: +45 %: 480 mins: Winter	73.572	73.572	0.672	0.672	2.7	11.498	0.000	0.000	1.9	31.102	17.752	OK
FSR: 100 years: +45 %: 600 mins: Summer	73.425	73.425	0.525	0.525	3.2	8.978	0.000	0.000	2.0	29.104	35.780	OK
FSR: 100 years: +45 %: 600 mins: Winter	73.505	73.505	0.605	0.605	2.3	10.352	0.000	0.000	1.7	32.589	25.951	OK
FSR: 100 years: +45 %: 720 mins: Summer	73.379	73.379	0.479	0.479	2.7	8.191	0.000	0.000	1.8	30.178	41.410	OK
FSR: 100 years: +45 %: 720 mins: Winter	73.437	73.437	0.537	0.537	2.0	9.177	0.000	0.000	1.5	33.919	34.359	OK
FSR: 100 years: +45 %: 960 mins: Summer	73.297	73.297	0.397	0.397	2.2	6.791	0.000	0.000	1.6	32.037	51.426	OK
FSR: 100 years: +45 %: 960 mins: Winter	73.306	73.306	0.406	0.406	1.6	6.936	0.000	0.000	1.3	35.755	50.384	OK
FSR: 100 years: +45 %: 1440 mins: Summer	73.142	73.142	0.242	0.242	1.6	4.140	0.000	0.000	1.4	35.013	70.386	OK
FSR: 100 years: +45 %: 1440 mins: Winter	73.083	73.083	0.183	0.183	1.1	3.127	0.000	0.000	1.1	38.900	77.634	OK
FSR: 100 years: +45 %: 2160 mins: Summer	72.976	72.976	0.076	0.076	1.1	1.305	0.000	0.000	1.1	38.703	90.662	OK
FSR: 100 years: +45 %: 2160 mins: Winter	72.925	72.925	0.025	0.025	0.8	0.432	0.000	0.000	0.8	42.399	96.911	OK
FSR: 100 years: +45 %: 2880 mins: Summer	72.927	72.927	0.027	0.027	0.9	0.454	0.000	0.000	0.9	39.834	96.753	OK
FSR: 100 years: +45 %: 2880 mins: Winter	72.923	72.923	0.023	0.023	0.6	0.385	0.000	0.000	0.6	45.557	97.247	OK
FSR: 100 years: +45 %: 4320 mins: Summer	72.922	72.922	0.022	0.022	0.6	0.382	0.000	0.000	0.6	41.108	97.269	OK
FSR: 100 years: +45 %: 4320 mins: Winter	72.919	72.919	0.019	0.019	0.5	0.329	0.000	0.000	0.5	46.849	97.645	OK
FSR: 100 years: +45 %: 5760 mins: Summer	72.920	72.920	0.020	0.020	0.5	0.346	0.000	0.000	0.5	40.719	97.522	OK

FSR: 100 years: +45 %: 5760 mins: Winter	72.917	72.917	0.017	0.017	0.4	0.292	0.000	0.000	0.4	48.416	97.908	OK
FSR: 100 years: +45 %: 7200 mins: Summer	72.918	72.918	0.018	0.018	0.4	0.304	0.000	0.000	0.4	39.477	97.826	OK
FSR: 100 years: +45 %: 7200 mins: Winter	72.916	72.916	0.016	0.016	0.3	0.268	0.000	0.000	0.3	48.222	98.080	OK
FSR: 100 years: +45 %: 8640 mins: Summer	72.917	72.917	0.017	0.017	0.4	0.292	0.000	0.000	0.4	39.738	97.908	OK
FSR: 100 years: +45 %: 8640 mins: Winter	72.914	72.914	0.014	0.014	0.3	0.242	0.000	0.000	0.3	47.928	98.267	OK
FSR: 100 years: +45 %: 10080 mins: Summer	72.916	72.916	0.016	0.016	0.4	0.281	0.000	0.000	0.3	38.859	97.992	OK
FSR: 100 years: +45 %: 10080 mins: Winter	72.914	72.914	0.014	0.014	0.2	0.233	0.000	0.000	0.2	47.088	98.334	OK

Summary Results for Deepbore Soakaway: Rank By: Max. Avg. Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
FSR: 100 years: +45 %: 15 mins: Summer	73.328	73.328	18.178	18.178	1.7	0.322	0.000	1.015	0.0	0.000	-65.435	OK
FSR: 100 years: +45 %: 15 mins: Winter	73.377	73.377	18.227	18.227	1.6	0.322	0.000	1.041	0.0	0.000	-65.883	OK
FSR: 100 years: +45 %: 30 mins: Summer	73.465	73.465	18.315	18.315	1.8	0.324	0.000	2.284	0.0	0.000	-66.688	OK
FSR: 100 years: +45 %: 30 mins: Winter	73.514	73.514	18.364	18.364	2.2	0.325	0.000	2.320	0.0	0.000	-67.130	OK
FSR: 100 years: +45 %: 60 mins: Summer	73.562	73.562	18.412	18.412	2.1	0.326	0.000	4.905	0.0	0.000	-67.568	OK
FSR: 100 years: +45 %: 60 mins: Winter	73.684	73.684	18.534	18.534	2.0	0.328	0.000	4.947	0.0	0.000	-68.677	OK
FSR: 100 years: +45 %: 120 mins: Summer	73.640	73.640	18.490	18.490	2.2	0.327	0.000	10.181	0.0	0.000	-68.275	OK
FSR: 100 years: +45 %: 120 mins: Winter	73.822	73.822	18.672	18.672	2.0	0.330	0.000	10.262	0.0	0.000	-69.931	OK
FSR: 100 years: +45 %: 180 mins: Summer	73.636	73.636	18.486	18.486	2.1	0.327	0.000	15.407	0.0	0.000	-68.236	OK
FSR: 100 years: +45 %: 180 mins: Winter	73.843	73.843	18.693	18.693	2.2	0.331	0.000	15.531	0.0	0.000	-70.120	OK
FSR: 100 years: +45 %: 240 mins: Summer	73.609	73.609	18.459	18.459	1.9	0.327	0.000	20.503	0.0	0.000	-67.991	OK
FSR: 100 years: +45 %: 240 mins: Winter	73.765	73.765	18.615	18.615	2.2	0.329	0.000	20.732	0.0	0.000	-69.416	OK
FSR: 100 years: +45 %: 360 mins: Summer	73.562	73.562	18.412	18.412	2.1	0.326	0.000	26.071	0.0	0.000	-67.569	OK
FSR: 100 years: +45 %: 360 mins: Winter	73.681	73.681	18.531	18.531	2.1	0.328	0.000	29.155	0.0	0.000	-68.647	OK

FSR: 100 years: +45 %: 480 mins: Summer	73.514	73.514	18.364	18.364	2.2	0.325	0.000	27.759	0.0	0.000	-67.128	OK
FSR: 100 years: +45 %: 480 mins: Winter	73.610	73.610	18.460	18.460	2.1	0.327	0.000	31.025	0.0	0.000	-68.005	OK
FSR: 100 years: +45 %: 600 mins: Summer	73.475	73.475	18.325	18.325	2.1	0.324	0.000	29.046	0.0	0.000	-66.779	OK
FSR: 100 years: +45 %: 600 mins: Winter	73.558	73.558	18.408	18.408	2.2	0.326	0.000	32.533	0.0	0.000	-67.534	OK
FSR: 100 years: +45 %: 720 mins: Summer	73.411	73.411	18.261	18.261	2.1	0.323	0.000	30.120	0.0	0.000	-66.188	OK
FSR: 100 years: +45 %: 720 mins: Winter	73.477	73.477	18.327	18.327	2.2	0.324	0.000	33.876	0.0	0.000	-66.791	OK
FSR: 100 years: +45 %: 960 mins: Summer	73.337	73.337	18.187	18.187	2.1	0.322	0.000	31.999	0.0	0.000	-65.519	OK
FSR: 100 years: +45 %: 960 mins: Winter	73.354	73.354	18.204	18.204	2.2	0.322	0.000	35.707	0.0	0.000	-65.674	OK
FSR: 100 years: +45 %: 1440 mins: Summer	73.184	73.184	18.034	18.034	2.1	0.319	0.000	34.979	0.0	0.000	-64.123	OK
FSR: 100 years: +45 %: 1440 mins: Winter	73.123	73.123	17.973	17.973	2.2	0.318	0.000	38.864	0.0	0.000	-63.575	OK
FSR: 100 years: +45 %: 2160 mins: Summer	73.021	73.021	17.871	17.871	2.1	0.316	0.000	38.675	0.0	0.000	-62.640	OK
FSR: 100 years: +45 %: 2160 mins: Winter	72.239	72.239	17.089	17.089	2.1	0.302	0.000	42.366	0.0	0.000	-55.528	OK
FSR: 100 years: +45 %: 2880 mins: Summer	72.236	72.236	17.086	17.086	2.0	0.302	0.000	39.811	0.0	0.000	-55.496	OK
FSR: 100 years: +45 %: 2880 mins: Winter	70.464	70.464	15.314	15.314	0.6	0.271	0.000	45.557	0.0	0.000	-39.374	OK
FSR: 100 years: +45 %: 4320 mins: Summer	70.231	70.231	15.081	15.081	0.6	0.267	0.000	41.108	0.0	0.000	-37.251	OK
FSR: 100 years: +45 %: 4320 mins: Winter	66.461	66.461	11.311	11.311	0.5	0.200	0.000	46.849	0.0	0.000	-2.939	OK
FSR: 100 years: +45 %: 5760 mins: Summer	67.639	67.639	12.489	12.489	0.5	0.221	0.000	40.719	0.0	0.000	-13.662	OK

FSR: 100 years: +45 %: 5760 mins: Winter	64.104	64.104	8.954	8.954	0.4	0.158	0.000	48.416	0.0	0.000	18.507	OK
FSR: 100 years: +45 %: 7200 mins: Summer	64.811	64.811	9.661	9.661	0.4	0.171	0.000	39.477	0.0	0.000	12.073	OK
FSR: 100 years: +45 %: 7200 mins: Winter	62.691	62.691	7.541	7.541	0.3	0.133	0.000	48.222	0.0	0.000	31.374	OK
FSR: 100 years: +45 %: 8640 mins: Summer	64.104	64.104	8.954	8.954	0.4	0.158	0.000	39.738	0.0	0.000	18.507	OK
FSR: 100 years: +45 %: 8640 mins: Winter	61.277	61.277	6.127	6.127	0.3	0.108	0.000	47.928	0.0	0.000	44.241	OK
FSR: 100 years: +45 %: 10080 mins: Summer	63.397	63.397	8.247	8.247	0.3	0.146	0.000	38.859	0.0	0.000	24.940	OK
FSR: 100 years: +45 %: 10080 mins: Winter	60.805	60.805	5.655	5.655	0.2	0.100	0.000	47.088	0.0	0.000	48.531	OK

Summary Results for SWP-01: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.167	0.050	0.784	0.5	0.29	1.8	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.168	0.051	0.886	0.5	0.31	1.9	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.160	0.040	1.037	0.4	0.2	1.2	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.161	0.042	1.163	0.4	0.21	1.3	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.158	0.038	1.295	0.4	0.17	1.0	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.157	0.036	1.457	0.4	0.16	0.9	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.154	0.032	1.583	0.4	0.12	0.8	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.151	0.028	1.763	0.3	0.1	0.6	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.151	0.028	1.745	0.3	0.1	0.6	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.149	0.024	1.949	0.3	0.07	0.4	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.149	0.025	1.859	0.3	0.08	0.5	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.147	0.022	2.075	0.3	0.06	0.4	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.147	0.022	2.009	0.3	0.06	0.4	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.144	0.019	2.291	0.3	0.04	0.3	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.145	0.020	2.165	0.3	0.05	0.3	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.143	0.017	2.423	0.2	0.03	0.2	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.144	0.018	2.255	0.3	0.04	0.2	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.142	0.016	2.525	0.2	0.03	0.2	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.143	0.017	2.327	0.2	0.03	0.2	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.141	0.014	2.651	0.2	0.02	0.2	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.142	0.015	2.507	0.2	0.03	0.2	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.140	0.013	2.771	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.140	0.013	2.639	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.139	0.011	3.113	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.139	0.011	2.957	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.137	0.009	3.191	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.138	0.010	3.281	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.136	0.008	3.521	0.2	0.01	0.1	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.136	0.008	3.360	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.135	0.007	3.995	0.2	0.01	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.135	0.007	3.180	0.2	0.01	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.134	0.006	4.218	0.2	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.134	0.006	3.024	0.2	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.134	0.005	3.540	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.134	0.006	3.012	0.2	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.134	0.005	3.630	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	RWP-01	SWC-01	74.730	74.134	0.006	3.018	0.2	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.134	0.005	3.744	0.1	0	0.0	OK

Summary Results for d1: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.724	0.043	1.127	0.8	0.12	2.6	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.724	0.044	1.256	0.8	0.13	2.7	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.719	0.035	1.482	0.7	0.08	1.7	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.720	0.036	1.656	0.7	0.08	1.8	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.718	0.033	1.854	0.7	0.07	1.5	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.717	0.031	2.070	0.7	0.06	1.3	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.715	0.027	2.244	0.6	0.05	1.1	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.714	0.025	2.508	0.6	0.04	0.9	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.714	0.024	2.472	0.6	0.04	0.8	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.712	0.021	2.772	0.5	0.03	0.6	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.713	0.022	2.646	0.5	0.03	0.7	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.711	0.019	2.964	0.5	0.02	0.5	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.711	0.019	2.892	0.5	0.02	0.5	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.709	0.016	3.264	0.5	0.02	0.4	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.710	0.017	3.078	0.5	0.02	0.4	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.708	0.015	3.414	0.4	0.01	0.3	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.709	0.016	3.192	0.4	0.02	0.3	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.708	0.013	3.570	0.4	0.01	0.3	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.708	0.015	3.342	0.4	0.01	0.3	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.707	0.013	3.750	0.4	0.01	0.2	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.708	0.013	3.522	0.4	0.01	0.2	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.707	0.011	3.942	0.4	0.01	0.2	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.707	0.011	3.864	0.4	0.01	0.2	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.706	0.010	4.254	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.706	0.010	4.086	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.705	0.008	4.746	0.3	0	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.705	0.009	4.362	0.3	0	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.704	0.007	4.800	0.3	0	0.1	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.704	0.007	5.028	0.3	0	0.1	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.703	0.006	5.346	0.3	0	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.703	0.007	5.388	0.3	0	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.703	0.005	5.880	0.3	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.703	0.006	5.094	0.3	0	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.702	0.005	6.222	0.2	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.703	0.005	4.878	0.2	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.702	0.005	6.636	0.2	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	Channel Drain 1	SWC-01	75.000	74.703	0.005	4.830	0.2	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.702	0.005	5.676	0.2	0	0.0	OK

Summary Results for SWP-02: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.159	0.046	0.547	0.3	0.19	1.2	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.160	0.047	0.613	0.4	0.2	1.3	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.154	0.037	0.719	0.3	0.13	0.8	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.155	0.038	0.809	0.3	0.14	0.9	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.152	0.035	0.905	0.3	0.11	0.7	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.151	0.033	1.013	0.3	0.1	0.6	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.149	0.029	1.103	0.3	0.08	0.5	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.147	0.026	1.229	0.3	0.06	0.4	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.147	0.026	1.217	0.3	0.06	0.4	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.145	0.023	1.355	0.2	0.05	0.3	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.145	0.024	1.289	0.2	0.05	0.3	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.143	0.020	1.439	0.2	0.04	0.2	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.143	0.020	1.397	0.2	0.04	0.2	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.141	0.017	1.553	0.2	0.03	0.2	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.142	0.018	1.493	0.2	0.03	0.2	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.141	0.016	1.703	0.2	0.02	0.2	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.141	0.017	1.583	0.2	0.03	0.2	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.139	0.014	1.751	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.141	0.016	1.613	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.139	0.013	1.841	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.139	0.014	1.721	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.138	0.012	1.895	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.138	0.012	1.937	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.137	0.010	2.087	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.137	0.010	2.273	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.135	0.008	2.315	0.1	0.01	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.136	0.009	2.112	0.1	0.01	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.135	0.008	2.561	0.1	0.01	0.0	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.135	0.008	2.016	0.1	0.01	0.0	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.134	0.007	2.238	0.1	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.134	0.007	1.938	0.1	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.134	0.006	2.352	0.1	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.134	0.006	1.818	0.1	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.134	0.005	2.334	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.134	0.006	1.968	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.133	0.005	2.172	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	RWP-02	SWC-01	74.730	74.134	0.006	1.818	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.133	0.005	2.298	0.1	0	0.0	OK

Summary Results for SWP-03: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.094	0.057	2.456	0.9	0.3	5.4	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.096	0.058	2.753	0.9	0.32	5.7	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.083	0.047	3.236	0.8	0.21	3.7	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.084	0.048	3.626	0.8	0.22	3.9	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.079	0.043	4.053	0.8	0.18	3.2	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.076	0.041	4.539	0.7	0.16	2.9	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.071	0.037	4.930	0.7	0.13	2.3	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.067	0.033	5.500	0.7	0.11	1.9	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.066	0.032	5.434	0.6	0.1	1.8	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.062	0.028	6.076	0.6	0.08	1.4	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.063	0.029	5.794	0.6	0.08	1.5	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.059	0.026	6.478	0.6	0.06	1.1	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.059	0.025	6.298	0.6	0.06	1.1	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.055	0.022	7.108	0.5	0.05	0.8	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.056	0.023	6.736	0.5	0.05	0.9	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.053	0.020	7.540	0.5	0.04	0.7	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.054	0.021	7.030	0.5	0.04	0.8	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.051	0.018	7.846	0.5	0.03	0.6	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.053	0.020	7.282	0.5	0.04	0.7	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.050	0.017	8.242	0.4	0.03	0.5	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.050	0.018	7.750	0.5	0.03	0.5	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.047	0.015	8.608	0.4	0.02	0.4	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.048	0.015	8.440	0.4	0.02	0.4	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.045	0.013	9.454	0.4	0.02	0.3	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.045	0.013	9.316	0.4	0.02	0.3	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.043	0.011	10.252	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.044	0.012	9.754	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.042	0.010	10.882	0.3	0.01	0.2	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.042	0.010	10.403	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.041	0.009	11.578	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.041	0.009	10.505	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.040	0.008	12.449	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.040	0.008	9.935	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.039	0.007	12.095	0.2	0	0.1	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.040	0.008	9.857	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.038	0.006	12.437	0.2	0	0.1	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	SWC-01	SWC-02	74.770	74.040	0.008	9.665	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.038	0.006	11.717	0.2	0	0.1	OK

