TWEDDELL & SLATER
CONSULTING CIVIL & STRUCTURAL ENGINEERS

Unit 2, Mereside
Greenbank Road
Eden Business Park
Gilwilly, Penrith
Cumbria, CA11 9FB

PROPOSED HOUSING DEVELOPMENT, MORESBY PARKS DRAINAGE STRATEGY – MARCH 2022

Introduction

Tweddell and Slater Ltd have been appointed to prepare a surface water and foul drainage statement that is compliant with National Planning Policy.

This report has been prepared in support of a proposed development of 19 residential properties and their accompanying access. The site is currently greenfield and is located within Moresby Parks, Cumbria, England. Figure 1 shows the location and extent of the site.

A previous flood risk assessment/drainage strategy was prepared for the site in July 2015. The report calculated that for the development (1.3 hectares) that the greenfield Qbar value discharge rate was 8.16l/s. This rate was agreed with CCC LFRM at the time of the original planning application and has therefore been applied to this drainage strategy.

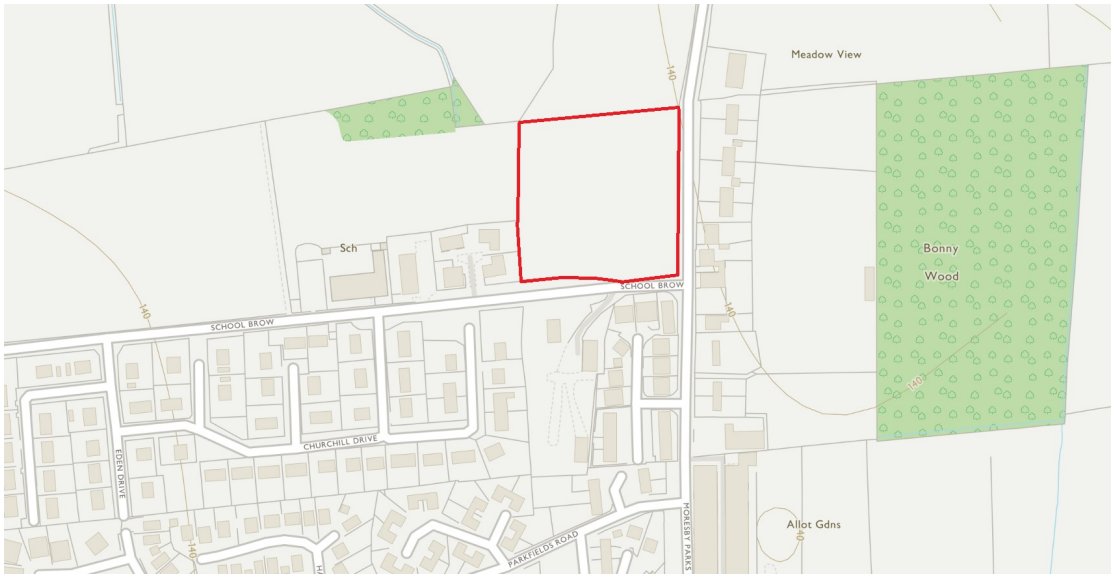

Figure 1 – Site Location and Extent Shown by Red Boundary

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The layout of the proposed site is indicated in the appendix.

Existing Surface Water

In accordance with the recognised guidance, there is a hierarchy of where surface water should be discharged. This hierarchy where practicable, is as follows:

1) Infiltration
2) Watercourse
3) Public sewer

A site walkover was undertaken in November 2020. The existing site surface water appears to be drained straight to ground.

An analysis of the area's topography has shown that within the boundaries of the site, the flow direction of overland flow in saturated conditions would generally travel to the west, in the direction of Moresby Primary School.

Overland flow generated offsite to the north and west of the proposed development will be routed to the north and/or west, following the topography of the existing greenfield and will not pose a threat to the proposed residences. Overland flow coming from the east of the site will flow along Moresby Parks Road where it will be drained via highway drainage and will also not pose a risk to the proposed development. Similarly, overland flow generated to the south of the proposed development site will be routed along School Brow where it will be drained via highway drainage.

The EA flood risk maps and flood map for planning show that the entirety of the site is not identified as at risk from flooding from rivers and is categorised as Flood Zone 1. Flood Zone 1 is considered to be land having a 1 in 1000 or lesser annual probability of river or sea flooding.

By review of the government long term flood risk information, it has been determined that the site is generally at a very low risk from surface water flooding risk from surface water flooding (Appendix C).

Soil infiltration testing has been undertaken by the client at site in June 2015 in accordance with the method prescribed in BRE Digest 365, with percolation testing undertaken in trial pits within the site. Infiltration testing has demonstrated that the ground has insufficient infiltration properties therefore, soakaways and permeable paving are considered unviable options for the site.

The closest watercourse to the site is a drainage ditch connecting to an unnamed tributary of Lowca Beck. This watercourse is located approximately 55m northwest of the northern border of the proposed development. Due to the short distance to this watercourse discharging to the drainage ditch is considered to be a viable option for the development. Figure 2 shows the direction and approximate distance to the watercourse.

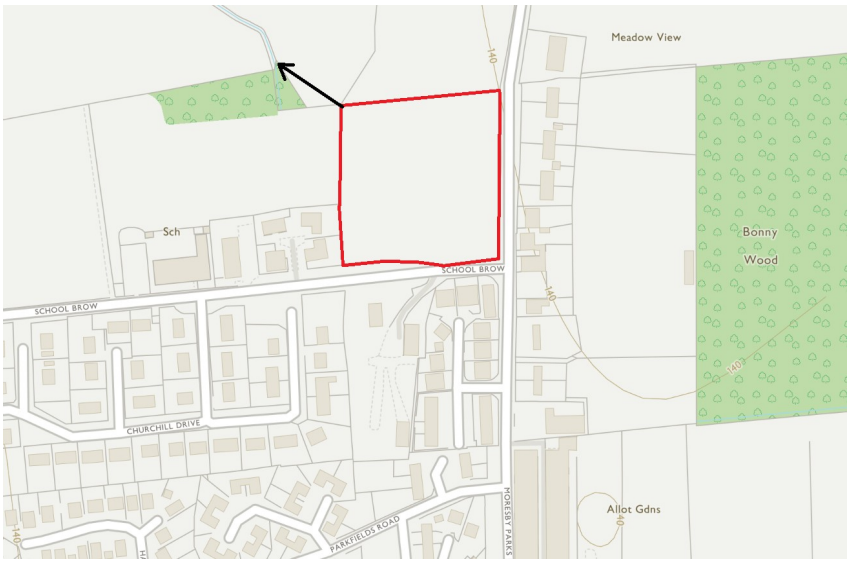

Figure 2 – Approximate Distance to Nearby Watercourse from Proposed Development (Approximately 55m)

A drainage strategy (Appendix B) has therefore been developed to discharge the roof areas, driveways, and access for the proposed dwellings to the nearby watercourse at a controlled rate, in accordance with the hierarchy outlined above.

A summary of the impermeable areas used to develop the drainage strategy is shown on drawing 6972-203, included in the Appendix B.

The proposal is to include site attenuation basin to control the discharge to the agreed discharge rate of 8.2 l/s as per the previous planning application. The position of the attenuation basin and connection to the existing watercourse is indicated on drawing 6972-200 and 201, included in the Appendix. Further details of the basin are shown on drawing 6972-210.

The surface water system has been designed such that there will be no flooding in events up to and including the 100-year return period, with an allowance for climate change of 40% as agreed during planning. The main surface water system will be offered for adoption by United Utilities, and plot drainage remaining private under the maintenance and management of the plot owners. Surface water modelling calculations for the attenuation basin are included within the Appendix.

The proposed surface water drainage system will need to be designed to adoptable standards and building regulations as applicable to ensure the structural integrity under anticipated loading conditions over the design life, this includes the cover to pipes that have been designed in accordance with the manufacturer's requirements and specification.

Foul System Proposal

It is anticipated that foul discharge from the development will connect to the existing foul sewer to the west of the site. The proposal is to collect all foul drainage from the new dwellings in a new adoptable network and connect into the existing United Utilities foul sewer located a short distance from the western boundary of the site. As shown on drawing drawings 6972-200 and 202.

The use of a foul drainage field is not viable due to the ground conditions.

The proposed foul water drainage system will need to be designed to adoptable standards and building regulations as applicable to ensure the structural integrity under anticipated loading conditions over the design life this includes the cover to pipes that have been designed in accordance with the manufacturer's requirements and specification.

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For Tweddell & Slater Ltd
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March 2022

APPENDIX A -
PROPOSED SITE LAYOUT

N

Access track

Access track to SUDS Basin

GAS

Plot 1
Fl.134.35

Plot 2
Fl.134.40

Plot 3
Fl.134.45

Plot 4
Fl.134.50

Plot 5
Fl.134.55

Plot 6
Fl.134.80

Plot 7
Fl.135.40

Plot 8
Fl.136.15

Plot 9
Fl.139.00

Plot 10
Fl.138.95

Plot 11
Fl.138.90

Plot 12
Fl.138.85

Plot 13
Fl.138.50

Plot 14
Fl.137.00

Plot 15
Fl.136.20

Plot 16
Fl.135.40

Plot 17
Fl.135.50

Plot 18
Fl.135.75

Plot 19
Fl.136.00

FFL 134.500

FFL 136.150

2

3

4

Station
House

SCHOOL BROW

MORESBY PARKS ROAD

Revisions
A 15.07.21 Boundary line altered. (RB)
B 16.09.21 Northern site boundary altered. (RB)
C 16.03.22 Site Layout amended. (RB)

PRELIMINARY

Suitability
--

Project
Residential Development at
School Brow, Moresby Parks

Client
Raemore Developments Limited

Drawing
Proposed Site
Location Plan

Project no	Drawing no	Date	Drawn by	Rev	Scale	Sheet
6972	213	Jun 21	SJ	C	1:300	A1

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APPENDIX B -
DRAINAGE STRATEGY DRAWINGS

Site Boundary
Adoptable Surface Water Sewer
Adoptable Foul Water Sewer
Non Adoptable Surface plot drainage
Non Adoptable Foul plot drainage
Adoptable Surface Water MH
Adoptable Foul Water MH
Road Gully
Easement

Adoptable Drainage

1. 150mm - 300mm pipework to be Polysewer by Polypipe.
2. 375 - 450mm drainage to be Ridgisewer by Polypipe.
3. All Adoptable drainage shall be constructed in accordance with United Utilities standard details, and all corresponding approved drawings.
4. For detailed pipe bedding information please refer to United Utilities Standard details on UU STND/19/008 Rev A.

Low Flow Channel IL: 131.112
Access track
Access track to SUDS Basin
GAS
MH-S6 1500Ø PCC CL: 133.500 IL: 132.033
MH-S5 1500Ø PCC CL: 133.675 IL: 132.325
MH-F1 1200Ø PCC CL: 135.330 IL: 133.800
MH-S4 1500Ø PCC CL: 135.350 IL: 132.709
MH-F2 1050Ø PCC CL: 135.040 IL: 133.615
MH-S3 1500Ø PCC CL: 134.989 IL: 132.842
MH-S2 1500Ø PCC CL: 134.848 IL: 132.976
MH-F3 1050Ø PCC CL: 134.797 IL: 133.417
MH-F4 1050Ø PCC CL: 134.747 IL: 133.275
MH-S1 1500Ø PCC CL: 134.800 IL: 133.225
MH-F5 1050Ø PCC CL: 135.094 IL: 133.195
FFL 134.500
FFL 136.150
Plot 1 Fl.134.35
Plot 2 Fl.134.40
Plot 3 Fl.134.45
Plot 4 Fl.134.50
Plot 5 Fl.134.55
Plot 6 Fl.134.80
Plot 7 Fl.135.40
Plot 8 Fl.136.15
Plot 9 Fl.139.00
Plot 10 Fl.138.95
Plot 11 Fl.138.90
Plot 12 Fl.138.85
Plot 13 Fl.138.50
Plot 14 Fl.137.00
Plot 15 Fl.136.20
Plot 16 Fl.135.40
Plot 17 Fl.135.50
Plot 18 Fl.135.75
Plot 19 Fl.136.00
Station House
SCHOOL BROW
MORESBY PARKS ROAD
Existing septic tank situated in this area serving two properties from Moresby Park Road to be decommisioned and foul drainage diverted in to FIC-1
New road gully to Moresby Parks Road

Revisions

D - 19/03/21 - Foul water layout added and updated. Surface water amended S6 - pond. (AC)
E - 25/03/21 - Foul and surface water layout updated. (AC)
F - 08/04/21 - Foul and surface water inverts lowered. Indicative plot drainage connections added. (AC)
G - 12/05/21 - Manhole diameters added. (AC)
H - 11/06/21 - Updated Basin to include low flow channel (SJ)
J - 07/09/21 - Foul Pipe 1.004 altered. (RB)
K - 16/09/21 - Northern site boundary altered. (RB)
L - 16/11/21 - Site Layout and drainage layout updated. (AC)
M - 25/11/21 - Culvert diverted around existing houses to the west. (RB)
N - 03/03/22 - Site layout and drainage layout amended. (AC)
P - 09/03/22 - Floor levels amended and MH diameters added. (AC)

PRELIMINARY

Suitability --

Project
Residential Development at School Brow, Moresby Parks

Client
Raemore Developments Limited

Drawing
Drainage Strategy
Sheet 1 of 3

Project no	Drawing no	Date	Drawn by	Rev	Scale	Sheet
6972	200	Nov 20	AC	P	1:250	A1

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HydroBrake Control MH S9
HydroBrake Optimum
CTL-SHE-0132-8100-1000-8100
HydroBrake Orifice size = 132mm
- Design head - 1.0m
- Design Flow - 8.1l/s

1.5m wide maintenance strip around entire basin

Approx extent of slopes back to natural ground level @ max 1:2.5

Exceedance Route

Adoptable SUDS Detention Basin
- Basin area excluding 1.5m maintenance strip = 330m²
- Basin storage volume at 1.3m deep = 484m³

Top water levels to be:-
131.276 for 1:1yr
131.649 for 1:30yr
131.836 for 1:100yr
132.113 for 1:100yr +40%

Please refer to drawings 6972/210 for detailed detention basin information and details

Raise levels locally to provide sufficient cover to pipe or re-grade from crest of detention basin to watercourse @ approx. 1:15

MH-S9
1500Ø
CL: 132.500
IL: 130.964

S8
PCC Headwall
Outlet IL 131.000

SW-1.008, 16.900m, 150Ø @ 1:10.3

SW-1.007, 5.000m, 225Ø @ 1:68

Outfall
PCC Headwall
IL: 130.800

New outfall to existing watercourse

Crest level 132.500

Low flow channel L=22.408m @ 1:200

Detention Basin Base 131.200

1:4 Slope

Low Flow Channel
IL: 131.112

S7
PCC Headwall
Inlet IL 131.655

Approx extent of slopes back to natural ground level @ max 1:2.5

Access track

3000

SW-1.005, 34.100m, 450Ø @ 1:90

3500

SW-1.004, 26.300m, 450Ø @ 1:90

MH-S6
1500Ø PCC
CL: 133.500
IL: 132.033

GAS

SW-1.003, 52.000m, 450Ø @ 1:135.3

Access track to SUDS Basin

MH-S5
1500Ø PCC
CL: 133.675
IL: 132.325

FFL 134.500

Plot 6
Fl.134.80

Plot 7
Fl.135.40

Plot 5
Fl.134.55

Plot 4
Fl.134.50

Plot 3
Fl.134.45

Plot 2
Fl.134

Plot 1

Plot 2

MH-F1
1200Ø PCC
CL: 135.330
IL: 133.800

MH-F2
1050Ø PCC
CL: 135.040
IL: 133.615

MH-S3
1500Ø PCC
CL: 134.989
IL: 132.842

SW-1.002, 26.600m, 450Ø @ 1:200

FW-1.001, 27.709m, 150Ø @ 1:150

Indicative line of culvert discharging to existing watercourse

Proposed re-connection point
CL: 132.000
IL: 131.300

L=34.660m, 450Ø @ 1:159.8

CL: 133.350
IL: 131.516

L=47.020m, 450Ø @ 1:159.8

- Site Boundary
- Adoptable Surface Water Sewer
- Adoptable Foul Water Sewer
- Non Adoptable Surface plot drainage
- Non Adoptable Foul plot drainage
- Adoptable Surface Water MH
- Adoptable Foul Water MH
- Road Gully
- Easement

Adoptable Drainage
1. 150mm - 300mm pipework to be Polysewer by Polypipe.
2. 375 - 450mm drainage to be Ridgisewer by Polypipe.
3. All Adoptable drainage shall be constructed in accordance with United Utilities standard details, and all corresponding approved drawings.
4. For detailed pipe bedding information please refer to United Utilities Standard details on UU STND/19/008 Rev A.

Revisions
E - 25/03/21 - Foul and surface water layout updated. (AC)
F - 08/04/21 - Foul and surface water inverts lowered.
Indicative plot drainage connections added. (AC)
G - 12/05/21 - Manhole diameters added. (AC)
H - 11/06/21 - Updated Basin to include low flow channel (SJ)
J - 19/08/21 - Exceedance routes added (RB)
K - 07/09/21 - Foul Pipe 1.004 altered. (RB)
L - 16/09/21 - Northern site boundary altered. (RB)
M - 16/11/21 - Site Layout and drainage layout updated (AC)
N - 25/11/21 - Culvert diverted around existing houses to the west. (RB)
P - 03/03/22 - Site layout and drainage layout amended. (AC)
Q - 09/03/22 - Floor levels amended and MH diameters added. (AC)

PRELIMINARY

Suitability --

Project
Residential Development at
School Brow, Moresby Parks

Client
Raemore Developments Limited

Drawing
Drainage Strategy
Sheet 2 of 3

Project no	Drawing no	Date	Drawn by	Rev	Scale	Sheet
6972	201	Nov 20	AC	Q	1:200	A1

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Site Boundary
Adoptable Surface Water Sewer
Adoptable Foul Water Sewer
Non Adoptable Surface plot drainage
Non Adoptable Foul plot drainage
Adoptable Surface Water MH
Adoptable Foul Water MH
G Road Gully
Easement

Adoptable Drainage
1. 150mm - 300mm pipework to be Polysewer by Polypipe.
2. 375 - 450mm drainage to be Ridgisewer by Polypipe.
3. All Adoptable drainage shall be constructed in accordance with United Utilities standard details, and all corresponding approved drawings.
4. For detailed pipe bedding information please refer to United Utilities Standard details on UU STND/19/008 Rev A.

o flight data available –
ght restrictions in place.
utline of school
proximately digitised
om online mapping

(Miners Welfare Institute)

1

2

3

4

4

Proposed re-connection point
CL: 132.000
IL: 131.300
L=34.660m, 450Ø @ 1:159.8

Indicative line of culvert to be diverted

Culvert diversion heads east to rejoin the culvert to the north of School Brow.

CL: 133.570
IL: 132.000
L=30.200m, 450Ø @ 1:159.8

CL: 133.350
IL: 131.516

CL: 133.700
IL: 131.811

FW-1.004, 100.000m, 150Ø @ 1:118.3

MH-F6
1050Ø PCC
CL: 133.700
IL: 132.350

FW-1.005, 12.010m, 150Ø @ 1:47.3

MH-F7
1050Ø PCC
CL: 133.500
IL: 132.096

FW-1.006, 18.272m, 150Ø @ 1.80

MH-F8
CL: 133.500
IL: 131.860

Existing 150Ø sewer

Existing 225Ø sewer

New connection to existing UU MH

133.7m

GAS

Plot 4
Fl.134.50

Plot 3
Fl.134.45

Plot 2
Fl.134.40

Plot 1
Fl.134.35

MH-F2
1050Ø PCC
CL: 135.040
IL: 133.615

MH-S3
1500Ø PCC
CL: 134.989
IL: 132.842

FW-1.001, 26.600m, 150Ø @ 1:150

SW-1.001, 26.800m, 450Ø @ 1:200

MH-S2
1500Ø PCC
CL: 134.848
IL: 132.976

MH-F3
1050Ø PCC
CL: 134.797
IL: 133.417

FW-1.002, 12.400m, 150Ø @ 1:150

SW-1.000, 23.900m, 375Ø @ 1:150

MH-F4
1050Ø PCC
CL: 134.747
IL: 133.275

MH-S1
1500Ø PCC
CL: 134.800
IL: 133.225

PS-1.002, L=5.600m, 225Ø, @ 1:10.4

SIC-3
CL: 135.036
IL: 133.911

FW-1.003, 12.000m, 150Ø @ 1:150

PS-1.001, L=17.450

PF-1.001, L=16.700m

FIC-3
CL: 135.004
IL: 133.611

PF-1.002, L=6.400m, 100Ø, @ 1:23

MH-F5
1050Ø PCC
CL: 135.094
IL: 133.195

SCHOOL BROW

Revisions
A - 10/02/21 - Adjusted Levels for Inclusion of Pond (SJ)
B - 16/02/21 - Adjusted Levels to Minimise Required Dig (SJ)
C - 19/03/21 - Site entrance relocated and SW & FW layout updated. (AC)
D - 25/03/21 - Foul and surface water layout updated. (AC)
E - 08/04/21 - Foul and surface water inverts lowered.
Indicative plot drainage connections added. (AC)
F - 12/05/21 - Manhole Diameters added. (AC)
G - 07/09/21 - Foul Pipe 1.004 altered and FMH15 updated. (RB)
H - 16/11/21 - Site Layout and drainage layout updated (AC)
J - 25/11/21 - Culvert diverted around existing houses to the west. (RB)
K - 03/03/22 - Site layout and drainage layout amended. (AC)
L - 09/03/22 - Floor levels amended and MH diameters added. (AC)

PRELIMINARY

Suitability --

Static

Hous

Project
Residential Development at
School Brow, Moresby Parks

Client
Raemore Developments Limited

Drawing
Drainage Strategy
Sheet 3 of 3

Project no	Drawing no	Date	Drawn by	Rev	Scale	Sheet
6972	202	Nov 20	AC	L	1:200	A1

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Key

- Site Boundary
- Impermeable Road Area
- Impermeable Roof Area
- Impermeable Driveway Area
- Permeable Access Track

Summary of Areas

- Road Area = 1037m²
- Roof Area = 2514m²
- Driveway Area = 1697m²
- Additional Offsite Road Area to Drain = 300m²
- Total Impermeable Area = 5548m²
- Total Impermeable Area With Additional Urban Creep Allowance of 10% = 6102.8m²

Revisions

A	08.09.21	Cross checking contributing Areas. (RB)
B	16.09.21	Northern site boundary altered. (RB)
C	28.10.21	Layout updated according to Architects. (RB)
D	09.11.21	Layout updated according to Architects. (RB)
E	11.03.22	Areas recalculated to match revised site layout. (AC)

PRELIMINARY

Suitability --

Project

Residential Development at School Brow, Moresby Parks

Client

Drawing

Contributing Areas

Project no	Drawing no	Date	Drawn by	Rev	Scale	Sheet
6972	203	JUN 21	SJ	E	1:250	A1

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APPENDIX C -
EA FLOOD MAP FOR PLANNING AND LONG TERM FLOOD RISK

Flood map for planning

Your reference	Location (easting/northing)	Created
Moresby Park	**299607/519653**	**23 Oct 2020 15:20**

Your selected location is in flood zone 1, an area with a low probability of flooding.

This means:

- you don't need to do a flood risk assessment if your development is smaller than 1 hectare and not affected by other sources of flooding
- you may need to do a flood risk assessment if your development is larger than 1 hectare or affected by other sources of flooding or in an area with critical drainage problems

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Environment Agency

Flood map for planning

Your reference
Moresby Park

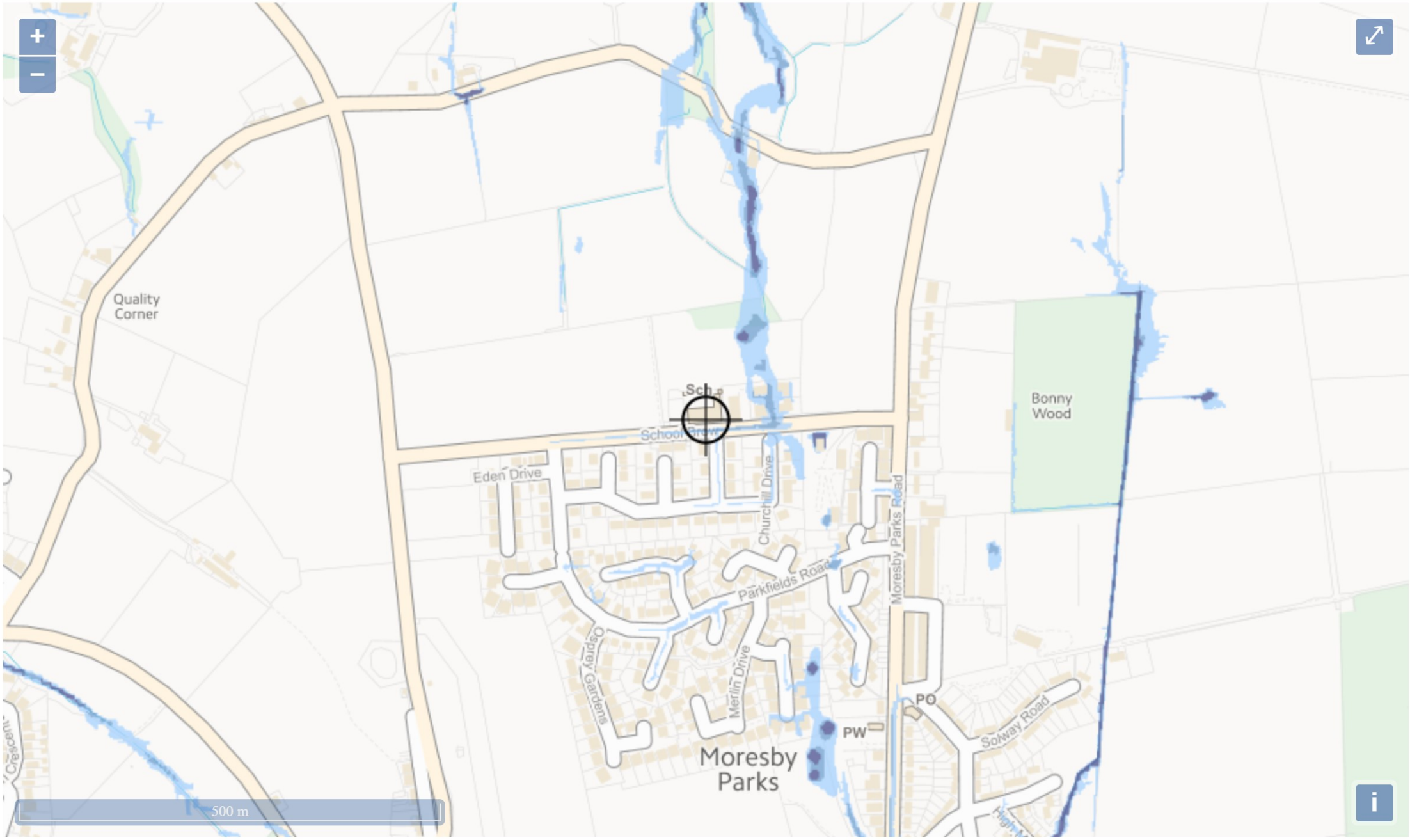
Location (easting/northing)
299607/519653

Scale
1:2500

Created
23 Oct 2020 15:20

- Selected point
- Flood zone 3
- Flood zone 3: areas benefitting from flood defences
- Flood zone 2
- Flood zone 1
- Flood defence
- Main river
- Flood storage area

0 20 40 60m



Extent of flooding from surface water

High Medium Low Very low Location you selected

APPENDIX D-
OUTLINE SURFACE WATER CALCULATIONS

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	40	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	17.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.300	Preferred Cover Depth (m)	1.200
CV	1.000	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Node Type	Diameter (mm)	Depth (m)
SIC-1	0.087	5.00	137.000	Manhole	600	1.125
SIC-2	0.020	5.00	135.400	Manhole	600	1.125
SIC-3	0.010	5.00	135.036	Manhole	600	1.125
S1	0.056	5.00	134.800	Manhole	1500	1.575
S2	0.100	5.00	134.848	Manhole	1500	1.872
S3	0.094	5.00	134.989	Manhole	1500	2.147
SIC-4	0.045	5.00	136.600	Manhole	450	0.900
SIC-5	0.045	5.00	137.000	Manhole	450	0.900
SIC-6	0.022	5.00	137.000	Manhole	600	1.785
S4	0.076	5.00	135.350	Manhole	1500	2.641
S5			133.600	Manhole	1500	1.275
S6			133.500	Manhole	1500	1.467
S7			132.500	Junction		1.388
S8		5.00	132.500	Junction		1.500
S9			132.500	Manhole	1500	1.536
Outfall			131.370	Junction		0.570

Links (Input)

Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
PS-1.000	SIC-1	SIC-2	37.000	135.875	134.275	1.600	23.1	225	5.23	50.0
PS-1.001	SIC-2	SIC-3	17.450	134.275	133.911	0.364	47.9	225	5.38	50.0
PS-1.002	SIC-3	S1	5.600	133.911	133.375	0.536	10.4	225	5.40	50.0
SW-1.000	S1	S2	23.900	133.225	133.051	0.174	137.4	375	5.66	50.0
SW-1.001	S2	S3	26.800	132.976	132.842	0.134	200.0	450	5.97	50.0
SW-1.002	S3	S4	26.600	132.842	132.709	0.133	200.0	450	6.28	50.0
PS-2.000	SIC-4	SIC-6	32.700	135.700	135.290	0.410	79.8	150	5.48	50.0
PS-3.000	SIC-5	SIC-6	18.200	136.100	135.290	0.810	22.5	150	5.14	50.0
PS-2.001	SIC-6	S4	30.000	135.215	133.925	1.290	23.3	225	5.67	50.0
SW-1.003	S4	S5	52.000	132.709	132.325	0.384	135.5	450	6.78	50.0
SW-1.004	S5	S6	26.300	132.325	132.033	0.292	90.0	450	6.98	50.0
SW-1.005	S6	S7	34.000	132.033	131.655	0.378	90.0	450	7.25	50.0
SW-1.006	S8	S9	5.000	131.000	130.964	0.036	138.9	225	5.08	50.0
SW-1.007	S9	Outfall	16.900	130.964	130.800	0.164	103.0	150	5.36	50.0

Simulation Settings

Rainfall Methodology	FSR	Drain Down Time (mins)	240
FSR Region	England and Wales	Additional Storage (m³/ha)	20.0
M5-60 (mm)	17.000	Check Discharge Rate(s)	✓
Ratio-R	0.300	1 year (l/s)	10.6
Summer CV	1.000	30 year (l/s)	20.6
Winter CV	1.000	100 year (l/s)	25.2
Analysis Speed	Detailed	Check Discharge Volume	✓
Skip Steady State	x	100 year +30% 360 minute (m³)	572

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	10	0
2	0	10	0
30	0	10	0
100	0	10	0
100	40	10	0

Pre-development Discharge Rate

Site Makeup	Greenfield	Growth Factor 30 year	1.95
Greenfield Method	IH124	Growth Factor 100 year	2.48
Positively Drained Area (ha)	1.366	Betterment (%)	0
SAAR (mm)	1178	QBar	12.1
Soil Index	4	Q 1 year (l/s)	
SPR	0.47	Q 30 year (l/s)	
Region	10	Q 100 year (l/s)	
Growth Factor 1 year	0.85		

Pre-development Discharge Volume

Site Makeup	Greenfield	Return Period (years)	100
Greenfield Method	FSR/FEH	Climate Change (%)	30
Positively Drained Area (ha)	1.366	Storm Duration (mins)	360
Soil Index	4	Betterment (%)	0
SPR	0.47	PR	0.530
CWI	125.445	Runoff Volume (m³)	572

Node S9 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	130.964	Product Number	CTL-SHE-0132-8100-1050-8100
Design Depth (m)	1.050	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	8.1	Min Node Diameter (mm)	1200

Node S8 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	22.408
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	131.000	Main Channel Slope (1:X)	200.0
Safety Factor	2.0	Time to half empty (mins)	368	Main Channel n	0.030

Inlets

S7

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	185.0	0.0	1.300	560.0	0.0

Other (defaults)

Entry Loss (manhole)	0.250	Entry Loss (junction)	0.000	Apply Recommended Losses	x
Exit Loss (manhole)	0.250	Exit Loss (junction)	0.000	Flood Risk (m)	0.300

Approval Settings

Node Size	x	Backdrops	x	Return Period (years)	100
Node Losses	✓	Full Bore Velocity	x	Discharge Rates	✓
Link Size	x	Proportional Velocity	x	1 year (l/s)	10.6
Link Length	x	Surcharged Depth	x	30 year (l/s)	20.6
Coordinates	x	Flooding	✓	100 year (l/s)	25.2
Crossings	x	Return Period (years)	30	Discharge Volume	✓
Cover Depth	x	Time to Half Empty	✓	100 year +30% 360 minute (m³)	572

Approval Results

The network has been designed for a 1 in 100 year storm using FSR rainfall
It contains 16 nodes (1 outfall) and 14 links
The total impermeable area is 0.555 ha
1 online control has been defined
1 structure has been defined, providing 401m³ of storage below the flood risk level
Infiltration has not been utilised
Simulations have been completed using FSR summer and winter storms from 15 to 1440 minute duration

The node size test has not been completed

No connections have combined exit and entry losses less than the recomended total

The link size test has not been completed

The link length test has not been completed

The coordinates test has not been completed

The crossings test has not been completed

The cover depth test has not been completed

The backdrops test has not been completed

The full bore velocity test has not been completed

The proportional velocity test has not been completed

The surcharged depth test has not been completed

No nodes flood during the 30 year return period

No infiltrating structures failed to half empty in 1440 minutes during the 100 year return period

No outfalls have a discharge rate greater than 10.6l/s during the 1 year return period

No outfalls have a discharge rate greater than 20.6l/s during the 30 year return period

No outfalls have a discharge rate greater than 25.2l/s during the 100 year return period

No outfalls have a discharge volume greater than 572m³ during the 100 year 360 minute storm

Results for 1 year +10% A Critical Storm Duration. Lowest mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SIC-1	10	135.928	0.053	13.2	0.1043	0.0000	OK
15 minute summer	SIC-2	10	134.351	0.076	16.1	0.0513	0.0000	OK
15 minute summer	SIC-3	10	133.966	0.055	17.4	0.0261	0.0000	OK
15 minute summer	S1	11	133.327	0.102	25.8	0.2591	0.0000	OK
15 minute summer	S2	11	133.109	0.133	40.2	0.3918	0.0000	OK
15 minute summer	S3	11	133.001	0.159	54.0	0.4331	0.0000	OK
15 minute summer	SIC-4	10	135.761	0.061	6.8	0.0764	0.0000	OK
15 minute summer	SIC-5	10	136.144	0.044	6.8	0.0555	0.0000	OK
15 minute summer	SIC-6	11	135.276	0.061	16.6	0.0335	0.0000	OK
15 minute summer	S4	11	132.882	0.173	81.9	0.4150	0.0000	OK
15 minute summer	S5	11	132.484	0.159	82.0	0.2801	0.0000	OK
15 minute summer	S6	12	132.185	0.152	81.0	0.2683	0.0000	OK
180 minute summer	S7	128	131.276	0.163	33.4	0.0000	0.0000	OK
180 minute summer	S8	128	131.275	0.275	20.9	0.0000	0.0000	SURCHARGED
180 minute summer	S9	128	131.274	0.310	8.2	0.5471	0.0000	SURCHARGED
15 minute summer	Outfall	1	130.800	0.000	8.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SIC-1	PS-1.000	SIC-2	13.1	1.401	0.120	0.3482	
15 minute summer	SIC-2	PS-1.001	SIC-3	15.9	1.665	0.211	0.1674	
15 minute summer	SIC-3	PS-1.002	S1	17.3	2.498	0.107	0.0388	
15 minute summer	S1	SW-1.000	S2	25.7	1.102	0.151	0.5577	
15 minute summer	S2	SW-1.001	S3	40.4	0.909	0.177	1.1937	
15 minute summer	S3	SW-1.002	S4	54.4	1.026	0.238	1.4092	
15 minute summer	SIC-4	PS-2.000	SIC-6	6.6	1.007	0.333	0.2151	
15 minute summer	SIC-5	PS-3.000	SIC-6	6.7	1.589	0.179	0.0771	
15 minute summer	SIC-6	PS-2.001	S4	16.5	1.955	0.152	0.2534	
15 minute summer	S4	SW-1.003	S5	82.0	1.548	0.295	2.7534	
15 minute summer	S5	SW-1.004	S6	81.0	1.687	0.237	1.2631	
15 minute summer	S6	SW-1.005	S7	81.8	1.775	0.240	1.5668	
180 minute summer	S7	Flow through pond	S8	20.9	0.058	0.001	47.9675	
180 minute summer	S8	SW-1.006	S9	8.2	0.387	0.186	0.1989	
180 minute summer	S9	Hydro-Brake®	Outfall	8.1				98.8