Summary Results for SWP-04: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.100	0.036	0.500	0.4	0.09	1.1	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.101	0.037	0.560	0.5	0.1	1.2	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.097	0.030	0.653	0.4	0.06	0.8	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.097	0.031	0.737	0.4	0.07	0.8	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.096	0.028	0.828	0.4	0.05	0.7	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.095	0.026	0.918	0.4	0.05	0.6	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.093	0.024	0.996	0.3	0.04	0.5	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.092	0.021	1.122	0.3	0.03	0.4	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.092	0.021	1.098	0.3	0.03	0.4	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.091	0.019	1.236	0.3	0.02	0.3	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.091	0.019	1.170	0.3	0.02	0.3	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.090	0.017	1.314	0.3	0.02	0.2	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.090	0.017	1.284	0.3	0.02	0.2	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.088	0.014	1.440	0.2	0.01	0.2	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.089	0.015	1.386	0.2	0.01	0.2	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.087	0.013	1.506	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.088	0.014	1.422	0.2	0.01	0.2	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.087	0.012	1.596	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.087	0.013	1.446	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.086	0.011	1.686	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.087	0.012	1.560	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.086	0.010	1.704	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.086	0.010	1.776	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.085	0.009	1.902	0.2	0	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.085	0.009	1.968	0.2	0	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.084	0.007	2.196	0.2	0	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.084	0.007	1.830	0.2	0	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.083	0.006	2.358	0.2	0	0.0	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.083	0.006	1.710	0.2	0	0.0	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.083	0.005	2.016	0.1	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.083	0.006	1.722	0.2	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.083	0.005	2.142	0.1	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.083	0.005	1.644	0.1	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.083	0.005	1.908	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.083	0.005	1.758	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.082	0.004	1.974	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	RWP-05	SWC-02	74.680	74.083	0.005	1.692	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.082	0.004	2.178	0.1	0	0.0	OK

Summary Results for d2: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.064	0.042	1.013	0.7	0.24	2.3	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.065	0.044	1.133	0.7	0.25	2.4	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.056	0.034	1.331	0.7	0.16	1.5	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.057	0.035	1.493	0.7	0.17	1.6	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.054	0.031	1.673	0.6	0.14	1.3	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.053	0.030	1.865	0.6	0.13	1.2	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.050	0.026	2.015	0.6	0.1	1.0	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.048	0.024	2.261	0.5	0.08	0.8	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.047	0.023	2.243	0.5	0.08	0.8	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.045	0.020	2.501	0.5	0.06	0.6	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.046	0.021	2.393	0.5	0.07	0.6	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.044	0.018	2.681	0.5	0.05	0.5	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.043	0.018	2.609	0.5	0.05	0.5	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.041	0.016	2.909	0.4	0.04	0.3	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.042	0.017	2.747	0.4	0.04	0.4	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.040	0.014	3.101	0.4	0.03	0.3	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.041	0.015	2.891	0.4	0.03	0.3	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.039	0.013	3.245	0.4	0.02	0.2	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.040	0.014	3.017	0.4	0.03	0.3	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.038	0.012	3.353	0.4	0.02	0.2	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.039	0.013	3.203	0.4	0.02	0.2	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.037	0.011	3.581	0.3	0.02	0.2	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.037	0.011	3.425	0.3	0.02	0.2	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.036	0.009	3.869	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.036	0.009	3.683	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.035	0.008	4.079	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.035	0.008	4.007	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.034	0.007	4.349	0.3	0.01	0.1	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.034	0.007	4.721	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.033	0.006	4.973	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.033	0.006	4.487	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.033	0.005	5.387	0.3	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.033	0.005	4.325	0.3	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.032	0.005	5.789	0.3	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.033	0.005	4.247	0.3	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.032	0.004	4.979	0.3	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	Channel Drain 3	SWC-03	74.628	74.032	0.005	4.109	0.3	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.031	0.003	4.721	0.2	0	0.0	OK

Summary Results for SWP-05: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.997	0.038	0.505	0.4	0.16	1.1	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.998	0.040	0.565	0.4	0.18	1.2	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.992	0.031	0.665	0.4	0.11	0.8	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.993	0.032	0.749	0.4	0.12	0.8	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.991	0.029	0.839	0.4	0.1	0.7	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.990	0.027	0.935	0.3	0.09	0.6	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.988	0.024	1.013	0.3	0.07	0.5	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.986	0.022	1.139	0.3	0.06	0.4	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.985	0.022	1.127	0.3	0.05	0.4	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.984	0.019	1.253	0.3	0.04	0.3	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.984	0.020	1.193	0.3	0.05	0.3	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.982	0.017	1.325	0.3	0.03	0.2	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.982	0.017	1.289	0.3	0.03	0.2	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.981	0.015	1.445	0.2	0.03	0.2	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.981	0.016	1.415	0.2	0.03	0.2	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.980	0.013	1.523	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.980	0.014	1.439	0.2	0.02	0.2	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.979	0.012	1.607	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.980	0.013	1.481	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.978	0.011	1.715	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.979	0.012	1.571	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.977	0.010	1.751	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.977	0.010	1.799	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.976	0.009	1.919	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.976	0.009	2.022	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.974	0.007	2.195	0.2	0.01	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.974	0.007	1.866	0.2	0.01	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.974	0.006	2.418	0.2	0	0.0	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.974	0.006	1.764	0.2	0	0.0	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.973	0.005	2.028	0.2	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.974	0.006	1.728	0.2	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.973	0.005	2.208	0.2	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.973	0.005	1.644	0.2	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.973	0.005	1.992	0.2	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.973	0.005	1.764	0.2	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.972	0.004	2.070	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	RWP-03	SWC-03	74.730	73.973	0.005	1.698	0.2	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.972	0.003	2.178	0.1	0	0.0	OK

Summary Results for SWP-06: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.116	0.040	0.481	0.4	0.15	1.0	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.117	0.041	0.535	0.4	0.16	1.1	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.108	0.032	0.635	0.3	0.11	0.7	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.109	0.033	0.707	0.3	0.11	0.8	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.105	0.030	0.791	0.3	0.09	0.6	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.104	0.028	0.893	0.3	0.08	0.6	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.101	0.025	0.965	0.3	0.07	0.5	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.098	0.022	1.085	0.3	0.05	0.4	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.098	0.022	1.055	0.3	0.05	0.4	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.095	0.019	1.169	0.3	0.04	0.3	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.096	0.019	1.139	0.3	0.04	0.3	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.093	0.017	1.271	0.3	0.03	0.2	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.093	0.017	1.241	0.3	0.03	0.2	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.091	0.014	1.385	0.2	0.02	0.2	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.092	0.015	1.325	0.2	0.03	0.2	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.090	0.013	1.445	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.091	0.014	1.349	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.089	0.012	1.553	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.090	0.013	1.403	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.088	0.011	1.625	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.089	0.011	1.499	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.087	0.010	1.637	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.087	0.010	1.721	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.086	0.008	1.829	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.086	0.008	1.860	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.085	0.007	2.105	0.2	0.01	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.085	0.007	1.728	0.2	0.01	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.084	0.006	2.310	0.2	0	0.0	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.084	0.006	1.656	0.2	0	0.0	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.084	0.005	1.920	0.2	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.084	0.005	1.590	0.2	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.084	0.005	2.010	0.2	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.084	0.005	1.638	0.2	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.083	0.004	1.812	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.084	0.005	1.560	0.2	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.083	0.004	1.968	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	RWP-06	SWC-04	74.680	74.084	0.005	1.572	0.2	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.083	0.004	2.058	0.1	0	0.0	OK

Summary Results for SWP-07: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.111	0.087	1.999	0.6	0.42	4.4	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.113	0.095	2.233	0.6	0.44	4.6	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.103	0.066	2.631	0.6	0.29	3.0	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.104	0.069	2.949	0.6	0.3	3.2	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.101	0.060	3.304	0.5	0.25	2.6	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.099	0.056	3.700	0.5	0.23	2.4	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.096	0.049	4.000	0.5	0.18	1.9	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.093	0.043	4.486	0.5	0.15	1.5	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.092	0.042	4.414	0.5	0.14	1.5	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.089	0.037	4.936	0.4	0.11	1.1	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.090	0.038	4.720	0.4	0.12	1.2	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.087	0.033	5.272	0.4	0.09	0.9	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.087	0.032	5.140	0.4	0.09	0.9	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.084	0.027	5.728	0.4	0.06	0.7	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.085	0.029	5.470	0.4	0.07	0.7	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.082	0.025	6.064	0.4	0.05	0.5	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.084	0.026	5.680	0.4	0.06	0.6	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.081	0.022	6.394	0.3	0.04	0.5	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.082	0.025	5.932	0.4	0.05	0.5	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.080	0.021	6.658	0.3	0.04	0.4	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.081	0.022	6.280	0.3	0.04	0.4	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.079	0.019	7.000	0.3	0.03	0.3	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.079	0.019	6.880	0.3	0.03	0.3	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.077	0.016	7.630	0.3	0.02	0.2	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.077	0.016	7.523	0.3	0.02	0.2	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.076	0.013	8.338	0.3	0.02	0.2	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.076	0.014	7.511	0.3	0.02	0.2	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.075	0.012	9.059	0.2	0.01	0.1	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.075	0.012	8.075	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.074	0.010	8.933	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.074	0.011	8.639	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.073	0.010	9.551	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.073	0.010	9.245	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.072	0.008	9.857	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.073	0.010	9.437	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.071	0.007	10.667	0.2	0	0.1	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	SWC-04	SWC-05	74.650	74.073	0.009	8.957	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.071	0.007	11.009	0.2	0	0.1	OK

Summary Results for SWP-08: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.058	0.090	2.953	0.6	0.26	6.4	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.060	0.098	3.310	0.6	0.27	6.8	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.050	0.070	3.887	0.6	0.18	4.5	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.051	0.072	4.361	0.6	0.19	4.7	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.047	0.063	4.880	0.6	0.16	3.9	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.045	0.059	5.456	0.5	0.14	3.5	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.041	0.052	5.925	0.5	0.11	2.8	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.037	0.046	6.621	0.5	0.09	2.3	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.037	0.045	6.531	0.5	0.09	2.2	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.033	0.039	7.311	0.5	0.07	1.7	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.034	0.040	6.963	0.5	0.07	1.8	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.031	0.034	7.791	0.4	0.05	1.4	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.031	0.034	7.581	0.4	0.05	1.3	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.027	0.029	8.547	0.4	0.04	1.0	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.028	0.031	8.121	0.4	0.04	1.1	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.025	0.026	9.045	0.4	0.03	0.8	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.027	0.028	8.451	0.4	0.04	0.9	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.024	0.024	9.441	0.4	0.03	0.7	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.025	0.026	8.727	0.4	0.03	0.8	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.023	0.022	9.927	0.4	0.02	0.6	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.024	0.023	9.309	0.4	0.03	0.6	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.021	0.020	10.311	0.3	0.02	0.5	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.021	0.020	10.215	0.3	0.02	0.5	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.019	0.017	11.355	0.3	0.01	0.3	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.019	0.017	11.283	0.3	0.01	0.3	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.017	0.014	12.447	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.018	0.015	11.584	0.3	0.01	0.3	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.016	0.013	13.239	0.3	0.01	0.2	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.016	0.013	12.113	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.015	0.011	13.594	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.016	0.012	12.227	0.2	0.01	0.2	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.014	0.010	14.590	0.2	0	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.015	0.010	11.579	0.2	0	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.014	0.009	14.003	0.2	0	0.1	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.014	0.010	11.615	0.2	0	0.1	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.013	0.008	14.411	0.2	0	0.1	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	SWC-02	SWC-05	74.670	74.014	0.010	11.357	0.2	0	0.1	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.013	0.008	13.895	0.2	0	0.1	OK

Summary Results for SWP-09: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.979	0.089	1.515	0.4	0.49	3.3	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.981	0.097	1.695	0.4	0.48	3.2	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.970	0.068	1.994	0.4	0.34	2.3	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.971	0.071	2.240	0.4	0.36	2.4	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.967	0.062	2.512	0.4	0.3	2.0	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.965	0.058	2.800	0.4	0.27	1.8	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.961	0.050	3.028	0.4	0.21	1.4	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.958	0.044	3.400	0.3	0.17	1.2	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.957	0.043	3.370	0.3	0.17	1.1	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.954	0.038	3.754	0.3	0.13	0.9	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.955	0.039	3.586	0.3	0.14	0.9	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.952	0.033	4.006	0.3	0.1	0.7	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.951	0.033	3.898	0.3	0.1	0.7	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.948	0.028	4.354	0.3	0.08	0.5	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.949	0.030	4.162	0.3	0.08	0.6	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.947	0.025	4.624	0.3	0.06	0.4	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.948	0.027	4.330	0.3	0.07	0.5	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.945	0.023	4.852	0.3	0.05	0.3	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.947	0.025	4.498	0.3	0.06	0.4	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.944	0.021	5.068	0.2	0.04	0.3	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.945	0.022	4.774	0.3	0.05	0.3	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.943	0.019	5.332	0.2	0.04	0.2	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.943	0.019	5.224	0.2	0.04	0.2	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.941	0.016	5.788	0.2	0.03	0.2	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.941	0.016	5.704	0.2	0.03	0.2	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.939	0.014	6.274	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.940	0.014	5.873	0.2	0.02	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.938	0.012	6.766	0.2	0.01	0.1	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.938	0.012	6.485	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.937	0.011	7.001	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.938	0.011	6.215	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.937	0.010	7.595	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.937	0.010	5.969	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.936	0.009	7.781	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.937	0.010	6.011	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.935	0.008	7.049	0.1	0.01	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	SWC-03	SWC-05	74.650	73.936	0.009	5.807	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.934	0.007	6.899	0.1	0	0.0	OK

Summary Results for SWP-10: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.148	0.079	0.659	0.2	0.08	1.5	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.149	0.086	0.737	0.2	0.09	1.6	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.145	0.060	0.864	0.2	0.05	1.0	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.145	0.062	0.966	0.2	0.06	1.0	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.144	0.054	1.080	0.2	0.05	0.9	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.143	0.050	1.212	0.3	0.04	0.8	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.142	0.043	1.302	0.4	0.03	0.6	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.141	0.038	1.470	0.2	0.03	0.5	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.141	0.037	1.464	0.2	0.03	0.5	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.139	0.032	1.638	0.2	0.02	0.4	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.140	0.033	1.560	0.2	0.02	0.4	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.138	0.028	1.716	0.2	0.02	0.3	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.138	0.028	1.704	0.2	0.02	0.3	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.137	0.024	1.896	0.2	0.01	0.2	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.138	0.025	1.770	0.2	0.01	0.2	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.137	0.021	2.016	0.2	0.01	0.2	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.137	0.023	1.884	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.136	0.019	2.136	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.137	0.021	1.974	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.136	0.018	2.172	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.136	0.019	2.052	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.135	0.016	2.352	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.135	0.016	2.220	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.134	0.014	2.436	0.1	0	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.134	0.014	2.592	0.1	0	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.133	0.011	2.742	0.1	0	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.134	0.012	2.808	0.1	0	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.133	0.010	2.970	0.1	0	0.0	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.133	0.010	2.538	0.1	0	0.0	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.132	0.009	3.372	0.1	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.132	0.009	2.424	0.1	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.132	0.008	2.766	0.1	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.132	0.008	2.412	0.1	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.132	0.007	2.940	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.132	0.008	2.382	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.132	0.007	3.006	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	RWP-04	SWC-06	74.730	74.132	0.008	2.304	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.132	0.007	2.670	0.1	0	0.0	OK

Summary Results for d4: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.011	0.075	0.344	0.1	0.03	0.8	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.011	0.082	0.380	0.1	0.03	0.8	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.009	0.057	0.450	0.1	0.02	0.5	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.009	0.059	0.504	0.1	0.02	0.6	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.008	0.051	0.558	0.1	0.02	0.4	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.008	0.047	0.636	0.2	0.02	0.4	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.007	0.041	0.684	0.2	0.01	0.3	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.007	0.036	0.774	0.1	0.01	0.3	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.006	0.035	0.756	0.1	0.01	0.3	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.006	0.030	0.834	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.006	0.031	0.804	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.005	0.027	0.918	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.005	0.027	0.876	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.004	0.022	0.978	0.1	0	0.1	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.005	0.024	0.930	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.004	0.020	1.068	0.1	0	0.1	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.004	0.022	0.966	0.1	0	0.1	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.004	0.018	1.068	0.1	0	0.1	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.004	0.020	1.026	0.1	0	0.1	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.003	0.017	1.116	0.1	0	0.1	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.003	0.018	1.146	0.1	0	0.1	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.003	0.015	1.212	0.1	0	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.003	0.015	1.218	0.1	0	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.002	0.013	1.398	0.1	0	0.0	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.002	0.013	1.104	0.1	0	0.0	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.002	0.011	1.344	0.1	0	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.002	0.011	1.074	0.1	0	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.002	0.010	1.278	0.1	0	0.0	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.002	0.010	1.086	0.1	0	0.0	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.002	0.008	1.296	0.1	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.002	0.009	1.038	0.1	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.002	0.007	1.314	0.1	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.002	0.008	0.954	0.1	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.001	0.007	1.386	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.002	0.007	1.038	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.001	0.006	1.452	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	Channel Drain 4	SWC-06	74.232	74.001	0.007	1.086	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.001	0.006	1.452	0.1	0	0.0	OK

Summary Results for SWP-11: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.951	0.134	6.463	0.8	0.76	13.4	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.964	0.148	7.233	0.8	0.76	13.6	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.918	0.100	8.510	0.8	0.55	9.8	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.922	0.105	9.548	0.8	0.58	10.4	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.908	0.090	10.694	0.8	0.48	8.6	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.902	0.084	11.954	0.8	0.43	7.7	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.891	0.072	12.952	0.7	0.35	6.1	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.882	0.063	14.507	0.7	0.28	4.9	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.881	0.062	14.315	0.7	0.27	4.8	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.872	0.053	16.001	0.7	0.21	3.7	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.874	0.055	15.269	0.7	0.22	4.0	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.866	0.047	17.069	0.6	0.17	3.0	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.866	0.046	16.619	0.6	0.17	2.9	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.859	0.039	18.629	0.6	0.12	2.2	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.861	0.041	17.753	0.6	0.13	2.4	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.855	0.035	19.733	0.6	0.1	1.7	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.857	0.038	18.461	0.6	0.11	2.0	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.851	0.031	20.687	0.5	0.08	1.4	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.855	0.035	19.157	0.6	0.1	1.7	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.849	0.029	21.653	0.5	0.07	1.3	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.851	0.031	20.363	0.5	0.08	1.4	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.846	0.026	22.643	0.5	0.06	1.0	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.846	0.026	22.319	0.5	0.06	1.0	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.842	0.022	24.773	0.4	0.04	0.7	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.842	0.022	24.510	0.4	0.04	0.7	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.839	0.019	27.059	0.4	0.03	0.5	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.840	0.019	24.967	0.4	0.03	0.6	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.837	0.017	29.064	0.4	0.02	0.4	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.837	0.017	26.672	0.4	0.02	0.4	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.835	0.014	29.527	0.3	0.02	0.3	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.836	0.015	27.081	0.4	0.02	0.3	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.834	0.013	31.736	0.3	0.01	0.3	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.834	0.013	26.793	0.3	0.01	0.3	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.832	0.012	31.640	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.834	0.013	27.063	0.3	0.01	0.3	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.831	0.011	32.127	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	SWC-05	SWC-06	74.700	73.833	0.013	26.121	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.831	0.010	31.803	0.3	0.01	0.2	OK

Summary Results for SWP-12: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.912	0.141	7.461	0.9	0.84	15.1	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.926	0.150	8.345	0.9	0.85	15.1	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.877	0.109	9.820	0.8	0.64	11.4	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.882	0.113	11.014	0.8	0.67	12.0	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.866	0.097	12.329	0.8	0.55	9.9	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.860	0.090	13.799	0.8	0.5	8.9	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.848	0.078	14.937	0.8	0.4	7.1	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.838	0.086	16.750	0.7	0.32	5.7	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.837	0.066	16.534	0.7	0.31	5.5	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.828	0.083	18.472	0.7	0.24	4.3	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.830	0.059	17.632	0.7	0.26	4.6	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.821	0.050	19.702	0.7	0.19	3.4	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.821	0.050	19.198	0.7	0.19	3.4	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.813	0.042	21.502	0.6	0.14	2.5	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.816	0.044	20.452	0.6	0.16	2.8	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.809	0.037	22.816	0.6	0.11	2.0	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.812	0.040	21.310	0.6	0.13	2.3	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.806	0.034	23.890	0.6	0.09	1.7	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.809	0.037	22.156	0.6	0.11	2.0	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.803	0.031	24.940	0.5	0.08	1.5	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.805	0.033	23.560	0.6	0.09	1.6	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.800	0.028	26.206	0.5	0.06	1.2	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.800	0.028	25.756	0.5	0.07	1.2	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.796	0.024	28.606	0.5	0.05	0.8	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.796	0.024	28.205	0.5	0.05	0.8	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.792	0.020	31.144	0.4	0.03	0.6	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.793	0.021	28.848	0.4	0.04	0.6	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.790	0.018	33.311	0.4	0.03	0.5	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.790	0.018	30.295	0.4	0.03	0.5	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.788	0.015	34.195	0.4	0.02	0.3	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.789	0.016	30.542	0.4	0.02	0.4	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.786	0.014	35.815	0.3	0.02	0.3	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.787	0.014	30.158	0.4	0.02	0.3	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.785	0.013	35.966	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.786	0.014	30.482	0.3	0.02	0.3	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.784	0.011	36.584	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	SWC-06	SWC-07	74.700	73.786	0.013	29.510	0.3	0.01	0.3	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.784	0.011	35.924	0.3	0.01	0.2	OK

Summary Results for SWP-13: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.858	0.100	0.578	0.2	0.05	0.8	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.865	0.100	0.647	0.2	0.07	1.1	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.828	0.081	0.761	0.2	0.06	0.9	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.833	0.085	0.852	0.2	0.06	0.9	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.816	0.069	0.948	0.3	0.05	0.8	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.809	0.061	1.068	0.3	0.04	0.7	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.795	0.048	1.157	0.4	0.04	0.6	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.829	0.082	1.290	0.1	0.03	0.4	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.791	0.040	1.284	0.2	0.03	0.4	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.827	0.080	1.434	0.1	0.02	0.3	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.790	0.036	1.350	0.1	0.02	0.4	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.789	0.030	1.536	0.3	0.02	0.3	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.789	0.030	1.476	0.1	0.02	0.3	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.787	0.025	1.662	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.788	0.027	1.572	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.787	0.023	1.770	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.787	0.025	1.686	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.786	0.021	1.842	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.787	0.023	1.704	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.786	0.019	1.926	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.786	0.020	1.776	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.785	0.017	2.076	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.785	0.017	1.992	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.784	0.014	2.172	0.1	0	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.784	0.014	2.334	0.1	0	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.784	0.012	2.490	0.1	0	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.784	0.013	2.244	0.1	0	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.783	0.011	2.700	0.1	0	0.0	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.783	0.011	2.124	0.1	0	0.0	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.783	0.009	2.484	0.1	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.783	0.010	2.070	0.1	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.782	0.008	2.484	0.1	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.782	0.008	1.986	0.1	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.782	0.008	2.508	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.782	0.008	1.968	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.782	0.007	2.280	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	RWP-10	SWC-07	74.730	73.782	0.008	2.052	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.782	0.007	2.418	0.1	0	0.0	OK

Summary Results for SWP-14: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.013	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.014	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.011	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.011	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.010	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.010	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.009	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.008	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.008	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.007	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.007	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.006	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.005	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.004	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.003	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.003	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.003	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.003	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.003	0.000	0.0	0	0.0	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.002	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.002	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.002	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.002	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.002	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.002	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.002	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.001	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.002	0.000	0.0	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	RWP-07	SWC-08	74.730	74.130	0.001	0.000	0.0	0	0.0	OK

Summary Results for SWP-15: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.105	0.026	0.545	0.8	0.13	1.2	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.105	0.026	0.614	0.8	0.13	1.3	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.100	0.021	0.719	0.7	0.09	0.8	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.101	0.022	0.803	0.7	0.09	0.9	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.099	0.020	0.905	0.7	0.07	0.7	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.098	0.019	1.007	0.6	0.07	0.6	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.096	0.017	1.103	0.6	0.05	0.5	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.094	0.015	1.217	0.6	0.04	0.4	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.094	0.015	1.211	0.6	0.04	0.4	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.092	0.013	1.349	0.5	0.03	0.3	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.093	0.013	1.277	0.5	0.03	0.3	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.091	0.012	1.439	0.5	0.03	0.3	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.091	0.012	1.397	0.5	0.03	0.2	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.090	0.010	1.553	0.4	0.02	0.2	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.090	0.011	1.493	0.4	0.02	0.2	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.089	0.009	1.691	0.4	0.02	0.1	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.089	0.010	1.577	0.4	0.02	0.2	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.088	0.008	1.751	0.4	0.01	0.1	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.089	0.009	1.601	0.4	0.02	0.1	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.088	0.008	1.829	0.4	0.01	0.1	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.088	0.008	1.715	0.4	0.01	0.1	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.087	0.007	1.889	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.087	0.007	1.901	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.086	0.006	2.075	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.086	0.006	2.249	0.3	0.01	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.085	0.005	2.315	0.3	0	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.085	0.006	2.112	0.3	0.01	0.0	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.085	0.005	2.556	0.3	0	0.0	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.084	0.004	1.920	0.3	0	0.0	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.084	0.004	2.232	0.3	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.084	0.004	1.938	0.3	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.083	0.003	2.352	0.0	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.083	0.003	1.818	0.3	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.083	0.003	2.334	0.0	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.083	0.003	1.968	0.0	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.082	0.002	2.076	0.0	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	RWP-08	SWC-08	74.730	74.083	0.003	1.818	0.0	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.082	0.002	2.298	0.0	0	0.0	OK

Summary Results for d3: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.181	0.041	1.520	1.1	0.21	3.4	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.183	0.043	1.700	1.1	0.22	3.6	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.173	0.033	1.998	1.0	0.14	2.3	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.174	0.034	2.244	1.0	0.15	2.4	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.170	0.031	2.514	1.0	0.12	2.0	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.169	0.029	2.808	1.0	0.11	1.8	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.166	0.026	3.036	0.9	0.09	1.4	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.163	0.023	3.402	0.9	0.07	1.2	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.162	0.022	3.360	0.9	0.07	1.1	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.160	0.020	3.768	0.8	0.05	0.9	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.161	0.020	3.582	0.8	0.06	0.9	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.158	0.017	4.002	0.8	0.04	0.7	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.158	0.017	3.900	0.8	0.04	0.7	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.156	0.015	4.344	0.7	0.03	0.5	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.156	0.016	4.146	0.7	0.03	0.6	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.154	0.013	4.620	0.7	0.02	0.4	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.155	0.014	4.332	0.7	0.03	0.5	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.153	0.012	4.842	0.6	0.02	0.3	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.154	0.013	4.530	0.7	0.02	0.4	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.153	0.011	5.034	0.6	0.02	0.3	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.153	0.012	4.782	0.6	0.02	0.3	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.152	0.010	5.364	0.6	0.01	0.2	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.152	0.010	5.160	0.6	0.01	0.2	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.150	0.009	5.802	0.5	0.01	0.2	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.150	0.009	5.663	0.5	0.01	0.2	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.149	0.007	6.233	0.4	0.01	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.149	0.008	5.783	0.5	0.01	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.149	0.007	6.749	0.4	0.01	0.1	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.149	0.007	6.419	0.4	0.01	0.1	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.148	0.006	7.013	0.4	0	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.148	0.006	7.049	0.4	0	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.148	0.005	7.541	0.4	0	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.148	0.005	7.607	0.4	0	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.147	0.005	8.045	0.4	0	0.1	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.148	0.005	7.877	0.4	0	0.1	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.147	0.004	8.699	0.4	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	Channel Drain 2	SWC-04	74.443	74.147	0.005	7.385	0.4	0	0.1	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.147	0.004	8.951	0.4	0	0.0	OK

Summary Results for SWP-16: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.956	0.068	1.447	0.6	0.16	3.3	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.956	0.070	1.624	0.6	0.17	3.4	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.951	0.057	1.907	0.5	0.11	2.2	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.951	0.059	2.129	0.5	0.12	2.3	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.949	0.052	2.393	0.6	0.1	1.9	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.948	0.049	2.681	0.6	0.09	1.7	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.946	0.043	2.903	0.6	0.07	1.4	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.945	0.100	3.239	0.6	0.06	1.1	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.944	0.037	3.215	0.7	0.05	1.1	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.943	0.100	3.569	0.4	0.04	0.8	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.943	0.033	3.395	0.6	0.04	0.9	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.941	0.063	3.815	0.4	0.03	0.7	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.941	0.028	3.719	0.4	0.03	0.7	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.939	0.024	4.151	0.3	0.02	0.5	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.940	0.025	3.947	0.3	0.03	0.5	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.938	0.021	4.445	0.3	0.02	0.4	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.939	0.023	4.157	0.3	0.02	0.5	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.938	0.019	4.661	0.3	0.02	0.3	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.938	0.021	4.253	0.4	0.02	0.4	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.937	0.018	4.829	0.3	0.01	0.3	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.937	0.019	4.583	0.3	0.02	0.3	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.936	0.016	5.039	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.936	0.016	4.943	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.935	0.014	5.591	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.935	0.014	5.537	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.934	0.011	5.939	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.935	0.012	5.766	0.2	0.01	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.934	0.010	6.491	0.2	0.01	0.1	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.934	0.010	5.970	0.2	0	0.1	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.933	0.009	6.684	0.2	0	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.933	0.009	5.742	0.2	0	0.1	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.932	0.008	7.194	0.2	0	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.932	0.008	5.448	0.2	0	0.1	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.932	0.007	6.744	0.2	0	0.1	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.932	0.008	5.592	0.2	0	0.1	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.931	0.006	6.222	0.2	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	SWC-08	SWC-09	74.600	73.932	0.007	5.442	0.2	0	0.1	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.931	0.006	6.534	0.2	0	0.0	OK

Summary Results for SWP-17: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.719	0.097	10.153	1.6	0.61	19.7	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.723	0.100	11.367	1.6	0.63	20.5	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.702	0.083	13.386	1.6	0.48	15.5	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.706	0.085	15.000	1.6	0.5	16.3	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.694	0.076	16.798	1.5	0.41	13.4	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.689	0.079	18.821	1.5	0.37	12.1	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.678	0.062	20.380	1.4	0.3	9.7	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.829	0.150	22.829	1.3	0.24	7.8	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.669	0.054	22.560	1.3	0.23	7.5	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.826	0.150	25.183	1.2	0.18	5.8	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.663	0.048	24.001	1.3	0.19	6.2	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.732	0.150	26.887	1.2	0.14	4.7	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.654	0.041	26.173	1.2	0.14	4.6	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.647	0.060	29.288	1.1	0.1	3.4	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.649	0.037	27.847	1.1	0.12	3.8	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.643	0.031	31.123	1.0	0.08	2.7	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.646	0.034	29.125	1.1	0.1	3.2	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.640	0.028	32.611	1.0	0.07	2.3	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.643	0.031	30.199	1.0	0.08	2.7	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.638	0.027	33.943	0.9	0.06	2.0	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.639	0.028	32.059	1.0	0.07	2.2	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.635	0.023	35.779	0.9	0.05	1.6	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.635	0.024	35.035	0.9	0.05	1.6	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.631	0.020	38.929	0.8	0.04	1.1	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.631	0.020	38.726	0.8	0.04	1.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.627	0.017	42.422	0.7	0.02	0.8	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.628	0.018	39.862	0.8	0.03	0.9	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.626	0.015	45.579	0.7	0.02	0.6	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.626	0.015	41.129	0.7	0.02	0.6	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.623	0.013	46.889	0.6	0.01	0.5	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.624	0.014	40.908	0.7	0.02	0.5	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.622	0.012	48.467	0.6	0.01	0.4	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.622	0.012	40.182	0.6	0.01	0.4	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.621	0.011	48.324	0.6	0.01	0.3	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.622	0.012	40.530	0.6	0.01	0.4	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.620	0.010	48.198	0.5	0.01	0.3	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	SWC-09	Att Tank	74.550	73.622	0.011	39.540	0.6	0.01	0.4	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.620	0.009	48.012	0.5	0.01	0.2	OK

Summary Results for SWP-18: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.857	0.136	8.032	0.9	0.87	15.4	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.864	0.143	8.985	0.9	0.89	15.9	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.827	0.110	10.579	0.9	0.69	12.3	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.832	0.114	11.863	0.9	0.73	12.9	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.815	0.099	13.275	0.9	0.6	10.6	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.808	0.092	14.865	0.8	0.54	9.6	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.794	0.079	16.094	0.8	0.43	7.6	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.829	0.132	18.039	0.8	0.35	6.1	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.783	0.068	17.817	0.8	0.34	6.0	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.827	0.130	19.906	0.7	0.26	4.6	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.775	0.061	18.981	0.7	0.28	4.9	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.766	0.052	21.238	0.7	0.21	3.7	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.766	0.051	20.673	0.7	0.21	3.7	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.757	0.043	23.163	0.6	0.15	2.7	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.760	0.046	22.023	0.7	0.17	3.0	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.752	0.039	24.585	0.6	0.12	2.2	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.756	0.042	22.995	0.6	0.14	2.5	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.749	0.035	25.731	0.6	0.1	1.8	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.753	0.039	23.859	0.6	0.12	2.2	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.747	0.033	26.865	0.6	0.09	1.6	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.748	0.034	25.335	0.6	0.1	1.7	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.743	0.029	28.281	0.5	0.07	1.2	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.743	0.029	27.747	0.5	0.07	1.3	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.738	0.025	30.777	0.5	0.05	0.9	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.738	0.025	30.538	0.5	0.05	0.9	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.734	0.021	33.634	0.4	0.04	0.6	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.735	0.022	31.092	0.4	0.04	0.7	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.732	0.019	36.010	0.4	0.03	0.5	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.732	0.019	32.419	0.4	0.03	0.5	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.730	0.016	36.678	0.4	0.02	0.4	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.731	0.017	32.612	0.4	0.02	0.4	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.728	0.014	38.299	0.3	0.02	0.3	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.728	0.015	32.144	0.4	0.02	0.3	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.727	0.013	38.473	0.3	0.01	0.3	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.728	0.014	32.450	0.3	0.02	0.3	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.726	0.012	38.864	0.3	0.01	0.2	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	SWC-07	Simple Junction	74.700	73.728	0.014	31.562	0.3	0.02	0.3	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.725	0.012	38.342	0.3	0.01	0.2	OK