Results for 30 year +10% A Critical Storm Duration. Lowest mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SIC-1	10	135.958	0.083	32.1	0.1649	0.0000	OK
15 minute summer	SIC-2	10	134.402	0.127	39.3	0.0856	0.0000	OK
15 minute summer	SIC-3	10	134.003	0.092	42.5	0.0439	0.0000	OK
15 minute summer	S1	10	133.392	0.167	62.9	0.4253	0.0000	OK
15 minute summer	S2	11	133.206	0.230	98.8	0.6755	0.0000	OK
15 minute summer	S3	11	133.121	0.279	131.9	0.7606	0.0000	OK
15 minute summer	SIC-4	10	135.807	0.107	16.6	0.1346	0.0000	OK
15 minute summer	SIC-5	10	136.173	0.073	16.6	0.0915	0.0000	OK
15 minute summer	SIC-6	10	135.314	0.099	40.7	0.0547	0.0000	OK
15 minute summer	S4	11	133.008	0.299	199.3	0.7172	0.0000	OK
15 minute summer	S5	11	132.600	0.275	200.4	0.4855	0.0000	OK
15 minute summer	S6	11	132.288	0.254	199.7	0.4497	0.0000	OK
180 minute winter	S7	180	131.649	0.537	53.5	0.0000	0.0000	OK
180 minute winter	S8	180	131.649	0.649	31.5	0.0000	0.0000	SURCHARGED
180 minute winter	S9	180	131.648	0.684	8.4	1.2078	0.0000	SURCHARGED
15 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SIC-1	PS-1.000	SIC-2	31.9	1.756	0.294	0.6733	
15 minute summer	SIC-2	PS-1.001	SIC-3	38.8	2.028	0.516	0.3343	
15 minute summer	SIC-3	PS-1.002	S1	42.3	3.085	0.261	0.0769	
15 minute summer	S1	SW-1.000	S2	62.3	1.387	0.365	1.0749	
15 minute summer	S2	SW-1.001	S3	98.6	1.069	0.433	2.4706	
15 minute summer	S3	SW-1.002	S4	132.5	1.234	0.581	2.8572	
15 minute summer	SIC-4	PS-2.000	SIC-6	16.1	1.237	0.811	0.4282	
15 minute summer	SIC-5	PS-3.000	SIC-6	16.5	2.006	0.437	0.1493	
15 minute summer	SIC-6	PS-2.001	S4	40.3	2.477	0.372	0.4885	
15 minute summer	S4	SW-1.003	S5	200.4	1.880	0.722	5.5415	
15 minute summer	S5	SW-1.004	S6	199.7	2.061	0.586	2.5484	
15 minute summer	S6	SW-1.005	S7	198.7	2.225	0.583	3.0370	
180 minute winter	S7	Flow through pond	S8	31.5	0.083	0.001	160.7754	
180 minute winter	S8	SW-1.006	S9	8.4	0.400	0.190	0.1989	
180 minute winter	S9	Hydro-Brake®	Outfall	8.1				176.3

Results for 100 year +10% A Critical Storm Duration. Lowest mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SIC-1	10	135.970	0.095	41.2	0.1890	0.0000	OK
15 minute summer	SIC-2	10	134.425	0.150	50.4	0.1011	0.0000	OK
15 minute summer	SIC-3	10	134.019	0.108	54.6	0.0515	0.0000	OK
15 minute summer	S1	10	133.422	0.197	80.8	0.5027	0.0000	OK
15 minute summer	S2	11	133.255	0.279	127.3	0.8200	0.0000	OK
15 minute summer	S3	11	133.184	0.342	169.3	0.9327	0.0000	OK
15 minute summer	SIC-4	11	135.842	0.142	21.3	0.1783	0.0000	OK
15 minute summer	SIC-5	10	136.185	0.085	21.3	0.1069	0.0000	OK
15 minute summer	SIC-6	10	135.329	0.114	51.8	0.0633	0.0000	OK
15 minute summer	S4	11	133.074	0.365	254.9	0.8748	0.0000	OK
15 minute summer	S5	11	132.654	0.329	255.8	0.5806	0.0000	OK
15 minute summer	S6	11	132.333	0.300	254.6	0.5296	0.0000	OK
240 minute winter	S7	236	131.836	0.724	57.6	0.0000	0.0000	OK
240 minute winter	S8	236	131.836	0.836	33.4	0.0000	0.0000	SURCHARGED
240 minute winter	S9	236	131.834	0.870	8.3	1.5377	0.0000	SURCHARGED
15 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SIC-1	PS-1.000	SIC-2	41.0	1.853	0.377	0.8154	
15 minute summer	SIC-2	PS-1.001	SIC-3	49.9	2.123	0.662	0.4090	
15 minute summer	SIC-3	PS-1.002	S1	54.3	3.252	0.336	0.0936	
15 minute summer	S1	SW-1.000	S2	80.0	1.377	0.469	1.4257	
15 minute summer	S2	SW-1.001	S3	126.1	1.093	0.553	3.1122	
15 minute summer	S3	SW-1.002	S4	169.5	1.270	0.743	3.5471	
15 minute summer	SIC-4	PS-2.000	SIC-6	20.5	1.272	1.030	0.5476	
15 minute summer	SIC-5	PS-3.000	SIC-6	21.1	2.125	0.560	0.1809	
15 minute summer	SIC-6	PS-2.001	S4	51.4	2.628	0.475	0.5874	
15 minute summer	S4	SW-1.003	S5	255.8	1.953	0.922	6.8011	
15 minute summer	S5	SW-1.004	S6	254.6	2.155	0.747	3.1056	
15 minute summer	S6	SW-1.005	S7	254.0	2.344	0.745	3.6832	
240 minute winter	S7	Flow through pond	S8	33.4	0.071	0.001	232.3288	
240 minute winter	S8	SW-1.006	S9	8.3	0.410	0.189	0.1989	
240 minute winter	S9	Hydro-Brake®	Outfall	8.1				331.9

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SIC-1	10	135.991	0.116	57.7	0.2293	0.0000	OK
15 minute summer	SIC-2	10	134.475	0.200	70.7	0.1347	0.0000	OK
15 minute summer	SIC-3	11	134.056	0.145	76.1	0.0694	0.0000	OK
15 minute summer	S1	11	133.745	0.520	113.3	1.3261	0.0000	SURCHARGED
15 minute summer	S2	11	133.655	0.679	168.6	1.9982	0.0000	SURCHARGED
15 minute summer	S3	11	133.563	0.721	220.1	1.9688	0.0000	SURCHARGED
15 minute summer	SIC-4	11	136.299	0.599	29.8	0.7545	0.0000	SURCHARGED
15 minute summer	SIC-5	10	136.208	0.108	29.8	0.1360	0.0000	OK
15 minute summer	SIC-6	11	135.355	0.140	70.2	0.0774	0.0000	OK
15 minute summer	S4	11	133.395	0.686	333.2	1.6472	0.0000	SURCHARGED
15 minute summer	S5	12	132.777	0.452	330.2	0.7987	0.0000	SURCHARGED
15 minute summer	S6	12	132.403	0.370	325.5	0.6535	0.0000	OK
360 minute winter	S7	344	132.113	1.001	60.3	0.0000	0.0000	OK
360 minute winter	S8	344	132.113	1.113	34.3	0.0000	0.0000	SURCHARGED
360 minute winter	S9	344	132.111	1.147	8.4	2.0268	0.0000	SURCHARGED
15 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SIC-1	PS-1.000	SIC-2	57.4	1.961	0.528	1.0698	
15 minute summer	SIC-2	PS-1.001	SIC-3	69.5	2.190	0.923	0.5570	
15 minute summer	SIC-3	PS-1.002	S1	76.2	3.393	0.471	0.1872	
15 minute summer	S1	SW-1.000	S2	105.5	1.363	0.619	2.6361	
15 minute summer	S2	SW-1.001	S3	162.7	1.097	0.713	4.2463	
15 minute summer	S3	SW-1.002	S4	216.7	1.368	0.951	4.2146	
15 minute summer	SIC-4	PS-2.000	SIC-6	27.6	1.568	1.387	0.5693	
15 minute summer	SIC-5	PS-3.000	SIC-6	29.5	2.267	0.784	0.2370	
15 minute summer	SIC-6	PS-2.001	S4	70.4	2.819	0.650	0.7490	
15 minute summer	S4	SW-1.003	S5	330.2	2.084	1.190	8.2371	
15 minute summer	S5	SW-1.004	S6	325.5	2.209	0.955	3.9156	
15 minute summer	S6	SW-1.005	S7	327.5	2.443	0.961	4.5743	
360 minute winter	S7	Flow through pond	S8	34.3	0.055	0.001	357.0321	
360 minute winter	S8	SW-1.006	S9	8.4	0.391	0.192	0.1989	
360 minute winter	S9	Hydro-Brake®	Outfall	8.4				519.9

Results for 1 year +10% A 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SIC-1	10	135.928	0.053	13.2	0.1043	0.0000	OK
15 minute summer	SIC-2	10	134.351	0.076	16.1	0.0513	0.0000	OK
15 minute summer	SIC-3	10	133.966	0.055	17.4	0.0261	0.0000	OK
15 minute summer	S1	11	133.327	0.102	25.8	0.2591	0.0000	OK
15 minute summer	S2	11	133.109	0.133	40.2	0.3918	0.0000	OK
15 minute summer	S3	11	133.001	0.159	54.0	0.4331	0.0000	OK
15 minute summer	SIC-4	10	135.761	0.061	6.8	0.0764	0.0000	OK
15 minute summer	SIC-5	10	136.144	0.044	6.8	0.0555	0.0000	OK
15 minute summer	SIC-6	11	135.276	0.061	16.6	0.0335	0.0000	OK
15 minute summer	S4	11	132.882	0.173	81.9	0.4150	0.0000	OK
15 minute summer	S5	11	132.484	0.159	82.0	0.2801	0.0000	OK
15 minute summer	S6	12	132.185	0.152	81.0	0.2683	0.0000	OK
15 minute summer	S7	20	131.195	0.083	81.8	0.0000	0.0000	OK
15 minute summer	S8	21	131.198	0.198	80.3	0.0000	0.0000	OK
15 minute summer	S9	21	131.197	0.233	10.2	0.4111	0.0000	SURCHARGED
15 minute summer	Outfall	1	130.800	0.000	8.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SIC-1	PS-1.000	SIC-2	13.1	1.401	0.120	0.3482	
15 minute summer	SIC-2	PS-1.001	SIC-3	15.9	1.665	0.211	0.1674	
15 minute summer	SIC-3	PS-1.002	S1	17.3	2.498	0.107	0.0388	
15 minute summer	S1	SW-1.000	S2	25.7	1.102	0.151	0.5577	
15 minute summer	S2	SW-1.001	S3	40.4	0.909	0.177	1.1937	
15 minute summer	S3	SW-1.002	S4	54.4	1.026	0.238	1.4092	
15 minute summer	SIC-4	PS-2.000	SIC-6	6.6	1.007	0.333	0.2151	
15 minute summer	SIC-5	PS-3.000	SIC-6	6.7	1.589	0.179	0.0771	
15 minute summer	SIC-6	PS-2.001	S4	16.5	1.955	0.152	0.2534	
15 minute summer	S4	SW-1.003	S5	82.0	1.548	0.295	2.7534	
15 minute summer	S5	SW-1.004	S6	81.0	1.687	0.237	1.2631	
15 minute summer	S6	SW-1.005	S7	81.8	1.775	0.240	1.5668	
15 minute summer	S7	Flow through pond	S8	80.3	0.200	0.002	29.3281	
15 minute summer	S8	SW-1.006	S9	10.2	0.705	0.231	0.1919	
15 minute summer	S9	Hydro-Brake®	Outfall	8.0				35.8

Results for 1 year +10% A 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SIC-1	10	135.926	0.051	12.4	0.1009	0.0000	OK
15 minute winter	SIC-2	10	134.348	0.073	15.0	0.0494	0.0000	OK
15 minute winter	SIC-3	10	133.963	0.052	16.2	0.0250	0.0000	OK
15 minute winter	S1	11	133.323	0.098	24.0	0.2497	0.0000	OK
15 minute winter	S2	11	133.104	0.128	37.5	0.3769	0.0000	OK
15 minute winter	S3	11	132.995	0.152	50.3	0.4163	0.0000	OK
15 minute winter	SIC-4	10	135.758	0.058	6.4	0.0736	0.0000	OK
15 minute winter	SIC-5	10	136.143	0.043	6.4	0.0537	0.0000	OK
15 minute winter	SIC-6	10	135.273	0.058	15.6	0.0323	0.0000	OK
15 minute winter	S4	11	132.875	0.166	76.2	0.3993	0.0000	OK
15 minute winter	S5	11	132.477	0.152	76.4	0.2693	0.0000	OK
15 minute winter	S6	12	132.179	0.146	75.4	0.2583	0.0000	OK
15 minute winter	S7	21	131.195	0.083	76.2	0.0000	0.0000	OK
15 minute winter	S8	21	131.197	0.197	74.8	0.0000	0.0000	OK
15 minute winter	S9	20	131.197	0.233	10.6	0.4110	0.0000	SURCHARGED
15 minute winter	Outfall	1	130.800	0.000	8.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SIC-1	PS-1.000	SIC-2	12.2	1.378	0.113	0.3312	
15 minute winter	SIC-2	PS-1.001	SIC-3	14.8	1.636	0.196	0.1587	
15 minute winter	SIC-3	PS-1.002	S1	16.1	2.455	0.099	0.0367	
15 minute winter	S1	SW-1.000	S2	24.0	1.081	0.141	0.5300	
15 minute winter	S2	SW-1.001	S3	37.7	0.896	0.166	1.1308	
15 minute winter	S3	SW-1.002	S4	50.7	1.010	0.222	1.3364	
15 minute winter	SIC-4	PS-2.000	SIC-6	6.2	0.988	0.310	0.2044	
15 minute winter	SIC-5	PS-3.000	SIC-6	6.3	1.561	0.167	0.0736	
15 minute winter	SIC-6	PS-2.001	S4	15.3	1.915	0.142	0.2403	
15 minute winter	S4	SW-1.003	S5	76.4	1.523	0.276	2.6115	
15 minute winter	S5	SW-1.004	S6	75.4	1.659	0.221	1.1975	
15 minute winter	S6	SW-1.005	S7	76.2	1.741	0.223	1.4880	
15 minute winter	S7	Flow through pond	S8	74.8	0.183	0.002	29.2827	
15 minute winter	S8	SW-1.006	S9	10.6	0.690	0.241	0.1918	
15 minute winter	S9	Hydro-Brake®	Outfall	8.0				35.8

Results for 1 year +10% A 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	SIC-1	18	135.926	0.051	12.2	0.1007	0.0000	OK
30 minute summer	SIC-2	18	134.349	0.074	15.0	0.0496	0.0000	OK
30 minute summer	SIC-3	18	133.964	0.053	16.4	0.0253	0.0000	OK
30 minute summer	S1	18	133.324	0.099	24.3	0.2516	0.0000	OK
30 minute summer	S2	18	133.105	0.129	38.2	0.3804	0.0000	OK
30 minute summer	S3	18	132.995	0.153	51.3	0.4176	0.0000	OK
30 minute summer	SIC-4	18	135.759	0.059	6.3	0.0741	0.0000	OK
30 minute summer	SIC-5	18	136.143	0.043	6.3	0.0536	0.0000	OK
30 minute summer	SIC-6	18	135.274	0.059	15.7	0.0326	0.0000	OK
30 minute summer	S4	18	132.875	0.166	77.0	0.3991	0.0000	OK
30 minute summer	S5	19	132.479	0.153	76.6	0.2712	0.0000	OK
30 minute summer	S6	19	132.180	0.147	77.1	0.2600	0.0000	OK
30 minute summer	S7	34	131.233	0.121	76.5	0.0000	0.0000	OK
30 minute summer	S8	34	131.232	0.232	73.4	0.0000	0.0000	SURCHARGED
30 minute summer	S9	34	131.230	0.266	9.1	0.4695	0.0000	SURCHARGED
30 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SIC-1	PS-1.000	SIC-2	12.2	1.372	0.112	0.3323	
30 minute summer	SIC-2	PS-1.001	SIC-3	15.0	1.642	0.199	0.1603	
30 minute summer	SIC-3	PS-1.002	S1	16.4	2.464	0.101	0.0373	
30 minute summer	S1	SW-1.000	S2	24.1	1.080	0.142	0.5342	
30 minute summer	S2	SW-1.001	S3	38.1	0.896	0.167	1.1401	
30 minute summer	S3	SW-1.002	S4	50.6	1.011	0.222	1.3388	
30 minute summer	SIC-4	PS-2.000	SIC-6	6.3	0.991	0.315	0.2069	
30 minute summer	SIC-5	PS-3.000	SIC-6	6.3	1.561	0.167	0.0734	
30 minute summer	SIC-6	PS-2.001	S4	15.6	1.924	0.144	0.2439	
30 minute summer	S4	SW-1.003	S5	76.6	1.523	0.276	2.6148	
30 minute summer	S5	SW-1.004	S6	77.1	1.663	0.226	1.2187	
30 minute summer	S6	SW-1.005	S7	76.5	1.740	0.225	1.4972	
30 minute summer	S7	Flow through pond	S8	73.4	0.124	0.002	37.6296	
30 minute summer	S8	SW-1.006	S9	9.1	0.513	0.206	0.1989	
30 minute summer	S9	Hydro-Brake®	Outfall	8.1				48.7

Results for 1 year +10% A 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	SIC-1	18	135.921	0.046	9.9	0.0908	0.0000	OK
30 minute winter	SIC-2	18	134.341	0.066	12.2	0.0445	0.0000	OK
30 minute winter	SIC-3	18	133.958	0.047	13.3	0.0226	0.0000	OK
30 minute winter	S1	18	133.313	0.088	19.7	0.2254	0.0000	OK
30 minute winter	S2	18	133.091	0.115	31.0	0.3389	0.0000	OK
30 minute winter	S3	18	132.978	0.136	41.6	0.3717	0.0000	OK
30 minute winter	SIC-4	18	135.753	0.052	5.1	0.0661	0.0000	OK
30 minute winter	SIC-5	18	136.138	0.038	5.1	0.0480	0.0000	OK
30 minute winter	SIC-6	18	135.268	0.053	12.7	0.0293	0.0000	OK
30 minute winter	S4	18	132.858	0.149	62.5	0.3567	0.0000	OK
30 minute winter	S5	19	132.462	0.137	62.4	0.2418	0.0000	OK
30 minute winter	S6	19	132.165	0.132	62.6	0.2326	0.0000	OK
30 minute winter	S7	34	131.233	0.121	62.2	0.0000	0.0000	OK
30 minute winter	S8	34	131.232	0.232	55.4	0.0000	0.0000	SURCHARGED
30 minute winter	S9	34	131.230	0.266	8.7	0.4700	0.0000	SURCHARGED
30 minute winter	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SIC-1	PS-1.000	SIC-2	9.9	1.293	0.091	0.2861	
30 minute winter	SIC-2	PS-1.001	SIC-3	12.2	1.561	0.162	0.1372	
30 minute winter	SIC-3	PS-1.002	S1	13.3	2.335	0.082	0.0319	
30 minute winter	S1	SW-1.000	S2	19.6	1.021	0.115	0.4589	
30 minute winter	S2	SW-1.001	S3	30.9	0.855	0.136	0.9698	
30 minute winter	S3	SW-1.002	S4	41.3	0.962	0.181	1.1442	
30 minute winter	SIC-4	PS-2.000	SIC-6	5.1	0.937	0.255	0.1773	
30 minute winter	SIC-5	PS-3.000	SIC-6	5.1	1.472	0.135	0.0631	
30 minute winter	SIC-6	PS-2.001	S4	12.7	1.813	0.117	0.2094	
30 minute winter	S4	SW-1.003	S5	62.4	1.448	0.225	2.2434	
30 minute winter	S5	SW-1.004	S6	62.6	1.579	0.184	1.0420	
30 minute winter	S6	SW-1.005	S7	62.2	1.647	0.182	1.2861	
30 minute winter	S7	Flow through pond	S8	55.4	0.126	0.001	37.6222	
30 minute winter	S8	SW-1.006	S9	8.7	0.534	0.197	0.1989	
30 minute winter	S9	Hydro-Brake®	Outfall	8.1				48.7

Results for 1 year +10% A 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	SIC-1	33	135.920	0.045	9.6	0.0894	0.0000	OK
60 minute summer	SIC-2	33	134.340	0.065	11.8	0.0437	0.0000	OK
60 minute summer	SIC-3	33	133.957	0.046	12.9	0.0222	0.0000	OK
60 minute summer	S1	33	133.312	0.087	19.1	0.2218	0.0000	OK
60 minute summer	S2	33	133.089	0.113	30.1	0.3334	0.0000	OK
60 minute summer	S3	33	132.976	0.134	40.4	0.3656	0.0000	OK
60 minute summer	SIC-4	33	135.752	0.052	5.0	0.0654	0.0000	OK
60 minute summer	SIC-5	33	136.138	0.038	5.0	0.0475	0.0000	OK
60 minute summer	SIC-6	33	135.267	0.052	12.4	0.0289	0.0000	OK
60 minute summer	S4	33	132.856	0.146	60.8	0.3516	0.0000	OK
60 minute summer	S5	34	132.460	0.135	60.8	0.2382	0.0000	OK
60 minute summer	S6	34	132.163	0.130	60.9	0.2293	0.0000	OK
60 minute summer	S7	54	131.259	0.147	60.5	0.0000	0.0000	OK
60 minute summer	S8	56	131.259	0.259	45.0	0.0000	0.0000	SURCHARGED
60 minute summer	S9	57	131.257	0.293	8.4	0.5176	0.0000	SURCHARGED
60 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SIC-1	PS-1.000	SIC-2	9.6	1.284	0.088	0.2794	
60 minute summer	SIC-2	PS-1.001	SIC-3	11.8	1.547	0.157	0.1339	
60 minute summer	SIC-3	PS-1.002	S1	12.9	2.317	0.080	0.0312	
60 minute summer	S1	SW-1.000	S2	19.0	1.012	0.111	0.4486	
60 minute summer	S2	SW-1.001	S3	30.0	0.849	0.132	0.9481	
60 minute summer	S3	SW-1.002	S4	40.1	0.955	0.176	1.1202	
60 minute summer	SIC-4	PS-2.000	SIC-6	5.0	0.931	0.250	0.1748	
60 minute summer	SIC-5	PS-3.000	SIC-6	5.0	1.464	0.133	0.0622	
60 minute summer	SIC-6	PS-2.001	S4	12.4	1.801	0.114	0.2058	
60 minute summer	S4	SW-1.003	S5	60.8	1.438	0.219	2.1983	
60 minute summer	S5	SW-1.004	S6	60.9	1.569	0.179	1.0209	
60 minute summer	S6	SW-1.005	S7	60.5	1.635	0.177	1.2608	
60 minute summer	S7	Flow through pond	S8	45.0	0.105	0.001	43.9092	
60 minute summer	S8	SW-1.006	S9	8.4	0.435	0.191	0.1989	
60 minute summer	S9	Hydro-Brake®	Outfall	8.1				64.6

Results for 1 year +10% A 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	SIC-1	33	135.914	0.039	7.0	0.0766	0.0000	OK
60 minute winter	SIC-2	33	134.330	0.055	8.6	0.0372	0.0000	OK
60 minute winter	SIC-3	33	133.950	0.039	9.4	0.0188	0.0000	OK
60 minute winter	S1	33	133.299	0.074	13.9	0.1883	0.0000	OK
60 minute winter	S2	33	133.071	0.095	21.8	0.2808	0.0000	OK
60 minute winter	S3	33	132.955	0.112	29.3	0.3070	0.0000	OK
60 minute winter	SIC-4	33	135.744	0.044	3.6	0.0550	0.0000	OK
60 minute winter	SIC-5	33	136.132	0.032	3.6	0.0402	0.0000	OK
60 minute winter	SIC-6	33	135.259	0.044	9.0	0.0246	0.0000	OK
60 minute winter	S4	34	132.833	0.124	44.3	0.2977	0.0000	OK
60 minute winter	S5	34	132.439	0.114	44.3	0.2007	0.0000	OK
60 minute winter	S6	34	132.143	0.110	44.3	0.1944	0.0000	OK
60 minute winter	S7	57	131.258	0.146	44.1	0.0000	0.0000	OK
60 minute winter	S8	59	131.258	0.258	34.6	0.0000	0.0000	SURCHARGED
60 minute winter	S9	59	131.256	0.292	8.3	0.5159	0.0000	SURCHARGED
60 minute winter	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SIC-1	PS-1.000	SIC-2	7.0	1.172	0.064	0.2228	
60 minute winter	SIC-2	PS-1.001	SIC-3	8.6	1.425	0.114	0.1060	
60 minute winter	SIC-3	PS-1.002	S1	9.4	2.128	0.058	0.0247	
60 minute winter	S1	SW-1.000	S2	13.8	0.927	0.081	0.3570	
60 minute winter	S2	SW-1.001	S3	21.8	0.789	0.096	0.7423	
60 minute winter	S3	SW-1.002	S4	29.2	0.882	0.128	0.8831	
60 minute winter	SIC-4	PS-2.000	SIC-6	3.6	0.852	0.180	0.1379	
60 minute winter	SIC-5	PS-3.000	SIC-6	3.6	1.334	0.095	0.0491	
60 minute winter	SIC-6	PS-2.001	S4	9.0	1.645	0.083	0.1638	
60 minute winter	S4	SW-1.003	S5	44.3	1.326	0.160	1.7376	
60 minute winter	S5	SW-1.004	S6	44.3	1.444	0.130	0.8062	
60 minute winter	S6	SW-1.005	S7	44.1	1.497	0.130	1.0033	
60 minute winter	S7	Flow through pond	S8	34.6	0.102	0.001	43.6884	
60 minute winter	S8	SW-1.006	S9	8.3	0.447	0.188	0.1989	
60 minute winter	S9	Hydro-Brake®	Outfall	8.1				64.6

Results for 1 year +10% A 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	SIC-1	64	135.913	0.038	6.7	0.0750	0.0000	OK
120 minute summer	SIC-2	64	134.329	0.054	8.2	0.0363	0.0000	OK
120 minute summer	SIC-3	64	133.949	0.038	9.0	0.0184	0.0000	OK
120 minute summer	S1	64	133.297	0.072	13.3	0.1844	0.0000	OK
120 minute summer	S2	64	133.069	0.093	21.0	0.2749	0.0000	OK
120 minute summer	S3	64	132.953	0.110	28.3	0.3015	0.0000	OK
120 minute summer	SIC-4	64	135.743	0.043	3.5	0.0542	0.0000	OK
120 minute summer	SIC-5	64	136.132	0.031	3.5	0.0396	0.0000	OK
120 minute summer	SIC-6	64	135.259	0.044	8.7	0.0242	0.0000	OK
120 minute summer	S4	64	132.831	0.122	42.8	0.2927	0.0000	OK
120 minute summer	S5	64	132.436	0.111	42.7	0.1967	0.0000	OK
120 minute summer	S6	64	132.141	0.108	42.5	0.1902	0.0000	OK
120 minute summer	S7	90	131.274	0.162	42.4	0.0000	0.0000	OK
120 minute summer	S8	90	131.274	0.274	26.5	0.0000	0.0000	SURCHARGED
120 minute summer	S9	90	131.273	0.309	8.2	0.5452	0.0000	SURCHARGED
120 minute summer	Outfall	2	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SIC-1	PS-1.000	SIC-2	6.7	1.161	0.062	0.2155	
120 minute summer	SIC-2	PS-1.001	SIC-3	8.2	1.406	0.109	0.1025	
120 minute summer	SIC-3	PS-1.002	S1	9.0	2.104	0.056	0.0240	
120 minute summer	S1	SW-1.000	S2	13.3	0.917	0.078	0.3467	
120 minute summer	S2	SW-1.001	S3	21.0	0.781	0.092	0.7221	
120 minute summer	S3	SW-1.002	S4	28.2	0.873	0.124	0.8615	
120 minute summer	SIC-4	PS-2.000	SIC-6	3.5	0.846	0.176	0.1353	
120 minute summer	SIC-5	PS-3.000	SIC-6	3.5	1.323	0.093	0.0481	
120 minute summer	SIC-6	PS-2.001	S4	8.7	1.629	0.080	0.1601	
120 minute summer	S4	SW-1.003	S5	42.7	1.313	0.154	1.6932	
120 minute summer	S5	SW-1.004	S6	42.5	1.430	0.125	0.7826	
120 minute summer	S6	SW-1.005	S7	42.4	1.480	0.124	0.9740	
120 minute summer	S7	Flow through pond	S8	26.5	0.078	0.001	47.6860	
120 minute summer	S8	SW-1.006	S9	8.2	0.393	0.187	0.1989	
120 minute summer	S9	Hydro-Brake®	Outfall	8.1				84.8

Results for 1 year +10% A 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	SIC-1	64	135.907	0.032	4.6	0.0625	0.0000	OK
120 minute winter	SIC-2	64	134.320	0.045	5.7	0.0302	0.0000	OK
120 minute winter	SIC-3	64	133.943	0.032	6.2	0.0151	0.0000	OK
120 minute winter	S1	64	133.285	0.060	9.2	0.1532	0.0000	OK
120 minute winter	S2	64	133.053	0.077	14.5	0.2269	0.0000	OK
120 minute winter	S3	64	132.933	0.091	19.5	0.2474	0.0000	OK
120 minute winter	SIC-4	64	135.736	0.036	2.4	0.0447	0.0000	OK
120 minute winter	SIC-5	64	136.126	0.026	2.4	0.0328	0.0000	OK
120 minute winter	SIC-6	64	135.251	0.036	6.0	0.0201	0.0000	OK
120 minute winter	S4	64	132.810	0.101	29.5	0.2417	0.0000	OK
120 minute winter	S5	64	132.417	0.092	29.4	0.1619	0.0000	OK
120 minute winter	S6	66	132.123	0.090	29.4	0.1582	0.0000	OK
120 minute winter	S7	96	131.268	0.156	29.4	0.0000	0.0000	OK
120 minute winter	S8	94	131.268	0.268	21.2	0.0000	0.0000	SURCHARGED
120 minute winter	S9	94	131.266	0.302	8.2	0.5336	0.0000	SURCHARGED
120 minute winter	Outfall	2	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SIC-1	PS-1.000	SIC-2	4.6	1.036	0.042	0.1659	
120 minute winter	SIC-2	PS-1.001	SIC-3	5.7	1.279	0.076	0.0784	
120 minute winter	SIC-3	PS-1.002	S1	6.2	1.901	0.038	0.0183	
120 minute winter	S1	SW-1.000	S2	9.2	0.826	0.054	0.2662	
120 minute winter	S2	SW-1.001	S3	14.5	0.713	0.064	0.5460	
120 minute winter	S3	SW-1.002	S4	19.5	0.793	0.085	0.6536	
120 minute winter	SIC-4	PS-2.000	SIC-6	2.4	0.760	0.121	0.1033	
120 minute winter	SIC-5	PS-3.000	SIC-6	2.4	1.186	0.064	0.0368	
120 minute winter	SIC-6	PS-2.001	S4	6.0	1.463	0.055	0.1230	
120 minute winter	S4	SW-1.003	S5	29.4	1.189	0.106	1.2876	
120 minute winter	S5	SW-1.004	S6	29.4	1.295	0.086	0.5969	
120 minute winter	S6	SW-1.005	S7	29.4	1.334	0.086	0.7503	
120 minute winter	S7	Flow through pond	S8	21.2	0.083	0.001	46.1059	
120 minute winter	S8	SW-1.006	S9	8.2	0.395	0.186	0.1989	
120 minute winter	S9	Hydro-Brake®	Outfall	8.1				84.3

Results for 1 year +10% A 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	SIC-1	96	135.908	0.033	5.2	0.0663	0.0000	OK
180 minute summer	SIC-2	96	134.323	0.047	6.4	0.0320	0.0000	OK
180 minute summer	SIC-3	96	133.945	0.034	7.0	0.0161	0.0000	OK
180 minute summer	S1	96	133.289	0.064	10.4	0.1630	0.0000	OK
180 minute summer	S2	96	133.058	0.082	16.4	0.2418	0.0000	OK
180 minute summer	S3	96	132.939	0.097	22.1	0.2644	0.0000	OK
180 minute summer	SIC-4	96	135.738	0.038	2.7	0.0475	0.0000	OK
180 minute summer	SIC-5	96	136.128	0.028	2.7	0.0348	0.0000	OK
180 minute summer	SIC-6	96	135.253	0.038	6.7	0.0213	0.0000	OK
180 minute summer	S4	96	132.816	0.107	33.4	0.2577	0.0000	OK
180 minute summer	S5	96	132.423	0.098	33.4	0.1730	0.0000	OK
180 minute summer	S6	96	132.128	0.095	33.4	0.1686	0.0000	OK
180 minute summer	S7	128	131.276	0.163	33.4	0.0000	0.0000	OK
180 minute summer	S8	128	131.275	0.275	20.9	0.0000	0.0000	SURCHARGED
180 minute summer	S9	128	131.274	0.310	8.2	0.5471	0.0000	SURCHARGED
180 minute summer	Outfall	4	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SIC-1	PS-1.000	SIC-2	5.2	1.078	0.048	0.1804	
180 minute summer	SIC-2	PS-1.001	SIC-3	6.4	1.319	0.085	0.0854	
180 minute summer	SIC-3	PS-1.002	S1	7.0	1.966	0.043	0.0199	
180 minute summer	S1	SW-1.000	S2	10.4	0.855	0.061	0.2909	
180 minute summer	S2	SW-1.001	S3	16.4	0.735	0.072	0.5996	
180 minute summer	S3	SW-1.002	S4	22.1	0.820	0.097	0.7174	
180 minute summer	SIC-4	PS-2.000	SIC-6	2.7	0.786	0.136	0.1124	
180 minute summer	SIC-5	PS-3.000	SIC-6	2.7	1.227	0.072	0.0400	
180 minute summer	SIC-6	PS-2.001	S4	6.7	1.510	0.062	0.1331	
180 minute summer	S4	SW-1.003	S5	33.4	1.230	0.120	1.4126	
180 minute summer	S5	SW-1.004	S6	33.4	1.340	0.098	0.6555	
180 minute summer	S6	SW-1.005	S7	33.4	1.382	0.098	0.8213	
180 minute summer	S7	Flow through pond	S8	20.9	0.058	0.001	47.9675	
180 minute summer	S8	SW-1.006	S9	8.2	0.387	0.186	0.1989	
180 minute summer	S9	Hydro-Brake®	Outfall	8.1				98.8