Summary Results for SWP-19: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.809	0.119	8.713	1.1	0.93	16.6	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.815	0.124	9.750	1.1	0.97	17.2	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.786	0.099	11.482	1.1	0.75	13.3	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.790	0.103	12.874	1.1	0.79	14.0	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.776	0.090	14.407	1.0	0.65	11.5	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.769	0.084	16.141	1.0	0.58	10.4	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.758	0.073	17.478	1.0	0.47	8.3	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.829	0.150	19.591	0.9	0.38	6.7	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.747	0.063	19.346	0.9	0.36	6.5	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.826	0.150	21.615	0.9	0.28	5.0	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.740	0.056	20.607	0.9	0.3	5.3	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.732	0.087	23.073	0.8	0.23	4.0	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.731	0.048	22.455	0.8	0.22	4.0	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.723	0.040	25.137	0.8	0.16	2.9	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.725	0.043	23.901	0.8	0.18	3.2	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.718	0.036	26.679	0.7	0.13	2.3	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.722	0.039	24.969	0.8	0.15	2.7	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.715	0.033	27.951	0.7	0.11	2.0	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.718	0.036	25.947	0.7	0.13	2.4	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.713	0.030	29.115	0.7	0.1	1.7	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.714	0.032	27.477	0.7	0.11	1.9	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.709	0.027	30.741	0.6	0.08	1.4	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.709	0.027	30.093	0.6	0.08	1.4	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.705	0.023	33.339	0.6	0.06	1.0	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.705	0.023	33.190	0.6	0.06	1.0	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.701	0.019	36.484	0.5	0.04	0.7	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.702	0.020	34.098	0.5	0.04	0.8	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.699	0.017	39.088	0.5	0.03	0.6	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.699	0.017	35.161	0.5	0.03	0.6	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.696	0.015	40.206	0.4	0.02	0.4	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.697	0.016	35.167	0.5	0.03	0.5	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.695	0.013	41.274	0.4	0.02	0.3	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.695	0.014	34.735	0.4	0.02	0.3	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.693	0.012	41.581	0.4	0.02	0.3	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.695	0.013	34.939	0.4	0.02	0.3	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.692	0.011	41.977	0.4	0.01	0.2	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	Simple Junction	SWC-09	74.043	73.694	0.013	34.099	0.4	0.02	0.3	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.692	0.011	41.479	0.4	0.01	0.2	OK

Summary Results for SWP-20: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.146	0.073	0.689	0.3	0.06	1.6	OK
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.146	0.076	0.773	0.3	0.07	1.7	OK
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.143	0.060	0.906	0.2	0.04	1.0	OK
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.143	0.062	1.014	0.2	0.04	1.1	OK
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.142	0.054	1.134	0.4	0.04	0.9	OK
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.141	0.051	1.278	0.5	0.03	0.8	OK
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.140	0.044	1.386	0.6	0.03	0.7	OK
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.139	0.076	1.554	0.2	0.02	0.5	OK
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.139	0.038	1.530	0.6	0.02	0.5	OK
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.138	0.075	1.710	0.2	0.02	0.4	OK
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.138	0.034	1.626	0.2	0.02	0.4	OK
FSR: 100 years: +45 %: 240 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.137	0.029	1.836	0.4	0.01	0.3	OK
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.137	0.029	1.782	0.2	0.01	0.3	OK
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.136	0.025	1.974	0.2	0.01	0.2	OK
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.137	0.026	1.878	0.2	0.01	0.3	OK
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.136	0.022	2.094	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.136	0.024	1.974	0.2	0.01	0.2	OK
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.135	0.020	2.220	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.136	0.022	2.088	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.135	0.019	2.250	0.1	0.01	0.1	OK
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.135	0.020	2.142	0.1	0.01	0.2	OK
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.134	0.017	2.460	0.1	0	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.134	0.017	2.346	0.1	0	0.1	OK
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.134	0.014	2.562	0.1	0	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.134	0.014	2.652	0.1	0	0.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.133	0.012	2.850	0.1	0	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.133	0.013	3.006	0.1	0	0.1	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.133	0.011	3.078	0.1	0	0.0	OK

FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.133	0.011	2.742	0.1	0	0.0	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.132	0.009	3.528	0.1	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.132	0.010	2.556	0.1	0	0.0	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.132	0.008	2.976	0.1	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.132	0.009	2.592	0.1	0	0.0	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.132	0.008	3.108	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.132	0.008	2.490	0.1	0	0.0	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.132	0.007	3.114	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	RWP-09	Simple Junction	74.730	74.132	0.008	2.538	0.1	0	0.0	OK
FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.132	0.007	3.138	0.1	0	0.0	OK

Summary Results for SWP-21: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.283	0.100	3.816	1.1	1.24	8.4	Surcharged
FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.347	0.100	3.919	1.2	1.38	9.4	Surcharged
FSR: 100 years: +45 %: 30 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.430	0.100	5.217	0.9	1	6.8	Surcharged
FSR: 100 years: +45 %: 30 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.516	0.100	5.357	0.9	1.07	7.3	Surcharged
FSR: 100 years: +45 %: 60 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.551	0.100	7.906	0.8	0.56	3.8	Surcharged
FSR: 100 years: +45 %: 60 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.659	0.100	8.079	0.9	0.82	5.5	Surcharged
FSR: 100 years: +45 %: 120 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.613	0.100	13.089	0.8	0.47	3.2	Surcharged
FSR: 100 years: +45 %: 120 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.829	0.100	13.341	0.8	0.51	3.4	Surcharged
FSR: 100 years: +45 %: 180 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.602	0.100	18.138	0.8	0.4	2.7	Surcharged
FSR: 100 years: +45 %: 180 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.826	0.100	18.441	0.7	0.37	2.5	Surcharged
FSR: 100 years: +45 %: 240 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.570	0.100	23.005	0.8	0.44	3.0	Surcharged

FSR: 100 years: +45 %: 240 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.732	0.100	23.427	0.7	0.36	2.4	Surcharged
FSR: 100 years: +45 %: 360 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.519	0.100	26.147	0.7	0.37	2.5	Surcharged
FSR: 100 years: +45 %: 360 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.639	0.100	29.253	0.7	0.3	2.1	Surcharged
FSR: 100 years: +45 %: 480 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.469	0.100	27.826	0.7	0.32	2.2	Surcharged
FSR: 100 years: +45 %: 480 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.572	0.100	31.102	0.7	0.28	1.9	Surcharged
FSR: 100 years: +45 %: 600 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.425	0.100	29.104	0.7	0.3	2.0	Surcharged
FSR: 100 years: +45 %: 600 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.505	0.100	32.589	0.7	0.25	1.7	Surcharged
FSR: 100 years: +45 %: 720 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.379	0.100	30.178	0.7	0.27	1.8	Surcharged
FSR: 100 years: +45 %: 720 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.437	0.100	33.919	0.7	0.23	1.5	Surcharged
FSR: 100 years: +45 %: 960 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.297	0.100	32.037	0.7	0.24	1.6	Surcharged
FSR: 100 years: +45 %: 960 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.306	0.100	35.755	0.6	0.2	1.3	Surcharged
FSR: 100 years: +45 %: 1440 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.142	0.100	35.013	0.6	0.21	1.4	Surcharged
FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.083	0.100	38.900	0.6	0.16	1.1	Surcharged

FSR: 100 years: +45 %: 2160 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.976	0.089	38.703	0.6	0.17	1.1	OK
FSR: 100 years: +45 %: 2160 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.925	0.024	42.399	0.6	0.12	0.8	OK
FSR: 100 years: +45 %: 2880 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.927	0.025	39.834	0.6	0.13	0.9	OK
FSR: 100 years: +45 %: 2880 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.923	0.022	45.557	0.5	0.1	0.6	OK
FSR: 100 years: +45 %: 4320 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.922	0.021	41.108	0.5	0.09	0.6	OK
FSR: 100 years: +45 %: 4320 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.919	0.019	46.849	0.5	0.07	0.5	OK
FSR: 100 years: +45 %: 5760 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.920	0.020	40.719	0.5	0.08	0.5	OK
FSR: 100 years: +45 %: 5760 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.917	0.017	48.416	0.4	0.06	0.4	OK
FSR: 100 years: +45 %: 7200 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.918	0.017	39.477	0.5	0.06	0.4	OK
FSR: 100 years: +45 %: 7200 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.916	0.015	48.222	0.4	0.05	0.3	OK
FSR: 100 years: +45 %: 8640 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.917	0.017	39.738	0.4	0.06	0.4	OK
FSR: 100 years: +45 %: 8640 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.914	0.014	47.928	0.4	0.04	0.3	OK
FSR: 100 years: +45 %: 10080 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.916	0.016	38.859	0.4	0.05	0.3	OK

FSR: 100 years: +45 %: 10080 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.914	0.013	47.088	0.4	0.04	0.2	OK

Summary Results for DBS: Rank By: Max. Flow

Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
FSR: 100 years: +45 %: 15 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.282	0.037	1.335	0.0		1.7	
FSR: 100 years: +45 %: 15 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.346	0.034	1.362	0.0		1.6	
FSR: 100 years: +45 %: 30 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.430	0.031	2.607	0.0		1.8	
FSR: 100 years: +45 %: 30 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.515	0.039	2.644	0.0		2.2	
FSR: 100 years: +45 %: 60 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.551	0.039	5.228	0.0		2.1	
FSR: 100 years: +45 %: 60 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.657	0.041	5.273	0.0		2.0	
FSR: 100 years: +45 %: 120 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.612	0.040	10.502	0.0		2.2	
FSR: 100 years: +45 %: 120 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.829	0.036	10.585	0.0		2.0	
FSR: 100 years: +45 %: 180 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.600	0.036	15.726	0.0		2.1	
FSR: 100 years: +45 %: 180 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.826	0.040	15.853	0.0		2.2	
FSR: 100 years: +45 %: 240 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.568	0.038	20.816	0.0		1.9	

FSR: 100 years: +45 %: 240 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.731	0.038	21.050	0.0	2.2	
FSR: 100 years: +45 %: 360 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.518	0.037	26.071	0.0	2.1	
FSR: 100 years: +45 %: 360 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.638	0.037	29.158	0.0	2.1	
FSR: 100 years: +45 %: 480 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.468	0.038	27.758	0.0	2.2	
FSR: 100 years: +45 %: 480 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.571	0.035	31.023	0.0	2.1	
FSR: 100 years: +45 %: 600 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.425	0.036	29.045	0.0	2.1	
FSR: 100 years: +45 %: 600 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.504	0.037	32.531	0.0	2.2	
FSR: 100 years: +45 %: 720 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.379	0.037	30.120	0.0	2.1	
FSR: 100 years: +45 %: 720 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.436	0.039	33.874	0.0	2.2	
FSR: 100 years: +45 %: 960 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.297	0.036	31.996	0.0	2.1	
FSR: 100 years: +45 %: 960 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.305	0.037	35.705	0.0	2.2	
FSR: 100 years: +45 %: 1440 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.142	0.038	34.977	0.0	2.1	
FSR: 100 years: +45 %: 1440 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	73.082	0.040	38.859	0.0	2.2	

FSR: 100 years: +45 %: 2160 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	72.976	0.040	38.675	0.0	2.1	
FSR: 100 years: +45 %: 2160 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	72.217	0.039	42.366	0.0	2.1	
FSR: 100 years: +45 %: 2880 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	72.213	0.038	39.811	0.0	2.0	
FSR: 100 years: +45 %: 2880 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	71.182	0.023	45.557	0.0	0.6	
FSR: 100 years: +45 %: 4320 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	71.182	0.023	41.108	0.0	0.6	
FSR: 100 years: +45 %: 4320 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	71.176	0.020	46.849	0.0	0.5	
FSR: 100 years: +45 %: 5760 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	71.178	0.021	40.719	0.0	0.5	
FSR: 100 years: +45 %: 5760 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	71.172	0.017	48.416	0.0	0.4	
FSR: 100 years: +45 %: 7200 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	71.174	0.018	39.477	0.0	0.4	
FSR: 100 years: +45 %: 7200 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	71.170	0.016	48.222	0.0	0.3	
FSR: 100 years: +45 %: 8640 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	71.172	0.017	39.738	0.0	0.4	
FSR: 100 years: +45 %: 8640 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	71.167	0.014	47.928	0.0	0.3	
FSR: 100 years: +45 %: 10080 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	71.171	0.017	38.859	0.0	0.3	

FSR: 100 years: +45 %: 10080 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway	71.166	0.014	47.088	0.0	0.2	

Phase
FSR: 100 years: Increase Rainfall (%): +45: 15 mins: Summer

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
TOTAL	23.5	10.212	0.0	0.000

Meadow View, Blagrave Lane, Reading, RG4 7DX:	Date:		
Replacement dwelling 1 in 100 Year Storm event +0% CCA Deepbore Soakaway Full Infiltration	23/05/2024		
	Designed by:	Checked by:	Approved By:
	N.E	S.L	S.L
Report Details:	Company Address:		
Type: Stormwater Controls Storm Phase: Phase	Nimbus Engineering Ltd 124 City Road, London EC1V 2NX		

Deepbore Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	74.150
Depth (m)	19.000
Base Level (m)	55.150
Freeboard (mm)	0
Soakaway Shape	Circular
Diameter / Width (m)	0.150
Porosity (%)	100
Ineffective Storage Depth (m)	8.000
Number of Soakaways	1
Side Infiltration Rate (m/hr)	0.648
Safety Factor	2.0
Total Volume (m³)	0.194

Inlets

Inlet

Incoming Item(s)	DBS
Bypass Destination	(None)
Capacity Type	No Restriction

Att Tank

Type : Cellular Storage

Dimensions

Exceedance Level (m)	74.000
Depth (m)	0.800
Base Level (m)	72.900
Number of Crates Long	6
Number of Crates Wide	6
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	13.980

Inlets

Inlet

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

Outlets

Outlet

Outgoing Connection	SWP-21
Outlet Type	Free Discharge

Meadow View, Blagrave Lane, Reading, RG4 7DX:	Date:		
Replacement dwelling 1 in 100 Year Storm event +0% CCA Deepbore Soakaway Full Infiltration	23/05/2024		
	Designed by:	Checked by:	Approved By:
	N.E	S.L	S.L
Report Details:	Company Address:		
Type: Inflow Summary Storm Phase: Phase	Nimbus Engineering Ltd 124 City Road, London EC1V 2NX		

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	RWP-05		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (1)	Channel Drain 4		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (2)	RWP-06		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (4)	Channel Drain 1		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (5)	Channel Drain 3		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (6)	Channel Drain 2		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (7)	SWC-08		Time of Concentration	0.004	100	0	100	0.004
Roof 01	RWP-01		Time of Concentration	0.003	100	0	100	0.003
Roof 02	RWP-02		Time of Concentration	0.002	100	0	100	0.002
Roof 03	RWP-08		Time of Concentration	0.002	100	0	100	0.002
Roof 04	RWP-03		Time of Concentration	0.002	100	0	100	0.002
Roof 05	RWP-09		Time of Concentration	0.003	100	0	100	0.003
Roof 06	RWP-04		Time of Concentration	0.003	100	0	100	0.003
Roof 07	RWP-10		Time of Concentration	0.002	100	0	100	0.002
TOTAL		**0.0**		**0.040**				**0.040**

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Prefill Manhole Sumps	☐
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	19.0
Ratio R	0.400
Summer	☑
Winter	☑

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	0.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FSR: 100 years: +0 %: 15 mins: Winter	0.00	0.8	0.390
Catchment Area (2)	FSR: 100 years: +0 %: 15 mins: Winter	0.00	0.8	0.375
Catchment Area (4)	FSR: 100 years: +0 %: 15 mins: Winter	0.00	1.9	0.870
Catchment Area (5)	FSR: 100 years: +0 %: 15 mins: Winter	0.00	1.7	0.786
Catchment Area (6)	FSR: 100 years: +0 %: 15 mins: Winter	0.01	2.5	1.179
Catchment Area (7)	FSR: 100 years: +0 %: 15 mins: Winter	0.00	1.5	0.699
Roof 06	FSR: 100 years: +0 %: 15 mins: Winter	0.00	1.1	0.510
Roof 07	FSR: 100 years: +0 %: 15 mins: Winter	0.00	1.0	0.447
Roof 05	FSR: 100 years: +0 %: 15 mins: Winter	0.00	1.2	0.534
Roof 04	FSR: 100 years: +0 %: 15 mins: Winter	0.00	0.8	0.393
Roof 02	FSR: 100 years: +0 %: 15 mins: Winter	0.00	0.9	0.426
Roof 03	FSR: 100 years: +0 %: 15 mins: Winter	0.00	0.9	0.426
Roof 01	FSR: 100 years: +0 %: 15 mins: Winter	0.00	1.3	0.612
Catchment Area (1)	FSR: 100 years: +0 %: 15 mins: Winter	0.00	0.6	0.261

Meadow View, Blagrave Lane, Reading, RG4 7DX: Replacement dwelling 1 in 100 Year Storm event +0% CCA Deepbore Soakaway Full Infiltration	Date: 23/05/2024 Designed by: N.E / Checked by: S.L / Approved By: S.L	Nimbus ENGINEERING CONSULTANTS
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address: Nimbus Engineering Ltd 124 City Road, London EC1V 2NX	

Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
Channel Drain 1	FSR: 100 years: +0 %: 15 mins: Winter		74.700	74.720	0.020	1.9			1.8	0.869	OK
Channel Drain 2	FSR: 100 years: +0 %: 15 mins: Winter		74.143	74.174	0.031	2.5			2.5	1.178	OK
Channel Drain 3	FSR: 100 years: +0 %: 15 mins: Winter		74.028	74.058	0.029	1.7			1.6	0.785	OK
Channel Drain 4	FSR: 100 years: +0 %: 15 mins: Winter		74.000	74.009	0.009	0.6			0.6	0.260	OK
RWP-05	FSR: 100 years: +0 %: 15 mins: Winter	74.680	74.080	74.097	0.017	0.8	0.000	0.000	0.8	0.389	OK
RWP-06	FSR: 100 years: +0 %: 15 mins: Winter	74.680	74.080	74.109	0.029	0.8	0.000	0.000	0.8	0.373	OK
RWP-02	FSR: 100 years: +0 %: 15 mins: Winter	74.730	74.130	74.155	0.025	0.9	0.000	0.000	0.9	0.424	OK
RWP-03	FSR: 100 years: +0 %: 15 mins: Winter	74.730	73.970	73.993	0.023	0.8	0.000	0.000	0.8	0.391	OK
RWP-01	FSR: 100 years: +0 %: 15 mins: Winter	74.730	74.130	74.161	0.031	1.3	0.000	0.000	1.3	0.610	OK
RWP-07	FSR: 100 years: +0 %: 15 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
RWP-04	FSR: 100 years: +0 %: 15 mins: Winter	74.730	74.130	74.146	0.016	1.1	0.000	0.000	1.1	0.509	OK
RWP-09	FSR: 100 years: +0 %: 15 mins: Winter	74.730	74.130	74.143	0.013	1.2	0.000	0.000	1.1	0.533	OK
RWP-10	FSR: 100 years: +0 %: 15 mins: Winter	74.730	73.780	73.824	0.044	1.0	0.000	0.000	0.7	0.446	OK
RWP-08	FSR: 100 years: +0 %: 15 mins: Winter	74.730	74.080	74.101	0.021	0.9	0.000	0.000	0.9	0.425	OK
SWC-01	FSR: 100 years: +0 %: 15 mins: Winter	74.770	74.032	74.084	0.052	4.0	0.008	0.000	3.9	1.901	OK
SWC-02	FSR: 100 years: +0 %: 15 mins: Winter	74.670	74.007	74.050	0.043	4.7	0.007	0.000	4.6	2.287	OK
SWC-03	FSR: 100 years: +0 %: 15 mins: Winter	74.650	73.930	73.971	0.041	2.5	0.006	0.000	2.4	1.173	OK
SWC-04	FSR: 100 years: +0 %: 15 mins: Winter	74.650	74.067	74.104	0.037	3.2	0.006	0.000	3.2	1.549	OK
SWC-05	FSR: 100 years: +0 %: 15 mins: Winter	74.700	73.821	73.918	0.097	10.2	0.015	0.000	9.9	5.005	OK
SWC-06	FSR: 100 years: +0 %: 15 mins: Winter	74.700	73.773	73.876	0.103	11.5	0.016	0.000	11.2	5.769	OK
SWC-07	FSR: 100 years: +0 %: 15 mins: Winter	74.700	73.714	73.823	0.109	11.9	0.017	0.000	11.6	6.208	OK
SWC-08	FSR: 100 years: +0 %: 15 mins: Winter	74.600	73.929	73.952	0.023	2.4	0.004	0.000	2.4	1.123	OK
SWC-09	FSR: 100 years: +0 %: 15 mins: Winter	74.550	73.610	73.699	0.089	14.9	0.025	0.000	14.7	7.850	OK
Simple Junction	FSR: 100 years: +0 %: 15 mins: Winter		73.680	73.782	0.103	12.8			12.5	6.733	OK
Deepbore Soakaway Manhole	FSR: 100 years: +0 %: 120 mins: Winter	74.150	71.150	73.375	2.225	3.1	2.517	0.000	2.2	10.213	OK

Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Att Tank	FSR: 100 years: +0 %: 120 mins: Winter	73.376	73.376	0.476	0.476	5.4	8.142	0.000	0.000	3.1	12.522	41.763	OK
Deepbore Soakaway	FSR: 100 years: +0 %: 120 mins: Winter	73.425	73.425	18.275	18.275	2.1	0.323	0.000	9.896	0.0	0.000	-66.323	OK

Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
SWP-01	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.161	0.042	0.610	0.4	0.21	1.3	OK
d1	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.720	0.036	0.869	0.7	0.09	1.8	OK
SWP-02	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.155	0.038	0.424	0.3	0.14	0.9	OK
SWP-03	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.084	0.048	1.901	0.8	0.22	3.9	OK
SWP-04	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.097	0.030	0.389	0.4	0.07	0.8	OK
d2	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.058	0.035	0.785	0.7	0.17	1.6	OK
SWP-05	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.993	0.032	0.391	0.4	0.12	0.8	OK
SWP-06	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.109	0.033	0.373	0.3	0.11	0.8	OK
SWP-07	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.104	0.067	1.549	0.6	0.3	3.2	OK
SWP-08	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.050	0.070	2.287	0.6	0.19	4.6	OK
SWP-09	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.971	0.069	1.173	0.4	0.35	2.4	OK
SWP-10	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.146	0.059	0.509	0.2	0.06	1.1	OK
d4	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.009	0.056	0.260	0.1	0.02	0.6	OK
SWP-11	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.918	0.100	5.005	0.8	0.55	9.9	OK

SWP-12	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.876	0.106	5.769	0.8	0.63	11.2	OK
SWP-13	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.824	0.076	0.446	0.2	0.04	0.7	OK
SWP-14	FSR: 100 years: +0 %: 15 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.011	0.000	0.0	0	0.0	OK
SWP-15	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.101	0.022	0.425	0.7	0.09	0.9	OK
d3	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.174	0.034	1.178	1.0	0.15	2.5	OK
SWP-16	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.952	0.056	1.123	0.5	0.12	2.4	OK
SWP-17	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.699	0.080	7.850	1.5	0.45	14.7	OK
SWP-18	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.823	0.106	6.208	0.9	0.66	11.6	OK
SWP-19	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.782	0.096	6.733	1.0	0.7	12.5	OK
SWP-20	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.143	0.058	0.533	0.2	0.05	1.1	OK
SWP-21	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.159	0.100	3.645	0.9	1	6.8	Surcharged
DBS	FSR: 100 years: +0 %: 360 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.255	0.037	20.102	0.0		2.2	

Phase
FSR: 100 years: Increase Rainfall (%): +0: 15 mins: Summer

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
TOTAL	16.3	7.041	0.0	0.000

Meadow View, Blagrave Lane, Reading, RG4 7DX:	Date:		
Replacement dwelling 1 in 30 Year Storm event +45% CCA Deepbore Soakaway Full Infiltration	23/05/2024		
	Designed by:	Checked by:	Approved By:
	N.E	S.L	S.L
Report Details:	Company Address:		
Type: Stormwater Controls Storm Phase: Phase	Nimbus Engineering Ltd 124 City Road, London EC1V 2NX		

Deepbore Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	74.150
Depth (m)	19.000
Base Level (m)	55.150
Freeboard (mm)	0
Soakaway Shape	Circular
Diameter / Width (m)	0.150
Porosity (%)	100
Ineffective Storage Depth (m)	8.000
Number of Soakaways	1
Side Infiltration Rate (m/hr)	0.648
Safety Factor	2.0
Total Volume (m³)	0.194

Inlets

Inlet

Incoming Item(s)	DBS
Bypass Destination	(None)
Capacity Type	No Restriction

Att Tank

Type : Cellular Storage

Dimensions

Exceedance Level (m)	74.000
Depth (m)	0.800
Base Level (m)	72.900
Number of Crates Long	6
Number of Crates Wide	6
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	13.980

Inlets

Inlet

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

Outlets

Outlet

Outgoing Connection	SWP-21
Outlet Type	Free Discharge

Meadow View, Blagrave Lane, Reading, RG4 7DX:	Date:		
Replacement dwelling 1 in 30 Year Storm event +45% CCA Deepbore Soakaway Full Infiltration	23/05/2024		
	Designed by:	Checked by:	Approved By:
	N.E	S.L	S.L
Report Details:	Company Address:		
Type: Inflow Summary Storm Phase: Phase	Nimbus Engineering Ltd 124 City Road, London EC1V 2NX		

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	RWP-05		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (1)	Channel Drain 4		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (2)	RWP-06		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (4)	Channel Drain 1		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (5)	Channel Drain 3		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (6)	Channel Drain 2		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (7)	SWC-08		Time of Concentration	0.004	100	0	100	0.004
Roof 01	RWP-01		Time of Concentration	0.003	100	0	100	0.003
Roof 02	RWP-02		Time of Concentration	0.002	100	0	100	0.002
Roof 03	RWP-08		Time of Concentration	0.002	100	0	100	0.002
Roof 04	RWP-03		Time of Concentration	0.002	100	0	100	0.002
Roof 05	RWP-09		Time of Concentration	0.003	100	0	100	0.003
Roof 06	RWP-04		Time of Concentration	0.003	100	0	100	0.003
Roof 07	RWP-10		Time of Concentration	0.002	100	0	100	0.002
TOTAL		**0.0**		**0.040**				**0.040**

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Prefill Manhole Sumps	☐
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	19.0
Ratio R	0.400
Summer	☑
Winter	☑

Return Period

Return Period (years)	Increase Rainfall (%)
30.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FSR: 30 years: +45 %: 15 mins: Winter	0.00	0.9	0.432
Catchment Area (2)	FSR: 30 years: +45 %: 15 mins: Winter	0.00	0.9	0.414
Catchment Area (4)	FSR: 30 years: +45 %: 15 mins: Winter	0.00	2.1	0.975
Catchment Area (5)	FSR: 30 years: +45 %: 15 mins: Winter	0.00	1.9	0.876
Catchment Area (6)	FSR: 30 years: +45 %: 15 mins: Winter	0.01	2.8	1.317
Catchment Area (7)	FSR: 30 years: +45 %: 15 mins: Winter	0.00	1.7	0.783
Roof 06	FSR: 30 years: +45 %: 15 mins: Winter	0.00	1.2	0.567
Roof 07	FSR: 30 years: +45 %: 15 mins: Winter	0.00	1.1	0.498
Roof 05	FSR: 30 years: +45 %: 15 mins: Winter	0.00	1.3	0.600
Roof 04	FSR: 30 years: +45 %: 15 mins: Winter	0.00	0.9	0.441
Roof 02	FSR: 30 years: +45 %: 15 mins: Winter	0.00	1.0	0.477
Roof 03	FSR: 30 years: +45 %: 15 mins: Winter	0.00	1.0	0.477
Roof 01	FSR: 30 years: +45 %: 15 mins: Winter	0.00	1.5	0.684
Catchment Area (1)	FSR: 30 years: +45 %: 15 mins: Winter	0.00	0.6	0.294

Meadow View, Blagrave Lane, Reading, RG4 7DX: Replacement dwelling 1 in 30 Year Storm event +45% CCA Deepbore Soakaway Full Infiltration	Date: 23/05/2024 Designed by: N.E Checked by: S.L Approved By: S.L	Nimbus ENGINEERING CONSULTANTS
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address: Nimbus Engineering Ltd 124 City Road, London EC1V 2NX	

Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
Channel Drain 1	FSR: 30 years: +45 %: 15 mins: Winter		74.700	74.721	0.021	2.1			2.1	0.974	OK
Channel Drain 2	FSR: 30 years: +45 %: 15 mins: Winter		74.143	74.177	0.034	2.8			2.8	1.316	OK
Channel Drain 3	FSR: 30 years: +45 %: 15 mins: Winter		74.028	74.060	0.031	1.9			1.8	0.875	OK
Channel Drain 4	FSR: 30 years: +45 %: 15 mins: Winter		74.000	74.010	0.010	0.6			0.6	0.293	OK
RWP-05	FSR: 30 years: +45 %: 15 mins: Winter	74.680	74.080	74.098	0.018	0.9	0.000	0.000	0.9	0.431	OK
RWP-06	FSR: 30 years: +45 %: 15 mins: Winter	74.680	74.080	74.111	0.031	0.9	0.000	0.000	0.8	0.412	OK
RWP-02	FSR: 30 years: +45 %: 15 mins: Winter	74.730	74.130	74.156	0.026	1.0	0.000	0.000	1.0	0.475	OK
RWP-03	FSR: 30 years: +45 %: 15 mins: Winter	74.730	73.970	73.994	0.025	0.9	0.000	0.000	0.9	0.439	OK
RWP-01	FSR: 30 years: +45 %: 15 mins: Winter	74.730	74.130	74.163	0.033	1.5	0.000	0.000	1.4	0.682	OK
RWP-07	FSR: 30 years: +45 %: 15 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
RWP-04	FSR: 30 years: +45 %: 15 mins: Winter	74.730	74.130	74.146	0.016	1.2	0.000	0.000	1.2	0.566	OK
RWP-09	FSR: 30 years: +45 %: 15 mins: Winter	74.730	74.130	74.144	0.014	1.3	0.000	0.000	1.3	0.599	OK
RWP-10	FSR: 30 years: +45 %: 15 mins: Winter	74.730	73.780	73.834	0.054	1.1	0.000	0.000	0.7	0.497	OK
RWP-08	FSR: 30 years: +45 %: 15 mins: Winter	74.730	74.080	74.102	0.022	1.0	0.000	0.000	1.0	0.476	OK
SWC-01	FSR: 30 years: +45 %: 15 mins: Winter	74.770	74.032	74.087	0.055	4.5	0.009	0.000	4.4	2.129	OK
SWC-02	FSR: 30 years: +45 %: 15 mins: Winter	74.670	74.007	74.053	0.046	5.3	0.007	0.000	5.2	2.557	OK
SWC-03	FSR: 30 years: +45 %: 15 mins: Winter	74.650	73.930	73.973	0.043	2.8	0.007	0.000	2.7	1.311	OK
SWC-04	FSR: 30 years: +45 %: 15 mins: Winter	74.650	74.067	74.107	0.040	3.6	0.006	0.000	3.6	1.726	OK
SWC-05	FSR: 30 years: +45 %: 15 mins: Winter	74.700	73.821	73.927	0.106	11.5	0.017	0.000	11.1	5.590	OK
SWC-06	FSR: 30 years: +45 %: 15 mins: Winter	74.700	73.773	73.886	0.113	12.9	0.018	0.000	12.6	6.444	OK
SWC-07	FSR: 30 years: +45 %: 15 mins: Winter	74.700	73.714	73.833	0.119	13.3	0.019	0.000	13.0	6.934	OK
SWC-08	FSR: 30 years: +45 %: 15 mins: Winter	74.600	73.929	73.953	0.024	2.7	0.004	0.000	2.6	1.258	OK
SWC-09	FSR: 30 years: +45 %: 15 mins: Winter	74.550	73.610	73.706	0.096	16.6	0.027	0.000	16.4	8.776	OK
Simple Junction	FSR: 30 years: +45 %: 15 mins: Winter		73.680	73.791	0.112	14.3			14.0	7.525	OK
Deepbore Soakaway Manhole	FSR: 30 years: +45 %: 120 mins: Winter	74.150	71.150	73.461	2.311	3.5	2.614	0.000	2.2	10.311	OK

Meadow View, Blagrave Lane, Reading, RG4 7DX: Replacement dwelling 1 in 30 Year Storm event +45% CCA Deepbore Soakaway Full Infiltration	Date: 23/05/2024 Designed by: N.E Checked by: S.L Approved By: S.L	Nimbus ENGINEERING CONSULTANTS
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address: Nimbus Engineering Ltd 124 City Road, London EC1V 2NX	

Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Att Tank	FSR: 30 years: +45 %: 120 mins: Winter	73.462	73.462	0.562	0.562	5.9	9.613	0.000	0.000	3.5	12.725	31.235	OK
Deepbore Soakaway	FSR: 30 years: +45 %: 180 mins: Winter	73.490	73.490	18.340	18.340	2.0	0.324	0.000	15.123	0.0	0.000	-66.909	OK

Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
SWP-01	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.163	0.044	0.682	0.4	0.24	1.4	OK
d1	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.721	0.038	0.974	0.7	0.1	2.1	OK
SWP-02	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.156	0.041	0.475	0.3	0.15	1.0	OK
SWP-03	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.087	0.051	2.129	0.8	0.25	4.4	OK
SWP-04	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.098	0.032	0.431	0.4	0.07	0.9	OK
d2	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.060	0.037	0.875	0.7	0.19	1.8	OK
SWP-05	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.994	0.034	0.439	0.4	0.13	0.9	OK
SWP-06	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.111	0.035	0.412	0.3	0.12	0.8	OK
SWP-07	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.107	0.073	1.726	0.6	0.34	3.6	OK
SWP-08	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.053	0.076	2.557	0.6	0.21	5.2	OK
SWP-09	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.973	0.075	1.311	0.4	0.4	2.7	OK
SWP-10	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.146	0.065	0.566	0.2	0.07	1.2	OK
d4	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.010	0.061	0.293	0.1	0.02	0.6	OK
SWP-11	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.927	0.110	5.590	0.8	0.62	11.1	OK

SWP-12	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.886	0.116	6.444	0.9	0.71	12.6	OK
SWP-13	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.834	0.087	0.497	0.2	0.05	0.7	OK
SWP-14	FSR: 30 years: +45 %: 15 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.012	0.000	0.0	0	0.0	OK
SWP-15	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.102	0.023	0.476	0.7	0.1	1.0	OK
d3	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.177	0.037	1.316	1.1	0.17	2.8	OK
SWP-16	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.953	0.060	1.258	0.5	0.13	2.6	OK
SWP-17	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.706	0.086	8.776	1.6	0.51	16.4	OK
SWP-18	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.833	0.115	6.934	0.9	0.73	13.0	OK
SWP-19	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.791	0.104	7.525	1.1	0.79	14.0	OK
SWP-20	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.144	0.063	0.599	0.2	0.05	1.3	OK
SWP-21	FSR: 30 years: +45 %: 15 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.208	0.100	3.719	0.9	1.05	7.1	Surcharged
DBS	FSR: 30 years: +45 %: 480 mins: Winter	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.286	0.038	24.005	0.0		2.2	

Phase
FSR: 30 years: Increase Rainfall (%): +45: 15 mins: Summer

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
TOTAL	18.2	7.881	0.0	0.000

Meadow View, Blagrave Lane, Reading, RG4 7DX:	Date:		
Replacement dwelling 1 in 30 Year Storm event +0% CCA Deepbore Soakaway Full Infiltration	23/05/2024		
	Designed by:	Checked by:	Approved By:
	N.E	S.L	S.L
Report Details:	Company Address:		
Type: Stormwater Controls Storm Phase: Phase	Nimbus Engineering Ltd 124 City Road, London EC1V 2NX		

Deepbore Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	74.150
Depth (m)	19.000
Base Level (m)	55.150
Freeboard (mm)	0
Soakaway Shape	Circular
Diameter / Width (m)	0.150
Porosity (%)	100
Ineffective Storage Depth (m)	8.000
Number of Soakaways	1
Side Infiltration Rate (m/hr)	0.648
Safety Factor	2.0
Total Volume (m³)	0.194

Inlets

Inlet

Incoming Item(s)	DBS
Bypass Destination	(None)
Capacity Type	No Restriction

Att Tank

Type : Cellular Storage

Dimensions

Exceedance Level (m)	74.000
Depth (m)	0.800
Base Level (m)	72.900
Number of Crates Long	6
Number of Crates Wide	6
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	13.980

Inlets

Inlet

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

Outlets

Outlet

Outgoing Connection	SWP-21
Outlet Type	Free Discharge

Meadow View, Blagrave Lane, Reading, RG4 7DX:	Date:		
Replacement dwelling 1 in 30 Year Storm event +0% CCA Deepbore Soakaway Full Infiltration	23/05/2024		
	Designed by:	Checked by:	Approved By:
	N.E	S.L	S.L
Report Details:	Company Address:		
Type: Inflow Summary Storm Phase: Phase	Nimbus Engineering Ltd 124 City Road, London EC1V 2NX		

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	RWP-05		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (1)	Channel Drain 4		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (2)	RWP-06		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (4)	Channel Drain 1		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (5)	Channel Drain 3		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (6)	Channel Drain 2		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (7)	SWC-08		Time of Concentration	0.004	100	0	100	0.004
Roof 01	RWP-01		Time of Concentration	0.003	100	0	100	0.003
Roof 02	RWP-02		Time of Concentration	0.002	100	0	100	0.002
Roof 03	RWP-08		Time of Concentration	0.002	100	0	100	0.002
Roof 04	RWP-03		Time of Concentration	0.002	100	0	100	0.002
Roof 05	RWP-09		Time of Concentration	0.003	100	0	100	0.003
Roof 06	RWP-04		Time of Concentration	0.003	100	0	100	0.003
Roof 07	RWP-10		Time of Concentration	0.002	100	0	100	0.002
TOTAL		**0.0**		**0.040**				**0.040**

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Prefill Manhole Sumps	☐
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	19.0
Ratio R	0.400
Summer	☑
Winter	☑

Return Period

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

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FSR: 30 years: +0 %: 15 mins: Winter	0.00	0.6	0.297
Catchment Area (2)	FSR: 30 years: +0 %: 15 mins: Winter	0.00	0.6	0.288
Catchment Area (4)	FSR: 30 years: +0 %: 15 mins: Winter	0.00	1.4	0.669
Catchment Area (5)	FSR: 30 years: +0 %: 15 mins: Winter	0.00	1.3	0.603
Catchment Area (6)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.0	0.909
Catchment Area (7)	FSR: 30 years: +0 %: 15 mins: Winter	0.00	1.2	0.537
Roof 06	FSR: 30 years: +0 %: 15 mins: Winter	0.00	0.8	0.393
Roof 07	FSR: 30 years: +0 %: 15 mins: Winter	0.00	0.7	0.345
Roof 05	FSR: 30 years: +0 %: 15 mins: Winter	0.00	0.9	0.411
Roof 04	FSR: 30 years: +0 %: 15 mins: Winter	0.00	0.7	0.306
Roof 02	FSR: 30 years: +0 %: 15 mins: Winter	0.00	0.7	0.327
Roof 03	FSR: 30 years: +0 %: 15 mins: Winter	0.00	0.7	0.327
Roof 01	FSR: 30 years: +0 %: 15 mins: Winter	0.00	1.0	0.468
Catchment Area (1)	FSR: 30 years: +0 %: 15 mins: Winter	0.00	0.4	0.204

Meadow View, Blagrave Lane, Reading, RG4 7DX: Replacement dwelling 1 in 30 Year Storm event +0% CCA Deepbore Soakaway Full Infiltration	Date: 23/05/2024 Designed by: N.E Checked by: S.L Approved By: S.L	Nimbus ENGINEERING CONSULTANTS
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address: Nimbus Engineering Ltd 124 City Road, London EC1V 2NX	

Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
Channel Drain 1	FSR: 30 years: +0 %: 15 mins: Winter		74.700	74.718	0.018	1.4			1.4	0.668	OK
Channel Drain 2	FSR: 30 years: +0 %: 15 mins: Winter		74.143	74.170	0.027	2.0			1.9	0.908	OK
Channel Drain 3	FSR: 30 years: +0 %: 15 mins: Winter		74.028	74.054	0.025	1.3			1.3	0.602	OK
Channel Drain 4	FSR: 30 years: +0 %: 15 mins: Winter		74.000	74.008	0.008	0.4			0.4	0.203	OK
RWP-05	FSR: 30 years: +0 %: 15 mins: Winter	74.680	74.080	74.095	0.015	0.6	0.000	0.000	0.6	0.296	OK
RWP-06	FSR: 30 years: +0 %: 15 mins: Winter	74.680	74.080	74.104	0.024	0.6	0.000	0.000	0.6	0.286	OK
RWP-02	FSR: 30 years: +0 %: 15 mins: Winter	74.730	74.130	74.152	0.022	0.7	0.000	0.000	0.7	0.325	OK
RWP-03	FSR: 30 years: +0 %: 15 mins: Winter	74.730	73.970	73.990	0.021	0.7	0.000	0.000	0.6	0.304	OK
RWP-01	FSR: 30 years: +0 %: 15 mins: Winter	74.730	74.130	74.157	0.027	1.0	0.000	0.000	1.0	0.466	OK
RWP-07	FSR: 30 years: +0 %: 15 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
RWP-04	FSR: 30 years: +0 %: 15 mins: Winter	74.730	74.130	74.144	0.014	0.8	0.000	0.000	0.8	0.392	OK
RWP-09	FSR: 30 years: +0 %: 15 mins: Winter	74.730	74.130	74.142	0.012	0.9	0.000	0.000	0.9	0.410	OK
RWP-10	FSR: 30 years: +0 %: 15 mins: Winter	74.730	73.780	73.805	0.025	0.7	0.000	0.000	0.5	0.344	OK
RWP-08	FSR: 30 years: +0 %: 15 mins: Winter	74.730	74.080	74.098	0.018	0.7	0.000	0.000	0.7	0.326	OK
SWC-01	FSR: 30 years: +0 %: 15 mins: Winter	74.770	74.032	74.077	0.045	3.1	0.007	0.000	3.0	1.457	OK
SWC-02	FSR: 30 years: +0 %: 15 mins: Winter	74.670	74.007	74.045	0.038	3.6	0.006	0.000	3.5	1.750	OK
SWC-03	FSR: 30 years: +0 %: 15 mins: Winter	74.650	73.930	73.965	0.035	1.9	0.006	0.000	1.8	0.903	OK
SWC-04	FSR: 30 years: +0 %: 15 mins: Winter	74.650	74.067	74.100	0.033	2.5	0.005	0.000	2.4	1.193	OK
SWC-05	FSR: 30 years: +0 %: 15 mins: Winter	74.700	73.821	73.901	0.080	7.8	0.013	0.000	7.5	3.842	OK
SWC-06	FSR: 30 years: +0 %: 15 mins: Winter	74.700	73.773	73.858	0.085	8.8	0.013	0.000	8.6	4.432	OK
SWC-07	FSR: 30 years: +0 %: 15 mins: Winter	74.700	73.714	73.804	0.090	9.1	0.014	0.000	8.9	4.769	OK
SWC-08	FSR: 30 years: +0 %: 15 mins: Winter	74.600	73.929	73.949	0.020	1.8	0.003	0.000	1.8	0.862	OK
SWC-09	FSR: 30 years: +0 %: 15 mins: Winter	74.550	73.610	73.685	0.075	11.4	0.021	0.000	11.3	6.027	OK
Simple Junction	FSR: 30 years: +0 %: 15 mins: Winter		73.680	73.766	0.086	9.8			9.6	5.171	OK
Deepbore Soakaway Manhole	FSR: 30 years: +0 %: 120 mins: Winter	74.150	71.150	73.188	2.038	3.6	2.305	0.000	2.1	9.928	OK

Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Att Tank	FSR: 30 years: +0 %: 120 mins: Winter	73.189	73.189	0.289	0.289	4.1	4.937	0.000	0.000	3.6	11.755	64.685	OK
Deepbore Soakaway	FSR: 30 years: +0 %: 120 mins: Winter	73.223	73.223	18.073	18.073	2.0	0.320	0.000	9.620	0.0	0.000	-64.480	OK

Meadow View, Blagrave Lane, Reading, RG4 7DX: Replacement dwelling 1 in 30 Year Storm event +0% CCA Deepbore Soakaway Full Infiltration	Date: 23/05/2024 Designed by: N.E / Checked by: S.L / Approved By: S.L	Nimbus ENGINEERING CONSULTANTS
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address: Nimbus Engineering Ltd 124 City Road, London EC1V 2NX	

Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
SWP-01	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.157	0.036	0.466	0.4	0.16	1.0	OK
d1	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.718	0.031	0.668	0.7	0.07	1.4	OK
SWP-02	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.152	0.033	0.325	0.3	0.1	0.7	OK
SWP-03	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.077	0.042	1.457	0.7	0.17	3.0	OK
SWP-04	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.095	0.027	0.296	0.4	0.05	0.6	OK
d2	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.054	0.030	0.602	0.6	0.13	1.3	OK
SWP-05	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.990	0.028	0.304	0.4	0.09	0.6	OK
SWP-06	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.104	0.028	0.286	0.3	0.08	0.6	OK
SWP-07	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.100	0.056	1.193	0.5	0.23	2.4	OK
SWP-08	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.045	0.059	1.750	0.5	0.14	3.5	OK
SWP-09	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.965	0.058	0.903	0.4	0.27	1.8	OK
SWP-10	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.144	0.049	0.392	0.2	0.05	0.8	OK
d4	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.008	0.047	0.203	0.1	0.02	0.4	OK
SWP-11	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.901	0.082	3.842	0.8	0.42	7.5	OK

SWP-12	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.858	0.087	4.432	0.8	0.48	8.6	OK
SWP-13	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.805	0.057	0.344	0.2	0.03	0.5	OK
SWP-14	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.010	0.000	0.0	0	0.0	OK
SWP-15	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.098	0.019	0.326	0.6	0.07	0.7	OK
d3	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.170	0.030	0.908	1.0	0.12	1.9	OK
SWP-16	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.949	0.048	0.862	0.5	0.09	1.8	OK
SWP-17	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.685	0.068	6.027	1.4	0.35	11.3	OK
SWP-18	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.804	0.088	4.769	0.8	0.5	8.9	OK
SWP-19	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.766	0.081	5.171	1.0	0.54	9.6	OK
SWP-20	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.142	0.049	0.410	0.2	0.03	0.9	OK
SWP-21	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	73.030	0.100	3.430	0.9	1.03	7.0	Surcharged
DBS	FSR: 30 years: +0 %: 15 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		73.028	0.040	1.248	0.0		3.6	

Phase
FSR: 30 years: Increase Rainfall (%): +0: 15 mins: Summer

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
TOTAL	12.5	5.448	0.0	0.000

Meadow View, Blagrave Lane, Reading, RG4 7DX:	Date:		
Replacement dwelling 1 in 1 Year Storm event +0% CCA Deepbore Soakaway Full Infiltration	23/05/2024		
	Designed by:	Checked by:	Approved By:
	N.E	S.L	S.L
Report Details:	Company Address:		
Type: Stormwater Controls Storm Phase: Phase	Nimbus Engineering Ltd 124 City Road, London EC1V 2NX		

Deepbore Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	74.150
Depth (m)	19.000
Base Level (m)	55.150
Freeboard (mm)	0
Soakaway Shape	Circular
Diameter / Width (m)	0.150
Porosity (%)	100
Ineffective Storage Depth (m)	8.000
Number of Soakaways	1
Side Infiltration Rate (m/hr)	0.648
Safety Factor	2.0
Total Volume (m³)	0.194

Inlets

Inlet

Incoming Item(s)	DBS
Bypass Destination	(None)
Capacity Type	No Restriction

Att Tank

Type : Cellular Storage

Dimensions

Exceedance Level (m)	74.000
Depth (m)	0.800
Base Level (m)	72.900
Number of Crates Long	6
Number of Crates Wide	6
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	13.980

Inlets

Inlet

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

Outlets

Outlet

Outgoing Connection	SWP-21
Outlet Type	Free Discharge

Meadow View, Blagrave Lane, Reading, RG4 7DX:	Date:		
Replacement dwelling 1 in 1 Year Storm event +0% CCA Deepbore Soakaway Full Infiltration	23/05/2024		
	Designed by:	Checked by:	Approved By:
	N.E	S.L	S.L
Report Details:	Company Address:		
Type: Inflow Summary Storm Phase: Phase	Nimbus Engineering Ltd 124 City Road, London EC1V 2NX		

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	RWP-05		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (1)	Channel Drain 4		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (2)	RWP-06		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (4)	Channel Drain 1		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (5)	Channel Drain 3		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (6)	Channel Drain 2		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (7)	SWC-08		Time of Concentration	0.004	100	0	100	0.004
Roof 01	RWP-01		Time of Concentration	0.003	100	0	100	0.003
Roof 02	RWP-02		Time of Concentration	0.002	100	0	100	0.002
Roof 03	RWP-08		Time of Concentration	0.002	100	0	100	0.002
Roof 04	RWP-03		Time of Concentration	0.002	100	0	100	0.002
Roof 05	RWP-09		Time of Concentration	0.003	100	0	100	0.003
Roof 06	RWP-04		Time of Concentration	0.003	100	0	100	0.003
Roof 07	RWP-10		Time of Concentration	0.002	100	0	100	0.002
TOTAL		**0.0**		**0.040**				**0.040**

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Prefill Manhole Sumps	☐
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	19.0
Ratio R	0.400
Summer	☑
Winter	☑

Return Period

Return Period (years)	Increase Rainfall (%)
1.0	0.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.3	0.120
Catchment Area (2)	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.2	0.117
Catchment Area (4)	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.6	0.273
Catchment Area (5)	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.5	0.243
Catchment Area (6)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	0.8	0.372
Catchment Area (7)	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.5	0.222
Roof 06	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.3	0.159
Roof 07	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.3	0.138
Roof 05	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.4	0.168
Roof 04	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.3	0.123
Roof 02	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.3	0.135
Roof 03	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.3	0.135
Roof 01	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.4	0.192
Catchment Area (1)	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.2	0.084

Meadow View, Blagrave Lane, Reading, RG4 7DX: Replacement dwelling 1 in 1 Year Storm event +0% CCA Deepbore Soakaway Full Infiltration	Date: 23/05/2024 Designed by: N.E Checked by: S.L Approved By: S.L	Nimbus ENGINEERING CONSULTANTS
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address: Nimbus Engineering Ltd 124 City Road, London EC1V 2NX	

Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
Channel Drain 1	FSR: 1 years: +0 %: 15 mins: Winter		74.700	74.711	0.011	0.6			0.6	0.272	OK
Channel Drain 2	FSR: 1 years: +0 %: 15 mins: Winter		74.143	74.159	0.016	0.8			0.8	0.371	OK
Channel Drain 3	FSR: 1 years: +0 %: 15 mins: Winter		74.028	74.044	0.016	0.5			0.5	0.242	OK
Channel Drain 4	FSR: 1 years: +0 %: 15 mins: Winter		74.000	74.005	0.005	0.2			0.2	0.083	OK
RWP-05	FSR: 1 years: +0 %: 15 mins: Winter	74.680	74.080	74.090	0.010	0.3	0.000	0.000	0.2	0.119	OK
RWP-06	FSR: 1 years: +0 %: 15 mins: Winter	74.680	74.080	74.093	0.013	0.2	0.000	0.000	0.2	0.115	OK
RWP-02	FSR: 1 years: +0 %: 15 mins: Winter	74.730	74.130	74.144	0.014	0.3	0.000	0.000	0.3	0.133	OK
RWP-03	FSR: 1 years: +0 %: 15 mins: Winter	74.730	73.970	73.983	0.013	0.3	0.000	0.000	0.2	0.121	OK
RWP-01	FSR: 1 years: +0 %: 15 mins: Winter	74.730	74.130	74.147	0.017	0.4	0.000	0.000	0.4	0.190	OK
RWP-07	FSR: 1 years: +0 %: 15 mins: Summer	74.730	74.130	74.130	0.000	0.0	0.000	0.000	0.0	0.000	OK
RWP-04	FSR: 1 years: +0 %: 15 mins: Winter	74.730	74.130	74.139	0.009	0.3	0.000	0.000	0.3	0.158	OK
RWP-09	FSR: 1 years: +0 %: 15 mins: Winter	74.730	74.130	74.138	0.008	0.4	0.000	0.000	0.3	0.167	OK
RWP-10	FSR: 1 years: +0 %: 15 mins: Winter	74.730	73.780	73.789	0.009	0.3	0.000	0.000	0.3	0.137	OK
RWP-08	FSR: 1 years: +0 %: 15 mins: Winter	74.730	74.080	74.092	0.012	0.3	0.000	0.000	0.3	0.134	OK
SWC-01	FSR: 1 years: +0 %: 15 mins: Winter	74.770	74.032	74.060	0.028	1.2	0.004	0.000	1.2	0.593	OK
SWC-02	FSR: 1 years: +0 %: 15 mins: Winter	74.670	74.007	74.031	0.024	1.4	0.004	0.000	1.4	0.710	OK
SWC-03	FSR: 1 years: +0 %: 15 mins: Winter	74.650	73.930	73.952	0.022	0.8	0.003	0.000	0.7	0.361	OK
SWC-04	FSR: 1 years: +0 %: 15 mins: Winter	74.650	74.067	74.088	0.021	1.0	0.003	0.000	1.0	0.485	OK
SWC-05	FSR: 1 years: +0 %: 15 mins: Winter	74.700	73.821	73.866	0.045	3.1	0.007	0.000	2.9	1.551	OK
SWC-06	FSR: 1 years: +0 %: 15 mins: Winter	74.700	73.773	73.820	0.047	3.4	0.008	0.000	3.3	1.788	OK
SWC-07	FSR: 1 years: +0 %: 15 mins: Winter	74.700	73.714	73.765	0.051	3.6	0.008	0.000	3.5	1.919	OK
SWC-08	FSR: 1 years: +0 %: 15 mins: Winter	74.600	73.929	73.942	0.013	0.8	0.002	0.000	0.7	0.355	OK
SWC-09	FSR: 1 years: +0 %: 15 mins: Winter	74.550	73.610	73.653	0.043	4.5	0.012	0.000	4.4	2.428	OK
Simple Junction	FSR: 1 years: +0 %: 15 mins: Winter		73.680	73.730	0.050	3.9			3.8	2.079	OK
Deepbore Soakaway Manhole	FSR: 1 years: +0 %: 60 mins: Winter	74.150	71.150	72.612	1.462	2.4	1.654	0.000	1.8	3.999	OK

Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Att Tank	FSR: 1 years: +0 %: 15 mins: Winter	72.955	72.955	0.055	0.055	4.4	0.944	0.000	0.000	3.2	2.146	93.251	OK
Deepbore Soakaway	FSR: 1 years: +0 %: 60 mins: Winter	72.648	72.648	17.498	17.498	1.8	0.310	0.000	3.908	0.0	0.000	-59.244	OK

Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
SWP-01	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	RWP-01	SWC-01	74.730	74.147	0.023	0.190	0.3	0.07	0.4	OK
d1	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	Channel Drain 1	SWC-01	75.000	74.711	0.020	0.272	0.5	0.03	0.6	OK
SWP-02	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	RWP-02	SWC-01	74.730	74.144	0.021	0.133	0.2	0.04	0.3	OK
SWP-03	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWC-01	SWC-02	74.770	74.060	0.026	0.593	0.6	0.07	1.2	OK
SWP-04	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	RWP-05	SWC-02	74.680	74.090	0.017	0.119	0.3	0.02	0.2	OK
d2	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	Channel Drain 3	SWC-03	74.628	74.044	0.019	0.242	0.5	0.05	0.5	OK
SWP-05	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	RWP-03	SWC-03	74.730	73.983	0.018	0.121	0.3	0.04	0.2	OK
SWP-06	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	RWP-06	SWC-04	74.680	74.093	0.017	0.115	0.3	0.03	0.2	OK
SWP-07	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWC-04	SWC-05	74.650	74.088	0.033	0.485	0.4	0.09	1.0	OK
SWP-08	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWC-02	SWC-05	74.670	74.031	0.034	0.710	0.5	0.06	1.4	OK
SWP-09	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWC-03	SWC-05	74.650	73.952	0.033	0.361	0.3	0.11	0.7	OK
SWP-10	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	RWP-04	SWC-06	74.730	74.139	0.028	0.158	0.3	0.02	0.3	OK
d4	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	Channel Drain 4	SWC-06	74.232	74.005	0.026	0.083	0.2	0.01	0.2	OK
SWP-11	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWC-05	SWC-06	74.700	73.866	0.046	1.551	0.6	0.16	2.9	OK
SWP-12	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWC-06	SWC-07	74.700	73.820	0.049	1.788	0.7	0.19	3.3	OK
SWP-13	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	RWP-10	SWC-07	74.730	73.789	0.030	0.137	0.3	0.02	0.3	OK
SWP-14	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	RWP-07	SWC-08	74.730	74.130	0.006	0.000	0.0	0	0.0	OK
SWP-15	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	RWP-08	SWC-08	74.730	74.092	0.012	0.134	0.5	0.03	0.3	OK
d3	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	Channel Drain 2	SWC-04	74.443	74.159	0.018	0.371	0.8	0.05	0.8	OK

SWP-16	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWC-08	SWC-09	74.600	73.942	0.028	0.355	0.6	0.04	0.7	OK
SWP-17	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWC-09	Att Tank	74.550	73.653	0.040	2.428	1.2	0.14	4.4	OK
SWP-18	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWC-07	Simple Junction	74.700	73.765	0.050	1.919	0.7	0.2	3.5	OK
SWP-19	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	Simple Junction	SWC-09	74.043	73.730	0.046	2.079	0.8	0.21	3.8	OK
SWP-20	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	RWP-09	Simple Junction	74.730	74.138	0.029	0.167	0.5	0.01	0.3	OK
SWP-21	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	Att Tank	Deepbore Soakaway Manhole	73.896	72.955	0.052	2.146	0.8	0.48	3.2	OK
DBS	FSR: 1 years: +0 %: 30 mins: Summer	No Delay	Deepbore Soakaway Manhole	Deepbore Soakaway		72.227	0.037	2.131	0.0		2.0	

Phase
FSR: 1 years: Increase Rainfall (%): +0: 15 mins: Summer

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
TOTAL	5.1	2.217	0.0	0.000

APPENDIX C – DEEP BORE SOAKAWAY INFILTRATION TESTING

CABLE AND PERCUSSION BOREHOLE
DEEP BORE SOAKAWAY + INFILTRATION TESTING

Client	Carney Construction Limited
Project Type	Deep Bore Soakaway and Infiltration Testing
Site	Meadow View, Blagrave Lane, Caversham, RG4 7DX

Project	Version	Date
23-282.02	2 – Final	14 May 2024

1.0 INTRODUCTION

At the instruction of Carney Construction Limited [The Client] Aviron Associates Limited [Aviron] has completed the drilling of one cable and percussion borehole to enable the installation of liner pipe in order to construct a deep bore soakaway to subsequently undertake a falling head test to determine infiltration rates. Additionally, advice shall be provided regarding soakaway off-set distances from new foundations. Instructions received were to complete a borehole at 200mm diameter and installation with 140mm diameter liner pipe to determine the suitability of deep bore soakaway drainage.

Table 1: The Site	
Site Location	The site is located in the Blagrave Lane on the western outskirts of Caversham, approximately 3 kilometres to the north-west of Reading town centre.
National Grid Reference (NGR)	Centred at approximately 469485 175515
Current Land Use	The site comprises the centrally located single storey residential premises and detached garage of Meadow View. The buildings are of predominantly brick construction under pitched clay tile roofs. Car parking is provided in the site frontage on a gravel drive leading to the garage. The site is hard surfaced below the buildings, and soft landscaped elsewhere providing gardens to the front and rear. A number of trees are located around the site periphery and in the vicinity. A double bunded above ground heating oil tank is located in the rear garden upon a concrete plinth. No evidence of soil staining exists beneath the tank. Enclosed within **Appendix I** is **Figure 1** which provides an Existing Site Layout Plan
Surrounding Land Use	The site is surrounded by residential premises of Blagrave Lane to the north (The Coach House) and south (Ambleside), Chazey Road to the east and open land to the east.
Proposed Land Use	The proposed development comprises the demolition of the existing building and the construction of a replacement two-storey dwelling, plus a partial basement beneath. Information from the Clients architect, STL Architecture indicates that the ground floor level of the partial basement will be approximately 2.6 metres (m) below ground level (bgl). Assuming approximately 0.6m of construction make-up, the basement foundation formation is expected to be approximately 3.2m bgl. The proposal also includes a new detached garage in the site frontage all set within landscaped grounds. Enclosed within **Appendix I** is **Figure 2** which provides a Proposed Development Plan.

2.0 DESK BASED RESEARCH

The British Geological Survey (BGS) website has been consulted, and the listed geology is reported within table 1.

Table 2: Anticipated Geology	
Superficial Geology	**Boyn Hill Gravel Member** Typically, poorly sorted, stratified gravel and locally tabular cross-bedded sand beds
Solid Geology	**Seaford and Newhaven Chalk Formations** Typically, undifferentiated Chalk with flint nodules
Aquifer Status	Gravel: Secondary (a) aquifer Chalk: Principal aquifer

Aviron previously completed a Ground Investigation at the site which is reported within our Ground Investigation Report (GIR) dated November 2023 and referenced 23-282.01. For further detail this report can be assessed, though in summary ground conditions comprised:

- MADE GROUND locally in WS4 and WS5 in the front of the site to depths of 0.3m and 0.6m below ground level (bgl) respectively.
- TOPSOIL in the remainder of the boreholes to depths of between 0.25m and 0.35m bgl.
- Natural superficial strata of predominantly firm and stiff silty sandy gravelly CLAY (Boyn Hill Gravel Member) to depths of between 1.4m and 3.0m bgl.
- Medium dense clayey silty SAND (Boyn Hill Gravel Member) in WS2 in the north-east of the site to the termination depth of the borehole at 5.0m bgl, and in WS3 in the east of the site to 1.6m bgl.
- Structureless CHALK of weathering Grade Dc (CIRIA C574 Engineering in Chalk, 2002) (Seaford Chalk Formation and Newhaven Chalk Formation) to the maximum drilled depths of between 3.0m and 4.0m bgl in WS1, WS3, WS4, WS5 and WS6.

Groundwater was not encountered to the full 5m depth of investigation.

Enclosed within **Appendix I** is **Figure 3** which provides an Exploratory Hole Location Plan.

3.0 PREVIOUS SOIL INFILTRATION TESTING

Aviron have previously completed falling head soil infiltration tests within window sample boreholes WS3 and WS4 on 22 November 2023, as reported within our aforementioned GIR.

The tests were performed by rapidly filling the boreholes with water discharged from transportable containers. The method of test uses an adapted formula from BRE D365 Soakaway Design, 2016, where the calculation is varied from a trial pit (cuboid) to a cylinder (borehole).

Due to limited water supply, one test (T1) was undertaken in each of the boreholes, and the infiltration rate determined is summarised in Table 3 below, where the tests were performed over a period of up to 80 minutes.

Table 3: Soil Infiltration Rates				
Location (Test no.)	**Testing depths (m bgl)**	**Strata Tested**	**Infiltration Rate (m/sec)**	**Comment**
WS3 (T1)	1.99 – 3.9	CLAY, SAND, CHALK	2.34×10^{-6}	Poor infiltration rate determined.
WS4 (T1)	1.02 – 3.0	CLAY, CHALK	No rate determined	No further infiltration recorded after 30 minutes.

It is expected the underlying Chalk will be (typically) suitable for conventional soakaway systems and a soakaway system circa 4m deep is likely to be required with discharge water below the formation level of the basement.

It should be noted that the chalk soils encountered are of low density and the siting of soakaways should adhere to the requirements of CIRIA C574, Engineering in Chalk, 2002, and the requirements of the Local Authority or build warranty provider.

For a low density Chalk the stand-off distance for soakaways is 10m.

Due to the requirements to discharge below basement formation level a Deep Bore Soakaway (DBSA) was selected.

4.0 BOREHOLE DRILLING AND INSTALLATION

4.1 Borehole Drilling

Ground investigation works were completed using a cut-down cable and percussion drilling rig on 1 and 2 May 2024.

Enclosed within **Appendix I** is **Figure 4** which provides an Exploratory Hole Location Plan. The borehole (DBSA1) was positioned by the Client's design team.

DBSA1 was drilled and cased at 200mm diameter through sandy, gravelly CLAY and clayey SAND to a depth of 4m bgl, from 4m bgl to 20m bgl the borehole was open-hole drilled in CHALK. Drilling was completed at 200mm diameter to enable installation of 140mm (external diameter) soakaway installation liner pipe.

Strata descriptions are presented within the **borehole log** which is enclosed as **Appendix II** and concurs with the anticipated ground conditions. Ground conditions encountered within DBSA1 are summarised below:

- TOPSOIL to a depth of 0.3m bgl; over
- Boyn Hill Gravel Member. Orange, brown, grey, silty, sandy, gravelly CLAY to 2.0m bgl; over
- Boyn Hill Gravel Member. Orange, brown, clayey SAND to 2.3m bgl; over
- Seaford and Newhaven Chalk Formations. Structureless Chalk of weathering Grade Dc (CIRIA C574) to 3.5m bgl.
- Seaford and Newhaven Chalk Formations. Structured Chalk of weathering Grade C-B (CIRIA C574) to completion depth of 20.0m bgl.

Groundwater was not encountered to the full 20m depth of the borehole.

4.2 Soakaway Installation

Critical to the installation of borehole soakaways is ensuring a sufficient width of annulus between the wall of the borehole and installation pipework to allow an effective pea shingle packing and bentonite seal. Completing the borehole at 200mm and installing at 140mm provides a 30mm annulus such that 10mm and 20mm pea shingle can be effectively introduced. This ensures the borehole does not collapse on to the liner pipe.

Prior to installation of liner pipe 20mm shingle was poured into the base of the borehole to provide a vertical pathway for migration of water and a footing to place the liner pipe on. The borehole is then installed with the perforated pipework with pea shingle packing below plain pipework with wetted bentonite granules to ground level to provide a surface seal. Generally, the perforated pipe is targeted to the competent and porous Chalk strata and the plain pipe with a seal targeted to negligibly permeable Clay strata.

Installation details are provided upon the borehole log which enclosed within **Appendix II** and summarised in Table 4.

Table 4: Installation Summary

Borehole	20mm gravel	Perorated Pipe and 10mm annulus	Plain Pipe and bentonite seal	Notes
DBSA1	20m-19m	19m-8m	8m-GL	Plain pipe installed to 8m to seal off CLAY/SAND and fine inclusions within the CHALK unit to 8m.

Following installation, no groundwater was encountered within the borehole.

5.0 FALLING HEAD SOAKAGE TESTING

Aviron returned to site on 9 May 2024 to complete falling head testing of the recently installed deep bore soakaway to report infiltration rates in a similar fashion to the previously determined rates within WS3 and WS4.

The tests were performed by rapidly filling the boreholes with potable water pumped from a 4xt truck mounted Intermediate Bulk Container (IBC). As previously mentioned, the method of test uses an adapted formula from BRE D365 Soakaway Design, 2016, where the calculation is varied from a trial pit (cuboid) to a cylinder (borehole). Three cycles of filling and draining of the borehole were complete to comply with the methodology of BRE D365.

Prior to testing the borehole installation was 'dry' and measured at 19m bgl.

The infiltration rates are summarised within Table 5 below.

Table 5: Soakage Rates – DBSA1

Location (Test no.)	Testing Depths (bgl)	Strata Tested	Infiltration Rate (m/s)
DBSA1 (T1)	12.5m – 19m	CHALK. Grades C-B	$1.8x10^{-4}$
DBSA1 (T2)	13.2m – 19m	CHALK. Grades C-B	$1.7x10^{-4}$
DBSA1 (T3)	13.4m – 19m	CHALK. Grades C-B	$1.25x10^{-4}$

Infiltration test results are enclosed as **Appendix III**.

6.0 CONTROL OF DRAINAGE

The Chalk has been previously classified as low density (GIR) and accordingly DBSA1 was positioned 10m from new foundations.

7.0 CONCLUSIONS

This report should be presented to the project's drainage engineer for incorporation within their design, who should satisfy themselves with the results of the testing prior to finalising their design.

Project designers should also be presented with any previous ground investigation reports to enable an improved understanding of ground conditions.

The installation of DBSA1 should be protected during site clearance to avoid damage of the installation prior to carefully installing the drainage chamber surrounding the installation pipework and then connecting the drainage. A siphon head should be fitting to the top of the installation pipework once it has been cut 'to length' above the base of the drainage chamber.

We trust that you find the above to be satisfactory, however should you require any further information please do not hesitate to contact the undersigned.

Prepared by	Checked by
James Burkitt BEng (Hons) CEnv MRICS **Managing Director**	**Orlando Blackwell** BEng (Hons) MSc (Eng) **Principal Engineer**

Appendix I	
Figure 1	Existing Site Layout Plan
Figure 2	Proposed Development Plan
Figure 3	Exploratory Hole Location Plan – Existing Layout
Figure 4	Exploratory Hole Location Plan – Proposed Layout

Legend

Approximate Site Boundary

Heating Oil Tank (AST)

Notes

Drawing provided by Client

Figure 1

Drawing Title

Existing Site Layout Plan

Project Number	23-282.02

Project Title

Meadow View, Blagrave Lane, Caversham, RG4 7DX

Drawn by	DN
Checked by	JB
Scale	NTS

Aviron Associates Limited - Badgemore House - Gravel Hill - Henley on Thames - RG9 4NR - T: 01491 413 722 - M: 07787 771 686 - E: james@aviron.co.uk

Legend

Approximate Site Boundary

Approximate location of partial basement

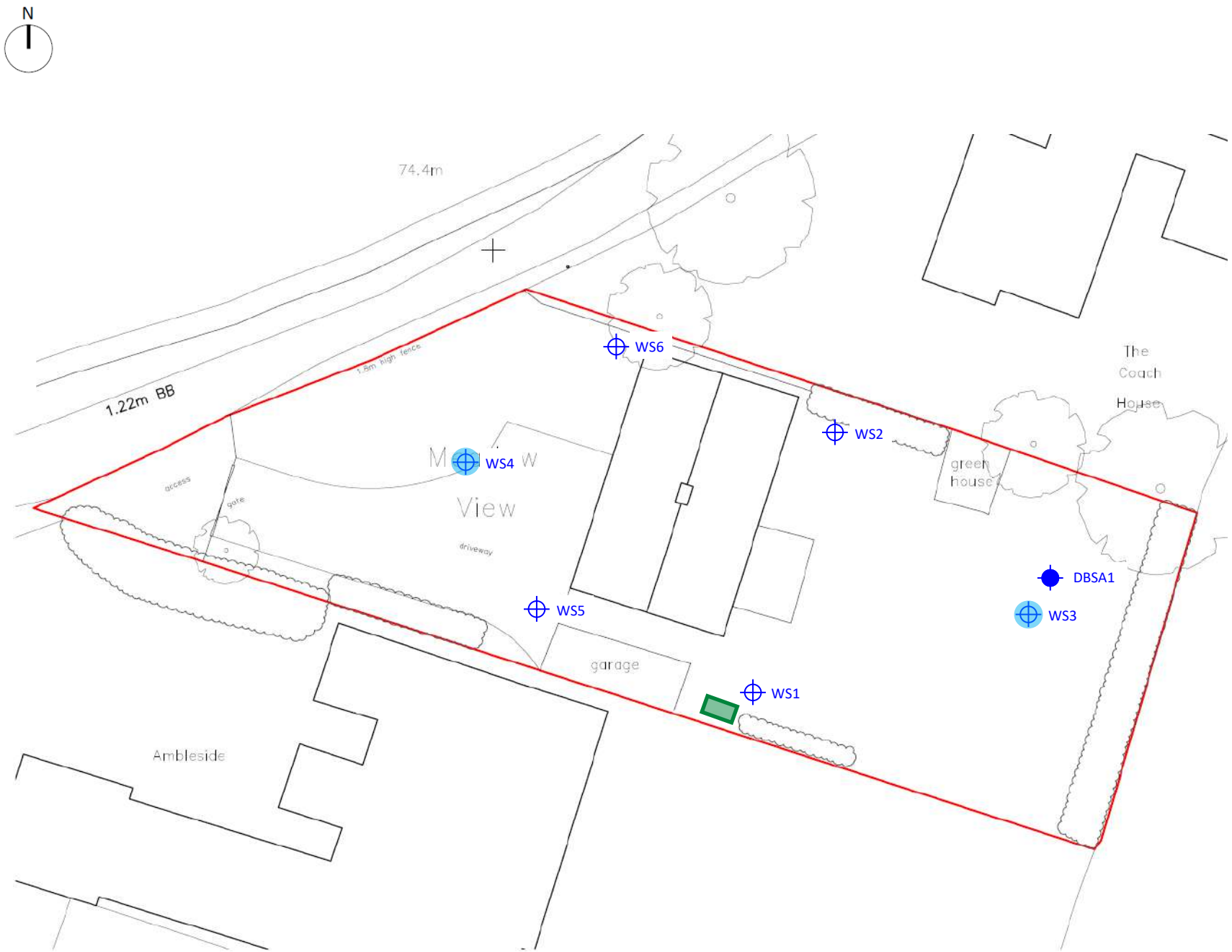
Notes

Drawing provided by Client

Figure 2

Drawing Title	Proposed Development Plan
Project Number	23-282.02
Project Title	Meadow View, Blagrave Lane, Caversham, RG4 7DX
Drawn by	DN
Checked by	JB
Scale	NTS

Aviron Associates Limited - Badgemore House - Gravel Hill - Henley on Thames - RG9 4NR - T: 01491 413 722 - M: 07787 771 686 - E: james@aviron.co.uk



Legend

2023 Investigation
Window Sample Borehole

Falling Head Infiltration Test

Heating Oil Tank (AST)

2024 Investigation
Deep Bore Soakaway

Notes

Figure 3

Drawing Title

Exploratory Hole Location Plan - Existing Layout

Project Number	23-282.02

Project Title

Meadow View, Blagrave Lane, Caversham, RG4 7DX

Drawn by	DN
Checked by	JB
Scale	NTS

N

Position of DBSA1 and completed installation.
Awaiting forming of drainage chamber and connections.