Results for 1 year +10% A 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	SIC-1	96	135.903	0.028	3.6	0.0556	0.0000	OK
180 minute winter	SIC-2	96	134.315	0.039	4.4	0.0266	0.0000	OK
180 minute winter	SIC-3	96	133.939	0.028	4.8	0.0133	0.0000	OK
180 minute winter	S1	96	133.278	0.053	7.1	0.1347	0.0000	OK
180 minute winter	S2	96	133.044	0.068	11.2	0.1987	0.0000	OK
180 minute winter	S3	96	132.921	0.079	15.1	0.2168	0.0000	OK
180 minute winter	SIC-4	96	135.732	0.032	1.9	0.0397	0.0000	OK
180 minute winter	SIC-5	96	136.123	0.023	1.9	0.0293	0.0000	OK
180 minute winter	SIC-6	96	135.247	0.032	4.7	0.0179	0.0000	OK
180 minute winter	S4	96	132.798	0.089	22.9	0.2130	0.0000	OK
180 minute winter	S5	96	132.406	0.081	22.9	0.1426	0.0000	OK
180 minute winter	S6	96	132.112	0.079	22.9	0.1397	0.0000	OK
180 minute winter	S7	136	131.264	0.152	22.9	0.0000	0.0000	OK
180 minute winter	S8	136	131.264	0.264	17.0	0.0000	0.0000	SURCHARGED
180 minute winter	S9	136	131.263	0.299	8.1	0.5276	0.0000	SURCHARGED
180 minute winter	Outfall	4	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SIC-1	PS-1.000	SIC-2	3.6	0.969	0.033	0.1387	
180 minute winter	SIC-2	PS-1.001	SIC-3	4.4	1.190	0.058	0.0651	
180 minute winter	SIC-3	PS-1.002	S1	4.8	1.768	0.030	0.0152	
180 minute winter	S1	SW-1.000	S2	7.1	0.766	0.042	0.2215	
180 minute winter	S2	SW-1.001	S3	11.2	0.667	0.049	0.4508	
180 minute winter	S3	SW-1.002	S4	15.1	0.740	0.066	0.5430	
180 minute winter	SIC-4	PS-2.000	SIC-6	1.9	0.711	0.095	0.0874	
180 minute winter	SIC-5	PS-3.000	SIC-6	1.9	1.110	0.050	0.0312	
180 minute winter	SIC-6	PS-2.001	S4	4.7	1.362	0.043	0.1035	
180 minute winter	S4	SW-1.003	S5	22.9	1.109	0.083	1.0735	
180 minute winter	S5	SW-1.004	S6	22.9	1.208	0.067	0.4986	
180 minute winter	S6	SW-1.005	S7	22.9	1.239	0.067	0.6283	
180 minute winter	S7	Flow through pond	S8	17.0	0.069	0.000	45.3057	
180 minute winter	S8	SW-1.006	S9	8.1	0.389	0.185	0.1989	
180 minute winter	S9	Hydro-Brake®	Outfall	8.1				99.0

Results for 1 year +10% A 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SIC-1	124	135.906	0.031	4.6	0.0624	0.0000	OK
240 minute summer	SIC-2	124	134.320	0.045	5.7	0.0301	0.0000	OK
240 minute summer	SIC-3	124	133.943	0.031	6.1	0.0150	0.0000	OK
240 minute summer	S1	124	133.284	0.059	9.0	0.1513	0.0000	OK
240 minute summer	S2	124	133.052	0.076	14.3	0.2246	0.0000	OK
240 minute summer	S3	124	132.931	0.089	19.1	0.2438	0.0000	OK
240 minute summer	SIC-4	124	135.735	0.035	2.4	0.0444	0.0000	OK
240 minute summer	SIC-5	124	136.126	0.026	2.4	0.0327	0.0000	OK
240 minute summer	SIC-6	124	135.251	0.036	6.0	0.0200	0.0000	OK
240 minute summer	S4	124	132.808	0.099	28.8	0.2383	0.0000	OK
240 minute summer	S5	124	132.415	0.090	28.6	0.1591	0.0000	OK
240 minute summer	S6	128	132.121	0.088	28.3	0.1553	0.0000	OK
240 minute summer	S7	160	131.272	0.160	28.4	0.0000	0.0000	OK
240 minute summer	S8	160	131.272	0.272	19.0	0.0000	0.0000	SURCHARGED
240 minute summer	S9	160	131.270	0.306	8.2	0.5413	0.0000	SURCHARGED
240 minute summer	Outfall	4	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SIC-1	PS-1.000	SIC-2	4.6	1.036	0.042	0.1650	
240 minute summer	SIC-2	PS-1.001	SIC-3	5.6	1.275	0.075	0.0778	
240 minute summer	SIC-3	PS-1.002	S1	6.1	1.895	0.038	0.0181	
240 minute summer	S1	SW-1.000	S2	9.0	0.819	0.053	0.2613	
240 minute summer	S2	SW-1.001	S3	14.2	0.709	0.062	0.5361	
240 minute summer	S3	SW-1.002	S4	18.9	0.785	0.083	0.6402	
240 minute summer	SIC-4	PS-2.000	SIC-6	2.4	0.756	0.119	0.1023	
240 minute summer	SIC-5	PS-3.000	SIC-6	2.4	1.184	0.063	0.0367	
240 minute summer	SIC-6	PS-2.001	S4	5.9	1.457	0.055	0.1218	
240 minute summer	S4	SW-1.003	S5	28.6	1.180	0.103	1.2588	
240 minute summer	S5	SW-1.004	S6	28.3	1.284	0.083	0.5806	
240 minute summer	S6	SW-1.005	S7	28.4	1.320	0.083	0.7313	
240 minute summer	S7	Flow through pond	S8	19.0	0.067	0.000	47.1727	
240 minute summer	S8	SW-1.006	S9	8.2	0.386	0.186	0.1989	
240 minute summer	S9	Hydro-Brake®	Outfall	8.1				110.2

Results for 1 year +10% A 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	SIC-1	124	135.901	0.026	3.0	0.0511	0.0000	OK
240 minute winter	SIC-2	128	134.311	0.036	3.7	0.0244	0.0000	OK
240 minute winter	SIC-3	128	133.936	0.025	4.0	0.0122	0.0000	OK
240 minute winter	S1	124	133.274	0.049	6.0	0.1239	0.0000	OK
240 minute winter	S2	124	133.038	0.062	9.5	0.1827	0.0000	OK
240 minute winter	S3	124	132.915	0.073	12.8	0.1985	0.0000	OK
240 minute winter	SIC-4	124	135.729	0.029	1.6	0.0363	0.0000	OK
240 minute winter	SIC-5	124	136.121	0.021	1.6	0.0268	0.0000	OK
240 minute winter	SIC-6	124	135.245	0.030	4.0	0.0164	0.0000	OK
240 minute winter	S4	124	132.791	0.082	19.4	0.1959	0.0000	OK
240 minute winter	S5	124	132.399	0.074	19.3	0.1306	0.0000	OK
240 minute winter	S6	128	132.106	0.073	19.2	0.1281	0.0000	OK
240 minute winter	S7	172	131.254	0.142	19.2	0.0000	0.0000	OK
240 minute winter	S8	172	131.254	0.254	14.1	0.0000	0.0000	SURCHARGED
240 minute winter	S9	172	131.252	0.288	8.1	0.5088	0.0000	SURCHARGED
240 minute winter	Outfall	4	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SIC-1	PS-1.000	SIC-2	3.0	0.914	0.028	0.1224	
240 minute winter	SIC-2	PS-1.001	SIC-3	3.7	1.136	0.049	0.0574	
240 minute winter	SIC-3	PS-1.002	S1	4.0	1.680	0.025	0.0133	
240 minute winter	S1	SW-1.000	S2	6.0	0.729	0.035	0.1963	
240 minute winter	S2	SW-1.001	S3	9.5	0.639	0.042	0.3980	
240 minute winter	S3	SW-1.002	S4	12.7	0.706	0.056	0.4802	
240 minute winter	SIC-4	PS-2.000	SIC-6	1.6	0.673	0.079	0.0768	
240 minute winter	SIC-5	PS-3.000	SIC-6	1.6	1.052	0.042	0.0275	
240 minute winter	SIC-6	PS-2.001	S4	4.0	1.295	0.037	0.0917	
240 minute winter	S4	SW-1.003	S5	19.3	1.059	0.070	0.9491	
240 minute winter	S5	SW-1.004	S6	19.2	1.152	0.056	0.4390	
240 minute winter	S6	SW-1.005	S7	19.2	1.179	0.056	0.5553	
240 minute winter	S7	Flow through pond	S8	14.1	0.063	0.000	42.7463	
240 minute winter	S8	SW-1.006	S9	8.1	0.387	0.184	0.1989	
240 minute winter	S9	Hydro-Brake®	Outfall	8.1				110.3

Results for 1 year +10% A 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	SIC-1	184	135.903	0.028	3.6	0.0555	0.0000	OK
360 minute summer	SIC-2	184	134.314	0.039	4.4	0.0264	0.0000	OK
360 minute summer	SIC-3	184	133.939	0.028	4.7	0.0132	0.0000	OK
360 minute summer	S1	184	133.277	0.052	7.0	0.1337	0.0000	OK
360 minute summer	S2	184	133.043	0.067	11.2	0.1982	0.0000	OK
360 minute summer	S3	184	132.921	0.079	15.0	0.2153	0.0000	OK
360 minute summer	SIC-4	184	135.731	0.031	1.9	0.0395	0.0000	OK
360 minute summer	SIC-5	184	136.123	0.023	1.9	0.0292	0.0000	OK
360 minute summer	SIC-6	184	135.247	0.032	4.7	0.0177	0.0000	OK
360 minute summer	S4	184	132.797	0.088	22.7	0.2114	0.0000	OK
360 minute summer	S5	184	132.405	0.080	22.5	0.1410	0.0000	OK
360 minute summer	S6	184	132.111	0.078	22.3	0.1374	0.0000	OK
360 minute summer	S7	232	131.260	0.148	22.1	0.0000	0.0000	OK
360 minute summer	S8	232	131.260	0.260	15.2	0.0000	0.0000	SURCHARGED
360 minute summer	S9	232	131.258	0.294	8.1	0.5195	0.0000	SURCHARGED
360 minute summer	Outfall	8	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SIC-1	PS-1.000	SIC-2	3.6	0.969	0.033	0.1378	
360 minute summer	SIC-2	PS-1.001	SIC-3	4.3	1.186	0.058	0.0646	
360 minute summer	SIC-3	PS-1.002	S1	4.7	1.761	0.029	0.0151	
360 minute summer	S1	SW-1.000	S2	7.0	0.762	0.041	0.2189	
360 minute summer	S2	SW-1.001	S3	11.1	0.666	0.049	0.4477	
360 minute summer	S3	SW-1.002	S4	14.9	0.736	0.065	0.5376	
360 minute summer	SIC-4	PS-2.000	SIC-6	1.9	0.707	0.094	0.0866	
360 minute summer	SIC-5	PS-3.000	SIC-6	1.9	1.107	0.050	0.0310	
360 minute summer	SIC-6	PS-2.001	S4	4.6	1.356	0.043	0.1025	
360 minute summer	S4	SW-1.003	S5	22.5	1.104	0.081	1.0592	
360 minute summer	S5	SW-1.004	S6	22.3	1.201	0.065	0.4886	
360 minute summer	S6	SW-1.005	S7	22.1	1.225	0.065	0.6132	
360 minute summer	S7	Flow through pond	S8	15.2	0.060	0.000	44.2024	
360 minute summer	S8	SW-1.006	S9	8.1	0.387	0.185	0.1989	
360 minute summer	S9	Hydro-Brake®	Outfall	8.1				128.1

Results for 1 year +10% A 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	SIC-1	184	135.898	0.023	2.4	0.0459	0.0000	OK
360 minute winter	SIC-2	184	134.307	0.032	2.9	0.0216	0.0000	OK
360 minute winter	SIC-3	184	133.934	0.023	3.2	0.0109	0.0000	OK
360 minute winter	S1	184	133.268	0.043	4.7	0.1100	0.0000	OK
360 minute winter	S2	184	133.031	0.055	7.4	0.1613	0.0000	OK
360 minute winter	S3	184	132.906	0.064	10.0	0.1751	0.0000	OK
360 minute winter	SIC-4	184	135.725	0.025	1.2	0.0317	0.0000	OK
360 minute winter	SIC-5	184	136.119	0.019	1.2	0.0234	0.0000	OK
360 minute winter	SIC-6	184	135.241	0.026	3.0	0.0144	0.0000	OK
360 minute winter	S4	184	132.781	0.072	15.0	0.1730	0.0000	OK
360 minute winter	S5	184	132.390	0.065	15.0	0.1152	0.0000	OK
360 minute winter	S6	184	132.097	0.064	15.0	0.1133	0.0000	OK
360 minute winter	S7	240	131.227	0.115	15.0	0.0000	0.0000	OK
360 minute winter	S8	240	131.227	0.227	12.2	0.0000	0.0000	SURCHARGED
360 minute winter	S9	240	131.225	0.261	8.1	0.4618	0.0000	SURCHARGED
360 minute winter	Outfall	8	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SIC-1	PS-1.000	SIC-2	2.4	0.864	0.022	0.1034	
360 minute winter	SIC-2	PS-1.001	SIC-3	2.9	1.054	0.038	0.0483	
360 minute winter	SIC-3	PS-1.002	S1	3.2	1.573	0.020	0.0114	
360 minute winter	S1	SW-1.000	S2	4.7	0.677	0.027	0.1651	
360 minute winter	S2	SW-1.001	S3	7.4	0.598	0.032	0.3318	
360 minute winter	S3	SW-1.002	S4	9.9	0.661	0.044	0.4009	
360 minute winter	SIC-4	PS-2.000	SIC-6	1.2	0.621	0.060	0.0632	
360 minute winter	SIC-5	PS-3.000	SIC-6	1.2	0.967	0.032	0.0226	
360 minute winter	SIC-6	PS-2.001	S4	3.0	1.191	0.028	0.0756	
360 minute winter	S4	SW-1.003	S5	15.0	0.987	0.054	0.7925	
360 minute winter	S5	SW-1.004	S6	15.0	1.074	0.044	0.3672	
360 minute winter	S6	SW-1.005	S7	15.0	1.094	0.044	0.4649	
360 minute winter	S7	Flow through pond	S8	12.2	0.036	0.000	36.3400	
360 minute winter	S8	SW-1.006	S9	8.1	0.386	0.183	0.1988	
360 minute winter	S9	Hydro-Brake®	Outfall	8.1				128.1

Results for 1 year +10% A 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	SIC-1	248	135.900	0.025	2.9	0.0503	0.0000	OK
480 minute summer	SIC-2	248	134.311	0.036	3.6	0.0241	0.0000	OK
480 minute summer	SIC-3	248	133.936	0.025	3.9	0.0120	0.0000	OK
480 minute summer	S1	248	133.273	0.048	5.8	0.1220	0.0000	OK
480 minute summer	S2	248	133.037	0.061	9.2	0.1799	0.0000	OK
480 minute summer	S3	248	132.914	0.072	12.4	0.1959	0.0000	OK
480 minute summer	SIC-4	248	135.728	0.028	1.5	0.0354	0.0000	OK
480 minute summer	SIC-5	248	136.121	0.021	1.5	0.0261	0.0000	OK
480 minute summer	SIC-6	248	135.244	0.029	3.7	0.0159	0.0000	OK
480 minute summer	S4	248	132.789	0.080	18.7	0.1928	0.0000	OK
480 minute summer	S5	248	132.398	0.073	18.7	0.1287	0.0000	OK
480 minute summer	S6	248	132.105	0.072	18.7	0.1264	0.0000	OK
480 minute summer	S7	296	131.243	0.131	18.7	0.0000	0.0000	OK
480 minute summer	S8	296	131.243	0.243	13.6	0.0000	0.0000	SURCHARGED
480 minute summer	S9	296	131.241	0.277	8.1	0.4900	0.0000	SURCHARGED
480 minute summer	Outfall	8	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SIC-1	PS-1.000	SIC-2	2.9	0.903	0.027	0.1199	
480 minute summer	SIC-2	PS-1.001	SIC-3	3.6	1.126	0.048	0.0563	
480 minute summer	SIC-3	PS-1.002	S1	3.9	1.668	0.024	0.0131	
480 minute summer	S1	SW-1.000	S2	5.8	0.722	0.034	0.1920	
480 minute summer	S2	SW-1.001	S3	9.2	0.634	0.040	0.3898	
480 minute summer	S3	SW-1.002	S4	12.4	0.702	0.054	0.4699	
480 minute summer	SIC-4	PS-2.000	SIC-6	1.5	0.663	0.075	0.0740	
480 minute summer	SIC-5	PS-3.000	SIC-6	1.5	1.034	0.040	0.0264	
480 minute summer	SIC-6	PS-2.001	S4	3.7	1.268	0.034	0.0875	
480 minute summer	S4	SW-1.003	S5	18.7	1.049	0.067	0.9280	
480 minute summer	S5	SW-1.004	S6	18.7	1.142	0.055	0.4306	
480 minute summer	S6	SW-1.005	S7	18.7	1.169	0.055	0.5440	
480 minute summer	S7	Flow through pond	S8	13.6	0.056	0.000	40.1837	
480 minute summer	S8	SW-1.006	S9	8.1	0.386	0.184	0.1989	
480 minute summer	S9	Hydro-Brake®	Outfall	8.1				142.0

Results for 1 year +10% A 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	SIC-1	248	135.896	0.021	2.0	0.0421	0.0000	OK
480 minute winter	SIC-2	248	134.304	0.029	2.4	0.0198	0.0000	OK
480 minute winter	SIC-3	248	133.932	0.021	2.6	0.0098	0.0000	OK
480 minute winter	S1	248	133.265	0.040	3.9	0.1007	0.0000	OK
480 minute winter	S2	248	133.026	0.050	6.1	0.1474	0.0000	OK
480 minute winter	S3	248	132.900	0.058	8.2	0.1588	0.0000	OK
480 minute winter	SIC-4	248	135.723	0.023	1.0	0.0290	0.0000	OK
480 minute winter	SIC-5	240	136.117	0.017	1.0	0.0215	0.0000	OK
480 minute winter	SIC-6	248	135.239	0.024	2.5	0.0132	0.0000	OK
480 minute winter	S4	248	132.775	0.066	12.4	0.1574	0.0000	OK
480 minute winter	S5	248	132.384	0.059	12.4	0.1050	0.0000	OK
480 minute winter	S6	248	132.092	0.059	12.4	0.1035	0.0000	OK
480 minute winter	S7	304	131.200	0.088	12.4	0.0000	0.0000	OK
480 minute winter	S8	304	131.200	0.200	10.5	0.0000	0.0000	OK
480 minute winter	S9	304	131.199	0.235	8.1	0.4150	0.0000	SURCHARGED
480 minute winter	Outfall	8	130.800	0.000	8.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SIC-1	PS-1.000	SIC-2	2.0	0.821	0.018	0.0910	
480 minute winter	SIC-2	PS-1.001	SIC-3	2.4	1.006	0.032	0.0421	
480 minute winter	SIC-3	PS-1.002	S1	2.6	1.486	0.016	0.0098	
480 minute winter	S1	SW-1.000	S2	3.9	0.642	0.023	0.1452	
480 minute winter	S2	SW-1.001	S3	6.1	0.566	0.027	0.2886	
480 minute winter	S3	SW-1.002	S4	8.2	0.626	0.036	0.3486	
480 minute winter	SIC-4	PS-2.000	SIC-6	1.0	0.589	0.050	0.0555	
480 minute winter	SIC-5	PS-3.000	SIC-6	1.0	0.916	0.027	0.0199	
480 minute winter	SIC-6	PS-2.001	S4	2.5	1.128	0.023	0.0665	
480 minute winter	S4	SW-1.003	S5	12.4	0.933	0.045	0.6908	
480 minute winter	S5	SW-1.004	S6	12.4	1.017	0.036	0.3206	
480 minute winter	S6	SW-1.005	S7	12.4	1.035	0.036	0.4072	
480 minute winter	S7	Flow through pond	S8	10.5	0.051	0.000	30.1309	
480 minute winter	S8	SW-1.006	S9	8.1	0.386	0.184	0.1927	
480 minute winter	S9	Hydro-Brake®	Outfall	8.0				142.6

Results for 1 year +10% A 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	SIC-1	315	135.899	0.024	2.5	0.0468	0.0000	OK
600 minute summer	SIC-2	315	134.308	0.033	3.1	0.0224	0.0000	OK
600 minute summer	SIC-3	315	133.935	0.023	3.4	0.0112	0.0000	OK
600 minute summer	S1	315	133.270	0.045	5.0	0.1135	0.0000	OK
600 minute summer	S2	315	133.032	0.056	7.8	0.1658	0.0000	OK
600 minute summer	S3	315	132.908	0.066	10.5	0.1800	0.0000	OK
600 minute summer	SIC-4	315	135.726	0.026	1.3	0.0330	0.0000	OK
600 minute summer	SIC-5	315	136.119	0.019	1.3	0.0243	0.0000	OK
600 minute summer	SIC-6	315	135.242	0.027	3.2	0.0148	0.0000	OK
600 minute summer	S4	315	132.783	0.074	15.8	0.1773	0.0000	OK
600 minute summer	S5	315	132.392	0.067	15.8	0.1183	0.0000	OK
600 minute summer	S6	315	132.099	0.066	15.8	0.1163	0.0000	OK
600 minute summer	S7	360	131.227	0.114	15.8	0.0000	0.0000	OK
600 minute summer	S8	360	131.226	0.226	12.0	0.0000	0.0000	SURCHARGED
600 minute summer	S9	360	131.225	0.261	8.1	0.4607	0.0000	SURCHARGED
600 minute summer	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SIC-1	PS-1.000	SIC-2	2.5	0.866	0.023	0.1078	
600 minute summer	SIC-2	PS-1.001	SIC-3	3.1	1.077	0.041	0.0507	
600 minute summer	SIC-3	PS-1.002	S1	3.4	1.602	0.021	0.0119	
600 minute summer	S1	SW-1.000	S2	5.0	0.691	0.029	0.1730	
600 minute summer	S2	SW-1.001	S3	7.8	0.607	0.034	0.3454	
600 minute summer	S3	SW-1.002	S4	10.5	0.672	0.046	0.4163	
600 minute summer	SIC-4	PS-2.000	SIC-6	1.3	0.636	0.065	0.0669	
600 minute summer	SIC-5	PS-3.000	SIC-6	1.3	0.991	0.034	0.0239	
600 minute summer	SIC-6	PS-2.001	S4	3.2	1.214	0.030	0.0791	
600 minute summer	S4	SW-1.003	S5	15.8	1.001	0.057	0.8221	
600 minute summer	S5	SW-1.004	S6	15.8	1.090	0.046	0.3814	
600 minute summer	S6	SW-1.005	S7	15.8	1.112	0.046	0.4830	
600 minute summer	S7	Flow through pond	S8	12.0	0.022	0.000	36.1817	
600 minute summer	S8	SW-1.006	S9	8.1	0.385	0.183	0.1988	
600 minute summer	S9	Hydro-Brake®	Outfall	8.1				153.5

Results for 1 year +10% A 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	SIC-1	315	135.895	0.020	1.7	0.0391	0.0000	OK
600 minute winter	SIC-2	315	134.303	0.028	2.1	0.0185	0.0000	OK
600 minute winter	SIC-3	315	133.930	0.019	2.3	0.0093	0.0000	OK
600 minute winter	S1	315	133.262	0.037	3.4	0.0942	0.0000	OK
600 minute winter	S2	315	133.023	0.047	5.3	0.1378	0.0000	OK
600 minute winter	S3	315	132.896	0.054	7.1	0.1478	0.0000	OK
600 minute winter	SIC-4	315	135.722	0.022	0.9	0.0275	0.0000	OK
600 minute winter	SIC-5	315	136.116	0.016	0.9	0.0204	0.0000	OK
600 minute winter	SIC-6	315	135.237	0.022	2.2	0.0124	0.0000	OK
600 minute winter	S4	315	132.770	0.061	10.8	0.1473	0.0000	OK
600 minute winter	S5	315	132.381	0.056	10.8	0.0981	0.0000	OK
600 minute winter	S6	315	132.088	0.055	10.8	0.0968	0.0000	OK
600 minute winter	S7	375	131.173	0.061	10.8	0.0000	0.0000	OK
600 minute winter	S8	375	131.173	0.173	9.9	0.0000	0.0000	OK
600 minute winter	S9	375	131.173	0.209	9.1	0.3684	0.0000	SURCHARGED
600 minute winter	Outfall	15	130.800	0.000	7.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SIC-1	PS-1.000	SIC-2	1.7	0.773	0.016	0.0821	
600 minute winter	SIC-2	PS-1.001	SIC-3	2.1	0.964	0.028	0.0384	
600 minute winter	SIC-3	PS-1.002	S1	2.3	1.433	0.014	0.0090	
600 minute winter	S1	SW-1.000	S2	3.4	0.617	0.020	0.1318	
600 minute winter	S2	SW-1.001	S3	5.3	0.547	0.023	0.2607	
600 minute winter	S3	SW-1.002	S4	7.1	0.600	0.031	0.3152	
600 minute winter	SIC-4	PS-2.000	SIC-6	0.9	0.571	0.045	0.0516	
600 minute winter	SIC-5	PS-3.000	SIC-6	0.9	0.887	0.024	0.0185	
600 minute winter	SIC-6	PS-2.001	S4	2.2	1.085	0.020	0.0608	
600 minute winter	S4	SW-1.003	S5	10.8	0.898	0.039	0.6266	
600 minute winter	S5	SW-1.004	S6	10.8	0.977	0.032	0.2909	
600 minute winter	S6	SW-1.005	S7	10.8	0.993	0.032	0.3699	
600 minute winter	S7	Flow through pond	S8	9.9	0.030	0.000	24.1606	
600 minute winter	S8	SW-1.006	S9	9.1	0.386	0.207	0.1782	
600 minute winter	S9	Hydro-Brake®	Outfall	7.9				153.9

Results for 1 year +10% A 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	SIC-1	375	135.897	0.022	2.2	0.0441	0.0000	OK
720 minute summer	SIC-2	375	134.306	0.031	2.7	0.0209	0.0000	OK
720 minute summer	SIC-3	375	133.933	0.022	3.0	0.0105	0.0000	OK
720 minute summer	S1	375	133.267	0.042	4.4	0.1069	0.0000	OK
720 minute summer	S2	375	133.030	0.053	7.0	0.1573	0.0000	OK
720 minute summer	S3	375	132.904	0.062	9.4	0.1700	0.0000	OK
720 minute summer	SIC-4	375	135.725	0.025	1.2	0.0317	0.0000	OK
720 minute summer	SIC-5	375	136.119	0.019	1.2	0.0234	0.0000	OK
720 minute summer	SIC-6	375	135.241	0.026	3.0	0.0144	0.0000	OK
720 minute summer	S4	375	132.779	0.070	14.3	0.1688	0.0000	OK
720 minute summer	S5	375	132.389	0.064	14.3	0.1125	0.0000	OK
720 minute summer	S6	375	132.096	0.063	14.3	0.1108	0.0000	OK
720 minute summer	S7	420	131.212	0.100	14.3	0.0000	0.0000	OK
720 minute summer	S8	420	131.212	0.212	11.4	0.0000	0.0000	OK
720 minute summer	S9	420	131.210	0.246	8.0	0.4351	0.0000	SURCHARGED
720 minute summer	Outfall	15	130.800	0.000	8.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SIC-1	PS-1.000	SIC-2	2.2	0.838	0.020	0.0980	
720 minute summer	SIC-2	PS-1.001	SIC-3	2.7	1.033	0.036	0.0460	
720 minute summer	SIC-3	PS-1.002	S1	3.0	1.546	0.019	0.0109	
720 minute summer	S1	SW-1.000	S2	4.4	0.666	0.026	0.1580	
720 minute summer	S2	SW-1.001	S3	7.0	0.590	0.031	0.3186	
720 minute summer	S3	SW-1.002	S4	9.4	0.649	0.041	0.3853	
720 minute summer	SIC-4	PS-2.000	SIC-6	1.2	0.621	0.060	0.0632	
720 minute summer	SIC-5	PS-3.000	SIC-6	1.2	0.967	0.032	0.0226	
720 minute summer	SIC-6	PS-2.001	S4	3.0	1.191	0.028	0.0756	
720 minute summer	S4	SW-1.003	S5	14.3	0.973	0.052	0.7650	
720 minute summer	S5	SW-1.004	S6	14.3	1.059	0.042	0.3551	
720 minute summer	S6	SW-1.005	S7	14.3	1.080	0.042	0.4503	
720 minute summer	S7	Flow through pond	S8	11.4	0.021	0.000	32.7872	
720 minute summer	S8	SW-1.006	S9	8.0	0.386	0.182	0.1964	
720 minute summer	S9	Hydro-Brake®	Outfall	8.0				163.9

Results for 1 year +10% A 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	SIC-1	375	135.894	0.019	1.5	0.0368	0.0000	OK
720 minute winter	SIC-2	375	134.301	0.026	1.8	0.0172	0.0000	OK
720 minute winter	SIC-3	375	133.929	0.018	2.0	0.0087	0.0000	OK
720 minute winter	S1	375	133.260	0.035	3.0	0.0888	0.0000	OK
720 minute winter	S2	375	133.020	0.044	4.7	0.1301	0.0000	OK
720 minute winter	S3	375	132.893	0.051	6.3	0.1393	0.0000	OK
720 minute winter	SIC-4	375	135.721	0.021	0.8	0.0260	0.0000	OK
720 minute winter	SIC-5	375	136.115	0.015	0.8	0.0193	0.0000	OK
720 minute winter	SIC-6	375	135.236	0.021	2.0	0.0119	0.0000	OK
720 minute winter	S4	375	132.767	0.058	9.6	0.1392	0.0000	OK
720 minute winter	S5	375	132.377	0.052	9.6	0.0927	0.0000	OK
720 minute winter	S6	375	132.085	0.052	9.6	0.0915	0.0000	OK
720 minute winter	S7	420	131.151	0.039	9.6	0.0000	0.0000	OK
720 minute winter	S8	420	131.151	0.151	9.1	0.0000	0.0000	OK
720 minute winter	S9	420	131.151	0.187	8.9	0.3300	0.0000	SURCHARGED
720 minute winter	Outfall	15	130.800	0.000	7.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SIC-1	PS-1.000	SIC-2	1.5	0.753	0.014	0.0743	
720 minute winter	SIC-2	PS-1.001	SIC-3	1.8	0.918	0.024	0.0345	
720 minute winter	SIC-3	PS-1.002	S1	2.0	1.372	0.012	0.0082	
720 minute winter	S1	SW-1.000	S2	3.0	0.595	0.018	0.1206	
720 minute winter	S2	SW-1.001	S3	4.7	0.528	0.021	0.2391	
720 minute winter	S3	SW-1.002	S4	6.3	0.580	0.028	0.2892	
720 minute winter	SIC-4	PS-2.000	SIC-6	0.8	0.551	0.040	0.0475	
720 minute winter	SIC-5	PS-3.000	SIC-6	0.8	0.856	0.021	0.0170	
720 minute winter	SIC-6	PS-2.001	S4	2.0	1.055	0.018	0.0569	
720 minute winter	S4	SW-1.003	S5	9.6	0.866	0.035	0.5762	
720 minute winter	S5	SW-1.004	S6	9.6	0.944	0.028	0.2676	
720 minute winter	S6	SW-1.005	S7	9.6	0.958	0.028	0.3406	
720 minute winter	S7	Flow through pond	S8	9.1	0.031	0.000	19.4215	
720 minute winter	S8	SW-1.006	S9	8.9	0.436	0.202	0.1591	
720 minute winter	S9	Hydro-Brake®	Outfall	7.7				164.0

Results for 1 year +10% A 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	SIC-1	495	135.896	0.021	1.9	0.0411	0.0000	OK
960 minute summer	SIC-2	495	134.304	0.029	2.3	0.0194	0.0000	OK
960 minute summer	SIC-3	495	133.931	0.020	2.5	0.0096	0.0000	OK
960 minute summer	S1	495	133.264	0.039	3.7	0.0982	0.0000	OK
960 minute summer	S2	495	133.025	0.049	5.9	0.1452	0.0000	OK
960 minute summer	S3	495	132.899	0.057	7.9	0.1559	0.0000	OK
960 minute summer	SIC-4	495	135.723	0.023	1.0	0.0290	0.0000	OK
960 minute summer	SIC-5	495	136.117	0.017	1.0	0.0215	0.0000	OK
960 minute summer	SIC-6	495	135.239	0.024	2.5	0.0132	0.0000	OK
960 minute summer	S4	495	132.774	0.065	12.0	0.1550	0.0000	OK
960 minute summer	S5	495	132.384	0.058	12.0	0.1033	0.0000	OK
960 minute summer	S6	495	132.091	0.058	12.0	0.1018	0.0000	OK
960 minute summer	S7	540	131.181	0.069	12.0	0.0000	0.0000	OK
960 minute summer	S8	540	131.181	0.181	10.3	0.0000	0.0000	OK
960 minute summer	S9	540	131.180	0.216	7.9	0.3818	0.0000	SURCHARGED
960 minute summer	Outfall	15	130.800	0.000	7.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SIC-1	PS-1.000	SIC-2	1.9	0.807	0.017	0.0881	
960 minute summer	SIC-2	PS-1.001	SIC-3	2.3	0.992	0.031	0.0409	
960 minute summer	SIC-3	PS-1.002	S1	2.5	1.471	0.015	0.0095	
960 minute summer	S1	SW-1.000	S2	3.7	0.632	0.022	0.1399	
960 minute summer	S2	SW-1.001	S3	5.9	0.562	0.026	0.2814	
960 minute summer	S3	SW-1.002	S4	7.9	0.619	0.035	0.3400	
960 minute summer	SIC-4	PS-2.000	SIC-6	1.0	0.589	0.050	0.0555	
960 minute summer	SIC-5	PS-3.000	SIC-6	1.0	0.916	0.027	0.0199	
960 minute summer	SIC-6	PS-2.001	S4	2.5	1.128	0.023	0.0665	
960 minute summer	S4	SW-1.003	S5	12.0	0.925	0.043	0.6751	
960 minute summer	S5	SW-1.004	S6	12.0	1.007	0.035	0.3133	
960 minute summer	S6	SW-1.005	S7	12.0	1.025	0.035	0.3981	
960 minute summer	S7	Flow through pond	S8	10.3	0.021	0.000	25.8501	
960 minute summer	S8	SW-1.006	S9	7.9	0.385	0.180	0.1836	
960 minute summer	S9	Hydro-Brake®	Outfall	7.9				180.5

Results for 1 year +10% A 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	SIC-1	465	135.892	0.017	1.2	0.0332	0.0000	OK
960 minute winter	SIC-2	465	134.299	0.024	1.5	0.0159	0.0000	OK
960 minute winter	SIC-3	465	133.927	0.016	1.6	0.0078	0.0000	OK
960 minute winter	S1	465	133.256	0.031	2.4	0.0798	0.0000	OK
960 minute winter	S2	480	133.016	0.040	3.8	0.1179	0.0000	OK
960 minute winter	S3	495	132.889	0.047	5.2	0.1270	0.0000	OK
960 minute winter	SIC-4	450	135.718	0.018	0.6	0.0227	0.0000	OK
960 minute winter	SIC-5	450	136.113	0.013	0.6	0.0168	0.0000	OK
960 minute winter	SIC-6	450	135.234	0.019	1.5	0.0104	0.0000	OK
960 minute winter	S4	495	132.762	0.053	7.8	0.1261	0.0000	OK
960 minute winter	S5	495	132.372	0.047	7.8	0.0838	0.0000	OK
960 minute winter	S6	495	132.080	0.047	7.8	0.0829	0.0000	OK
960 minute winter	S7	495	131.121	0.009	7.8	0.0000	0.0000	OK
960 minute winter	S8	540	131.116	0.116	7.8	0.0000	0.0000	OK
960 minute winter	S9	540	131.117	0.153	7.4	0.2702	0.0000	SURCHARGED
960 minute winter	Outfall	15	130.800	0.000	7.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SIC-1	PS-1.000	SIC-2	1.2	0.692	0.011	0.0650	
960 minute winter	SIC-2	PS-1.001	SIC-3	1.5	0.881	0.020	0.0302	
960 minute winter	SIC-3	PS-1.002	S1	1.6	1.283	0.010	0.0070	
960 minute winter	S1	SW-1.000	S2	2.4	0.556	0.014	0.1032	
960 minute winter	S2	SW-1.001	S3	3.8	0.495	0.017	0.2075	
960 minute winter	S3	SW-1.002	S4	5.2	0.552	0.023	0.2515	
960 minute winter	SIC-4	PS-2.000	SIC-6	0.6	0.505	0.030	0.0388	
960 minute winter	SIC-5	PS-3.000	SIC-6	0.6	0.787	0.016	0.0139	
960 minute winter	SIC-6	PS-2.001	S4	1.5	0.967	0.014	0.0465	
960 minute winter	S4	SW-1.003	S5	7.8	0.817	0.028	0.4980	
960 minute winter	S5	SW-1.004	S6	7.8	0.888	0.023	0.2309	
960 minute winter	S6	SW-1.005	S7	7.8	0.901	0.023	0.2945	
960 minute winter	S7	Flow through pond	S8	7.8	0.021	0.000	12.5963	
960 minute winter	S8	SW-1.006	S9	7.4	0.430	0.169	0.1236	
960 minute winter	S9	Hydro-Brake®	Outfall	7.4				180.7

Results for 1 year +10% A 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	SIC-1	750	135.893	0.018	1.4	0.0357	0.0000	OK
1440 minute summer	SIC-2	750	134.300	0.025	1.7	0.0168	0.0000	OK
1440 minute summer	SIC-3	750	133.929	0.018	1.9	0.0084	0.0000	OK
1440 minute summer	S1	750	133.259	0.034	2.8	0.0859	0.0000	OK
1440 minute summer	S2	750	133.019	0.043	4.4	0.1261	0.0000	OK
1440 minute summer	S3	750	132.892	0.049	5.9	0.1351	0.0000	OK
1440 minute summer	SIC-4	750	135.719	0.019	0.7	0.0244	0.0000	OK
1440 minute summer	SIC-5	750	136.114	0.014	0.7	0.0181	0.0000	OK
1440 minute summer	SIC-6	750	135.235	0.020	1.8	0.0113	0.0000	OK
1440 minute summer	S4	750	132.765	0.056	8.9	0.1342	0.0000	OK
1440 minute summer	S5	750	132.376	0.051	8.9	0.0894	0.0000	OK
1440 minute summer	S6	750	132.083	0.050	8.9	0.0884	0.0000	OK
1440 minute summer	S7	780	131.135	0.023	8.9	0.0000	0.0000	OK
1440 minute summer	S8	780	131.134	0.134	8.7	0.0000	0.0000	OK
1440 minute summer	S9	780	131.140	0.176	11.2	0.3114	0.0000	SURCHARGED
1440 minute summer	Outfall	30	130.800	0.000	7.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SIC-1	PS-1.000	SIC-2	1.4	0.734	0.013	0.0711	
1440 minute summer	SIC-2	PS-1.001	SIC-3	1.7	0.901	0.023	0.0332	
1440 minute summer	SIC-3	PS-1.002	S1	1.9	1.351	0.012	0.0079	
1440 minute summer	S1	SW-1.000	S2	2.8	0.583	0.016	0.1147	
1440 minute summer	S2	SW-1.001	S3	4.4	0.517	0.019	0.2282	
1440 minute summer	S3	SW-1.002	S4	5.9	0.571	0.026	0.2751	
1440 minute summer	SIC-4	PS-2.000	SIC-6	0.7	0.530	0.035	0.0432	
1440 minute summer	SIC-5	PS-3.000	SIC-6	0.7	0.823	0.019	0.0155	
1440 minute summer	SIC-6	PS-2.001	S4	1.8	1.024	0.017	0.0527	
1440 minute summer	S4	SW-1.003	S5	8.9	0.847	0.032	0.5463	
1440 minute summer	S5	SW-1.004	S6	8.9	0.923	0.026	0.2535	
1440 minute summer	S6	SW-1.005	S7	8.9	0.937	0.026	0.3229	
1440 minute summer	S7	Flow through pond	S8	8.7	0.023	0.000	15.8780	
1440 minute summer	S8	SW-1.006	S9	11.2	0.417	0.255	0.1452	
1440 minute summer	S9	Hydro-Brake®	Outfall	7.7				206.7

Results for 1 year +10% A 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SIC-1	750	135.890	0.015	1.0	0.0306	0.0000	OK
1440 minute winter	SIC-2	750	134.296	0.021	1.2	0.0142	0.0000	OK
1440 minute winter	SIC-3	750	133.926	0.015	1.3	0.0071	0.0000	OK
1440 minute winter	S1	750	133.253	0.028	1.9	0.0715	0.0000	OK
1440 minute winter	S2	750	133.012	0.036	3.0	0.1054	0.0000	OK
1440 minute winter	S3	750	132.883	0.041	4.0	0.1120	0.0000	OK
1440 minute winter	SIC-4	720	135.717	0.017	0.5	0.0208	0.0000	OK
1440 minute winter	SIC-5	720	136.112	0.012	0.5	0.0154	0.0000	OK
1440 minute winter	SIC-6	720	135.232	0.017	1.2	0.0093	0.0000	OK
1440 minute winter	S4	750	132.755	0.046	6.0	0.1112	0.0000	OK
1440 minute winter	S5	750	132.367	0.042	6.0	0.0738	0.0000	OK
1440 minute winter	S6	750	132.074	0.041	6.0	0.0731	0.0000	OK
1440 minute winter	S7	750	131.120	0.008	6.0	0.0000	0.0000	OK
1440 minute winter	S8	780	131.083	0.083	6.0	0.0000	0.0000	OK
1440 minute winter	S9	720	131.087	0.123	7.8	0.2167	0.0000	OK
1440 minute winter	Outfall	30	130.800	0.000	6.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SIC-1	PS-1.000	SIC-2	1.0	0.665	0.009	0.0560	
1440 minute winter	SIC-2	PS-1.001	SIC-3	1.2	0.818	0.016	0.0258	
1440 minute winter	SIC-3	PS-1.002	S1	1.3	1.207	0.008	0.0060	
1440 minute winter	S1	SW-1.000	S2	1.9	0.517	0.011	0.0878	
1440 minute winter	S2	SW-1.001	S3	3.0	0.464	0.013	0.1740	
1440 minute winter	S3	SW-1.002	S4	4.0	0.510	0.018	0.2087	
1440 minute winter	SIC-4	PS-2.000	SIC-6	0.5	0.479	0.025	0.0342	
1440 minute winter	SIC-5	PS-3.000	SIC-6	0.5	0.743	0.013	0.0122	
1440 minute winter	SIC-6	PS-2.001	S4	1.2	0.902	0.011	0.0399	
1440 minute winter	S4	SW-1.003	S5	6.0	0.755	0.022	0.4133	
1440 minute winter	S5	SW-1.004	S6	6.0	0.824	0.018	0.1916	
1440 minute winter	S6	SW-1.005	S7	6.0	0.834	0.018	0.2447	
1440 minute winter	S7	Flow through pond	S8	6.0	0.018	0.000	8.8574	
1440 minute winter	S8	SW-1.006	S9	7.8	0.447	0.177	0.0879	
1440 minute winter	S9	Hydro-Brake®	Outfall	6.1				208.0

Results for 30 year +10% A 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SIC-1	10	135.958	0.083	32.1	0.1649	0.0000	OK
15 minute summer	SIC-2	10	134.402	0.127	39.3	0.0856	0.0000	OK
15 minute summer	SIC-3	10	134.003	0.092	42.5	0.0439	0.0000	OK
15 minute summer	S1	10	133.392	0.167	62.9	0.4253	0.0000	OK
15 minute summer	S2	11	133.206	0.230	98.8	0.6755	0.0000	OK
15 minute summer	S3	11	133.121	0.279	131.9	0.7606	0.0000	OK
15 minute summer	SIC-4	10	135.807	0.107	16.6	0.1346	0.0000	OK
15 minute summer	SIC-5	10	136.173	0.073	16.6	0.0915	0.0000	OK
15 minute summer	SIC-6	10	135.314	0.099	40.7	0.0547	0.0000	OK
15 minute summer	S4	11	133.008	0.299	199.3	0.7172	0.0000	OK
15 minute summer	S5	11	132.600	0.275	200.4	0.4855	0.0000	OK
15 minute summer	S6	11	132.288	0.254	199.7	0.4497	0.0000	OK
15 minute summer	S7	24	131.394	0.281	198.7	0.0000	0.0000	OK
15 minute summer	S8	23	131.394	0.394	152.3	0.0000	0.0000	SURCHARGED
15 minute summer	S9	23	131.393	0.429	12.9	0.7588	0.0000	SURCHARGED
15 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SIC-1	PS-1.000	SIC-2	31.9	1.756	0.294	0.6733	
15 minute summer	SIC-2	PS-1.001	SIC-3	38.8	2.028	0.516	0.3343	
15 minute summer	SIC-3	PS-1.002	S1	42.3	3.085	0.261	0.0769	
15 minute summer	S1	SW-1.000	S2	62.3	1.387	0.365	1.0749	
15 minute summer	S2	SW-1.001	S3	98.6	1.069	0.433	2.4706	
15 minute summer	S3	SW-1.002	S4	132.5	1.234	0.581	2.8572	
15 minute summer	SIC-4	PS-2.000	SIC-6	16.1	1.237	0.811	0.4282	
15 minute summer	SIC-5	PS-3.000	SIC-6	16.5	2.006	0.437	0.1493	
15 minute summer	SIC-6	PS-2.001	S4	40.3	2.477	0.372	0.4885	
15 minute summer	S4	SW-1.003	S5	200.4	1.880	0.722	5.5415	
15 minute summer	S5	SW-1.004	S6	199.7	2.061	0.586	2.5484	
15 minute summer	S6	SW-1.005	S7	198.7	2.225	0.583	3.0370	
15 minute summer	S7	Flow through pond	S8	152.3	0.229	0.004	79.0258	
15 minute summer	S8	SW-1.006	S9	12.9	0.734	0.292	0.1989	
15 minute summer	S9	Hydro-Brake®	Outfall	8.1				87.3

Results for 30 year +10% A 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SIC-1	10	135.955	0.080	30.1	0.1592	0.0000	OK
15 minute winter	SIC-2	10	134.397	0.122	36.7	0.0820	0.0000	OK
15 minute winter	SIC-3	10	133.999	0.088	39.7	0.0421	0.0000	OK
15 minute winter	S1	10	133.385	0.160	58.9	0.4082	0.0000	OK
15 minute winter	S2	10	133.195	0.219	92.3	0.6432	0.0000	OK
15 minute winter	S3	11	133.107	0.265	123.2	0.7237	0.0000	OK
15 minute winter	SIC-4	10	135.802	0.102	15.6	0.1278	0.0000	OK
15 minute winter	SIC-5	10	136.170	0.070	15.6	0.0880	0.0000	OK
15 minute winter	SIC-6	10	135.310	0.095	38.1	0.0526	0.0000	OK
15 minute winter	S4	11	132.994	0.285	185.9	0.6840	0.0000	OK
15 minute winter	S5	11	132.588	0.262	187.4	0.4638	0.0000	OK
15 minute winter	S6	11	132.277	0.243	186.6	0.4303	0.0000	OK
15 minute winter	S7	21	131.394	0.282	185.5	0.0000	0.0000	OK
15 minute winter	S8	22	131.394	0.394	146.5	0.0000	0.0000	SURCHARGED
15 minute winter	S9	22	131.393	0.428	11.9	0.7572	0.0000	SURCHARGED
15 minute winter	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SIC-1	PS-1.000	SIC-2	29.8	1.731	0.275	0.6396	
15 minute winter	SIC-2	PS-1.001	SIC-3	36.2	1.999	0.481	0.3164	
15 minute winter	SIC-3	PS-1.002	S1	39.5	3.037	0.244	0.0728	
15 minute winter	S1	SW-1.000	S2	58.4	1.367	0.342	1.0203	
15 minute winter	S2	SW-1.001	S3	91.9	1.059	0.403	2.3240	
15 minute winter	S3	SW-1.002	S4	123.9	1.220	0.543	2.6993	
15 minute winter	SIC-4	PS-2.000	SIC-6	15.1	1.222	0.757	0.4051	
15 minute winter	SIC-5	PS-3.000	SIC-6	15.4	1.974	0.409	0.1422	
15 minute winter	SIC-6	PS-2.001	S4	37.6	2.434	0.347	0.4643	
15 minute winter	S4	SW-1.003	S5	187.4	1.857	0.676	5.2465	
15 minute winter	S5	SW-1.004	S6	186.6	2.034	0.547	2.4128	
15 minute winter	S6	SW-1.005	S7	185.5	2.191	0.544	2.8784	
15 minute winter	S7	Flow through pond	S8	146.5	0.241	0.004	79.1204	
15 minute winter	S8	SW-1.006	S9	11.9	0.769	0.271	0.1989	
15 minute winter	S9	Hydro-Brake®	Outfall	8.1				87.4

Results for 30 year +10% A 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	SIC-1	18	135.956	0.081	30.1	0.1599	0.0000	OK
30 minute summer	SIC-2	18	134.398	0.123	37.0	0.0828	0.0000	OK
30 minute summer	SIC-3	18	134.000	0.089	40.5	0.0427	0.0000	OK
30 minute summer	S1	18	133.388	0.163	59.8	0.4143	0.0000	OK
30 minute summer	S2	18	133.199	0.223	94.3	0.6556	0.0000	OK
30 minute summer	S3	18	133.111	0.269	126.5	0.7336	0.0000	OK
30 minute summer	SIC-4	18	135.803	0.103	15.5	0.1296	0.0000	OK
30 minute summer	SIC-5	18	136.170	0.070	15.5	0.0881	0.0000	OK
30 minute summer	SIC-6	18	135.311	0.096	38.5	0.0532	0.0000	OK
30 minute summer	S4	18	132.997	0.288	190.2	0.6906	0.0000	OK
30 minute summer	S5	19	132.589	0.264	188.4	0.4671	0.0000	OK
30 minute summer	S6	19	132.281	0.247	189.8	0.4373	0.0000	OK
30 minute summer	S7	36	131.483	0.371	190.3	0.0000	0.0000	OK
30 minute summer	S8	37	131.483	0.483	108.1	0.0000	0.0000	SURCHARGED
30 minute summer	S9	37	131.482	0.518	9.4	0.9153	0.0000	SURCHARGED
30 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SIC-1	PS-1.000	SIC-2	30.1	1.733	0.277	0.6463	
30 minute summer	SIC-2	PS-1.001	SIC-3	37.0	2.011	0.491	0.3214	
30 minute summer	SIC-3	PS-1.002	S1	40.5	3.057	0.250	0.0742	
30 minute summer	S1	SW-1.000	S2	59.8	1.371	0.350	1.0421	
30 minute summer	S2	SW-1.001	S3	94.0	1.062	0.412	2.3716	
30 minute summer	S3	SW-1.002	S4	125.4	1.223	0.550	2.7365	
30 minute summer	SIC-4	PS-2.000	SIC-6	15.4	1.226	0.776	0.4122	
30 minute summer	SIC-5	PS-3.000	SIC-6	15.5	1.979	0.411	0.1426	
30 minute summer	SIC-6	PS-2.001	S4	38.5	2.449	0.356	0.4718	
30 minute summer	S4	SW-1.003	S5	188.4	1.859	0.679	5.2722	
30 minute summer	S5	SW-1.004	S6	189.8	2.040	0.557	2.4472	
30 minute summer	S6	SW-1.005	S7	190.3	2.197	0.558	2.9453	
30 minute summer	S7	Flow through pond	S8	108.1	0.171	0.003	105.7387	
30 minute summer	S8	SW-1.006	S9	9.4	0.604	0.213	0.1989	
30 minute summer	S9	Hydro-Brake®	Outfall	8.1				117.6

Results for 30 year +10% A 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	SIC-1	18	135.947	0.072	24.3	0.1429	0.0000	OK
30 minute winter	SIC-2	18	134.383	0.108	29.9	0.0728	0.0000	OK
30 minute winter	SIC-3	18	133.989	0.078	32.7	0.0375	0.0000	OK
30 minute winter	S1	18	133.369	0.144	48.3	0.3664	0.0000	OK
30 minute winter	S2	18	133.170	0.194	76.2	0.5703	0.0000	OK
30 minute winter	S3	18	133.075	0.233	102.2	0.6353	0.0000	OK
30 minute winter	SIC-4	18	135.789	0.089	12.6	0.1122	0.0000	OK
30 minute winter	SIC-5	18	136.162	0.062	12.6	0.0781	0.0000	OK
30 minute winter	SIC-6	18	135.300	0.085	31.3	0.0473	0.0000	OK
30 minute winter	S4	18	132.959	0.250	154.2	0.6009	0.0000	OK
30 minute winter	S5	19	132.556	0.231	153.3	0.4081	0.0000	OK
30 minute winter	S6	19	132.251	0.218	154.1	0.3844	0.0000	OK
30 minute winter	S7	37	131.484	0.372	154.2	0.0000	0.0000	OK
30 minute winter	S8	36	131.485	0.485	84.8	0.0000	0.0000	SURCHARGED
30 minute winter	S9	36	131.483	0.519	9.6	0.9177	0.0000	SURCHARGED
30 minute winter	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SIC-1	PS-1.000	SIC-2	24.3	1.642	0.224	0.5509	
30 minute winter	SIC-2	PS-1.001	SIC-3	29.9	1.925	0.397	0.2717	
30 minute winter	SIC-3	PS-1.002	S1	32.7	2.914	0.202	0.0629	
30 minute winter	S1	SW-1.000	S2	48.3	1.299	0.283	0.8881	
30 minute winter	S2	SW-1.001	S3	76.0	1.028	0.334	1.9832	
30 minute winter	S3	SW-1.002	S4	101.7	1.177	0.446	2.3048	
30 minute winter	SIC-4	PS-2.000	SIC-6	12.6	1.177	0.632	0.3496	
30 minute winter	SIC-5	PS-3.000	SIC-6	12.6	1.879	0.334	0.1221	
30 minute winter	SIC-6	PS-2.001	S4	31.3	2.322	0.289	0.4040	
30 minute winter	S4	SW-1.003	S5	153.3	1.784	0.552	4.4696	
30 minute winter	S5	SW-1.004	S6	154.1	1.953	0.452	2.0749	
30 minute winter	S6	SW-1.005	S7	154.2	2.089	0.452	2.5092	
30 minute winter	S7	Flow through pond	S8	84.8	0.176	0.002	106.0738	
30 minute winter	S8	SW-1.006	S9	9.6	0.580	0.218	0.1989	
30 minute winter	S9	Hydro-Brake®	Outfall	8.1				117.8

Results for 30 year +10% A 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	SIC-1	33	135.946	0.071	23.5	0.1404	0.0000	OK
60 minute summer	SIC-2	33	134.381	0.106	28.9	0.0714	0.0000	OK
60 minute summer	SIC-3	33	133.988	0.077	31.6	0.0367	0.0000	OK
60 minute summer	S1	33	133.366	0.141	46.7	0.3595	0.0000	OK
60 minute summer	S2	33	133.166	0.190	73.7	0.5584	0.0000	OK
60 minute summer	S3	33	133.070	0.228	98.9	0.6220	0.0000	OK
60 minute summer	SIC-4	33	135.787	0.087	12.2	0.1098	0.0000	OK
60 minute summer	SIC-5	33	136.161	0.061	12.2	0.0767	0.0000	OK
60 minute summer	SIC-6	33	135.299	0.084	30.3	0.0464	0.0000	OK
60 minute summer	S4	33	132.954	0.245	149.3	0.5889	0.0000	OK
60 minute summer	S5	34	132.551	0.226	148.5	0.3999	0.0000	OK
60 minute summer	S6	34	132.247	0.213	149.2	0.3772	0.0000	OK
60 minute summer	S7	65	131.565	0.453	149.3	0.0000	0.0000	OK
60 minute summer	S8	66	131.565	0.565	80.7	0.0000	0.0000	SURCHARGED
60 minute summer	S9	66	131.563	0.599	9.1	1.0591	0.0000	SURCHARGED
60 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SIC-1	PS-1.000	SIC-2	23.5	1.629	0.216	0.5372	
60 minute summer	SIC-2	PS-1.001	SIC-3	28.9	1.911	0.384	0.2646	
60 minute summer	SIC-3	PS-1.002	S1	31.6	2.891	0.195	0.0613	
60 minute summer	S1	SW-1.000	S2	46.7	1.288	0.274	0.8660	
60 minute summer	S2	SW-1.001	S3	73.5	1.022	0.323	1.9297	
60 minute summer	S3	SW-1.002	S4	98.5	1.169	0.432	2.2460	
60 minute summer	SIC-4	PS-2.000	SIC-6	12.2	1.168	0.612	0.3409	
60 minute summer	SIC-5	PS-3.000	SIC-6	12.2	1.863	0.324	0.1192	
60 minute summer	SIC-6	PS-2.001	S4	30.3	2.302	0.279	0.3944	
60 minute summer	S4	SW-1.003	S5	148.5	1.772	0.535	4.3599	
60 minute summer	S5	SW-1.004	S6	149.2	1.940	0.438	2.0234	
60 minute summer	S6	SW-1.005	S7	149.3	2.073	0.438	2.4497	
60 minute summer	S7	Flow through pond	S8	80.7	0.143	0.002	131.8996	
60 minute summer	S8	SW-1.006	S9	9.1	0.526	0.206	0.1989	
60 minute summer	S9	Hydro-Brake®	Outfall	8.1				134.4

Results for 30 year +10% A 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	SIC-1	33	135.935	0.060	17.0	0.1190	0.0000	OK
60 minute winter	SIC-2	33	134.363	0.088	20.9	0.0594	0.0000	OK
60 minute winter	SIC-3	33	133.975	0.064	22.9	0.0305	0.0000	OK
60 minute winter	S1	33	133.343	0.118	33.8	0.3007	0.0000	OK
60 minute winter	S2	33	133.132	0.156	53.3	0.4594	0.0000	OK
60 minute winter	S3	33	133.029	0.186	71.6	0.5091	0.0000	OK
60 minute winter	SIC-4	33	135.771	0.071	8.8	0.0899	0.0000	OK
60 minute winter	SIC-5	33	136.151	0.051	8.8	0.0640	0.0000	OK
60 minute winter	SIC-6	33	135.285	0.070	21.9	0.0389	0.0000	OK
60 minute winter	S4	33	132.911	0.202	108.2	0.4847	0.0000	OK
60 minute winter	S5	34	132.511	0.186	108.0	0.3294	0.0000	OK
60 minute winter	S6	34	132.210	0.177	108.2	0.3133	0.0000	OK
60 minute winter	S7	65	131.567	0.455	108.1	0.0000	0.0000	OK
60 minute winter	S8	64	131.567	0.566	62.0	0.0000	0.0000	SURCHARGED
60 minute winter	S9	64	131.565	0.601	8.8	1.0619	0.0000	SURCHARGED
60 minute winter	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SIC-1	PS-1.000	SIC-2	17.0	1.497	0.156	0.4230	
60 minute winter	SIC-2	PS-1.001	SIC-3	20.9	1.776	0.278	0.2062	
60 minute winter	SIC-3	PS-1.002	S1	22.9	2.678	0.141	0.0479	
60 minute winter	S1	SW-1.000	S2	33.8	1.184	0.198	0.6822	
60 minute winter	S2	SW-1.001	S3	53.2	0.962	0.234	1.4855	
60 minute winter	S3	SW-1.002	S4	71.5	1.093	0.314	1.7417	
60 minute winter	SIC-4	PS-2.000	SIC-6	8.8	1.082	0.442	0.2659	
60 minute winter	SIC-5	PS-3.000	SIC-6	8.8	1.709	0.233	0.0937	
60 minute winter	SIC-6	PS-2.001	S4	21.9	2.111	0.202	0.3111	
60 minute winter	S4	SW-1.003	S5	108.0	1.652	0.389	3.4003	
60 minute winter	S5	SW-1.004	S6	108.2	1.804	0.317	1.5778	
60 minute winter	S6	SW-1.005	S7	108.1	1.910	0.317	1.9256	
60 minute winter	S7	Flow through pond	S8	62.0	0.152	0.002	132.4781	
60 minute winter	S8	SW-1.006	S9	8.8	0.530	0.199	0.1989	
60 minute winter	S9	Hydro-Brake®	Outfall	8.1				134.4

Results for 30 year +10% A 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	SIC-1	64	135.933	0.058	16.0	0.1154	0.0000	OK
120 minute summer	SIC-2	64	134.360	0.085	19.7	0.0575	0.0000	OK
120 minute summer	SIC-3	64	133.973	0.062	21.5	0.0294	0.0000	OK
120 minute summer	S1	64	133.339	0.114	31.8	0.2910	0.0000	OK
120 minute summer	S2	64	133.127	0.151	50.2	0.4438	0.0000	OK
120 minute summer	S3	64	133.022	0.180	67.5	0.4917	0.0000	OK
120 minute summer	SIC-4	64	135.769	0.069	8.3	0.0869	0.0000	OK
120 minute summer	SIC-5	64	136.149	0.049	8.3	0.0620	0.0000	OK
120 minute summer	SIC-6	64	135.283	0.068	20.7	0.0378	0.0000	OK
120 minute summer	S4	64	132.905	0.196	102.2	0.4693	0.0000	OK
120 minute summer	S5	64	132.505	0.180	102.2	0.3185	0.0000	OK
120 minute summer	S6	64	132.204	0.171	102.0	0.3029	0.0000	OK
120 minute summer	S7	124	131.627	0.515	101.7	0.0000	0.0000	OK
120 minute summer	S8	124	131.627	0.627	56.3	0.0000	0.0000	SURCHARGED
120 minute summer	S9	124	131.625	0.661	8.6	1.1684	0.0000	SURCHARGED
120 minute summer	Outfall	2	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SIC-1	PS-1.000	SIC-2	16.0	1.473	0.147	0.4051	
120 minute summer	SIC-2	PS-1.001	SIC-3	19.7	1.754	0.262	0.1969	
120 minute summer	SIC-3	PS-1.002	S1	21.5	2.637	0.133	0.0457	
120 minute summer	S1	SW-1.000	S2	31.8	1.165	0.187	0.6524	
120 minute summer	S2	SW-1.001	S3	50.2	0.950	0.220	1.4176	
120 minute summer	S3	SW-1.002	S4	67.5	1.078	0.296	1.6662	
120 minute summer	SIC-4	PS-2.000	SIC-6	8.3	1.066	0.417	0.2546	
120 minute summer	SIC-5	PS-3.000	SIC-6	8.3	1.683	0.220	0.0898	
120 minute summer	SIC-6	PS-2.001	S4	20.7	2.079	0.191	0.2987	
120 minute summer	S4	SW-1.003	S5	102.2	1.631	0.368	3.2585	
120 minute summer	S5	SW-1.004	S6	102.0	1.779	0.299	1.5083	
120 minute summer	S6	SW-1.005	S7	101.7	1.878	0.298	1.8408	
120 minute summer	S7	Flow through pond	S8	56.3	0.116	0.001	152.9746	
120 minute summer	S8	SW-1.006	S9	8.6	0.435	0.196	0.1989	
120 minute summer	S9	Hydro-Brake®	Outfall	8.1				155.1

Results for 30 year +10% A 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	SIC-1	64	135.923	0.048	11.0	0.0956	0.0000	OK
120 minute winter	SIC-2	64	134.345	0.070	13.5	0.0469	0.0000	OK
120 minute winter	SIC-3	64	133.961	0.050	14.8	0.0239	0.0000	OK
120 minute winter	S1	64	133.319	0.094	21.9	0.2386	0.0000	OK
120 minute winter	S2	64	133.098	0.122	34.6	0.3599	0.0000	OK
120 minute winter	S3	64	132.987	0.145	46.5	0.3965	0.0000	OK
120 minute winter	SIC-4	64	135.756	0.056	5.7	0.0703	0.0000	OK
120 minute winter	SIC-5	64	136.140	0.040	5.7	0.0508	0.0000	OK
120 minute winter	SIC-6	64	135.271	0.056	14.2	0.0310	0.0000	OK
120 minute winter	S4	64	132.868	0.159	70.3	0.3807	0.0000	OK
120 minute winter	S5	64	132.471	0.146	70.3	0.2577	0.0000	OK
120 minute winter	S6	64	132.173	0.140	70.3	0.2476	0.0000	OK
120 minute winter	S7	122	131.629	0.517	70.2	0.0000	0.0000	OK
120 minute winter	S8	122	131.629	0.629	39.9	0.0000	0.0000	SURCHARGED
120 minute winter	S9	122	131.628	0.664	8.5	1.1728	0.0000	SURCHARGED
120 minute winter	Outfall	2	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SIC-1	PS-1.000	SIC-2	11.0	1.332	0.101	0.3080	
120 minute winter	SIC-2	PS-1.001	SIC-3	13.5	1.599	0.179	0.1482	
120 minute winter	SIC-3	PS-1.002	S1	14.8	2.401	0.091	0.0345	
120 minute winter	S1	SW-1.000	S2	21.9	1.053	0.128	0.4971	
120 minute winter	S2	SW-1.001	S3	34.6	0.877	0.152	1.0586	
120 minute winter	S3	SW-1.002	S4	46.5	0.989	0.204	1.2513	
120 minute winter	SIC-4	PS-2.000	SIC-6	5.7	0.967	0.286	0.1928	
120 minute winter	SIC-5	PS-3.000	SIC-6	5.7	1.519	0.151	0.0683	
120 minute winter	SIC-6	PS-2.001	S4	14.2	1.873	0.131	0.2275	
120 minute winter	S4	SW-1.003	S5	70.3	1.491	0.253	2.4527	
120 minute winter	S5	SW-1.004	S6	70.3	1.624	0.206	1.1376	
120 minute winter	S6	SW-1.005	S7	70.2	1.701	0.206	1.4029	
120 minute winter	S7	Flow through pond	S8	39.9	0.118	0.001	153.8520	
120 minute winter	S8	SW-1.006	S9	8.5	0.440	0.192	0.1989	
120 minute winter	S9	Hydro-Brake®	Outfall	8.1				155.1

Results for 30 year +10% A 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	SIC-1	96	135.926	0.051	12.2	0.1007	0.0000	OK
180 minute summer	SIC-2	96	134.349	0.074	15.0	0.0496	0.0000	OK
180 minute summer	SIC-3	96	133.964	0.053	16.4	0.0253	0.0000	OK
180 minute summer	S1	96	133.324	0.099	24.3	0.2520	0.0000	OK
180 minute summer	S2	96	133.105	0.129	38.3	0.3808	0.0000	OK
180 minute summer	S3	96	132.996	0.154	51.5	0.4200	0.0000	OK
180 minute summer	SIC-4	96	135.759	0.059	6.3	0.0743	0.0000	OK
180 minute summer	SIC-5	96	136.143	0.043	6.3	0.0536	0.0000	OK
180 minute summer	SIC-6	96	135.274	0.059	15.7	0.0327	0.0000	OK
180 minute summer	S4	96	132.877	0.168	77.9	0.4027	0.0000	OK
180 minute summer	S5	96	132.479	0.154	77.9	0.2729	0.0000	OK
180 minute summer	S6	96	132.181	0.148	77.9	0.2618	0.0000	OK
180 minute summer	S7	184	131.645	0.533	77.9	0.0000	0.0000	OK
180 minute summer	S8	184	131.645	0.645	44.0	0.0000	0.0000	SURCHARGED
180 minute summer	S9	184	131.643	0.679	8.5	1.2003	0.0000	SURCHARGED
180 minute summer	Outfall	4	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SIC-1	PS-1.000	SIC-2	12.2	1.370	0.112	0.3324	
180 minute summer	SIC-2	PS-1.001	SIC-3	15.0	1.642	0.199	0.1604	
180 minute summer	SIC-3	PS-1.002	S1	16.4	2.465	0.101	0.0373	
180 minute summer	S1	SW-1.000	S2	24.3	1.084	0.143	0.5361	
180 minute summer	S2	SW-1.001	S3	38.3	0.897	0.168	1.1457	
180 minute summer	S3	SW-1.002	S4	51.5	1.013	0.226	1.3525	
180 minute summer	SIC-4	PS-2.000	SIC-6	6.3	0.993	0.317	0.2075	
180 minute summer	SIC-5	PS-3.000	SIC-6	6.3	1.561	0.167	0.0734	
180 minute summer	SIC-6	PS-2.001	S4	15.7	1.926	0.145	0.2445	
180 minute summer	S4	SW-1.003	S5	77.9	1.529	0.281	2.6503	
180 minute summer	S5	SW-1.004	S6	77.9	1.666	0.229	1.2298	
180 minute summer	S6	SW-1.005	S7	77.9	1.750	0.229	1.5140	
180 minute summer	S7	Flow through pond	S8	44.0	0.075	0.001	159.2820	
180 minute summer	S8	SW-1.006	S9	8.5	0.438	0.193	0.1989	
180 minute summer	S9	Hydro-Brake®	Outfall	8.1				176.1

Results for 30 year +10% A 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	SIC-1	96	135.917	0.042	8.4	0.0837	0.0000	OK
180 minute winter	SIC-2	96	134.336	0.060	10.3	0.0407	0.0000	OK
180 minute winter	SIC-3	96	133.954	0.043	11.3	0.0207	0.0000	OK
180 minute winter	S1	96	133.306	0.081	16.7	0.2072	0.0000	OK
180 minute winter	S2	96	133.082	0.106	26.4	0.3107	0.0000	OK
180 minute winter	S3	96	132.967	0.125	35.5	0.3412	0.0000	OK
180 minute winter	SIC-4	96	135.748	0.048	4.3	0.0605	0.0000	OK
180 minute winter	SIC-5	96	136.135	0.035	4.3	0.0440	0.0000	OK
180 minute winter	SIC-6	96	135.264	0.048	10.7	0.0269	0.0000	OK
180 minute winter	S4	96	132.846	0.137	53.5	0.3290	0.0000	OK
180 minute winter	S5	96	132.451	0.126	53.5	0.2220	0.0000	OK
180 minute winter	S6	96	132.155	0.121	53.5	0.2147	0.0000	OK
180 minute winter	S7	180	131.649	0.537	53.5	0.0000	0.0000	OK
180 minute winter	S8	180	131.649	0.649	31.5	0.0000	0.0000	SURCHARGED
180 minute winter	S9	180	131.648	0.684	8.4	1.2078	0.0000	SURCHARGED
180 minute winter	Outfall	4	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SIC-1	PS-1.000	SIC-2	8.4	1.236	0.077	0.2536	
180 minute winter	SIC-2	PS-1.001	SIC-3	10.3	1.493	0.137	0.1212	
180 minute winter	SIC-3	PS-1.002	S1	11.3	2.236	0.070	0.0283	
180 minute winter	S1	SW-1.000	S2	16.7	0.978	0.098	0.4083	
180 minute winter	S2	SW-1.001	S3	26.4	0.825	0.116	0.8595	
180 minute winter	S3	SW-1.002	S4	35.5	0.927	0.156	1.0195	
180 minute winter	SIC-4	PS-2.000	SIC-6	4.3	0.895	0.216	0.1571	
180 minute winter	SIC-5	PS-3.000	SIC-6	4.3	1.403	0.114	0.0558	
180 minute winter	SIC-6	PS-2.001	S4	10.7	1.730	0.099	0.1856	
180 minute winter	S4	SW-1.003	S5	53.5	1.392	0.193	1.9996	
180 minute winter	S5	SW-1.004	S6	53.5	1.516	0.157	0.9282	
180 minute winter	S6	SW-1.005	S7	53.5	1.579	0.157	1.1525	
180 minute winter	S7	Flow through pond	S8	31.5	0.083	0.001	160.7754	
180 minute winter	S8	SW-1.006	S9	8.4	0.400	0.190	0.1989	
180 minute winter	S9	Hydro-Brake®	Outfall	8.1				176.3