Legend

2023 Investigation
Window Sample Borehole

Falling Head Infiltration Test

Heating Oil Tank (AST)

2024 Investigation
Deep Bore Soakaway

Notes

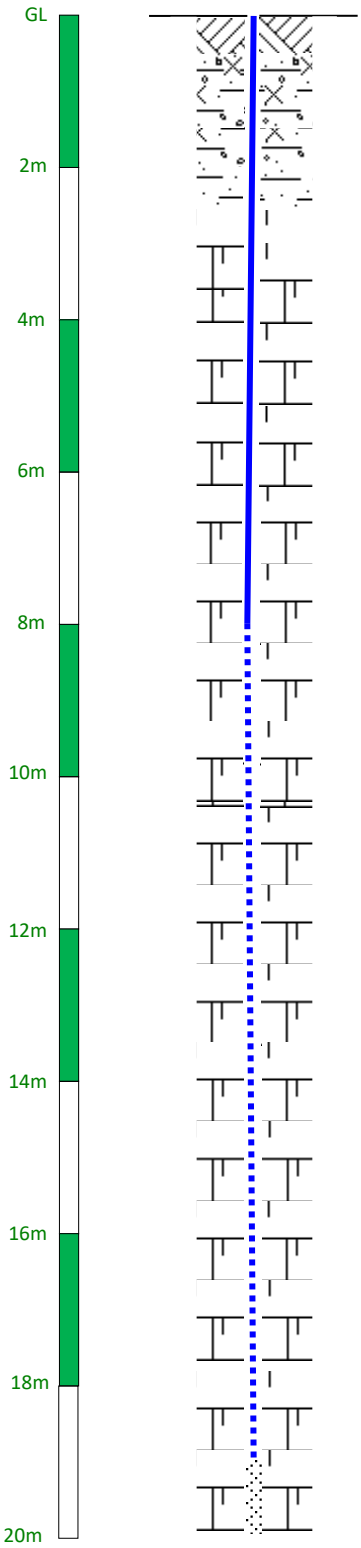
Figure 4

Drawing Title	Exploratory Hole Location Plan - Proposed Development
Project Number	23-282.02
Project Title	Meadow View, Blagrave Lane, Caversham, RG4 7DX
Drawn by	DN
Checked by	JB
Scale	NTS

Appendix II
DBSA1 Log

Aviron Associates Limited
Badgemore House, Gravel Hill, Henley on Thames, RG9 4NR
Tel: 01491 413 722 - 07787 771 686
Email: james@aviron.co.uk

Deep Bore Soakaway Log and Detail



TOPSOIL: Dark brown silty sandy gravelly humic clay with roots. GL - 0.3m

BHG: Orange brown with grey mottling silty sandy gravelly CLAY with rare fine calcareous nodules. Gravel is fine to coarse sub-angular to sub-rounded of flint. 0.3m - 2.0m

BHG: Orange brown clayey SAND. 2.0m - 2.3m

SNC: Structureless cream CHALK recovered as silty sandy fine to coarse sub-angular gravel. Clasts are very weak, white. Matrix is cream with light brown staining.. Grade Dc. 2.3m - 3.5m.

SNC: Structured cream white CHALK recovered as silty medium to coarse sub-angular gravel. Clasts are very weak, white. Containing flint gravel and cobbles. Grade C-B. 3.5m - 20.0m.

Key

140mm diameter unperforated installation pipe.

140mm diameter perforated installation pipe.

20mm shingle (bed)

BHG = Boyn Hill Gravel Member
SNC = Seaford and Newhaven Chalk Formations

Project Title	Meadow View, Blagrave Lane, RG4 7DX
Project Number	23-282.02
Client	Carney Construction Limited
Drilled By	Cable Percussion
Scale	NTS (refer to dimensions in m)
Exploratory Hole	DBSA1
Elevation (m AOD)	NT
Coordinates	NT - completed in rear garden
Logged by	DN
Completed	30 Nov 2023 - 1 Dec 2023

Appendix III
Infiltration Test Results

Soil Infiltration Test

23-282.02: Meadow View, Blagrave Lane, Caversham, RG4 7DX

Test Pit DBSA1 (1)
09/05/2024
Readings Recorded By: JD

Pit Dimensions: **0.07m(r) x 19m(d)**
Start Water Level: **12.5m**

Actual Storage Volume: **0.29 m^3**
Effective Depth: **6.50 m**

Time (mins)	Depth BGL (m)
0	12.500
0.5	13.420
1	14.980
2	16.870
3	18.320
4	18.780

$$\text{Soil infiltration rate, } f = \frac{V_{p75\text{-}25}}{a_{p50} \times t_{p75\text{-}25}}$$

Effective Storage Volume, V: **$3.142 \times r^2 \times h$**
V: **0.1000727 m^3**

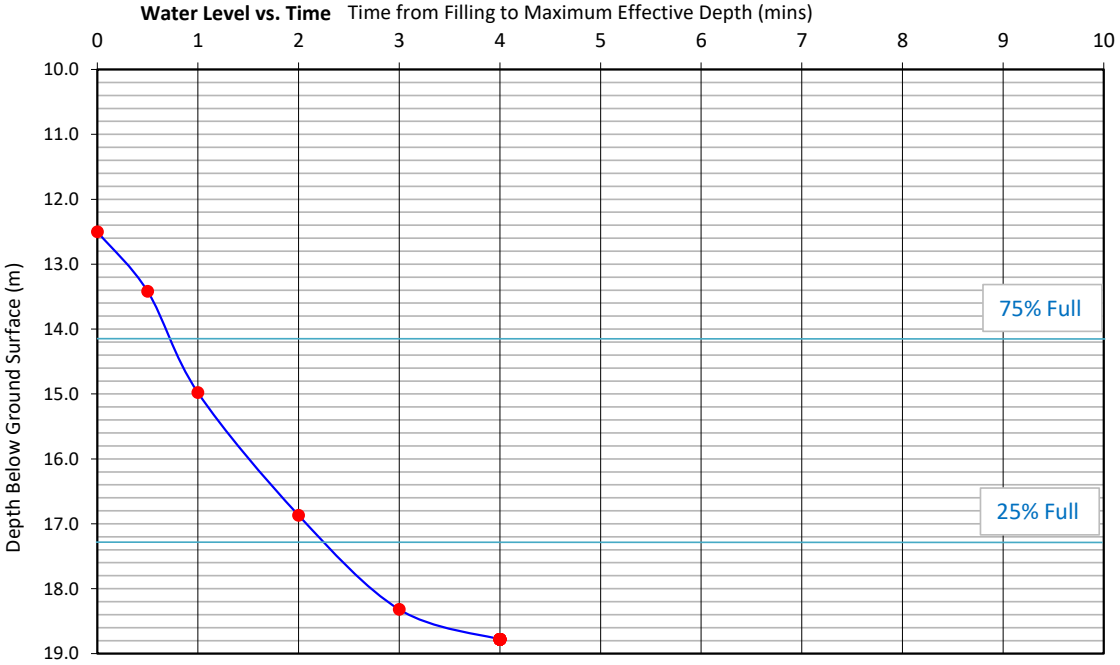
$V_{p75\text{-}25}$: **0.050 m^3**

Effective Internal Surface Area, a_{p50}: **$2 \times 3.142 \times r^2 + 2 \times 3.142 \times r \times h$**
a_{p50}: **2.8900116 m^2**

Time of water level fall, $t_{p75\text{-}25}$: **2.3 - 0.7 mins**
$t_{p75\text{-}25}$: **1.6 mins**
$t_{p75\text{-}25}$: **96 secs**

Soil infiltration rate, f : 0.05003635/(2.8900116 x 96)
f : 1.80E-04 ms^{-1}

Water Level vs. Time Time from Filling to Maximum Effective Depth (mins)



Line of best fit
t75 & t25

ONLY USE EXTRAPOLATION WHEN GRAPHICAL DATA IS INSUFFICIENT

Extrapolation

Fall over test mins = m

Theoretical t_{75} = min

Theoretical t_{25} = min

Where fall in water level during infiltration tests does not meet the 75% and 25% full level these have been extrapolated from the data set in order to complete the calculation and provide a theoretical infiltration rate in the absence of additional data. This theorectical infiltration rate is based upon infiltration observed within the duration of the test to assume a t75 and t25

Soil Infiltration Test

23-282.02: Meadow View, Blagrave Lane, Caversham, RG4 7DX

Test Pit DBSA1 (2)
09/05/2024
Readings Recorded By: JD

Pit Dimensions: **0.07m(r) x 19m(d)**
Start Water Level: **13.2m**

Actual Storage Volume: **0.29 m^3**
Effective Depth: **5.80 m**

Time (mins)	Depth BGL (m)
0	13.200
0.5	14.660
1	15.740
2	17.120
3	18.410
4	18.910

$$\text{Soil infiltration rate, } f = \frac{V_{p75\text{-}25}}{a_{p50} \times t_{p75\text{-}25}}$$

Effective Storage Volume, V: **$3.142 \times r^2 \times h$**
V: **0.0892956 m^3**

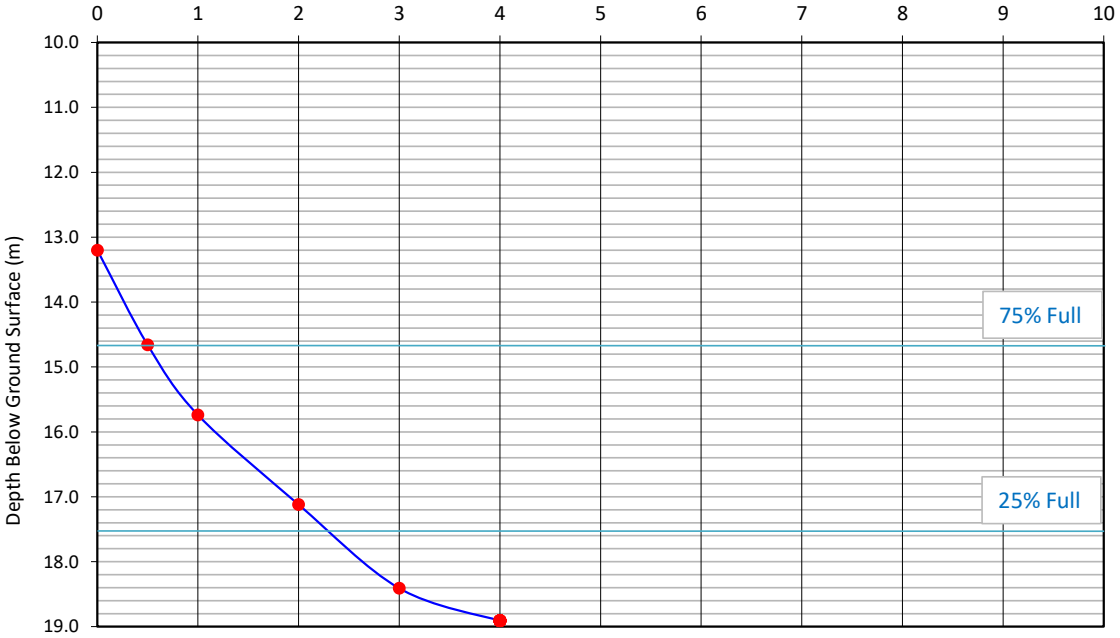
$V_{p75\text{-}25}$: **0.045 m^3**

Effective Internal Surface Area, a_{p50}: **$2 \times 3.142 \times r^2 + 2 \times 3.142 \times r \times h$**
a_{p50}: **2.5820956 m^2**

Time of water level fall, $t_{p75\text{-}25}$: **2.2 - 0.5 mins**
$t_{p75\text{-}25}$: **1.7 mins**
$t_{p75\text{-}25}$: **102 secs**

Soil infiltration rate, f : 0.04464782/(2.5820956 x 102)
f : 1.70E-04 ms^{-1}

Water Level vs. Time Time from Filling to Maximum Effective Depth (mins)



Line of best fit
t75 & t25

ONLY USE EXTRAPOLATION WHEN GRAPHICAL DATA IS INSUFFICIENT

Extrapolation

Fall over test mins = m

Theoretical t_{75} = min

Theoretical t_{25} = min

Where fall in water level during infiltration tests does not meet the 75% and 25% full level these have been extrapolated from the data set in order to complete the calculation and provide a theoretical infiltration rate in the absence of additional data. This theorectical infiltration rate is based upon infiltration observed within the duration of the test to assume a t75 and t25

Soil Infiltration Test

23-282.02: Meadow View, Blagrave Lane, Caversham, RG4 7DX

Test Pit DBSA1 (3)
09/05/2024
Readings Recorded By: JD

Pit Dimensions: **0.07m(r) x 19m(d)**
Start Water Level: **13.4m**

Actual Storage Volume: **0.29 m^3**
Effective Depth: **5.60 m**

Time (mins)	Depth BGL (m)
0	13.400
0.5	14.980
1	15.670
2	16.740
3	17.890
4	18.220
5	18.750

$$\text{Soil infiltration rate, } f = \frac{V_{p75\text{-}25}}{a_{p50} \times t_{p75\text{-}25}}$$

Effective Storage Volume, V: **$3.142 \times r^2 \times h$**
V: **0.0862165 m^3**

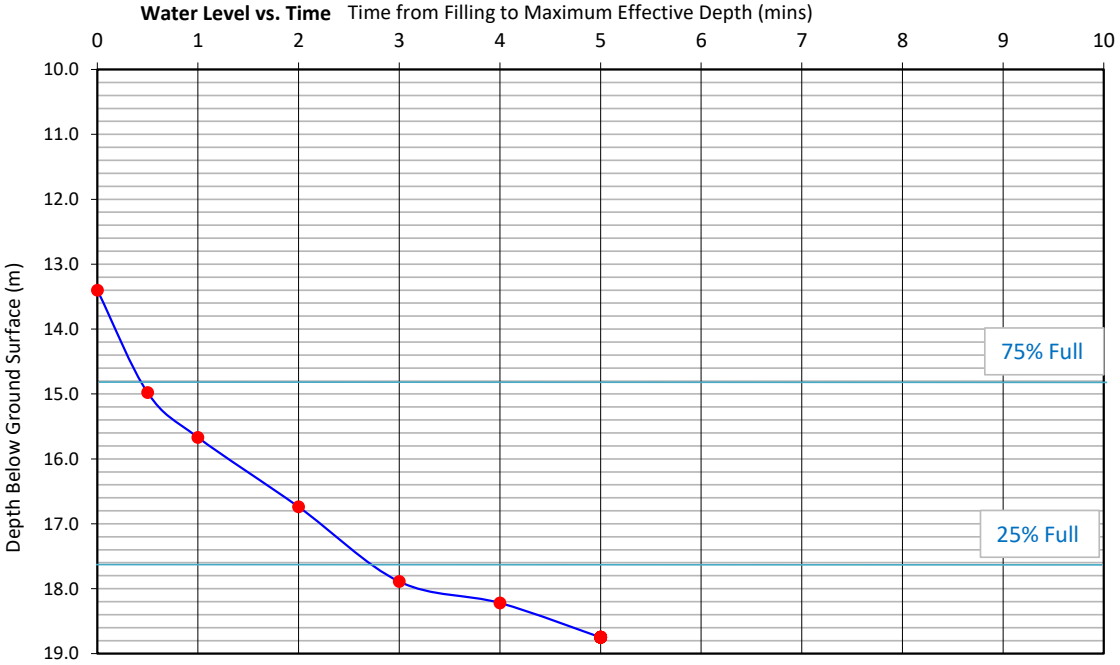
$V_{p75\text{-}25}$: **0.043 m^3**

Effective Internal Surface Area, a_{p50}: **$2 \times 3.142 \times r^2 + 2 \times 3.142 \times r \times h$**
a_{p50}: **2.4941196 m^2**

Time of water level fall, $t_{p75\text{-}25}$: **2.8 - 0.5 mins**
$t_{p75\text{-}25}$: **2.3 mins**
$t_{p75\text{-}25}$: **138 secs**

Soil infiltration rate, f : 0.04310824/(2.4941196 x 138)
f : 1.25E-04 ms^{-1}

Water Level vs. Time Time from Filling to Maximum Effective Depth (mins)



Line of best fit
t75 & t25

ONLY USE EXTRAPOLATION WHEN GRAPHICAL DATA IS INSUFFICIENT

Extrapolation

Fall over test mins = m

Theoretical t_{75} = min

Theoretical t_{25} = min

Where fall in water level during infiltration tests does not meet the 75% and 25% full level these have been extrapolated from the data set in order to complete the calculation and provide a theoretical infiltration rate in the absence of additional data. This theorectical infiltration rate is based upon infiltration observed within the duration of the test to assume a t75 and t25