Results for 30 year +10% A 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SIC-1	124	135.922	0.047	10.5	0.0933	0.0000	OK
240 minute summer	SIC-2	124	134.343	0.068	12.9	0.0457	0.0000	OK
240 minute summer	SIC-3	124	133.960	0.048	14.0	0.0232	0.0000	OK
240 minute summer	S1	124	133.316	0.091	20.7	0.2310	0.0000	OK
240 minute summer	S2	124	133.094	0.118	32.5	0.3475	0.0000	OK
240 minute summer	S3	124	132.982	0.140	43.7	0.3819	0.0000	OK
240 minute summer	SIC-4	124	135.754	0.054	5.4	0.0680	0.0000	OK
240 minute summer	SIC-5	124	136.139	0.039	5.4	0.0494	0.0000	OK
240 minute summer	SIC-6	124	135.269	0.054	13.3	0.0300	0.0000	OK
240 minute summer	S4	124	132.862	0.153	65.8	0.3667	0.0000	OK
240 minute summer	S5	124	132.465	0.140	65.4	0.2471	0.0000	OK
240 minute summer	S6	124	132.167	0.134	65.0	0.2372	0.0000	OK
240 minute summer	S7	216	131.647	0.535	64.6	0.0000	0.0000	OK
240 minute summer	S8	216	131.647	0.647	37.3	0.0000	0.0000	SURCHARGED
240 minute summer	S9	216	131.645	0.681	8.4	1.2038	0.0000	SURCHARGED
240 minute summer	Outfall	4	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SIC-1	PS-1.000	SIC-2	10.5	1.314	0.096	0.2969	
240 minute summer	SIC-2	PS-1.001	SIC-3	12.8	1.579	0.170	0.1424	
240 minute summer	SIC-3	PS-1.002	S1	14.0	2.365	0.086	0.0331	
240 minute summer	S1	SW-1.000	S2	20.5	1.034	0.120	0.4746	
240 minute summer	S2	SW-1.001	S3	32.4	0.864	0.142	1.0060	
240 minute summer	S3	SW-1.002	S4	43.4	0.971	0.190	1.1882	
240 minute summer	SIC-4	PS-2.000	SIC-6	5.4	0.950	0.269	0.1844	
240 minute summer	SIC-5	PS-3.000	SIC-6	5.4	1.494	0.143	0.0656	
240 minute summer	SIC-6	PS-2.001	S4	13.3	1.839	0.123	0.2170	
240 minute summer	S4	SW-1.003	S5	65.4	1.464	0.236	2.3225	
240 minute summer	S5	SW-1.004	S6	65.0	1.594	0.191	1.0724	
240 minute summer	S6	SW-1.005	S7	64.6	1.663	0.189	1.3215	
240 minute summer	S7	Flow through pond	S8	37.3	0.089	0.001	159.9786	
240 minute summer	S8	SW-1.006	S9	8.4	0.397	0.191	0.1989	
240 minute summer	S9	Hydro-Brake®	Outfall	8.1				198.5

Results for 30 year +10% A 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	SIC-1	124	135.913	0.038	6.9	0.0761	0.0000	OK
240 minute winter	SIC-2	124	134.330	0.055	8.5	0.0369	0.0000	OK
240 minute winter	SIC-3	124	133.950	0.039	9.3	0.0187	0.0000	OK
240 minute winter	S1	124	133.299	0.074	13.8	0.1879	0.0000	OK
240 minute winter	S2	124	133.071	0.095	21.8	0.2804	0.0000	OK
240 minute winter	S3	124	132.955	0.113	29.3	0.3072	0.0000	OK
240 minute winter	SIC-4	124	135.744	0.044	3.6	0.0550	0.0000	OK
240 minute winter	SIC-5	124	136.132	0.032	3.6	0.0401	0.0000	OK
240 minute winter	SIC-6	124	135.259	0.044	9.0	0.0246	0.0000	OK
240 minute winter	S4	124	132.833	0.124	44.3	0.2978	0.0000	OK
240 minute winter	S5	124	132.438	0.113	44.2	0.2004	0.0000	OK
240 minute winter	S6	124	132.143	0.110	44.2	0.1943	0.0000	OK
240 minute winter	S7	232	131.649	0.537	44.1	0.0000	0.0000	OK
240 minute winter	S8	232	131.649	0.649	26.7	0.0000	0.0000	SURCHARGED
240 minute winter	S9	232	131.647	0.683	8.3	1.2074	0.0000	SURCHARGED
240 minute winter	Outfall	4	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SIC-1	PS-1.000	SIC-2	6.9	1.166	0.064	0.2208	
240 minute winter	SIC-2	PS-1.001	SIC-3	8.5	1.420	0.113	0.1052	
240 minute winter	SIC-3	PS-1.002	S1	9.3	2.123	0.057	0.0245	
240 minute winter	S1	SW-1.000	S2	13.8	0.926	0.081	0.3558	
240 minute winter	S2	SW-1.001	S3	21.8	0.788	0.095	0.7419	
240 minute winter	S3	SW-1.002	S4	29.2	0.881	0.128	0.8837	
240 minute winter	SIC-4	PS-2.000	SIC-6	3.6	0.851	0.180	0.1377	
240 minute winter	SIC-5	PS-3.000	SIC-6	3.6	1.333	0.095	0.0491	
240 minute winter	SIC-6	PS-2.001	S4	9.0	1.644	0.083	0.1635	
240 minute winter	S4	SW-1.003	S5	44.2	1.325	0.159	1.7368	
240 minute winter	S5	SW-1.004	S6	44.2	1.442	0.130	0.8052	
240 minute winter	S6	SW-1.005	S7	44.1	1.495	0.129	1.0028	
240 minute winter	S7	Flow through pond	S8	26.7	0.076	0.001	160.6875	
240 minute winter	S8	SW-1.006	S9	8.3	0.405	0.189	0.1989	
240 minute winter	S9	Hydro-Brake®	Outfall	8.1				199.3

Results for 30 year +10% A 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	SIC-1	184	135.916	0.041	8.1	0.0821	0.0000	OK
360 minute summer	SIC-2	184	134.334	0.059	10.0	0.0400	0.0000	OK
360 minute summer	SIC-3	184	133.953	0.042	10.8	0.0202	0.0000	OK
360 minute summer	S1	184	133.304	0.079	16.0	0.2021	0.0000	OK
360 minute summer	S2	184	133.079	0.103	25.2	0.3026	0.0000	OK
360 minute summer	S3	184	132.963	0.121	33.7	0.3310	0.0000	OK
360 minute summer	SIC-4	184	135.747	0.047	4.2	0.0594	0.0000	OK
360 minute summer	SIC-5	184	136.134	0.034	4.2	0.0434	0.0000	OK
360 minute summer	SIC-6	184	135.263	0.048	10.3	0.0263	0.0000	OK
360 minute summer	S4	184	132.842	0.133	50.8	0.3193	0.0000	OK
360 minute summer	S5	184	132.446	0.121	50.4	0.2146	0.0000	OK
360 minute summer	S6	184	132.150	0.117	50.1	0.2069	0.0000	OK
360 minute summer	S7	280	131.637	0.524	49.7	0.0000	0.0000	OK
360 minute summer	S8	280	131.636	0.636	29.6	0.0000	0.0000	SURCHARGED
360 minute summer	S9	280	131.635	0.671	8.8	1.1859	0.0000	SURCHARGED
360 minute summer	Outfall	8	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SIC-1	PS-1.000	SIC-2	8.1	1.220	0.074	0.2469	
360 minute summer	SIC-2	PS-1.001	SIC-3	9.9	1.481	0.132	0.1177	
360 minute summer	SIC-3	PS-1.002	S1	10.8	2.209	0.067	0.0274	
360 minute summer	S1	SW-1.000	S2	15.9	0.963	0.093	0.3940	
360 minute summer	S2	SW-1.001	S3	25.0	0.815	0.110	0.8254	
360 minute summer	S3	SW-1.002	S4	33.5	0.912	0.147	0.9777	
360 minute summer	SIC-4	PS-2.000	SIC-6	4.2	0.886	0.209	0.1534	
360 minute summer	SIC-5	PS-3.000	SIC-6	4.2	1.392	0.111	0.0547	
360 minute summer	SIC-6	PS-2.001	S4	10.3	1.710	0.095	0.1806	
360 minute summer	S4	SW-1.003	S5	50.4	1.371	0.182	1.9131	
360 minute summer	S5	SW-1.004	S6	50.1	1.492	0.147	0.8831	
360 minute summer	S6	SW-1.005	S7	49.7	1.545	0.146	1.0941	
360 minute summer	S7	Flow through pond	S8	29.6	0.043	0.001	156.4320	
360 minute summer	S8	SW-1.006	S9	8.8	0.387	0.200	0.1989	
360 minute summer	S9	Hydro-Brake®	Outfall	8.1				243.4

Results for 30 year +10% A 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	SIC-1	184	135.908	0.033	5.2	0.0663	0.0000	OK
360 minute winter	SIC-2	184	134.322	0.047	6.4	0.0320	0.0000	OK
360 minute winter	SIC-3	184	133.945	0.034	7.0	0.0161	0.0000	OK
360 minute winter	S1	184	133.289	0.064	10.4	0.1628	0.0000	OK
360 minute winter	S2	184	133.058	0.082	16.4	0.2416	0.0000	OK
360 minute winter	S3	184	132.939	0.097	22.1	0.2640	0.0000	OK
360 minute winter	SIC-4	184	135.738	0.038	2.7	0.0474	0.0000	OK
360 minute winter	SIC-5	184	136.128	0.028	2.7	0.0348	0.0000	OK
360 minute winter	SIC-6	184	135.253	0.038	6.7	0.0212	0.0000	OK
360 minute winter	S4	184	132.816	0.107	33.3	0.2573	0.0000	OK
360 minute winter	S5	184	132.423	0.098	33.3	0.1726	0.0000	OK
360 minute winter	S6	184	132.128	0.095	33.2	0.1681	0.0000	OK
360 minute winter	S7	288	131.630	0.518	33.2	0.0000	0.0000	OK
360 minute winter	S8	288	131.630	0.630	21.0	0.0000	0.0000	SURCHARGED
360 minute winter	S9	288	131.628	0.664	8.2	1.1737	0.0000	SURCHARGED
360 minute winter	Outfall	8	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SIC-1	PS-1.000	SIC-2	5.2	1.076	0.048	0.1802	
360 minute winter	SIC-2	PS-1.001	SIC-3	6.4	1.318	0.085	0.0853	
360 minute winter	SIC-3	PS-1.002	S1	7.0	1.965	0.043	0.0199	
360 minute winter	S1	SW-1.000	S2	10.4	0.854	0.061	0.2904	
360 minute winter	S2	SW-1.001	S3	16.4	0.734	0.072	0.5987	
360 minute winter	S3	SW-1.002	S4	22.0	0.819	0.097	0.7159	
360 minute winter	SIC-4	PS-2.000	SIC-6	2.7	0.785	0.135	0.1121	
360 minute winter	SIC-5	PS-3.000	SIC-6	2.7	1.227	0.072	0.0400	
360 minute winter	SIC-6	PS-2.001	S4	6.7	1.509	0.062	0.1328	
360 minute winter	S4	SW-1.003	S5	33.3	1.229	0.120	1.4085	
360 minute winter	S5	SW-1.004	S6	33.2	1.338	0.097	0.6531	
360 minute winter	S6	SW-1.005	S7	33.2	1.380	0.097	0.8179	
360 minute winter	S7	Flow through pond	S8	21.0	0.074	0.001	154.0285	
360 minute winter	S8	SW-1.006	S9	8.2	0.396	0.187	0.1989	
360 minute winter	S9	Hydro-Brake®	Outfall	8.1				246.9

Results for 30 year +10% A 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	SIC-1	248	135.912	0.037	6.4	0.0734	0.0000	OK
480 minute summer	SIC-2	248	134.328	0.053	7.9	0.0356	0.0000	OK
480 minute summer	SIC-3	248	133.949	0.037	8.6	0.0179	0.0000	OK
480 minute summer	S1	248	133.296	0.071	12.7	0.1802	0.0000	OK
480 minute summer	S2	248	133.067	0.091	20.1	0.2688	0.0000	OK
480 minute summer	S3	248	132.950	0.108	27.0	0.2942	0.0000	OK
480 minute summer	SIC-4	248	135.742	0.042	3.3	0.0526	0.0000	OK
480 minute summer	SIC-5	248	136.131	0.031	3.3	0.0384	0.0000	OK
480 minute summer	SIC-6	248	135.257	0.042	8.2	0.0235	0.0000	OK
480 minute summer	S4	248	132.828	0.119	40.8	0.2855	0.0000	OK
480 minute summer	S5	248	132.434	0.109	40.8	0.1922	0.0000	OK
480 minute summer	S6	248	132.139	0.106	40.8	0.1867	0.0000	OK
480 minute summer	S7	344	131.624	0.512	40.8	0.0000	0.0000	OK
480 minute summer	S8	344	131.624	0.624	25.0	0.0000	0.0000	SURCHARGED
480 minute summer	S9	344	131.623	0.658	8.8	1.1636	0.0000	SURCHARGED
480 minute summer	Outfall	8	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SIC-1	PS-1.000	SIC-2	6.4	1.141	0.059	0.2095	
480 minute summer	SIC-2	PS-1.001	SIC-3	7.9	1.396	0.105	0.0996	
480 minute summer	SIC-3	PS-1.002	S1	8.6	2.079	0.053	0.0232	
480 minute summer	S1	SW-1.000	S2	12.7	0.905	0.074	0.3356	
480 minute summer	S2	SW-1.001	S3	20.1	0.773	0.088	0.6981	
480 minute summer	S3	SW-1.002	S4	27.0	0.864	0.118	0.8320	
480 minute summer	SIC-4	PS-2.000	SIC-6	3.3	0.832	0.166	0.1298	
480 minute summer	SIC-5	PS-3.000	SIC-6	3.3	1.301	0.088	0.0462	
480 minute summer	SIC-6	PS-2.001	S4	8.2	1.601	0.076	0.1536	
480 minute summer	S4	SW-1.003	S5	40.8	1.297	0.147	1.6362	
480 minute summer	S5	SW-1.004	S6	40.8	1.413	0.120	0.7597	
480 minute summer	S6	SW-1.005	S7	40.8	1.463	0.120	0.9484	
480 minute summer	S7	Flow through pond	S8	25.0	0.045	0.001	152.0130	
480 minute summer	S8	SW-1.006	S9	8.8	0.419	0.201	0.1989	
480 minute summer	S9	Hydro-Brake®	Outfall	8.1				287.8

Results for 30 year +10% A 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	SIC-1	248	135.906	0.031	4.3	0.0606	0.0000	OK
480 minute winter	SIC-2	248	134.318	0.043	5.3	0.0291	0.0000	OK
480 minute winter	SIC-3	248	133.942	0.031	5.8	0.0146	0.0000	OK
480 minute winter	S1	248	133.283	0.058	8.5	0.1473	0.0000	OK
480 minute winter	S2	248	133.050	0.074	13.4	0.2180	0.0000	OK
480 minute winter	S3	248	132.929	0.087	18.0	0.2374	0.0000	OK
480 minute winter	SIC-4	248	135.734	0.034	2.2	0.0428	0.0000	OK
480 minute winter	SIC-5	248	136.125	0.025	2.2	0.0314	0.0000	OK
480 minute winter	SIC-6	248	135.250	0.035	5.5	0.0193	0.0000	OK
480 minute winter	S4	248	132.806	0.097	27.2	0.2321	0.0000	OK
480 minute winter	S5	248	132.413	0.088	27.2	0.1556	0.0000	OK
480 minute winter	S6	248	132.119	0.086	27.2	0.1521	0.0000	OK
480 minute winter	S7	368	131.606	0.494	27.2	0.0000	0.0000	OK
480 minute winter	S8	368	131.606	0.606	17.9	0.0000	0.0000	SURCHARGED
480 minute winter	S9	368	131.604	0.640	8.3	1.1312	0.0000	SURCHARGED
480 minute winter	Outfall	8	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SIC-1	PS-1.000	SIC-2	4.3	1.017	0.040	0.1577	
480 minute winter	SIC-2	PS-1.001	SIC-3	5.3	1.252	0.070	0.0745	
480 minute winter	SIC-3	PS-1.002	S1	5.8	1.867	0.036	0.0174	
480 minute winter	S1	SW-1.000	S2	8.5	0.808	0.050	0.2516	
480 minute winter	S2	SW-1.001	S3	13.4	0.699	0.059	0.5150	
480 minute winter	S3	SW-1.002	S4	18.0	0.777	0.079	0.6168	
480 minute winter	SIC-4	PS-2.000	SIC-6	2.2	0.741	0.111	0.0970	
480 minute winter	SIC-5	PS-3.000	SIC-6	2.2	1.157	0.058	0.0346	
480 minute winter	SIC-6	PS-2.001	S4	5.5	1.428	0.051	0.1156	
480 minute winter	S4	SW-1.003	S5	27.2	1.164	0.098	1.2160	
480 minute winter	S5	SW-1.004	S6	27.2	1.267	0.080	0.5646	
480 minute winter	S6	SW-1.005	S7	27.2	1.303	0.080	0.7100	
480 minute winter	S7	Flow through pond	S8	17.9	0.057	0.000	145.6137	
480 minute winter	S8	SW-1.006	S9	8.3	0.435	0.189	0.1989	
480 minute winter	S9	Hydro-Brake®	Outfall	8.1				294.4

Results for 30 year +10% A 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	SIC-1	315	135.909	0.034	5.3	0.0669	0.0000	OK
600 minute summer	SIC-2	315	134.323	0.048	6.5	0.0322	0.0000	OK
600 minute summer	SIC-3	315	133.945	0.034	7.1	0.0162	0.0000	OK
600 minute summer	S1	315	133.289	0.064	10.5	0.1637	0.0000	OK
600 minute summer	S2	315	133.059	0.083	16.6	0.2433	0.0000	OK
600 minute summer	S3	315	132.939	0.097	22.3	0.2657	0.0000	OK
600 minute summer	SIC-4	315	135.738	0.038	2.7	0.0475	0.0000	OK
600 minute summer	SIC-5	315	136.128	0.028	2.7	0.0348	0.0000	OK
600 minute summer	SIC-6	315	135.253	0.038	6.7	0.0213	0.0000	OK
600 minute summer	S4	315	132.817	0.108	33.6	0.2585	0.0000	OK
600 minute summer	S5	315	132.423	0.098	33.6	0.1736	0.0000	OK
600 minute summer	S6	315	132.129	0.096	33.6	0.1691	0.0000	OK
600 minute summer	S7	420	131.606	0.494	33.6	0.0000	0.0000	OK
600 minute summer	S8	420	131.606	0.606	21.2	0.0000	0.0000	SURCHARGED
600 minute summer	S9	420	131.605	0.641	8.2	1.1324	0.0000	SURCHARGED
600 minute summer	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SIC-1	PS-1.000	SIC-2	5.3	1.084	0.049	0.1825	
600 minute summer	SIC-2	PS-1.001	SIC-3	6.5	1.324	0.086	0.0863	
600 minute summer	SIC-3	PS-1.002	S1	7.1	1.974	0.044	0.0201	
600 minute summer	S1	SW-1.000	S2	10.5	0.857	0.062	0.2929	
600 minute summer	S2	SW-1.001	S3	16.6	0.738	0.073	0.6044	
600 minute summer	S3	SW-1.002	S4	22.3	0.823	0.098	0.7214	
600 minute summer	SIC-4	PS-2.000	SIC-6	2.7	0.786	0.136	0.1124	
600 minute summer	SIC-5	PS-3.000	SIC-6	2.7	1.227	0.072	0.0400	
600 minute summer	SIC-6	PS-2.001	S4	6.7	1.510	0.062	0.1331	
600 minute summer	S4	SW-1.003	S5	33.6	1.232	0.121	1.4187	
600 minute summer	S5	SW-1.004	S6	33.6	1.342	0.099	0.6585	
600 minute summer	S6	SW-1.005	S7	33.6	1.385	0.099	0.8251	
600 minute summer	S7	Flow through pond	S8	21.2	0.058	0.001	145.8392	
600 minute summer	S8	SW-1.006	S9	8.2	0.411	0.187	0.1989	
600 minute summer	S9	Hydro-Brake®	Outfall	8.1				324.7

Results for 30 year +10% A 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	SIC-1	315	135.903	0.028	3.6	0.0556	0.0000	OK
600 minute winter	SIC-2	315	134.315	0.039	4.4	0.0266	0.0000	OK
600 minute winter	SIC-3	315	133.939	0.028	4.8	0.0133	0.0000	OK
600 minute winter	S1	315	133.278	0.053	7.1	0.1347	0.0000	OK
600 minute winter	S2	315	133.044	0.068	11.3	0.1997	0.0000	OK
600 minute winter	S3	315	132.922	0.080	15.2	0.2175	0.0000	OK
600 minute winter	SIC-4	315	135.732	0.032	1.9	0.0397	0.0000	OK
600 minute winter	SIC-5	315	136.123	0.023	1.9	0.0293	0.0000	OK
600 minute winter	SIC-6	315	135.247	0.032	4.7	0.0179	0.0000	OK
600 minute winter	S4	315	132.798	0.089	23.1	0.2139	0.0000	OK
600 minute winter	S5	315	132.406	0.081	23.1	0.1433	0.0000	OK
600 minute winter	S6	315	132.112	0.079	23.1	0.1404	0.0000	OK
600 minute winter	S7	435	131.576	0.463	23.1	0.0000	0.0000	OK
600 minute winter	S8	435	131.576	0.575	15.8	0.0000	0.0000	SURCHARGED
600 minute winter	S9	435	131.574	0.610	8.2	1.0778	0.0000	SURCHARGED
600 minute winter	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SIC-1	PS-1.000	SIC-2	3.6	0.969	0.033	0.1387	
600 minute winter	SIC-2	PS-1.001	SIC-3	4.4	1.190	0.058	0.0651	
600 minute winter	SIC-3	PS-1.002	S1	4.8	1.768	0.030	0.0152	
600 minute winter	S1	SW-1.000	S2	7.1	0.766	0.042	0.2215	
600 minute winter	S2	SW-1.001	S3	11.3	0.669	0.050	0.4534	
600 minute winter	S3	SW-1.002	S4	15.2	0.741	0.067	0.5460	
600 minute winter	SIC-4	PS-2.000	SIC-6	1.9	0.711	0.095	0.0874	
600 minute winter	SIC-5	PS-3.000	SIC-6	1.9	1.110	0.050	0.0312	
600 minute winter	SIC-6	PS-2.001	S4	4.7	1.362	0.043	0.1035	
600 minute winter	S4	SW-1.003	S5	23.1	1.112	0.083	1.0803	
600 minute winter	S5	SW-1.004	S6	23.1	1.211	0.068	0.5018	
600 minute winter	S6	SW-1.005	S7	23.1	1.242	0.068	0.6324	
600 minute winter	S7	Flow through pond	S8	15.8	0.027	0.000	135.4898	
600 minute winter	S8	SW-1.006	S9	8.2	0.385	0.186	0.1989	
600 minute winter	S9	Hydro-Brake®	Outfall	8.1				328.1

Results for 30 year +10% A 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	SIC-1	375	135.907	0.032	4.7	0.0632	0.0000	OK
720 minute summer	SIC-2	375	134.320	0.045	5.8	0.0305	0.0000	OK
720 minute summer	SIC-3	375	133.943	0.032	6.3	0.0153	0.0000	OK
720 minute summer	S1	375	133.285	0.060	9.3	0.1540	0.0000	OK
720 minute summer	S2	375	133.054	0.078	14.7	0.2285	0.0000	OK
720 minute summer	S3	375	132.933	0.091	19.8	0.2494	0.0000	OK
720 minute summer	SIC-4	375	135.736	0.036	2.5	0.0457	0.0000	OK
720 minute summer	SIC-5	375	136.127	0.027	2.5	0.0335	0.0000	OK
720 minute summer	SIC-6	375	135.252	0.037	6.2	0.0205	0.0000	OK
720 minute summer	S4	375	132.811	0.102	30.1	0.2444	0.0000	OK
720 minute summer	S5	375	132.418	0.093	30.1	0.1639	0.0000	OK
720 minute summer	S6	375	132.124	0.091	30.1	0.1600	0.0000	OK
720 minute summer	S7	480	131.588	0.476	30.1	0.0000	0.0000	OK
720 minute summer	S8	480	131.588	0.588	19.4	0.0000	0.0000	SURCHARGED
720 minute summer	S9	480	131.586	0.622	9.1	1.0993	0.0000	SURCHARGED
720 minute summer	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SIC-1	PS-1.000	SIC-2	4.7	1.044	0.043	0.1681	
720 minute summer	SIC-2	PS-1.001	SIC-3	5.8	1.286	0.077	0.0794	
720 minute summer	SIC-3	PS-1.002	S1	6.3	1.909	0.039	0.0185	
720 minute summer	S1	SW-1.000	S2	9.3	0.828	0.055	0.2684	
720 minute summer	S2	SW-1.001	S3	14.7	0.715	0.064	0.5521	
720 minute summer	S3	SW-1.002	S4	19.8	0.795	0.087	0.6630	
720 minute summer	SIC-4	PS-2.000	SIC-6	2.5	0.769	0.126	0.1063	
720 minute summer	SIC-5	PS-3.000	SIC-6	2.5	1.200	0.066	0.0379	
720 minute summer	SIC-6	PS-2.001	S4	6.2	1.477	0.057	0.1260	
720 minute summer	S4	SW-1.003	S5	30.1	1.196	0.108	1.3094	
720 minute summer	S5	SW-1.004	S6	30.1	1.303	0.088	0.6078	
720 minute summer	S6	SW-1.005	S7	30.1	1.342	0.088	0.7627	
720 minute summer	S7	Flow through pond	S8	19.4	0.062	0.000	139.5631	
720 minute summer	S8	SW-1.006	S9	9.1	0.426	0.206	0.1989	
720 minute summer	S9	Hydro-Brake®	Outfall	8.1				346.7

Results for 30 year +10% A 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	SIC-1	375	135.902	0.027	3.2	0.0526	0.0000	OK
720 minute winter	SIC-2	375	134.312	0.037	3.9	0.0250	0.0000	OK
720 minute winter	SIC-3	375	133.937	0.026	4.3	0.0126	0.0000	OK
720 minute winter	S1	375	133.275	0.050	6.3	0.1271	0.0000	OK
720 minute winter	S2	375	133.040	0.064	10.0	0.1878	0.0000	OK
720 minute winter	S3	375	132.917	0.075	13.4	0.2039	0.0000	OK
720 minute winter	SIC-4	360	135.729	0.029	1.6	0.0365	0.0000	OK
720 minute winter	SIC-5	360	136.121	0.021	1.6	0.0269	0.0000	OK
720 minute winter	SIC-6	360	135.245	0.030	4.0	0.0165	0.0000	OK
720 minute winter	S4	375	132.792	0.083	20.2	0.2002	0.0000	OK
720 minute winter	S5	375	132.401	0.076	20.2	0.1338	0.0000	OK
720 minute winter	S6	375	132.107	0.074	20.2	0.1313	0.0000	OK
720 minute winter	S7	510	131.546	0.434	20.2	0.0000	0.0000	OK
720 minute winter	S8	510	131.546	0.546	14.3	0.0000	0.0000	SURCHARGED
720 minute winter	S9	510	131.544	0.580	8.2	1.0250	0.0000	SURCHARGED
720 minute winter	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SIC-1	PS-1.000	SIC-2	3.2	0.937	0.029	0.1273	
720 minute winter	SIC-2	PS-1.001	SIC-3	3.9	1.147	0.052	0.0598	
720 minute winter	SIC-3	PS-1.002	S1	4.3	1.713	0.027	0.0141	
720 minute winter	S1	SW-1.000	S2	6.3	0.740	0.037	0.2035	
720 minute winter	S2	SW-1.001	S3	10.0	0.649	0.044	0.4143	
720 minute winter	S3	SW-1.002	S4	13.4	0.718	0.059	0.4974	
720 minute winter	SIC-4	PS-2.000	SIC-6	1.6	0.676	0.080	0.0774	
720 minute winter	SIC-5	PS-3.000	SIC-6	1.6	1.054	0.042	0.0276	
720 minute winter	SIC-6	PS-2.001	S4	4.0	1.299	0.037	0.0924	
720 minute winter	S4	SW-1.003	S5	20.2	1.072	0.073	0.9813	
720 minute winter	S5	SW-1.004	S6	20.2	1.167	0.059	0.4554	
720 minute winter	S6	SW-1.005	S7	20.2	1.195	0.059	0.5749	
720 minute winter	S7	Flow through pond	S8	14.3	0.027	0.000	125.5730	
720 minute winter	S8	SW-1.006	S9	8.2	0.427	0.186	0.1989	
720 minute winter	S9	Hydro-Brake®	Outfall	8.1				349.8

Results for 30 year +10% A 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	SIC-1	495	135.904	0.029	3.9	0.0578	0.0000	OK
960 minute summer	SIC-2	495	134.316	0.041	4.8	0.0277	0.0000	OK
960 minute summer	SIC-3	495	133.940	0.029	5.3	0.0140	0.0000	OK
960 minute summer	S1	495	133.280	0.055	7.8	0.1411	0.0000	OK
960 minute summer	S2	495	133.047	0.071	12.3	0.2086	0.0000	OK
960 minute summer	S3	495	132.925	0.083	16.5	0.2270	0.0000	OK
960 minute summer	SIC-4	495	135.732	0.032	2.0	0.0408	0.0000	OK
960 minute summer	SIC-5	495	136.124	0.024	2.0	0.0300	0.0000	OK
960 minute summer	SIC-6	495	135.248	0.033	5.0	0.0184	0.0000	OK
960 minute summer	S4	495	132.802	0.093	24.9	0.2221	0.0000	OK
960 minute summer	S5	495	132.409	0.084	24.9	0.1488	0.0000	OK
960 minute summer	S6	495	132.115	0.082	24.9	0.1456	0.0000	OK
960 minute summer	S7	615	131.553	0.441	24.9	0.0000	0.0000	OK
960 minute summer	S8	615	131.553	0.553	16.8	0.0000	0.0000	SURCHARGED
960 minute summer	S9	615	131.552	0.588	8.2	1.0381	0.0000	SURCHARGED
960 minute summer	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SIC-1	PS-1.000	SIC-2	3.9	0.991	0.036	0.1471	
960 minute summer	SIC-2	PS-1.001	SIC-3	4.8	1.216	0.064	0.0695	
960 minute summer	SIC-3	PS-1.002	S1	5.3	1.819	0.033	0.0163	
960 minute summer	S1	SW-1.000	S2	7.8	0.787	0.046	0.2368	
960 minute summer	S2	SW-1.001	S3	12.3	0.684	0.054	0.4829	
960 minute summer	S3	SW-1.002	S4	16.5	0.759	0.072	0.5788	
960 minute summer	SIC-4	PS-2.000	SIC-6	2.0	0.721	0.100	0.0907	
960 minute summer	SIC-5	PS-3.000	SIC-6	2.0	1.126	0.053	0.0323	
960 minute summer	SIC-6	PS-2.001	S4	5.0	1.387	0.046	0.1081	
960 minute summer	S4	SW-1.003	S5	24.9	1.136	0.090	1.1410	
960 minute summer	S5	SW-1.004	S6	24.9	1.236	0.073	0.5298	
960 minute summer	S6	SW-1.005	S7	24.9	1.269	0.073	0.6670	
960 minute summer	S7	Flow through pond	S8	16.8	0.066	0.000	127.9787	
960 minute summer	S8	SW-1.006	S9	8.2	0.385	0.186	0.1989	
960 minute summer	S9	Hydro-Brake®	Outfall	8.1				378.4

Results for 30 year +10% A 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	SIC-1	495	135.899	0.024	2.6	0.0477	0.0000	OK
960 minute winter	SIC-2	495	134.309	0.034	3.2	0.0227	0.0000	OK
960 minute winter	SIC-3	495	133.935	0.024	3.5	0.0114	0.0000	OK
960 minute winter	S1	495	133.270	0.045	5.2	0.1157	0.0000	OK
960 minute winter	S2	495	133.034	0.058	8.2	0.1700	0.0000	OK
960 minute winter	S3	495	132.910	0.067	11.0	0.1842	0.0000	OK
960 minute winter	SIC-4	465	135.726	0.026	1.3	0.0330	0.0000	OK
960 minute winter	SIC-5	465	136.119	0.019	1.3	0.0243	0.0000	OK
960 minute winter	SIC-6	495	135.242	0.027	3.3	0.0151	0.0000	OK
960 minute winter	S4	495	132.785	0.076	16.6	0.1817	0.0000	OK
960 minute winter	S5	495	132.394	0.069	16.6	0.1213	0.0000	OK
960 minute winter	S6	495	132.100	0.067	16.6	0.1192	0.0000	OK
960 minute winter	S7	645	131.480	0.368	16.6	0.0000	0.0000	OK
960 minute winter	S8	645	131.480	0.480	12.5	0.0000	0.0000	SURCHARGED
960 minute winter	S9	645	131.478	0.514	8.2	0.9086	0.0000	SURCHARGED
960 minute winter	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SIC-1	PS-1.000	SIC-2	2.6	0.878	0.024	0.1105	
960 minute winter	SIC-2	PS-1.001	SIC-3	3.2	1.088	0.043	0.0518	
960 minute winter	SIC-3	PS-1.002	S1	3.5	1.616	0.022	0.0121	
960 minute winter	S1	SW-1.000	S2	5.2	0.699	0.030	0.1779	
960 minute winter	S2	SW-1.001	S3	8.2	0.615	0.036	0.3575	
960 minute winter	S3	SW-1.002	S4	11.0	0.680	0.048	0.4308	
960 minute winter	SIC-4	PS-2.000	SIC-6	1.3	0.636	0.065	0.0669	
960 minute winter	SIC-5	PS-3.000	SIC-6	1.3	0.991	0.034	0.0239	
960 minute winter	SIC-6	PS-2.001	S4	3.3	1.225	0.030	0.0808	
960 minute winter	S4	SW-1.003	S5	16.6	1.014	0.060	0.8515	
960 minute winter	S5	SW-1.004	S6	16.6	1.105	0.049	0.3950	
960 minute winter	S6	SW-1.005	S7	16.6	1.129	0.049	0.5000	
960 minute winter	S7	Flow through pond	S8	12.5	0.030	0.000	104.7987	
960 minute winter	S8	SW-1.006	S9	8.2	0.385	0.186	0.1989	
960 minute winter	S9	Hydro-Brake®	Outfall	8.1				379.1

Results for 30 year +10% A 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	SIC-1	750	135.900	0.025	2.9	0.0503	0.0000	OK
1440 minute summer	SIC-2	750	134.311	0.036	3.6	0.0241	0.0000	OK
1440 minute summer	SIC-3	750	133.936	0.025	3.9	0.0120	0.0000	OK
1440 minute summer	S1	750	133.273	0.048	5.8	0.1220	0.0000	OK
1440 minute summer	S2	750	133.037	0.061	9.1	0.1791	0.0000	OK
1440 minute summer	S3	750	132.913	0.071	12.2	0.1942	0.0000	OK
1440 minute summer	SIC-4	750	135.728	0.028	1.5	0.0354	0.0000	OK
1440 minute summer	SIC-5	750	136.121	0.021	1.5	0.0261	0.0000	OK
1440 minute summer	SIC-6	750	135.244	0.029	3.7	0.0159	0.0000	OK
1440 minute summer	S4	750	132.789	0.080	18.4	0.1912	0.0000	OK
1440 minute summer	S5	750	132.397	0.072	18.4	0.1277	0.0000	OK
1440 minute summer	S6	750	132.104	0.071	18.4	0.1254	0.0000	OK
1440 minute summer	S7	870	131.469	0.357	18.4	0.0000	0.0000	OK
1440 minute summer	S8	870	131.469	0.469	13.4	0.0000	0.0000	SURCHARGED
1440 minute summer	S9	870	131.467	0.503	8.2	0.8893	0.0000	SURCHARGED
1440 minute summer	Outfall	30	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SIC-1	PS-1.000	SIC-2	2.9	0.903	0.027	0.1199	
1440 minute summer	SIC-2	PS-1.001	SIC-3	3.6	1.126	0.048	0.0563	
1440 minute summer	SIC-3	PS-1.002	S1	3.9	1.668	0.024	0.0131	
1440 minute summer	S1	SW-1.000	S2	5.8	0.722	0.034	0.1920	
1440 minute summer	S2	SW-1.001	S3	9.1	0.633	0.040	0.3859	
1440 minute summer	S3	SW-1.002	S4	12.2	0.699	0.054	0.4643	
1440 minute summer	SIC-4	PS-2.000	SIC-6	1.5	0.663	0.075	0.0740	
1440 minute summer	SIC-5	PS-3.000	SIC-6	1.5	1.034	0.040	0.0264	
1440 minute summer	SIC-6	PS-2.001	S4	3.7	1.268	0.034	0.0875	
1440 minute summer	S4	SW-1.003	S5	18.4	1.044	0.066	0.9171	
1440 minute summer	S5	SW-1.004	S6	18.4	1.137	0.054	0.4256	
1440 minute summer	S6	SW-1.005	S7	18.4	1.164	0.054	0.5377	
1440 minute summer	S7	Flow through pond	S8	13.4	0.020	0.000	101.4829	
1440 minute summer	S8	SW-1.006	S9	8.2	0.388	0.186	0.1989	
1440 minute summer	S9	Hydro-Brake®	Outfall	8.1				422.7

Results for 30 year +10% A 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SIC-1	720	135.896	0.021	1.9	0.0411	0.0000	OK
1440 minute winter	SIC-2	720	134.304	0.029	2.3	0.0194	0.0000	OK
1440 minute winter	SIC-3	720	133.931	0.020	2.5	0.0096	0.0000	OK
1440 minute winter	S1	720	133.264	0.039	3.7	0.0982	0.0000	OK
1440 minute winter	S2	750	133.025	0.049	5.9	0.1452	0.0000	OK
1440 minute winter	S3	750	132.899	0.057	8.0	0.1568	0.0000	OK
1440 minute winter	SIC-4	720	135.723	0.023	1.0	0.0290	0.0000	OK
1440 minute winter	SIC-5	720	136.117	0.017	1.0	0.0215	0.0000	OK
1440 minute winter	SIC-6	720	135.239	0.024	2.5	0.0132	0.0000	OK
1440 minute winter	S4	750	132.774	0.065	12.2	0.1562	0.0000	OK
1440 minute winter	S5	750	132.384	0.059	12.2	0.1041	0.0000	OK
1440 minute winter	S6	750	132.091	0.058	12.2	0.1027	0.0000	OK
1440 minute winter	S7	900	131.344	0.232	12.2	0.0000	0.0000	OK
1440 minute winter	S8	900	131.344	0.344	10.2	0.0000	0.0000	SURCHARGED
1440 minute winter	S9	900	131.342	0.378	8.1	0.6682	0.0000	SURCHARGED
1440 minute winter	Outfall	30	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SIC-1	PS-1.000	SIC-2	1.9	0.807	0.017	0.0881	
1440 minute winter	SIC-2	PS-1.001	SIC-3	2.3	0.992	0.031	0.0409	
1440 minute winter	SIC-3	PS-1.002	S1	2.5	1.471	0.015	0.0095	
1440 minute winter	S1	SW-1.000	S2	3.7	0.632	0.022	0.1399	
1440 minute winter	S2	SW-1.001	S3	5.9	0.560	0.026	0.2827	
1440 minute winter	S3	SW-1.002	S4	8.0	0.621	0.035	0.3435	
1440 minute winter	SIC-4	PS-2.000	SIC-6	1.0	0.589	0.050	0.0555	
1440 minute winter	SIC-5	PS-3.000	SIC-6	1.0	0.916	0.027	0.0199	
1440 minute winter	SIC-6	PS-2.001	S4	2.5	1.128	0.023	0.0665	
1440 minute winter	S4	SW-1.003	S5	12.2	0.929	0.044	0.6830	
1440 minute winter	S5	SW-1.004	S6	12.2	1.012	0.036	0.3170	
1440 minute winter	S6	SW-1.005	S7	12.2	1.030	0.036	0.4027	
1440 minute winter	S7	Flow through pond	S8	10.2	0.030	0.000	65.7062	
1440 minute winter	S8	SW-1.006	S9	8.1	0.384	0.185	0.1989	
1440 minute winter	S9	Hydro-Brake®	Outfall	8.1				422.6

Results for 100 year +10% A 15 minute summer. 1455 minute analysis at 1 minute timestep. Mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SIC-1	10	135.970	0.095	41.2	0.1890	0.0000	OK
15 minute summer	SIC-2	10	134.425	0.150	50.4	0.1011	0.0000	OK
15 minute summer	SIC-3	10	134.019	0.108	54.6	0.0515	0.0000	OK
15 minute summer	S1	10	133.422	0.197	80.8	0.5027	0.0000	OK
15 minute summer	S2	11	133.255	0.279	127.3	0.8200	0.0000	OK
15 minute summer	S3	11	133.184	0.342	169.3	0.9327	0.0000	OK
15 minute summer	SIC-4	11	135.842	0.142	21.3	0.1783	0.0000	OK
15 minute summer	SIC-5	10	136.185	0.085	21.3	0.1069	0.0000	OK
15 minute summer	SIC-6	10	135.329	0.114	51.8	0.0633	0.0000	OK
15 minute summer	S4	11	133.074	0.365	254.9	0.8748	0.0000	OK
15 minute summer	S5	11	132.654	0.329	255.8	0.5806	0.0000	OK
15 minute summer	S6	11	132.333	0.300	254.6	0.5296	0.0000	OK
15 minute summer	S7	23	131.477	0.365	254.0	0.0000	0.0000	OK
15 minute summer	S8	24	131.476	0.476	143.2	0.0000	0.0000	SURCHARGED
15 minute summer	S9	24	131.475	0.511	12.0	0.9037	0.0000	SURCHARGED
15 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SIC-1	PS-1.000	SIC-2	41.0	1.853	0.377	0.8154	
15 minute summer	SIC-2	PS-1.001	SIC-3	49.9	2.123	0.662	0.4090	
15 minute summer	SIC-3	PS-1.002	S1	54.3	3.252	0.336	0.0936	
15 minute summer	S1	SW-1.000	S2	80.0	1.377	0.469	1.4257	
15 minute summer	S2	SW-1.001	S3	126.1	1.093	0.553	3.1122	
15 minute summer	S3	SW-1.002	S4	169.5	1.270	0.743	3.5471	
15 minute summer	SIC-4	PS-2.000	SIC-6	20.5	1.272	1.030	0.5476	
15 minute summer	SIC-5	PS-3.000	SIC-6	21.1	2.125	0.560	0.1809	
15 minute summer	SIC-6	PS-2.001	S4	51.4	2.628	0.475	0.5874	
15 minute summer	S4	SW-1.003	S5	255.8	1.953	0.922	6.8011	
15 minute summer	S5	SW-1.004	S6	254.6	2.155	0.747	3.1056	
15 minute summer	S6	SW-1.005	S7	254.0	2.344	0.745	3.6832	
15 minute summer	S7	Flow through pond	S8	143.2	0.209	0.004	103.5114	
15 minute summer	S8	SW-1.006	S9	12.0	0.687	0.274	0.1989	
15 minute summer	S9	Hydro-Brake®	Outfall	8.1				113.3

Results for 100 year +10% A 15 minute winter. 1455 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SIC-1	10	135.967	0.092	38.6	0.1822	0.0000	OK
15 minute winter	SIC-2	10	134.418	0.143	47.2	0.0964	0.0000	OK
15 minute winter	SIC-3	10	134.014	0.103	50.9	0.0492	0.0000	OK
15 minute winter	S1	10	133.413	0.188	75.6	0.4793	0.0000	OK
15 minute winter	S2	11	133.239	0.263	119.1	0.7725	0.0000	OK
15 minute winter	S3	11	133.163	0.321	158.2	0.8768	0.0000	OK
15 minute winter	SIC-4	10	135.826	0.126	20.0	0.1583	0.0000	OK
15 minute winter	SIC-5	10	136.182	0.081	20.0	0.1026	0.0000	OK
15 minute winter	SIC-6	10	135.325	0.110	48.8	0.0609	0.0000	OK
15 minute winter	S4	11	133.053	0.344	238.3	0.8247	0.0000	OK
15 minute winter	S5	11	132.637	0.312	239.8	0.5521	0.0000	OK
15 minute winter	S6	11	132.319	0.286	238.6	0.5056	0.0000	OK
15 minute winter	S7	23	131.478	0.366	237.5	0.0000	0.0000	OK
15 minute winter	S8	22	131.478	0.478	146.3	0.0000	0.0000	SURCHARGED
15 minute winter	S9	22	131.478	0.514	9.9	0.9087	0.0000	SURCHARGED
15 minute winter	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SIC-1	PS-1.000	SIC-2	38.3	1.829	0.353	0.7740	
15 minute winter	SIC-2	PS-1.001	SIC-3	46.6	2.097	0.618	0.3868	
15 minute winter	SIC-3	PS-1.002	S1	50.7	3.206	0.313	0.0886	
15 minute winter	S1	SW-1.000	S2	74.7	1.379	0.438	1.3125	
15 minute winter	S2	SW-1.001	S3	117.8	1.089	0.517	2.9084	
15 minute winter	S3	SW-1.002	S4	158.5	1.263	0.695	3.3374	
15 minute winter	SIC-4	PS-2.000	SIC-6	19.4	1.256	0.972	0.5166	
15 minute winter	SIC-5	PS-3.000	SIC-6	19.8	2.094	0.525	0.1721	
15 minute winter	SIC-6	PS-2.001	S4	48.2	2.590	0.445	0.5596	
15 minute winter	S4	SW-1.003	S5	239.8	1.937	0.864	6.4312	
15 minute winter	S5	SW-1.004	S6	238.6	2.131	0.700	2.9429	
15 minute winter	S6	SW-1.005	S7	237.5	2.314	0.697	3.4900	
15 minute winter	S7	Flow through pond	S8	146.3	0.220	0.004	103.6895	
15 minute winter	S8	SW-1.006	S9	9.9	0.690	0.225	0.1989	
15 minute winter	S9	Hydro-Brake®	Outfall	8.1				113.4

Results for 100 year +10% A 30 minute summer. 1470 minute analysis at 1 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	SIC-1	18	135.968	0.093	39.1	0.1842	0.0000	OK
30 minute summer	SIC-2	18	134.421	0.146	48.1	0.0983	0.0000	OK
30 minute summer	SIC-3	18	134.016	0.105	52.6	0.0504	0.0000	OK
30 minute summer	S1	18	133.417	0.192	77.7	0.4904	0.0000	OK
30 minute summer	S2	18	133.247	0.271	122.6	0.7968	0.0000	OK
30 minute summer	S3	18	133.171	0.329	164.2	0.8985	0.0000	OK
30 minute summer	SIC-4	18	135.832	0.132	20.2	0.1657	0.0000	OK
30 minute summer	SIC-5	18	136.182	0.082	20.2	0.1037	0.0000	OK
30 minute summer	SIC-6	18	135.327	0.112	50.1	0.0621	0.0000	OK
30 minute summer	S4	18	133.060	0.351	246.5	0.8420	0.0000	OK
30 minute summer	S5	19	132.643	0.318	243.9	0.5626	0.0000	OK
30 minute summer	S6	19	132.327	0.294	245.8	0.5190	0.0000	OK
30 minute summer	S7	37	131.593	0.481	246.2	0.0000	0.0000	OK
30 minute summer	S8	38	131.593	0.593	135.0	0.0000	0.0000	SURCHARGED
30 minute summer	S9	38	131.592	0.628	9.9	1.1098	0.0000	SURCHARGED
30 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SIC-1	PS-1.000	SIC-2	39.1	1.837	0.360	0.7892	
30 minute summer	SIC-2	PS-1.001	SIC-3	48.1	2.112	0.639	0.3967	
30 minute summer	SIC-3	PS-1.002	S1	52.6	3.233	0.325	0.0912	
30 minute summer	S1	SW-1.000	S2	77.7	1.383	0.456	1.3754	
30 minute summer	S2	SW-1.001	S3	122.0	1.089	0.535	3.0002	
30 minute summer	S3	SW-1.002	S4	162.4	1.266	0.712	3.4159	
30 minute summer	SIC-4	PS-2.000	SIC-6	20.0	1.251	1.005	0.5315	
30 minute summer	SIC-5	PS-3.000	SIC-6	20.2	2.106	0.536	0.1746	
30 minute summer	SIC-6	PS-2.001	S4	50.0	2.612	0.462	0.5749	
30 minute summer	S4	SW-1.003	S5	243.9	1.942	0.879	6.5251	
30 minute summer	S5	SW-1.004	S6	245.8	2.142	0.721	3.0178	
30 minute summer	S6	SW-1.005	S7	246.2	2.323	0.722	3.6029	
30 minute summer	S7	Flow through pond	S8	135.0	0.177	0.003	141.3516	
30 minute summer	S8	SW-1.006	S9	9.9	0.614	0.224	0.1989	
30 minute summer	S9	Hydro-Brake®	Outfall	8.1				157.1

Results for 100 year +10% A 30 minute winter. 1470 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	SIC-1	18	135.958	0.083	31.5	0.1638	0.0000	OK
30 minute winter	SIC-2	18	134.402	0.127	38.8	0.0853	0.0000	OK
30 minute winter	SIC-3	18	134.003	0.092	42.4	0.0439	0.0000	OK
30 minute winter	S1	18	133.392	0.167	62.7	0.4260	0.0000	OK
30 minute winter	S2	18	133.207	0.231	99.0	0.6782	0.0000	OK
30 minute winter	S3	18	133.121	0.279	132.8	0.7609	0.0000	OK
30 minute winter	SIC-4	18	135.807	0.107	16.3	0.1349	0.0000	OK
30 minute winter	SIC-5	18	136.172	0.072	16.3	0.0908	0.0000	OK
30 minute winter	SIC-6	18	135.314	0.099	40.6	0.0548	0.0000	OK
30 minute winter	S4	18	133.008	0.299	200.3	0.7166	0.0000	OK
30 minute winter	S5	19	132.599	0.274	199.2	0.4844	0.0000	OK
30 minute winter	S6	19	132.289	0.256	200.0	0.4517	0.0000	OK
30 minute winter	S7	38	131.594	0.482	200.3	0.0000	0.0000	OK
30 minute winter	S8	36	131.594	0.594	120.2	0.0000	0.0000	SURCHARGED
30 minute winter	S9	36	131.593	0.629	9.5	1.1122	0.0000	SURCHARGED
30 minute winter	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SIC-1	PS-1.000	SIC-2	31.5	1.748	0.290	0.6696	
30 minute winter	SIC-2	PS-1.001	SIC-3	38.8	2.031	0.515	0.3336	
30 minute winter	SIC-3	PS-1.002	S1	42.4	3.089	0.262	0.0770	
30 minute winter	S1	SW-1.000	S2	62.7	1.385	0.368	1.0828	
30 minute winter	S2	SW-1.001	S3	98.7	1.068	0.433	2.4764	
30 minute winter	S3	SW-1.002	S4	132.2	1.234	0.580	2.8562	
30 minute winter	SIC-4	PS-2.000	SIC-6	16.3	1.236	0.817	0.4302	
30 minute winter	SIC-5	PS-3.000	SIC-6	16.3	2.003	0.432	0.1481	
30 minute winter	SIC-6	PS-2.001	S4	40.5	2.481	0.374	0.4902	
30 minute winter	S4	SW-1.003	S5	199.2	1.878	0.718	5.5162	
30 minute winter	S5	SW-1.004	S6	200.0	2.062	0.587	2.5517	
30 minute winter	S6	SW-1.005	S7	200.3	2.223	0.588	3.0638	
30 minute winter	S7	Flow through pond	S8	120.2	0.167	0.003	141.5993	
30 minute winter	S8	SW-1.006	S9	9.5	0.672	0.217	0.1989	
30 minute winter	S9	Hydro-Brake®	Outfall	8.1				157.1

Results for 100 year +10% A 60 minute summer. 1500 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	SIC-1	33	135.957	0.082	30.8	0.1619	0.0000	OK
60 minute summer	SIC-2	33	134.400	0.125	37.9	0.0841	0.0000	OK
60 minute summer	SIC-3	33	134.002	0.091	41.4	0.0433	0.0000	OK
60 minute summer	S1	33	133.390	0.165	61.2	0.4199	0.0000	OK
60 minute summer	S2	33	133.203	0.227	96.6	0.6669	0.0000	OK
60 minute summer	S3	33	133.116	0.274	129.7	0.7480	0.0000	OK
60 minute summer	SIC-4	33	135.805	0.105	15.9	0.1323	0.0000	OK
60 minute summer	SIC-5	33	136.171	0.071	15.9	0.0895	0.0000	OK
60 minute summer	SIC-6	33	135.313	0.098	39.6	0.0540	0.0000	OK
60 minute summer	S4	33	133.003	0.294	195.6	0.7045	0.0000	OK
60 minute summer	S5	34	132.595	0.270	194.5	0.4766	0.0000	OK
60 minute summer	S6	34	132.285	0.252	195.3	0.4448	0.0000	OK
60 minute summer	S7	66	131.704	0.592	195.6	0.0000	0.0000	OK
60 minute summer	S8	66	131.704	0.704	104.6	0.0000	0.0000	SURCHARGED
60 minute summer	S9	66	131.703	0.739	9.2	1.3051	0.0000	SURCHARGED
60 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SIC-1	PS-1.000	SIC-2	30.8	1.739	0.284	0.6580	
60 minute summer	SIC-2	PS-1.001	SIC-3	37.9	2.022	0.503	0.3274	
60 minute summer	SIC-3	PS-1.002	S1	41.4	3.072	0.256	0.0755	
60 minute summer	S1	SW-1.000	S2	61.2	1.379	0.359	1.0603	
60 minute summer	S2	SW-1.001	S3	96.4	1.065	0.423	2.4258	
60 minute summer	S3	SW-1.002	S4	129.1	1.229	0.566	2.8002	
60 minute summer	SIC-4	PS-2.000	SIC-6	15.9	1.231	0.797	0.4214	
60 minute summer	SIC-5	PS-3.000	SIC-6	15.9	1.991	0.422	0.1454	
60 minute summer	SIC-6	PS-2.001	S4	39.5	2.466	0.365	0.4812	
60 minute summer	S4	SW-1.003	S5	194.5	1.870	0.701	5.4105	
60 minute summer	S5	SW-1.004	S6	195.3	2.052	0.573	2.5035	
60 minute summer	S6	SW-1.005	S7	195.6	2.211	0.574	3.0077	
60 minute summer	S7	Flow through pond	S8	104.6	0.149	0.003	180.8316	
60 minute summer	S8	SW-1.006	S9	9.2	0.576	0.209	0.1989	
60 minute summer	S9	Hydro-Brake®	Outfall	8.1				208.2

Results for 100 year +10% A 60 minute winter. 1500 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	SIC-1	33	135.944	0.069	22.3	0.1367	0.0000	OK
60 minute winter	SIC-2	33	134.378	0.103	27.4	0.0692	0.0000	OK
60 minute winter	SIC-3	33	133.986	0.075	30.0	0.0356	0.0000	OK
60 minute winter	S1	33	133.362	0.137	44.3	0.3490	0.0000	OK
60 minute winter	S2	33	133.160	0.184	69.9	0.5404	0.0000	OK
60 minute winter	S3	33	133.063	0.220	93.9	0.6020	0.0000	OK
60 minute winter	SIC-4	33	135.784	0.084	11.5	0.1058	0.0000	OK
60 minute winter	SIC-5	33	136.159	0.059	11.5	0.0742	0.0000	OK
60 minute winter	SIC-6	33	135.296	0.081	28.6	0.0450	0.0000	OK
60 minute winter	S4	33	132.947	0.238	141.8	0.5703	0.0000	OK
60 minute winter	S5	34	132.544	0.219	141.5	0.3877	0.0000	OK
60 minute winter	S6	34	132.240	0.207	141.8	0.3658	0.0000	OK
60 minute winter	S7	65	131.706	0.594	141.8	0.0000	0.0000	OK
60 minute winter	S8	65	131.706	0.706	79.7	0.0000	0.0000	SURCHARGED
60 minute winter	S9	66	131.704	0.740	8.9	1.3082	0.0000	SURCHARGED
60 minute winter	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SIC-1	PS-1.000	SIC-2	22.3	1.607	0.205	0.5164	
60 minute winter	SIC-2	PS-1.001	SIC-3	27.4	1.888	0.364	0.2540	
60 minute winter	SIC-3	PS-1.002	S1	30.0	2.856	0.185	0.0589	
60 minute winter	S1	SW-1.000	S2	44.3	1.271	0.260	0.8331	
60 minute winter	S2	SW-1.001	S3	69.8	1.013	0.306	1.8493	
60 minute winter	S3	SW-1.002	S4	93.7	1.158	0.411	2.1560	
60 minute winter	SIC-4	PS-2.000	SIC-6	11.5	1.153	0.577	0.3260	
60 minute winter	SIC-5	PS-3.000	SIC-6	11.5	1.835	0.305	0.1141	
60 minute winter	SIC-6	PS-2.001	S4	28.6	2.268	0.264	0.3782	
60 minute winter	S4	SW-1.003	S5	141.5	1.754	0.510	4.1963	
60 minute winter	S5	SW-1.004	S6	141.8	1.918	0.416	1.9445	
60 minute winter	S6	SW-1.005	S7	141.8	2.047	0.416	2.3559	
60 minute winter	S7	Flow through pond	S8	79.7	0.156	0.002	181.4986	
60 minute winter	S8	SW-1.006	S9	8.9	0.587	0.202	0.1989	
60 minute winter	S9	Hydro-Brake®	Outfall	8.1				208.4

Results for 100 year +10% A 120 minute summer. 1560 minute analysis at 2 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	SIC-1	64	135.942	0.067	21.1	0.1328	0.0000	OK
120 minute summer	SIC-2	64	134.374	0.099	25.9	0.0670	0.0000	OK
120 minute summer	SIC-3	64	133.983	0.072	28.3	0.0344	0.0000	OK
120 minute summer	S1	64	133.358	0.133	41.9	0.3383	0.0000	OK
120 minute summer	S2	64	133.154	0.178	66.1	0.5223	0.0000	OK
120 minute summer	S3	64	133.055	0.213	88.9	0.5817	0.0000	OK
120 minute summer	SIC-4	64	135.781	0.081	10.9	0.1023	0.0000	OK
120 minute summer	SIC-5	64	136.157	0.057	10.9	0.0720	0.0000	OK
120 minute summer	SIC-6	64	135.294	0.079	27.1	0.0437	0.0000	OK
120 minute summer	S4	64	132.939	0.230	134.4	0.5520	0.0000	OK
120 minute summer	S5	64	132.537	0.212	134.4	0.3751	0.0000	OK
120 minute summer	S6	64	132.233	0.200	134.3	0.3540	0.0000	OK
120 minute summer	S7	126	131.792	0.679	133.9	0.0000	0.0000	OK
120 minute summer	S8	126	131.792	0.791	72.8	0.0000	0.0000	SURCHARGED
120 minute summer	S9	126	131.790	0.826	8.7	1.4596	0.0000	SURCHARGED
120 minute summer	Outfall	2	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SIC-1	PS-1.000	SIC-2	21.1	1.586	0.194	0.4956	
120 minute summer	SIC-2	PS-1.001	SIC-3	25.9	1.866	0.344	0.2430	
120 minute summer	SIC-3	PS-1.002	S1	28.3	2.818	0.175	0.0563	
120 minute summer	S1	SW-1.000	S2	41.9	1.253	0.246	0.7996	
120 minute summer	S2	SW-1.001	S3	66.1	1.002	0.290	1.7684	
120 minute summer	S3	SW-1.002	S4	88.9	1.145	0.390	2.0664	
120 minute summer	SIC-4	PS-2.000	SIC-6	10.9	1.139	0.548	0.3129	
120 minute summer	SIC-5	PS-3.000	SIC-6	10.9	1.810	0.289	0.1096	
120 minute summer	SIC-6	PS-2.001	S4	27.1	2.236	0.250	0.3637	
120 minute summer	S4	SW-1.003	S5	134.4	1.734	0.484	4.0303	
120 minute summer	S5	SW-1.004	S6	134.3	1.895	0.394	1.8637	
120 minute summer	S6	SW-1.005	S7	133.9	2.016	0.393	2.2581	
120 minute summer	S7	Flow through pond	S8	72.8	0.104	0.002	214.5069	
120 minute summer	S8	SW-1.006	S9	8.7	0.517	0.197	0.1989	
120 minute summer	S9	Hydro-Brake®	Outfall	8.1				267.2

Results for 100 year +10% A 120 minute winter. 1560 minute analysis at 2 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	SIC-1	64	135.930	0.055	14.5	0.1098	0.0000	OK
120 minute winter	SIC-2	64	134.356	0.081	17.8	0.0544	0.0000	OK
120 minute winter	SIC-3	64	133.969	0.058	19.5	0.0278	0.0000	OK
120 minute winter	S1	64	133.333	0.108	28.8	0.2758	0.0000	OK
120 minute winter	S2	64	133.119	0.143	45.5	0.4195	0.0000	OK
120 minute winter	S3	64	133.012	0.170	61.2	0.4640	0.0000	OK
120 minute winter	SIC-4	64	135.765	0.065	7.5	0.0819	0.0000	OK
120 minute winter	SIC-5	64	136.147	0.047	7.5	0.0588	0.0000	OK
120 minute winter	SIC-6	64	135.280	0.065	18.7	0.0358	0.0000	OK
120 minute winter	S4	64	132.894	0.185	92.6	0.4436	0.0000	OK
120 minute winter	S5	64	132.495	0.170	92.6	0.3009	0.0000	OK
120 minute winter	S6	64	132.196	0.163	92.6	0.2873	0.0000	OK
120 minute winter	S7	124	131.795	0.683	92.5	0.0000	0.0000	OK
120 minute winter	S8	124	131.795	0.795	51.3	0.0000	0.0000	SURCHARGED
120 minute winter	S9	124	131.793	0.829	8.5	1.4654	0.0000	SURCHARGED
120 minute winter	Outfall	2	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SIC-1	PS-1.000	SIC-2	14.5	1.435	0.133	0.3765	
120 minute winter	SIC-2	PS-1.001	SIC-3	17.8	1.711	0.236	0.1825	
120 minute winter	SIC-3	PS-1.002	S1	19.5	2.575	0.120	0.0425	
120 minute winter	S1	SW-1.000	S2	28.8	1.135	0.169	0.6067	
120 minute winter	S2	SW-1.001	S3	45.5	0.931	0.200	1.3115	
120 minute winter	S3	SW-1.002	S4	61.2	1.055	0.268	1.5440	
120 minute winter	SIC-4	PS-2.000	SIC-6	7.5	1.039	0.377	0.2361	
120 minute winter	SIC-5	PS-3.000	SIC-6	7.5	1.638	0.199	0.0834	
120 minute winter	SIC-6	PS-2.001	S4	18.7	2.023	0.173	0.2774	
120 minute winter	S4	SW-1.003	S5	92.6	1.594	0.334	3.0221	
120 minute winter	S5	SW-1.004	S6	92.6	1.738	0.272	1.4007	
120 minute winter	S6	SW-1.005	S7	92.5	1.832	0.271	1.7162	
120 minute winter	S7	Flow through pond	S8	51.3	0.105	0.001	215.8142	
120 minute winter	S8	SW-1.006	S9	8.5	0.517	0.193	0.1989	
120 minute winter	S9	Hydro-Brake®	Outfall	8.1				267.4

Results for 100 year +10% A 180 minute summer. 1620 minute analysis at 4 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	SIC-1	96	135.933	0.058	16.0	0.1154	0.0000	OK
180 minute summer	SIC-2	96	134.360	0.085	19.7	0.0575	0.0000	OK
180 minute summer	SIC-3	96	133.973	0.062	21.5	0.0294	0.0000	OK
180 minute summer	S1	96	133.339	0.114	31.8	0.2909	0.0000	OK
180 minute summer	S2	96	133.127	0.151	50.2	0.4438	0.0000	OK
180 minute summer	S3	96	133.022	0.180	67.5	0.4917	0.0000	OK
180 minute summer	SIC-4	96	135.769	0.069	8.3	0.0869	0.0000	OK
180 minute summer	SIC-5	96	136.149	0.049	8.3	0.0620	0.0000	OK
180 minute summer	SIC-6	96	135.283	0.068	20.7	0.0378	0.0000	OK
180 minute summer	S4	96	132.905	0.196	102.2	0.4692	0.0000	OK
180 minute summer	S5	96	132.505	0.180	102.2	0.3186	0.0000	OK
180 minute summer	S6	96	132.205	0.172	102.2	0.3035	0.0000	OK
180 minute summer	S7	184	131.821	0.709	102.2	0.0000	0.0000	OK
180 minute summer	S8	184	131.821	0.821	56.5	0.0000	0.0000	SURCHARGED
180 minute summer	S9	184	131.820	0.856	8.5	1.5121	0.0000	SURCHARGED
180 minute summer	Outfall	4	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SIC-1	PS-1.000	SIC-2	16.0	1.473	0.147	0.4051	
180 minute summer	SIC-2	PS-1.001	SIC-3	19.7	1.754	0.262	0.1969	
180 minute summer	SIC-3	PS-1.002	S1	21.5	2.637	0.133	0.0457	
180 minute summer	S1	SW-1.000	S2	31.8	1.165	0.186	0.6524	
180 minute summer	S2	SW-1.001	S3	50.2	0.950	0.220	1.4174	
180 minute summer	S3	SW-1.002	S4	67.5	1.078	0.296	1.6659	
180 minute summer	SIC-4	PS-2.000	SIC-6	8.3	1.066	0.417	0.2546	
180 minute summer	SIC-5	PS-3.000	SIC-6	8.3	1.683	0.220	0.0898	
180 minute summer	SIC-6	PS-2.001	S4	20.7	2.079	0.191	0.2987	
180 minute summer	S4	SW-1.003	S5	102.2	1.631	0.368	3.2593	
180 minute summer	S5	SW-1.004	S6	102.2	1.780	0.300	1.5107	
180 minute summer	S6	SW-1.005	S7	102.2	1.882	0.300	1.8467	
180 minute summer	S7	Flow through pond	S8	56.5	0.082	0.001	226.3799	
180 minute summer	S8	SW-1.006	S9	8.5	0.410	0.192	0.1989	
180 minute summer	S9	Hydro-Brake®	Outfall	8.1				304.2

Results for 100 year +10% A 180 minute winter. 1620 minute analysis at 4 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	SIC-1	96	135.923	0.048	11.0	0.0956	0.0000	OK
180 minute winter	SIC-2	96	134.345	0.070	13.5	0.0469	0.0000	OK
180 minute winter	SIC-3	96	133.961	0.050	14.8	0.0239	0.0000	OK
180 minute winter	S1	96	133.319	0.094	21.9	0.2386	0.0000	OK
180 minute winter	S2	96	133.098	0.122	34.6	0.3599	0.0000	OK
180 minute winter	S3	96	132.987	0.145	46.5	0.3965	0.0000	OK
180 minute winter	SIC-4	96	135.756	0.056	5.7	0.0703	0.0000	OK
180 minute winter	SIC-5	96	136.140	0.040	5.7	0.0508	0.0000	OK
180 minute winter	SIC-6	96	135.271	0.056	14.2	0.0310	0.0000	OK
180 minute winter	S4	96	132.868	0.159	70.3	0.3807	0.0000	OK
180 minute winter	S5	96	132.471	0.146	70.3	0.2578	0.0000	OK
180 minute winter	S6	96	132.173	0.140	70.3	0.2478	0.0000	OK
180 minute winter	S7	180	131.827	0.715	70.3	0.0000	0.0000	OK
180 minute winter	S8	180	131.827	0.827	39.9	0.0000	0.0000	SURCHARGED
180 minute winter	S9	180	131.825	0.861	8.4	1.5219	0.0000	SURCHARGED
180 minute winter	Outfall	4	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SIC-1	PS-1.000	SIC-2	11.0	1.332	0.101	0.3080	
180 minute winter	SIC-2	PS-1.001	SIC-3	13.5	1.599	0.179	0.1482	
180 minute winter	SIC-3	PS-1.002	S1	14.8	2.401	0.091	0.0345	
180 minute winter	S1	SW-1.000	S2	21.9	1.053	0.128	0.4971	
180 minute winter	S2	SW-1.001	S3	34.6	0.877	0.152	1.0586	
180 minute winter	S3	SW-1.002	S4	46.5	0.989	0.204	1.2513	
180 minute winter	SIC-4	PS-2.000	SIC-6	5.7	0.967	0.286	0.1928	
180 minute winter	SIC-5	PS-3.000	SIC-6	5.7	1.519	0.151	0.0683	
180 minute winter	SIC-6	PS-2.001	S4	14.2	1.873	0.131	0.2275	
180 minute winter	S4	SW-1.003	S5	70.3	1.491	0.253	2.4531	
180 minute winter	S5	SW-1.004	S6	70.3	1.624	0.206	1.1384	
180 minute winter	S6	SW-1.005	S7	70.3	1.702	0.206	1.4046	
180 minute winter	S7	Flow through pond	S8	39.9	0.108	0.001	228.6161	
180 minute winter	S8	SW-1.006	S9	8.4	0.402	0.190	0.1989	
180 minute winter	S9	Hydro-Brake®	Outfall	8.1				304.7

Results for 100 year +10% A 240 minute summer. 1680 minute analysis at 4 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SIC-1	124	135.929	0.054	13.7	0.1066	0.0000	OK
240 minute summer	SIC-2	124	134.353	0.078	16.8	0.0526	0.0000	OK
240 minute summer	SIC-3	124	133.967	0.056	18.3	0.0268	0.0000	OK
240 minute summer	S1	124	133.329	0.104	27.0	0.2662	0.0000	OK
240 minute summer	S2	124	133.113	0.137	42.6	0.4038	0.0000	OK
240 minute summer	S3	124	133.005	0.163	57.2	0.4451	0.0000	OK
240 minute summer	SIC-4	124	135.763	0.063	7.1	0.0791	0.0000	OK
240 minute summer	SIC-5	124	136.145	0.045	7.1	0.0570	0.0000	OK
240 minute summer	SIC-6	124	135.278	0.063	17.6	0.0346	0.0000	OK
240 minute summer	S4	124	132.886	0.177	86.4	0.4258	0.0000	OK
240 minute summer	S5	124	132.488	0.163	85.8	0.2876	0.0000	OK
240 minute summer	S6	124	132.188	0.155	85.3	0.2743	0.0000	OK
240 minute summer	S7	240	131.829	0.717	84.8	0.0000	0.0000	OK
240 minute summer	S8	240	131.829	0.829	47.5	0.0000	0.0000	SURCHARGED
240 minute summer	S9	240	131.827	0.863	8.4	1.5255	0.0000	SURCHARGED
240 minute summer	Outfall	4	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SIC-1	PS-1.000	SIC-2	13.7	1.415	0.126	0.3598	
240 minute summer	SIC-2	PS-1.001	SIC-3	16.7	1.684	0.222	0.1738	
240 minute summer	SIC-3	PS-1.002	S1	18.2	2.532	0.113	0.0404	
240 minute summer	S1	SW-1.000	S2	26.9	1.113	0.158	0.5775	
240 minute summer	S2	SW-1.001	S3	42.4	0.917	0.186	1.2415	
240 minute summer	S3	SW-1.002	S4	56.8	1.035	0.249	1.4606	
240 minute summer	SIC-4	PS-2.000	SIC-6	7.0	1.021	0.353	0.2253	
240 minute summer	SIC-5	PS-3.000	SIC-6	7.1	1.611	0.188	0.0799	
240 minute summer	SIC-6	PS-2.001	S4	17.5	1.986	0.162	0.2649	
240 minute summer	S4	SW-1.003	S5	85.8	1.565	0.309	2.8522	
240 minute summer	S5	SW-1.004	S6	85.3	1.705	0.250	1.3165	
240 minute summer	S6	SW-1.005	S7	84.8	1.788	0.249	1.6119	
240 minute summer	S7	Flow through pond	S8	47.5	0.073	0.001	229.4581	
240 minute summer	S8	SW-1.006	S9	8.4	0.442	0.190	0.1989	
240 minute summer	S9	Hydro-Brake®	Outfall	8.1				331.5

Results for 100 year +10% A 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	SIC-1	124	135.919	0.044	9.1	0.0871	0.0000	OK
240 minute winter	SIC-2	124	134.338	0.063	11.2	0.0426	0.0000	OK
240 minute winter	SIC-3	124	133.956	0.045	12.2	0.0215	0.0000	OK
240 minute winter	S1	124	133.310	0.085	18.1	0.2158	0.0000	OK
240 minute winter	S2	124	133.086	0.110	28.6	0.3242	0.0000	OK
240 minute winter	S3	124	132.972	0.130	38.3	0.3558	0.0000	OK
240 minute winter	SIC-4	124	135.750	0.050	4.7	0.0633	0.0000	OK
240 minute winter	SIC-5	124	136.137	0.037	4.7	0.0460	0.0000	OK
240 minute winter	SIC-6	124	135.266	0.051	11.7	0.0281	0.0000	OK
240 minute winter	S4	124	132.852	0.143	57.8	0.3428	0.0000	OK
240 minute winter	S5	124	132.456	0.131	57.8	0.2313	0.0000	OK
240 minute winter	S6	124	132.159	0.126	57.7	0.2231	0.0000	OK
240 minute winter	S7	236	131.836	0.724	57.6	0.0000	0.0000	OK
240 minute winter	S8	236	131.836	0.836	33.4	0.0000	0.0000	SURCHARGED
240 minute winter	S9	236	131.834	0.870	8.3	1.5377	0.0000	SURCHARGED
240 minute winter	Outfall	4	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SIC-1	PS-1.000	SIC-2	9.1	1.261	0.084	0.2690	
240 minute winter	SIC-2	PS-1.001	SIC-3	11.2	1.528	0.149	0.1287	
240 minute winter	SIC-3	PS-1.002	S1	12.2	2.282	0.075	0.0299	
240 minute winter	S1	SW-1.000	S2	18.1	0.999	0.106	0.4322	
240 minute winter	S2	SW-1.001	S3	28.5	0.840	0.125	0.9118	
240 minute winter	S3	SW-1.002	S4	38.3	0.943	0.168	1.0801	
240 minute winter	SIC-4	PS-2.000	SIC-6	4.7	0.916	0.235	0.1673	
240 minute winter	SIC-5	PS-3.000	SIC-6	4.7	1.438	0.125	0.0594	
240 minute winter	SIC-6	PS-2.001	S4	11.7	1.773	0.108	0.1975	
240 minute winter	S4	SW-1.003	S5	57.8	1.419	0.208	2.1176	
240 minute winter	S5	SW-1.004	S6	57.7	1.546	0.169	0.9816	
240 minute winter	S6	SW-1.005	S7	57.6	1.611	0.169	1.2160	
240 minute winter	S7	Flow through pond	S8	33.4	0.071	0.001	232.3288	
240 minute winter	S8	SW-1.006	S9	8.3	0.410	0.189	0.1989	
240 minute winter	S9	Hydro-Brake®	Outfall	8.1				331.9

Results for 100 year +10% A 360 minute summer. 10080 minute analysis at 8 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	SIC-1	184	135.922	0.047	10.5	0.0933	0.0000	OK
360 minute summer	SIC-2	184	134.343	0.068	12.9	0.0457	0.0000	OK
360 minute summer	SIC-3	184	133.960	0.048	14.0	0.0232	0.0000	OK
360 minute summer	S1	184	133.316	0.091	20.7	0.2310	0.0000	OK
360 minute summer	S2	184	133.094	0.118	32.5	0.3476	0.0000	OK
360 minute summer	S3	184	132.982	0.140	43.7	0.3819	0.0000	OK
360 minute summer	SIC-4	184	135.754	0.054	5.4	0.0680	0.0000	OK
360 minute summer	SIC-5	184	136.139	0.039	5.4	0.0494	0.0000	OK
360 minute summer	SIC-6	184	135.269	0.054	13.3	0.0300	0.0000	OK
360 minute summer	S4	184	132.862	0.153	65.9	0.3669	0.0000	OK
360 minute summer	S5	184	132.465	0.140	65.4	0.2472	0.0000	OK
360 minute summer	S6	184	132.167	0.134	65.0	0.2372	0.0000	OK
360 minute summer	S7	304	131.820	0.708	64.6	0.0000	0.0000	OK
360 minute summer	S8	304	131.820	0.820	37.1	0.0000	0.0000	SURCHARGED
360 minute summer	S9	304	131.819	0.855	8.3	1.5107	0.0000	SURCHARGED
360 minute summer	Outfall	8	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SIC-1	PS-1.000	SIC-2	10.5	1.314	0.096	0.2969	
360 minute summer	SIC-2	PS-1.001	SIC-3	12.8	1.579	0.170	0.1424	
360 minute summer	SIC-3	PS-1.002	S1	14.0	2.365	0.086	0.0331	
360 minute summer	S1	SW-1.000	S2	20.5	1.034	0.120	0.4747	
360 minute summer	S2	SW-1.001	S3	32.4	0.864	0.142	1.0061	
360 minute summer	S3	SW-1.002	S4	43.4	0.971	0.190	1.1887	
360 minute summer	SIC-4	PS-2.000	SIC-6	5.4	0.950	0.269	0.1843	
360 minute summer	SIC-5	PS-3.000	SIC-6	5.4	1.494	0.143	0.0656	
360 minute summer	SIC-6	PS-2.001	S4	13.3	1.838	0.123	0.2168	
360 minute summer	S4	SW-1.003	S5	65.4	1.464	0.236	2.3241	
360 minute summer	S5	SW-1.004	S6	65.0	1.594	0.191	1.0728	
360 minute summer	S6	SW-1.005	S7	64.6	1.662	0.189	1.3217	
360 minute summer	S7	Flow through pond	S8	37.1	0.060	0.001	226.0635	
360 minute summer	S8	SW-1.006	S9	8.3	0.425	0.189	0.1989	
360 minute summer	S9	Hydro-Brake®	Outfall	8.1				369.7

Results for 100 year +10% A 360 minute winter. 10080 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	SIC-1	184	135.913	0.038	6.8	0.0755	0.0000	OK
360 minute winter	SIC-2	184	134.329	0.054	8.4	0.0367	0.0000	OK
360 minute winter	SIC-3	184	133.950	0.039	9.2	0.0185	0.0000	OK
360 minute winter	S1	184	133.298	0.073	13.6	0.1862	0.0000	OK
360 minute winter	S2	184	133.070	0.094	21.4	0.2773	0.0000	OK
360 minute winter	S3	184	132.953	0.111	28.7	0.3041	0.0000	OK
360 minute winter	SIC-4	184	135.743	0.043	3.5	0.0542	0.0000	OK
360 minute winter	SIC-5	184	136.131	0.031	3.5	0.0396	0.0000	OK
360 minute winter	SIC-6	184	135.259	0.044	8.7	0.0242	0.0000	OK
360 minute winter	S4	184	132.832	0.123	43.3	0.2942	0.0000	OK
360 minute winter	S5	184	132.437	0.112	43.2	0.1980	0.0000	OK
360 minute winter	S6	184	132.142	0.109	43.2	0.1921	0.0000	OK
360 minute winter	S7	336	131.822	0.710	43.1	0.0000	0.0000	OK
360 minute winter	S8	336	131.822	0.822	26.0	0.0000	0.0000	SURCHARGED
360 minute winter	S9	336	131.821	0.857	8.3	1.5141	0.0000	SURCHARGED
360 minute winter	Outfall	8	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SIC-1	PS-1.000	SIC-2	6.8	1.160	0.063	0.2185	
360 minute winter	SIC-2	PS-1.001	SIC-3	8.4	1.415	0.111	0.1041	
360 minute winter	SIC-3	PS-1.002	S1	9.2	2.115	0.057	0.0243	
360 minute winter	S1	SW-1.000	S2	13.6	0.922	0.079	0.3515	
360 minute winter	S2	SW-1.001	S3	21.3	0.784	0.094	0.7309	
360 minute winter	S3	SW-1.002	S4	28.7	0.878	0.126	0.8698	
360 minute winter	SIC-4	PS-2.000	SIC-6	3.5	0.845	0.175	0.1351	
360 minute winter	SIC-5	PS-3.000	SIC-6	3.5	1.323	0.093	0.0481	
360 minute winter	SIC-6	PS-2.001	S4	8.7	1.629	0.080	0.1600	
360 minute winter	S4	SW-1.003	S5	43.2	1.317	0.156	1.7072	
360 minute winter	S5	SW-1.004	S6	43.2	1.434	0.127	0.7917	
360 minute winter	S6	SW-1.005	S7	43.1	1.485	0.126	1.0545	
360 minute winter	S7	Flow through pond	S8	26.0	0.059	0.001	226.8439	
360 minute winter	S8	SW-1.006	S9	8.3	0.385	0.188	0.1989	
360 minute winter	S9	Hydro-Brake®	Outfall	8.1				370.9

Results for 100 year +10% A 480 minute summer. 1920 minute analysis at 8 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	SIC-1	248	135.917	0.042	8.3	0.0833	0.0000	OK
480 minute summer	SIC-2	248	134.335	0.060	10.2	0.0405	0.0000	OK
480 minute summer	SIC-3	248	133.954	0.043	11.2	0.0206	0.0000	OK
480 minute summer	S1	248	133.306	0.081	16.5	0.2059	0.0000	OK
480 minute summer	S2	248	133.081	0.105	26.0	0.3082	0.0000	OK
480 minute summer	S3	248	132.966	0.124	34.9	0.3380	0.0000	OK
480 minute summer	SIC-4	248	135.748	0.048	4.3	0.0605	0.0000	OK
480 minute summer	SIC-5	248	136.135	0.035	4.3	0.0440	0.0000	OK
480 minute summer	SIC-6	248	135.264	0.048	10.7	0.0269	0.0000	OK
480 minute summer	S4	248	132.845	0.136	52.8	0.3267	0.0000	OK
480 minute summer	S5	248	132.450	0.125	52.8	0.2204	0.0000	OK
480 minute summer	S6	248	132.154	0.121	52.8	0.2132	0.0000	OK
480 minute summer	S7	368	131.810	0.698	52.8	0.0000	0.0000	OK
480 minute summer	S8	368	131.810	0.810	30.9	0.0000	0.0000	SURCHARGED
480 minute summer	S9	368	131.809	0.845	8.3	1.4925	0.0000	SURCHARGED
480 minute summer	Outfall	8	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SIC-1	PS-1.000	SIC-2	8.3	1.231	0.076	0.2517	
480 minute summer	SIC-2	PS-1.001	SIC-3	10.2	1.489	0.135	0.1204	
480 minute summer	SIC-3	PS-1.002	S1	11.2	2.231	0.069	0.0281	
480 minute summer	S1	SW-1.000	S2	16.5	0.974	0.097	0.4048	
480 minute summer	S2	SW-1.001	S3	26.0	0.822	0.114	0.8490	
480 minute summer	S3	SW-1.002	S4	34.9	0.922	0.153	1.0081	
480 minute summer	SIC-4	PS-2.000	SIC-6	4.3	0.895	0.216	0.1571	
480 minute summer	SIC-5	PS-3.000	SIC-6	4.3	1.403	0.114	0.0558	
480 minute summer	SIC-6	PS-2.001	S4	10.7	1.730	0.099	0.1856	
480 minute summer	S4	SW-1.003	S5	52.8	1.387	0.190	1.9802	
480 minute summer	S5	SW-1.004	S6	52.8	1.511	0.155	0.9191	
480 minute summer	S6	SW-1.005	S7	52.8	1.573	0.155	1.1416	
480 minute summer	S7	Flow through pond	S8	30.9	0.042	0.001	221.9614	
480 minute summer	S8	SW-1.006	S9	8.3	0.442	0.188	0.1989	
480 minute summer	S9	Hydro-Brake®	Outfall	8.1				400.9

Results for 100 year +10% A 480 minute winter. 1920 minute analysis at 8 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	SIC-1	248	135.909	0.034	5.5	0.0682	0.0000	OK
480 minute winter	SIC-2	248	134.324	0.049	6.8	0.0330	0.0000	OK
480 minute winter	SIC-3	248	133.946	0.035	7.4	0.0166	0.0000	OK
480 minute winter	S1	248	133.291	0.065	10.9	0.1669	0.0000	OK
480 minute winter	S2	248	133.060	0.084	17.2	0.2478	0.0000	OK
480 minute winter	S3	248	132.941	0.099	23.1	0.2707	0.0000	OK
480 minute winter	SIC-4	240	135.738	0.038	2.8	0.0484	0.0000	OK
480 minute winter	SIC-5	240	136.128	0.028	2.8	0.0354	0.0000	OK
480 minute winter	SIC-6	240	135.254	0.039	7.0	0.0217	0.0000	OK
480 minute winter	S4	248	132.819	0.110	34.9	0.2636	0.0000	OK
480 minute winter	S5	248	132.425	0.100	34.9	0.1770	0.0000	OK
480 minute winter	S6	248	132.131	0.098	34.9	0.1724	0.0000	OK
480 minute winter	S7	384	131.808	0.696	34.9	0.0000	0.0000	OK
480 minute winter	S8	384	131.808	0.808	21.7	0.0000	0.0000	SURCHARGED
480 minute winter	S9	384	131.806	0.842	8.5	1.4879	0.0000	SURCHARGED
480 minute winter	Outfall	8	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SIC-1	PS-1.000	SIC-2	5.5	1.091	0.051	0.1881	
480 minute winter	SIC-2	PS-1.001	SIC-3	6.8	1.341	0.090	0.0891	
480 minute winter	SIC-3	PS-1.002	S1	7.4	1.997	0.046	0.0208	
480 minute winter	S1	SW-1.000	S2	10.9	0.866	0.064	0.3008	
480 minute winter	S2	SW-1.001	S3	17.2	0.744	0.075	0.6205	
480 minute winter	S3	SW-1.002	S4	23.1	0.829	0.101	0.7410	
480 minute winter	SIC-4	PS-2.000	SIC-6	2.8	0.794	0.141	0.1153	
480 minute winter	SIC-5	PS-3.000	SIC-6	2.8	1.240	0.074	0.0411	
480 minute winter	SIC-6	PS-2.001	S4	7.0	1.530	0.065	0.1373	
480 minute winter	S4	SW-1.003	S5	34.9	1.244	0.126	1.4589	
480 minute winter	S5	SW-1.004	S6	34.9	1.356	0.102	0.6771	
480 minute winter	S6	SW-1.005	S7	34.9	1.400	0.102	0.9524	
480 minute winter	S7	Flow through pond	S8	21.7	0.075	0.001	220.9189	
480 minute winter	S8	SW-1.006	S9	8.5	0.439	0.193	0.1989	
480 minute winter	S9	Hydro-Brake®	Outfall	8.1				402.1

Results for 100 year +10% A 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	SIC-1	315	135.913	0.038	6.8	0.0756	0.0000	OK
600 minute summer	SIC-2	315	134.330	0.054	8.4	0.0367	0.0000	OK
600 minute summer	SIC-3	315	133.950	0.039	9.2	0.0186	0.0000	OK
600 minute summer	S1	315	133.298	0.073	13.6	0.1865	0.0000	OK
600 minute summer	S2	315	133.070	0.094	21.4	0.2778	0.0000	OK
600 minute summer	S3	315	132.953	0.111	28.7	0.3041	0.0000	OK
600 minute summer	SIC-4	315	135.743	0.043	3.5	0.0543	0.0000	OK
600 minute summer	SIC-5	315	136.132	0.031	3.5	0.0396	0.0000	OK
600 minute summer	SIC-6	315	135.259	0.044	8.7	0.0242	0.0000	OK
600 minute summer	S4	315	132.832	0.123	43.3	0.2945	0.0000	OK
600 minute summer	S5	315	132.437	0.112	43.3	0.1983	0.0000	OK
600 minute summer	S6	315	132.142	0.109	43.3	0.1925	0.0000	OK
600 minute summer	S7	435	131.796	0.684	43.3	0.0000	0.0000	OK
600 minute summer	S8	435	131.796	0.796	26.0	0.0000	0.0000	SURCHARGED
600 minute summer	S9	435	131.795	0.831	8.2	1.4678	0.0000	SURCHARGED
600 minute summer	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SIC-1	PS-1.000	SIC-2	6.8	1.160	0.063	0.2187	
600 minute summer	SIC-2	PS-1.001	SIC-3	8.4	1.416	0.112	0.1043	
600 minute summer	SIC-3	PS-1.002	S1	9.2	2.117	0.057	0.0243	
600 minute summer	S1	SW-1.000	S2	13.6	0.923	0.080	0.3523	
600 minute summer	S2	SW-1.001	S3	21.4	0.785	0.094	0.7317	
600 minute summer	S3	SW-1.002	S4	28.7	0.878	0.126	0.8703	
600 minute summer	SIC-4	PS-2.000	SIC-6	3.5	0.846	0.176	0.1353	
600 minute summer	SIC-5	PS-3.000	SIC-6	3.5	1.323	0.093	0.0481	
600 minute summer	SIC-6	PS-2.001	S4	8.7	1.630	0.080	0.1602	
600 minute summer	S4	SW-1.003	S5	43.3	1.318	0.156	1.7100	
600 minute summer	S5	SW-1.004	S6	43.3	1.435	0.127	0.7938	
600 minute summer	S6	SW-1.005	S7	43.3	1.488	0.127	0.9897	
600 minute summer	S7	Flow through pond	S8	26.0	0.049	0.001	216.3715	
600 minute summer	S8	SW-1.006	S9	8.2	0.442	0.187	0.1989	
600 minute summer	S9	Hydro-Brake®	Outfall	8.1				425.4

Results for 100 year +10% A 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	SIC-1	315	135.907	0.032	4.6	0.0625	0.0000	OK
600 minute winter	SIC-2	315	134.320	0.045	5.7	0.0302	0.0000	OK
600 minute winter	SIC-3	315	133.943	0.032	6.2	0.0151	0.0000	OK
600 minute winter	S1	315	133.285	0.060	9.2	0.1532	0.0000	OK
600 minute winter	S2	315	133.053	0.077	14.5	0.2269	0.0000	OK
600 minute winter	S3	315	132.933	0.091	19.5	0.2474	0.0000	OK
600 minute winter	SIC-4	315	135.736	0.036	2.4	0.0447	0.0000	OK
600 minute winter	SIC-5	315	136.126	0.026	2.4	0.0328	0.0000	OK
600 minute winter	SIC-6	315	135.251	0.036	6.0	0.0201	0.0000	OK
600 minute winter	S4	315	132.810	0.101	29.6	0.2423	0.0000	OK
600 minute winter	S5	315	132.417	0.092	29.6	0.1625	0.0000	OK
600 minute winter	S6	315	132.123	0.090	29.6	0.1587	0.0000	OK
600 minute winter	S7	465	131.787	0.675	29.6	0.0000	0.0000	OK
600 minute winter	S8	465	131.787	0.787	19.0	0.0000	0.0000	SURCHARGED
600 minute winter	S9	465	131.785	0.821	8.2	1.4508	0.0000	SURCHARGED
600 minute winter	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SIC-1	PS-1.000	SIC-2	4.6	1.035	0.042	0.1659	
600 minute winter	SIC-2	PS-1.001	SIC-3	5.7	1.279	0.076	0.0784	
600 minute winter	SIC-3	PS-1.002	S1	6.2	1.901	0.038	0.0183	
600 minute winter	S1	SW-1.000	S2	9.2	0.826	0.054	0.2663	
600 minute winter	S2	SW-1.001	S3	14.5	0.713	0.064	0.5462	
600 minute winter	S3	SW-1.002	S4	19.5	0.792	0.086	0.6551	
600 minute winter	SIC-4	PS-2.000	SIC-6	2.4	0.760	0.121	0.1033	
600 minute winter	SIC-5	PS-3.000	SIC-6	2.4	1.186	0.064	0.0368	
600 minute winter	SIC-6	PS-2.001	S4	6.0	1.463	0.055	0.1230	
600 minute winter	S4	SW-1.003	S5	29.6	1.191	0.107	1.2933	
600 minute winter	S5	SW-1.004	S6	29.6	1.297	0.087	0.6004	
600 minute winter	S6	SW-1.005	S7	29.6	1.336	0.087	0.8010	
600 minute winter	S7	Flow through pond	S8	19.0	0.058	0.000	212.5329	
600 minute winter	S8	SW-1.006	S9	8.2	0.402	0.186	0.1989	
600 minute winter	S9	Hydro-Brake®	Outfall	8.1				425.1

Results for 100 year +10% A 720 minute summer. 2160 minute analysis at 15 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	SIC-1	375	135.911	0.036	6.1	0.0717	0.0000	OK
720 minute summer	SIC-2	375	134.326	0.051	7.5	0.0347	0.0000	OK
720 minute summer	SIC-3	375	133.948	0.037	8.2	0.0175	0.0000	OK
720 minute summer	S1	375	133.294	0.069	12.1	0.1758	0.0000	OK
720 minute summer	S2	375	133.065	0.089	19.1	0.2616	0.0000	OK
720 minute summer	S3	375	132.947	0.105	25.7	0.2866	0.0000	OK
720 minute summer	SIC-4	375	135.741	0.040	3.1	0.0510	0.0000	OK
720 minute summer	SIC-5	375	136.130	0.030	3.1	0.0373	0.0000	OK
720 minute summer	SIC-6	375	135.256	0.041	7.7	0.0228	0.0000	OK
720 minute summer	S4	375	132.825	0.116	38.7	0.2779	0.0000	OK
720 minute summer	S5	375	132.431	0.106	38.7	0.1869	0.0000	OK
720 minute summer	S6	375	132.136	0.103	38.7	0.1817	0.0000	OK
720 minute summer	S7	510	131.786	0.674	38.7	0.0000	0.0000	OK
720 minute summer	S8	510	131.786	0.786	23.7	0.0000	0.0000	SURCHARGED
720 minute summer	S9	510	131.785	0.821	8.2	1.4502	0.0000	SURCHARGED
720 minute summer	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SIC-1	PS-1.000	SIC-2	6.1	1.127	0.056	0.2020	
720 minute summer	SIC-2	PS-1.001	SIC-3	7.5	1.375	0.100	0.0959	
720 minute summer	SIC-3	PS-1.002	S1	8.2	2.053	0.051	0.0224	
720 minute summer	S1	SW-1.000	S2	12.1	0.892	0.071	0.3242	
720 minute summer	S2	SW-1.001	S3	19.1	0.763	0.084	0.6721	
720 minute summer	S3	SW-1.002	S4	25.7	0.854	0.113	0.8014	
720 minute summer	SIC-4	PS-2.000	SIC-6	3.1	0.817	0.156	0.1241	
720 minute summer	SIC-5	PS-3.000	SIC-6	3.1	1.278	0.082	0.0441	
720 minute summer	SIC-6	PS-2.001	S4	7.7	1.572	0.071	0.1469	
720 minute summer	S4	SW-1.003	S5	38.7	1.279	0.139	1.5743	
720 minute summer	S5	SW-1.004	S6	38.7	1.393	0.114	0.7307	
720 minute summer	S6	SW-1.005	S7	38.7	1.441	0.114	0.9129	
720 minute summer	S7	Flow through pond	S8	23.7	0.052	0.001	212.3961	
720 minute summer	S8	SW-1.006	S9	8.2	0.404	0.187	0.1989	
720 minute summer	S9	Hydro-Brake®	Outfall	8.1				447.9

Results for 100 year +10% A 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	SIC-1	375	135.905	0.030	4.1	0.0592	0.0000	OK
720 minute winter	SIC-2	375	134.317	0.042	5.0	0.0283	0.0000	OK
720 minute winter	SIC-3	375	133.941	0.030	5.5	0.0142	0.0000	OK
720 minute winter	S1	375	133.281	0.056	8.1	0.1438	0.0000	OK
720 minute winter	S2	375	133.048	0.072	12.8	0.2129	0.0000	OK
720 minute winter	S3	375	132.927	0.085	17.2	0.2319	0.0000	OK
720 minute winter	SIC-4	375	135.733	0.033	2.1	0.0418	0.0000	OK
720 minute winter	SIC-5	375	136.124	0.024	2.1	0.0307	0.0000	OK
720 minute winter	SIC-6	375	135.249	0.034	5.2	0.0188	0.0000	OK
720 minute winter	S4	375	132.804	0.095	26.0	0.2269	0.0000	OK
720 minute winter	S5	375	132.411	0.086	26.0	0.1521	0.0000	OK
720 minute winter	S6	375	132.117	0.084	26.0	0.1487	0.0000	OK
720 minute winter	S7	540	131.765	0.653	26.0	0.0000	0.0000	OK
720 minute winter	S8	540	131.765	0.765	17.2	0.0000	0.0000	SURCHARGED
720 minute winter	S9	540	131.763	0.799	8.2	1.4122	0.0000	SURCHARGED
720 minute winter	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SIC-1	PS-1.000	SIC-2	4.1	1.008	0.038	0.1517	
720 minute winter	SIC-2	PS-1.001	SIC-3	5.0	1.230	0.066	0.0715	
720 minute winter	SIC-3	PS-1.002	S1	5.5	1.839	0.034	0.0168	
720 minute winter	S1	SW-1.000	S2	8.1	0.796	0.048	0.2432	
720 minute winter	S2	SW-1.001	S3	12.8	0.691	0.056	0.4979	
720 minute winter	S3	SW-1.002	S4	17.2	0.768	0.075	0.5969	
720 minute winter	SIC-4	PS-2.000	SIC-6	2.1	0.732	0.106	0.0938	
720 minute winter	SIC-5	PS-3.000	SIC-6	2.1	1.141	0.056	0.0335	
720 minute winter	SIC-6	PS-2.001	S4	5.2	1.404	0.048	0.1111	
720 minute winter	S4	SW-1.003	S5	26.0	1.150	0.094	1.1772	
720 minute winter	S5	SW-1.004	S6	26.0	1.251	0.076	0.5466	
720 minute winter	S6	SW-1.005	S7	26.0	1.285	0.076	0.6878	
720 minute winter	S7	Flow through pond	S8	17.2	0.028	0.000	203.8832	
720 minute winter	S8	SW-1.006	S9	8.2	0.434	0.186	0.1989	
720 minute winter	S9	Hydro-Brake®	Outfall	8.1				448.4

Results for 100 year +10% A 960 minute summer. 2400 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	SIC-1	495	135.908	0.033	5.0	0.0651	0.0000	OK
960 minute summer	SIC-2	495	134.321	0.046	6.1	0.0312	0.0000	OK
960 minute summer	SIC-3	495	133.944	0.033	6.7	0.0157	0.0000	OK
960 minute summer	S1	495	133.287	0.062	9.9	0.1589	0.0000	OK
960 minute summer	S2	495	133.056	0.080	15.6	0.2356	0.0000	OK
960 minute summer	S3	495	132.936	0.094	21.0	0.2573	0.0000	OK
960 minute summer	SIC-4	495	135.737	0.037	2.6	0.0466	0.0000	OK
960 minute summer	SIC-5	495	136.127	0.027	2.6	0.0342	0.0000	OK
960 minute summer	SIC-6	495	135.253	0.038	6.5	0.0209	0.0000	OK
960 minute summer	S4	495	132.814	0.105	31.9	0.2518	0.0000	OK
960 minute summer	S5	495	132.421	0.096	31.9	0.1689	0.0000	OK
960 minute summer	S6	495	132.126	0.093	31.9	0.1647	0.0000	OK
960 minute summer	S7	645	131.756	0.644	31.9	0.0000	0.0000	OK
960 minute summer	S8	645	131.756	0.756	20.2	0.0000	0.0000	SURCHARGED
960 minute summer	S9	645	131.754	0.790	8.2	1.3962	0.0000	SURCHARGED
960 minute summer	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SIC-1	PS-1.000	SIC-2	5.0	1.069	0.046	0.1747	
960 minute summer	SIC-2	PS-1.001	SIC-3	6.1	1.301	0.081	0.0826	
960 minute summer	SIC-3	PS-1.002	S1	6.7	1.942	0.041	0.0193	
960 minute summer	S1	SW-1.000	S2	9.9	0.843	0.058	0.2807	
960 minute summer	S2	SW-1.001	S3	15.6	0.726	0.068	0.5772	
960 minute summer	S3	SW-1.002	S4	21.0	0.808	0.092	0.6924	
960 minute summer	SIC-4	PS-2.000	SIC-6	2.6	0.777	0.131	0.1094	
960 minute summer	SIC-5	PS-3.000	SIC-6	2.6	1.214	0.069	0.0390	
960 minute summer	SIC-6	PS-2.001	S4	6.5	1.497	0.060	0.1303	
960 minute summer	S4	SW-1.003	S5	31.9	1.215	0.115	1.3662	
960 minute summer	S5	SW-1.004	S6	31.9	1.323	0.094	0.6341	
960 minute summer	S6	SW-1.005	S7	31.9	1.364	0.094	0.7951	
960 minute summer	S7	Flow through pond	S8	20.2	0.060	0.000	200.4162	
960 minute summer	S8	SW-1.006	S9	8.2	0.397	0.186	0.1989	
960 minute summer	S9	Hydro-Brake®	Outfall	8.1				483.3

Results for 100 year +10% A 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	SIC-1	495	135.902	0.027	3.3	0.0534	0.0000	OK
960 minute winter	SIC-2	495	134.313	0.038	4.1	0.0257	0.0000	OK
960 minute winter	SIC-3	495	133.938	0.027	4.5	0.0129	0.0000	OK
960 minute winter	S1	495	133.276	0.051	6.6	0.1300	0.0000	OK
960 minute winter	S2	495	133.041	0.065	10.4	0.1914	0.0000	OK
960 minute winter	S3	495	132.918	0.076	14.0	0.2086	0.0000	OK
960 minute winter	SIC-4	480	135.730	0.030	1.7	0.0376	0.0000	OK
960 minute winter	SIC-5	480	136.122	0.022	1.7	0.0277	0.0000	OK
960 minute winter	SIC-6	480	135.246	0.031	4.2	0.0169	0.0000	OK
960 minute winter	S4	495	132.794	0.085	21.1	0.2045	0.0000	OK
960 minute winter	S5	495	132.402	0.077	21.1	0.1368	0.0000	OK
960 minute winter	S6	495	132.109	0.076	21.1	0.1341	0.0000	OK
960 minute winter	S7	705	131.711	0.599	21.1	0.0000	0.0000	OK
960 minute winter	S8	705	131.711	0.711	14.7	0.0000	0.0000	SURCHARGED
960 minute winter	S9	705	131.709	0.745	8.5	1.3171	0.0000	SURCHARGED
960 minute winter	Outfall	15	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SIC-1	PS-1.000	SIC-2	3.3	0.938	0.030	0.1313	
960 minute winter	SIC-2	PS-1.001	SIC-3	4.1	1.165	0.054	0.0620	
960 minute winter	SIC-3	PS-1.002	S1	4.5	1.735	0.028	0.0145	
960 minute winter	S1	SW-1.000	S2	6.6	0.750	0.039	0.2103	
960 minute winter	S2	SW-1.001	S3	10.4	0.654	0.046	0.4270	
960 minute winter	S3	SW-1.002	S4	14.0	0.726	0.061	0.5133	
960 minute winter	SIC-4	PS-2.000	SIC-6	1.7	0.688	0.085	0.0808	
960 minute winter	SIC-5	PS-3.000	SIC-6	1.7	1.073	0.045	0.0288	
960 minute winter	SIC-6	PS-2.001	S4	4.2	1.318	0.039	0.0956	
960 minute winter	S4	SW-1.003	S5	21.1	1.085	0.076	1.0124	
960 minute winter	S5	SW-1.004	S6	21.1	1.181	0.062	0.4700	
960 minute winter	S6	SW-1.005	S7	21.1	1.210	0.062	0.5930	
960 minute winter	S7	Flow through pond	S8	14.7	0.028	0.000	183.3177	
960 minute winter	S8	SW-1.006	S9	8.5	0.392	0.193	0.1989	
960 minute winter	S9	Hydro-Brake®	Outfall	8.1				482.0

Results for 100 year +10% A 1440 minute summer. 2880 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	SIC-1	750	135.903	0.028	3.6	0.0556	0.0000	OK
1440 minute summer	SIC-2	750	134.315	0.039	4.4	0.0266	0.0000	OK
1440 minute summer	SIC-3	750	133.939	0.028	4.8	0.0133	0.0000	OK
1440 minute summer	S1	750	133.278	0.053	7.1	0.1347	0.0000	OK
1440 minute summer	S2	750	133.044	0.068	11.3	0.1997	0.0000	OK
1440 minute summer	S3	750	132.922	0.080	15.2	0.2175	0.0000	OK
1440 minute summer	SIC-4	750	135.732	0.032	1.9	0.0397	0.0000	OK
1440 minute summer	SIC-5	750	136.123	0.023	1.9	0.0293	0.0000	OK
1440 minute summer	SIC-6	750	135.247	0.032	4.7	0.0179	0.0000	OK
1440 minute summer	S4	750	132.798	0.089	23.1	0.2139	0.0000	OK
1440 minute summer	S5	750	132.406	0.081	23.1	0.1433	0.0000	OK
1440 minute summer	S6	750	132.112	0.079	23.1	0.1404	0.0000	OK
1440 minute summer	S7	930	131.685	0.573	23.1	0.0000	0.0000	OK
1440 minute summer	S8	930	131.685	0.685	15.7	0.0000	0.0000	SURCHARGED
1440 minute summer	S9	930	131.684	0.720	8.2	1.2716	0.0000	SURCHARGED
1440 minute summer	Outfall	30	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SIC-1	PS-1.000	SIC-2	3.6	0.969	0.033	0.1387	
1440 minute summer	SIC-2	PS-1.001	SIC-3	4.4	1.190	0.058	0.0651	
1440 minute summer	SIC-3	PS-1.002	S1	4.8	1.768	0.030	0.0152	
1440 minute summer	S1	SW-1.000	S2	7.1	0.766	0.042	0.2215	
1440 minute summer	S2	SW-1.001	S3	11.3	0.669	0.050	0.4534	
1440 minute summer	S3	SW-1.002	S4	15.2	0.741	0.067	0.5460	
1440 minute summer	SIC-4	PS-2.000	SIC-6	1.9	0.711	0.095	0.0874	
1440 minute summer	SIC-5	PS-3.000	SIC-6	1.9	1.110	0.050	0.0312	
1440 minute summer	SIC-6	PS-2.001	S4	4.7	1.362	0.043	0.1035	
1440 minute summer	S4	SW-1.003	S5	23.1	1.112	0.083	1.0803	
1440 minute summer	S5	SW-1.004	S6	23.1	1.211	0.068	0.5018	
1440 minute summer	S6	SW-1.005	S7	23.1	1.242	0.068	0.6324	
1440 minute summer	S7	Flow through pond	S8	15.7	0.020	0.000	173.8459	
1440 minute summer	S8	SW-1.006	S9	8.2	0.427	0.186	0.1989	
1440 minute summer	S9	Hydro-Brake®	Outfall	8.1				536.0

Results for 100 year +10% A 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SIC-1	750	135.898	0.023	2.4	0.0459	0.0000	OK
1440 minute winter	SIC-2	750	134.308	0.033	3.0	0.0220	0.0000	OK
1440 minute winter	SIC-3	750	133.934	0.023	3.3	0.0110	0.0000	OK
1440 minute winter	S1	750	133.269	0.044	4.9	0.1124	0.0000	OK
1440 minute winter	S2	750	133.032	0.056	7.7	0.1649	0.0000	OK
1440 minute winter	S3	750	132.907	0.065	10.3	0.1782	0.0000	OK
1440 minute winter	SIC-4	750	135.726	0.026	1.3	0.0330	0.0000	OK
1440 minute winter	SIC-5	750	136.119	0.019	1.3	0.0243	0.0000	OK
1440 minute winter	SIC-6	750	135.242	0.027	3.2	0.0148	0.0000	OK
1440 minute winter	S4	750	132.782	0.073	15.6	0.1762	0.0000	OK
1440 minute winter	S5	750	132.392	0.067	15.6	0.1175	0.0000	OK
1440 minute winter	S6	750	132.098	0.065	15.6	0.1156	0.0000	OK
1440 minute winter	S7	960	131.569	0.457	15.6	0.0000	0.0000	OK
1440 minute winter	S8	960	131.569	0.569	11.9	0.0000	0.0000	SURCHARGED
1440 minute winter	S9	960	131.568	0.604	8.1	1.0666	0.0000	SURCHARGED
1440 minute winter	Outfall	30	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SIC-1	PS-1.000	SIC-2	2.4	0.852	0.022	0.1051	
1440 minute winter	SIC-2	PS-1.001	SIC-3	3.0	1.066	0.040	0.0495	
1440 minute winter	SIC-3	PS-1.002	S1	3.3	1.589	0.020	0.0116	
1440 minute winter	S1	SW-1.000	S2	4.9	0.687	0.029	0.1706	
1440 minute winter	S2	SW-1.001	S3	7.7	0.606	0.034	0.3414	
1440 minute winter	S3	SW-1.002	S4	10.3	0.668	0.045	0.4115	
1440 minute winter	SIC-4	PS-2.000	SIC-6	1.3	0.636	0.065	0.0669	
1440 minute winter	SIC-5	PS-3.000	SIC-6	1.3	0.991	0.034	0.0239	
1440 minute winter	SIC-6	PS-2.001	S4	3.2	1.214	0.030	0.0791	
1440 minute winter	S4	SW-1.003	S5	15.6	0.998	0.056	0.8146	
1440 minute winter	S5	SW-1.004	S6	15.6	1.086	0.046	0.3779	
1440 minute winter	S6	SW-1.005	S7	15.6	1.108	0.046	0.4787	
1440 minute winter	S7	Flow through pond	S8	11.9	0.029	0.000	133.3698	
1440 minute winter	S8	SW-1.006	S9	8.1	0.385	0.185	0.1989	
1440 minute winter	S9	Hydro-Brake®	Outfall	8.1				536.0

Results for 100 year +40% CC +10% A 15 minute summer. 1455 minute analysis at 1 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SIC-1	10	135.991	0.116	57.7	0.2293	0.0000	OK
15 minute summer	SIC-2	10	134.475	0.200	70.7	0.1347	0.0000	OK
15 minute summer	SIC-3	11	134.056	0.145	76.1	0.0694	0.0000	OK
15 minute summer	S1	11	133.745	0.520	113.3	1.3261	0.0000	SURCHARGED
15 minute summer	S2	11	133.655	0.679	168.6	1.9982	0.0000	SURCHARGED
15 minute summer	S3	11	133.563	0.721	220.1	1.9688	0.0000	SURCHARGED
15 minute summer	SIC-4	11	136.299	0.599	29.8	0.7545	0.0000	SURCHARGED
15 minute summer	SIC-5	10	136.208	0.108	29.8	0.1360	0.0000	OK
15 minute summer	SIC-6	11	135.355	0.140	70.2	0.0774	0.0000	OK
15 minute summer	S4	11	133.395	0.686	333.2	1.6472	0.0000	SURCHARGED
15 minute summer	S5	12	132.777	0.452	330.2	0.7987	0.0000	SURCHARGED
15 minute summer	S6	12	132.403	0.370	325.5	0.6535	0.0000	OK
15 minute summer	S7	23	131.614	0.502	327.5	0.0000	0.0000	OK
15 minute summer	S8	24	131.613	0.613	209.3	0.0000	0.0000	SURCHARGED
15 minute summer	S9	24	131.615	0.651	11.4	1.1506	0.0000	SURCHARGED
15 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SIC-1	PS-1.000	SIC-2	57.4	1.961	0.528	1.0698	
15 minute summer	SIC-2	PS-1.001	SIC-3	69.5	2.190	0.923	0.5570	
15 minute summer	SIC-3	PS-1.002	S1	76.2	3.393	0.471	0.1872	
15 minute summer	S1	SW-1.000	S2	105.5	1.363	0.619	2.6361	
15 minute summer	S2	SW-1.001	S3	162.7	1.097	0.713	4.2463	
15 minute summer	S3	SW-1.002	S4	216.7	1.368	0.951	4.2146	
15 minute summer	SIC-4	PS-2.000	SIC-6	27.6	1.568	1.387	0.5693	
15 minute summer	SIC-5	PS-3.000	SIC-6	29.5	2.267	0.784	0.2370	
15 minute summer	SIC-6	PS-2.001	S4	70.4	2.819	0.650	0.7490	
15 minute summer	S4	SW-1.003	S5	330.2	2.084	1.190	8.2371	
15 minute summer	S5	SW-1.004	S6	325.5	2.209	0.955	3.9156	
15 minute summer	S6	SW-1.005	S7	327.5	2.443	0.961	4.5743	
15 minute summer	S7	Flow through pond	S8	209.3	0.250	0.005	148.0517	
15 minute summer	S8	SW-1.006	S9	11.4	0.794	0.259	0.1989	
15 minute summer	S9	Hydro-Brake®	Outfall	8.1				158.5

Results for 100 year +40% CC +10% A 15 minute winter. 1455 minute analysis at 1 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SIC-1	10	135.986	0.111	54.1	0.2205	0.0000	OK
15 minute winter	SIC-2	10	134.461	0.186	66.1	0.1252	0.0000	OK
15 minute winter	SIC-3	10	134.040	0.129	71.2	0.0617	0.0000	OK
15 minute winter	S1	11	133.556	0.331	105.6	0.8432	0.0000	OK
15 minute winter	S2	11	133.488	0.512	166.9	1.5073	0.0000	SURCHARGED
15 minute winter	S3	11	133.406	0.564	201.8	1.5409	0.0000	SURCHARGED
15 minute winter	SIC-4	11	136.185	0.485	28.0	0.6111	0.0000	SURCHARGED
15 minute winter	SIC-5	10	136.203	0.103	28.0	0.1293	0.0000	OK
15 minute winter	SIC-6	11	135.348	0.133	65.6	0.0737	0.0000	OK
15 minute winter	S4	11	133.258	0.549	307.8	1.3181	0.0000	SURCHARGED
15 minute winter	S5	12	132.716	0.391	311.3	0.6913	0.0000	OK
15 minute winter	S6	12	132.385	0.352	309.1	0.6218	0.0000	OK
15 minute winter	S7	24	131.615	0.503	310.5	0.0000	0.0000	OK
15 minute winter	S8	22	131.615	0.615	189.8	0.0000	0.0000	SURCHARGED
15 minute winter	S9	22	131.617	0.653	12.6	1.1530	0.0000	SURCHARGED
15 minute winter	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SIC-1	PS-1.000	SIC-2	53.7	1.939	0.494	1.0101	
15 minute winter	SIC-2	PS-1.001	SIC-3	65.0	2.258	0.863	0.5115	
15 minute winter	SIC-3	PS-1.002	S1	70.8	3.423	0.438	0.1553	
15 minute winter	S1	SW-1.000	S2	104.7	1.366	0.614	2.5483	
15 minute winter	S2	SW-1.001	S3	154.6	1.097	0.678	4.2463	
15 minute winter	S3	SW-1.002	S4	204.6	1.291	0.897	4.2146	
15 minute winter	SIC-4	PS-2.000	SIC-6	25.8	1.465	1.296	0.5672	
15 minute winter	SIC-5	PS-3.000	SIC-6	27.7	2.243	0.735	0.2247	
15 minute winter	SIC-6	PS-2.001	S4	65.6	2.779	0.606	0.7082	
15 minute winter	S4	SW-1.003	S5	311.3	1.972	1.122	7.9234	
15 minute winter	S5	SW-1.004	S6	309.1	2.209	0.907	3.6728	
15 minute winter	S6	SW-1.005	S7	310.5	2.417	0.911	4.3644	
15 minute winter	S7	Flow through pond	S8	189.8	0.273	0.005	148.4157	
15 minute winter	S8	SW-1.006	S9	12.6	0.818	0.286	0.1989	
15 minute winter	S9	Hydro-Brake®	Outfall	8.1				158.9

Results for 100 year +40% CC +10% A 30 minute summer. 1470 minute analysis at 1 minute timestep. Mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	SIC-1	18	135.987	0.112	54.7	0.2228	0.0000	OK
30 minute summer	SIC-2	18	134.467	0.192	67.3	0.1294	0.0000	OK
30 minute summer	SIC-3	17	134.040	0.129	73.2	0.0617	0.0000	OK
30 minute summer	S1	19	133.679	0.454	109.5	1.1578	0.0000	SURCHARGED
30 minute summer	S2	19	133.594	0.618	166.9	1.8194	0.0000	SURCHARGED
30 minute summer	S3	19	133.504	0.662	212.7	1.8073	0.0000	SURCHARGED
30 minute summer	SIC-4	19	136.233	0.533	28.3	0.6714	0.0000	SURCHARGED
30 minute summer	SIC-5	18	136.204	0.104	28.3	0.1311	0.0000	OK
30 minute summer	SIC-6	18	135.352	0.137	68.3	0.0758	0.0000	OK
30 minute summer	S4	19	133.341	0.632	322.4	1.5163	0.0000	SURCHARGED
30 minute summer	S5	19	132.738	0.413	321.9	0.7294	0.0000	OK
30 minute summer	S6	19	132.394	0.361	321.1	0.6383	0.0000	OK
30 minute summer	S7	37	131.762	0.650	319.0	0.0000	0.0000	OK
30 minute summer	S8	37	131.762	0.762	168.6	0.0000	0.0000	SURCHARGED
30 minute summer	S9	37	131.761	0.797	10.1	1.4090	0.0000	SURCHARGED
30 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SIC-1	PS-1.000	SIC-2	54.7	1.941	0.504	1.0342	
30 minute summer	SIC-2	PS-1.001	SIC-3	66.9	2.252	0.889	0.5121	
30 minute summer	SIC-3	PS-1.002	S1	74.3	3.420	0.459	0.1754	
30 minute summer	S1	SW-1.000	S2	104.0	1.372	0.610	2.6361	
30 minute summer	S2	SW-1.001	S3	158.9	1.104	0.697	4.2463	
30 minute summer	S3	SW-1.002	S4	212.8	1.343	0.933	4.2146	
30 minute summer	SIC-4	PS-2.000	SIC-6	26.6	1.513	1.338	0.5682	
30 minute summer	SIC-5	PS-3.000	SIC-6	28.3	2.254	0.751	0.2284	
30 minute summer	SIC-6	PS-2.001	S4	68.0	2.796	0.628	0.7296	
30 minute summer	S4	SW-1.003	S5	321.9	2.032	1.160	8.0787	
30 minute summer	S5	SW-1.004	S6	321.1	2.214	0.942	3.7958	
30 minute summer	S6	SW-1.005	S7	319.0	2.430	0.936	4.4627	
30 minute summer	S7	Flow through pond	S8	168.6	0.177	0.004	202.9910	
30 minute summer	S8	SW-1.006	S9	10.1	0.700	0.230	0.1989	
30 minute summer	S9	Hydro-Brake®	Outfall	8.1				219.9

Results for 100 year +40% CC +10% A 30 minute winter. 1470 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	SIC-1	18	135.974	0.099	44.2	0.1972	0.0000	OK
30 minute winter	SIC-2	18	134.434	0.159	54.4	0.1074	0.0000	OK
30 minute winter	SIC-3	18	134.025	0.114	59.5	0.0547	0.0000	OK
30 minute winter	S1	18	133.436	0.211	87.9	0.5386	0.0000	OK
30 minute winter	S2	18	133.280	0.304	138.6	0.8946	0.0000	OK
30 minute winter	S3	19	133.214	0.372	185.0	1.0160	0.0000	OK
30 minute winter	SIC-4	19	135.940	0.240	22.8	0.3017	0.0000	SURCHARGED
30 minute winter	SIC-5	18	136.189	0.089	22.8	0.1123	0.0000	OK
30 minute winter	SIC-6	18	135.335	0.120	55.7	0.0663	0.0000	OK
30 minute winter	S4	19	133.106	0.397	277.0	0.9526	0.0000	OK
30 minute winter	S5	19	132.676	0.351	276.0	0.6203	0.0000	OK
30 minute winter	S6	19	132.352	0.319	276.3	0.5644	0.0000	OK
30 minute winter	S7	37	131.764	0.651	275.7	0.0000	0.0000	OK
30 minute winter	S8	37	131.763	0.763	148.5	0.0000	0.0000	SURCHARGED
30 minute winter	S9	38	131.761	0.797	10.1	1.4088	0.0000	SURCHARGED
30 minute winter	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SIC-1	PS-1.000	SIC-2	44.2	1.879	0.407	0.8686	
30 minute winter	SIC-2	PS-1.001	SIC-3	54.4	2.154	0.723	0.4389	
30 minute winter	SIC-3	PS-1.002	S1	59.5	3.314	0.368	0.1006	
30 minute winter	S1	SW-1.000	S2	87.9	1.373	0.515	1.6070	
30 minute winter	S2	SW-1.001	S3	137.3	1.092	0.602	3.4047	
30 minute winter	S3	SW-1.002	S4	182.9	1.272	0.802	3.8332	
30 minute winter	SIC-4	PS-2.000	SIC-6	21.9	1.248	1.103	0.5587	
30 minute winter	SIC-5	PS-3.000	SIC-6	22.8	2.163	0.605	0.1919	
30 minute winter	SIC-6	PS-2.001	S4	55.6	2.676	0.513	0.6231	
30 minute winter	S4	SW-1.003	S5	276.0	1.962	0.995	7.2980	
30 minute winter	S5	SW-1.004	S6	276.3	2.181	0.810	3.3271	
30 minute winter	S6	SW-1.005	S7	275.7	2.376	0.809	3.9504	
30 minute winter	S7	Flow through pond	S8	148.5	0.221	0.004	203.4167	
30 minute winter	S8	SW-1.006	S9	10.1	0.697	0.229	0.1989	
30 minute winter	S9	Hydro-Brake®	Outfall	8.1				220.1

Results for 100 year +40% CC +10% A 60 minute summer. 1500 minute analysis at 1 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	SIC-1	33	135.973	0.098	43.2	0.1946	0.0000	OK
60 minute summer	SIC-2	33	134.431	0.156	53.1	0.1054	0.0000	OK
60 minute summer	SIC-3	33	134.024	0.113	58.1	0.0538	0.0000	OK
60 minute summer	S1	33	133.433	0.208	85.9	0.5293	0.0000	OK
60 minute summer	S2	33	133.273	0.297	135.4	0.8736	0.0000	OK
60 minute summer	S3	33	133.205	0.363	181.0	0.9905	0.0000	OK
60 minute summer	SIC-4	34	135.914	0.214	22.3	0.2699	0.0000	SURCHARGED
60 minute summer	SIC-5	33	136.188	0.088	22.3	0.1106	0.0000	OK
60 minute summer	SIC-6	33	135.333	0.118	54.5	0.0654	0.0000	OK
60 minute summer	S4	34	133.095	0.386	271.3	0.9254	0.0000	OK
60 minute summer	S5	34	132.670	0.345	270.5	0.6098	0.0000	OK
60 minute summer	S6	34	132.348	0.315	271.0	0.5564	0.0000	OK
60 minute summer	S7	67	131.903	0.791	270.7	0.0000	0.0000	OK
60 minute summer	S8	67	131.903	0.903	143.2	0.0000	0.0000	SURCHARGED
60 minute summer	S9	67	131.901	0.937	9.3	1.6556	0.0000	SURCHARGED
60 minute summer	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SIC-1	PS-1.000	SIC-2	43.2	1.872	0.398	0.8525	
60 minute summer	SIC-2	PS-1.001	SIC-3	53.1	2.146	0.705	0.4303	
60 minute summer	SIC-3	PS-1.002	S1	58.1	3.298	0.359	0.0987	
60 minute summer	S1	SW-1.000	S2	85.8	1.375	0.503	1.5595	
60 minute summer	S2	SW-1.001	S3	134.4	1.091	0.589	3.3222	
60 minute summer	S3	SW-1.002	S4	179.2	1.272	0.786	3.7443	
60 minute summer	SIC-4	PS-2.000	SIC-6	21.5	1.242	1.081	0.5575	
60 minute summer	SIC-5	PS-3.000	SIC-6	22.3	2.152	0.592	0.1886	
60 minute summer	SIC-6	PS-2.001	S4	54.4	2.663	0.502	0.6125	
60 minute summer	S4	SW-1.003	S5	270.5	1.963	0.975	7.1512	
60 minute summer	S5	SW-1.004	S6	271.0	2.176	0.795	3.2735	
60 minute summer	S6	SW-1.005	S7	270.7	2.367	0.794	3.8907	
60 minute summer	S7	Flow through pond	S8	143.2	0.157	0.004	260.4019	
60 minute summer	S8	SW-1.006	S9	9.3	0.632	0.211	0.1989	
60 minute summer	S9	Hydro-Brake®	Outfall	8.1				291.7

Results for 100 year +40% CC +10% A 60 minute winter. 1500 minute analysis at 1 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	SIC-1	33	135.957	0.082	31.2	0.1630	0.0000	OK
60 minute winter	SIC-2	33	134.401	0.126	38.4	0.0848	0.0000	OK
60 minute winter	SIC-3	33	134.002	0.091	42.0	0.0437	0.0000	OK
60 minute winter	S1	33	133.391	0.166	62.1	0.4234	0.0000	OK
60 minute winter	S2	33	133.205	0.229	98.0	0.6739	0.0000	OK
60 minute winter	S3	33	133.119	0.277	131.6	0.7565	0.0000	OK
60 minute winter	SIC-4	33	135.806	0.106	16.1	0.1337	0.0000	OK
60 minute winter	SIC-5	33	136.172	0.072	16.1	0.0901	0.0000	OK
60 minute winter	SIC-6	33	135.313	0.098	40.1	0.0544	0.0000	OK
60 minute winter	S4	33	133.006	0.297	198.6	0.7125	0.0000	OK
60 minute winter	S5	34	132.598	0.273	198.2	0.4823	0.0000	OK
60 minute winter	S6	34	132.287	0.254	198.6	0.4492	0.0000	OK
60 minute winter	S7	66	131.905	0.793	198.6	0.0000	0.0000	OK
60 minute winter	S8	66	131.905	0.905	107.6	0.0000	0.0000	SURCHARGED
60 minute winter	S9	66	131.903	0.939	9.0	1.6594	0.0000	SURCHARGED
60 minute winter	Outfall	1	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SIC-1	PS-1.000	SIC-2	31.2	1.743	0.287	0.6645	
60 minute winter	SIC-2	PS-1.001	SIC-3	38.4	2.026	0.510	0.3309	
60 minute winter	SIC-3	PS-1.002	S1	42.0	3.082	0.259	0.0764	
60 minute winter	S1	SW-1.000	S2	62.1	1.385	0.364	1.0720	
60 minute winter	S2	SW-1.001	S3	97.9	1.067	0.430	2.4585	
60 minute winter	S3	SW-1.002	S4	131.4	1.232	0.576	2.8376	
60 minute winter	SIC-4	PS-2.000	SIC-6	16.1	1.234	0.808	0.4262	
60 minute winter	SIC-5	PS-3.000	SIC-6	16.1	1.997	0.427	0.1467	
60 minute winter	SIC-6	PS-2.001	S4	40.1	2.474	0.370	0.4860	
60 minute winter	S4	SW-1.003	S5	198.2	1.876	0.714	5.4932	
60 minute winter	S5	SW-1.004	S6	198.6	2.059	0.582	2.5365	
60 minute winter	S6	SW-1.005	S7	198.6	2.219	0.583	3.0437	
60 minute winter	S7	Flow through pond	S8	107.6	0.163	0.003	261.3221	
60 minute winter	S8	SW-1.006	S9	9.0	0.639	0.204	0.1989	
60 minute winter	S9	Hydro-Brake®	Outfall	8.1				291.9

Results for 100 year +40% CC +10% A 120 minute summer. 1560 minute analysis at 2 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	SIC-1	64	135.955	0.080	29.5	0.1582	0.0000	OK
120 minute summer	SIC-2	64	134.397	0.121	36.3	0.0819	0.0000	OK
120 minute summer	SIC-3	64	133.999	0.088	39.7	0.0422	0.0000	OK
120 minute summer	S1	64	133.386	0.161	58.7	0.4097	0.0000	OK
120 minute summer	S2	64	133.196	0.220	92.6	0.6481	0.0000	OK
120 minute summer	S3	64	133.109	0.266	124.5	0.7275	0.0000	OK
120 minute summer	SIC-4	64	135.802	0.102	15.3	0.1286	0.0000	OK
120 minute summer	SIC-5	64	136.169	0.069	15.3	0.0874	0.0000	OK
120 minute summer	SIC-6	64	135.310	0.095	38.1	0.0529	0.0000	OK
120 minute summer	S4	64	132.995	0.286	188.4	0.6869	0.0000	OK
120 minute summer	S5	64	132.589	0.263	188.4	0.4655	0.0000	OK
120 minute summer	S6	64	132.279	0.246	188.3	0.4339	0.0000	OK
120 minute summer	S7	126	132.024	0.912	187.9	0.0000	0.0000	OK
120 minute summer	S8	126	132.024	1.024	99.5	0.0000	0.0000	SURCHARGED
120 minute summer	S9	126	132.022	1.058	8.6	1.8692	0.0000	SURCHARGED
120 minute summer	Outfall	2	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SIC-1	PS-1.000	SIC-2	29.5	1.721	0.272	0.6369	
120 minute summer	SIC-2	PS-1.001	SIC-3	36.3	2.004	0.482	0.3165	
120 minute summer	SIC-3	PS-1.002	S1	39.7	3.044	0.245	0.0731	
120 minute summer	S1	SW-1.000	S2	58.7	1.366	0.344	1.0276	
120 minute summer	S2	SW-1.001	S3	92.6	1.059	0.406	2.3432	
120 minute summer	S3	SW-1.002	S4	124.5	1.220	0.546	2.7146	
120 minute summer	SIC-4	PS-2.000	SIC-6	15.3	1.224	0.769	0.4087	
120 minute summer	SIC-5	PS-3.000	SIC-6	15.3	1.972	0.406	0.1412	
120 minute summer	SIC-6	PS-2.001	S4	38.1	2.443	0.352	0.4679	
120 minute summer	S4	SW-1.003	S5	188.4	1.858	0.679	5.2719	
120 minute summer	S5	SW-1.004	S6	188.3	2.037	0.552	2.4308	
120 minute summer	S6	SW-1.005	S7	187.9	2.190	0.551	2.9172	
120 minute summer	S7	Flow through pond	S8	99.5	0.139	0.002	314.4748	
120 minute summer	S8	SW-1.006	S9	8.6	0.468	0.195	0.1989	
120 minute summer	S9	Hydro-Brake®	Outfall	8.1				374.2

Results for 100 year +40% CC +10% A 120 minute winter. 1560 minute analysis at 2 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	SIC-1	64	135.941	0.066	20.3	0.1302	0.0000	OK
120 minute winter	SIC-2	64	134.373	0.097	25.0	0.0657	0.0000	OK
120 minute winter	SIC-3	64	133.982	0.071	27.3	0.0337	0.0000	OK
120 minute winter	S1	64	133.355	0.130	40.4	0.3316	0.0000	OK
120 minute winter	S2	64	133.150	0.174	63.8	0.5113	0.0000	OK
120 minute winter	S3	64	133.050	0.208	85.8	0.5688	0.0000	OK
120 minute winter	SIC-4	64	135.779	0.079	10.5	0.1000	0.0000	OK
120 minute winter	SIC-5	64	136.156	0.056	10.5	0.0705	0.0000	OK
120 minute winter	SIC-6	64	135.292	0.077	26.1	0.0428	0.0000	OK
120 minute winter	S4	64	132.934	0.225	129.6	0.5398	0.0000	OK
120 minute winter	S5	64	132.533	0.208	129.6	0.3669	0.0000	OK
120 minute winter	S6	64	132.229	0.196	129.6	0.3470	0.0000	OK
120 minute winter	S7	124	132.028	0.916	129.5	0.0000	0.0000	OK
120 minute winter	S8	124	132.028	1.028	70.6	0.0000	0.0000	SURCHARGED
120 minute winter	S9	124	132.026	1.062	8.5	1.8769	0.0000	SURCHARGED
120 minute winter	Outfall	2	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SIC-1	PS-1.000	SIC-2	20.3	1.566	0.187	0.4824	
120 minute winter	SIC-2	PS-1.001	SIC-3	25.0	1.852	0.332	0.2364	
120 minute winter	SIC-3	PS-1.002	S1	27.3	2.794	0.169	0.0548	
120 minute winter	S1	SW-1.000	S2	40.4	1.241	0.237	0.7784	
120 minute winter	S2	SW-1.001	S3	63.8	0.996	0.280	1.7180	
120 minute winter	S3	SW-1.002	S4	85.8	1.137	0.376	2.0078	
120 minute winter	SIC-4	PS-2.000	SIC-6	10.5	1.129	0.528	0.3041	
120 minute winter	SIC-5	PS-3.000	SIC-6	10.5	1.792	0.279	0.1066	
120 minute winter	SIC-6	PS-2.001	S4	26.1	2.213	0.241	0.3538	
120 minute winter	S4	SW-1.003	S5	129.6	1.721	0.467	3.9169	
120 minute winter	S5	SW-1.004	S6	129.6	1.880	0.380	1.8129	
120 minute winter	S6	SW-1.005	S7	129.5	2.000	0.380	2.6395	
120 minute winter	S7	Flow through pond	S8	70.6	0.140	0.002	316.4910	
120 minute winter	S8	SW-1.006	S9	8.5	0.468	0.194	0.1989	
120 minute winter	S9	Hydro-Brake®	Outfall	8.1				374.4

Results for 100 year +40% CC +10% A 180 minute summer. 1620 minute analysis at 4 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	SIC-1	96	135.944	0.069	22.5	0.1373	0.0000	OK
180 minute summer	SIC-2	96	134.378	0.103	27.7	0.0697	0.0000	OK
180 minute summer	SIC-3	96	133.986	0.075	30.3	0.0359	0.0000	OK
180 minute summer	S1	96	133.363	0.138	44.8	0.3512	0.0000	OK
180 minute summer	S2	96	133.161	0.185	70.6	0.5438	0.0000	OK
180 minute summer	S3	96	133.064	0.222	94.9	0.6062	0.0000	OK
180 minute summer	SIC-4	96	135.785	0.085	11.6	0.1064	0.0000	OK
180 minute summer	SIC-5	96	136.159	0.059	11.6	0.0745	0.0000	OK
180 minute summer	SIC-6	96	135.297	0.082	28.9	0.0453	0.0000	OK
180 minute summer	S4	96	132.948	0.239	143.4	0.5744	0.0000	OK
180 minute summer	S5	96	132.546	0.221	143.4	0.3905	0.0000	OK
180 minute summer	S6	96	132.241	0.208	143.4	0.3681	0.0000	OK
180 minute summer	S7	184	132.076	0.963	143.4	0.0000	0.0000	OK
180 minute summer	S8	184	132.076	1.075	76.8	0.0000	0.0000	SURCHARGED
180 minute summer	S9	184	132.074	1.110	8.4	1.9606	0.0000	SURCHARGED
180 minute summer	Outfall	4	130.800	0.000	8.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SIC-1	PS-1.000	SIC-2	22.5	1.610	0.207	0.5204	
180 minute summer	SIC-2	PS-1.001	SIC-3	27.7	1.894	0.368	0.2561	
180 minute summer	SIC-3	PS-1.002	S1	30.3	2.863	0.187	0.0593	
180 minute summer	S1	SW-1.000	S2	44.8	1.275	0.263	0.8401	
180 minute summer	S2	SW-1.001	S3	70.6	1.015	0.310	1.8656	
180 minute summer	S3	SW-1.002	S4	94.9	1.160	0.416	2.1754	
180 minute summer	SIC-4	PS-2.000	SIC-6	11.6	1.156	0.583	0.3283	
180 minute summer	SIC-5	PS-3.000	SIC-6	11.6	1.839	0.308	0.1148	
180 minute summer	SIC-6	PS-2.001	S4	28.9	2.274	0.267	0.3813	
180 minute summer	S4	SW-1.003	S5	143.4	1.759	0.517	4.2402	
180 minute summer	S5	SW-1.004	S6	143.4	1.923	0.421	1.9615	
180 minute summer	S6	SW-1.005	S7	143.4	2.053	0.421	2.8242	
180 minute summer	S7	Flow through pond	S8	76.8	0.116	0.002	338.9058	
180 minute summer	S8	SW-1.006	S9	8.4	0.432	0.191	0.1989	
180 minute summer	S9	Hydro-Brake®	Outfall	8.3				426.6

Results for 100 year +40% CC +10% A 180 minute winter. 1620 minute analysis at 4 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	SIC-1	96	135.932	0.057	15.4	0.1132	0.0000	OK
180 minute winter	SIC-2	96	134.359	0.084	19.0	0.0564	0.0000	OK
180 minute winter	SIC-3	96	133.971	0.060	20.8	0.0289	0.0000	OK
180 minute winter	S1	96	133.337	0.112	30.7	0.2855	0.0000	OK
180 minute winter	S2	96	133.124	0.148	48.5	0.4351	0.0000	OK
180 minute winter	S3	96	133.018	0.176	65.2	0.4816	0.0000	OK
180 minute winter	SIC-4	96	135.768	0.068	8.0	0.0850	0.0000	OK
180 minute winter	SIC-5	96	136.148	0.048	8.0	0.0608	0.0000	OK
180 minute winter	SIC-6	96	135.282	0.067	19.9	0.0370	0.0000	OK
180 minute winter	S4	96	132.901	0.192	98.6	0.4597	0.0000	OK
180 minute winter	S5	96	132.502	0.177	98.6	0.3121	0.0000	OK
180 minute winter	S6	96	132.201	0.168	98.6	0.2975	0.0000	OK
180 minute winter	S7	180	132.082	0.970	98.6	0.0000	0.0000	OK
180 minute winter	S8	180	132.082	1.082	53.8	0.0000	0.0000	SURCHARGED
180 minute winter	S9	180	132.080	1.116	8.4	1.9713	0.0000	SURCHARGED
180 minute winter	Outfall	4	130.800	0.000	8.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SIC-1	PS-1.000	SIC-2	15.4	1.456	0.142	0.3943	
180 minute winter	SIC-2	PS-1.001	SIC-3	19.0	1.738	0.252	0.1917	
180 minute winter	SIC-3	PS-1.002	S1	20.8	2.615	0.129	0.0446	
180 minute winter	S1	SW-1.000	S2	30.7	1.154	0.180	0.6358	
180 minute winter	S2	SW-1.001	S3	48.5	0.944	0.213	1.3790	
180 minute winter	S3	SW-1.002	S4	65.2	1.070	0.286	1.6210	
180 minute winter	SIC-4	PS-2.000	SIC-6	8.0	1.056	0.402	0.2477	
180 minute winter	SIC-5	PS-3.000	SIC-6	8.0	1.666	0.212	0.0874	
180 minute winter	SIC-6	PS-2.001	S4	19.9	2.057	0.184	0.2902	
180 minute winter	S4	SW-1.003	S5	98.6	1.617	0.355	3.1709	
180 minute winter	S5	SW-1.004	S6	98.6	1.765	0.289	1.4697	
180 minute winter	S6	SW-1.005	S7	98.6	1.864	0.289	2.8662	
180 minute winter	S7	Flow through pond	S8	53.8	0.095	0.001	341.8048	
180 minute winter	S8	SW-1.006	S9	8.4	0.495	0.190	0.1989	
180 minute winter	S9	Hydro-Brake®	Outfall	8.3				426.9

Results for 100 year +40% CC +10% A 240 minute summer. 1680 minute analysis at 4 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SIC-1	124	135.939	0.064	19.2	0.1264	0.0000	OK
240 minute summer	SIC-2	124	134.369	0.094	23.5	0.0634	0.0000	OK
240 minute summer	SIC-3	124	133.979	0.068	25.6	0.0325	0.0000	OK
240 minute summer	S1	124	133.350	0.125	37.9	0.3196	0.0000	OK
240 minute summer	S2	124	133.143	0.167	59.7	0.4908	0.0000	OK
240 minute summer	S3	124	133.041	0.199	80.2	0.5441	0.0000	OK
240 minute summer	SIC-4	124	135.776	0.076	9.9	0.0961	0.0000	OK
240 minute summer	SIC-5	124	136.154	0.054	9.9	0.0682	0.0000	OK
240 minute summer	SIC-6	124	135.290	0.075	24.5	0.0413	0.0000	OK
240 minute summer	S4	124	132.924	0.215	120.8	0.5166	0.0000	OK
240 minute summer	S5	124	132.523	0.198	120.1	0.3498	0.0000	OK
240 minute summer	S6	124	132.220	0.187	119.5	0.3307	0.0000	OK
240 minute summer	S7	244	132.098	0.985	118.8	0.0000	0.0000	OK
240 minute summer	S8	244	132.098	1.097	64.3	0.0000	0.0000	SURCHARGED
240 minute summer	S9	244	132.096	1.132	8.4	1.9995	0.0000	SURCHARGED
240 minute summer	Outfall	4	130.800	0.000	8.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SIC-1	PS-1.000	SIC-2	19.1	1.546	0.176	0.4610	
240 minute summer	SIC-2	PS-1.001	SIC-3	23.4	1.824	0.311	0.2251	
240 minute summer	SIC-3	PS-1.002	S1	25.6	2.751	0.158	0.0522	
240 minute summer	S1	SW-1.000	S2	37.7	1.217	0.221	0.7401	
240 minute summer	S2	SW-1.001	S3	59.5	0.982	0.261	1.6232	
240 minute summer	S3	SW-1.002	S4	79.7	1.118	0.349	1.8963	
240 minute summer	SIC-4	PS-2.000	SIC-6	9.8	1.111	0.494	0.2893	
240 minute summer	SIC-5	PS-3.000	SIC-6	9.9	1.763	0.262	0.1019	
240 minute summer	SIC-6	PS-2.001	S4	24.4	2.173	0.225	0.3372	
240 minute summer	S4	SW-1.003	S5	120.1	1.692	0.433	3.6917	
240 minute summer	S5	SW-1.004	S6	119.5	1.846	0.350	1.7023	
240 minute summer	S6	SW-1.005	S7	118.8	1.955	0.348	2.9144	
240 minute summer	S7	Flow through pond	S8	64.3	0.093	0.002	349.4330	
240 minute summer	S8	SW-1.006	S9	8.4	0.419	0.191	0.1989	
240 minute summer	S9	Hydro-Brake®	Outfall	8.4				464.6

Results for 100 year +40% CC +10% A 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	SIC-1	124	135.927	0.052	12.7	0.1027	0.0000	OK
240 minute winter	SIC-2	124	134.350	0.075	15.6	0.0507	0.0000	OK
240 minute winter	SIC-3	124	133.965	0.054	17.1	0.0259	0.0000	OK
240 minute winter	S1	124	133.326	0.101	25.3	0.2573	0.0000	OK
240 minute winter	S2	124	133.108	0.132	39.9	0.3893	0.0000	OK
240 minute winter	S3	124	132.999	0.157	53.6	0.4296	0.0000	OK
240 minute winter	SIC-4	124	135.761	0.061	6.6	0.0762	0.0000	OK
240 minute winter	SIC-5	124	136.144	0.044	6.6	0.0549	0.0000	OK
240 minute winter	SIC-6	124	135.275	0.060	16.4	0.0334	0.0000	OK
240 minute winter	S4	124	132.880	0.171	81.0	0.4115	0.0000	OK
240 minute winter	S5	124	132.483	0.158	80.9	0.2787	0.0000	OK
240 minute winter	S6	124	132.184	0.151	80.8	0.2670	0.0000	OK
240 minute winter	S7	240	132.106	0.994	80.8	0.0000	0.0000	OK
240 minute winter	S8	240	132.106	1.106	44.8	0.0000	0.0000	SURCHARGED
240 minute winter	S9	240	132.104	1.140	8.4	2.0151	0.0000	SURCHARGED
240 minute winter	Outfall	4	130.800	0.000	8.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SIC-1	PS-1.000	SIC-2	12.7	1.384	0.117	0.3419	
240 minute winter	SIC-2	PS-1.001	SIC-3	15.6	1.657	0.207	0.1652	
240 minute winter	SIC-3	PS-1.002	S1	17.1	2.490	0.106	0.0384	
240 minute winter	S1	SW-1.000	S2	25.3	1.095	0.148	0.5515	
240 minute winter	S2	SW-1.001	S3	39.8	0.905	0.175	1.1816	
240 minute winter	S3	SW-1.002	S4	53.6	1.023	0.235	1.3935	
240 minute winter	SIC-4	PS-2.000	SIC-6	6.6	1.004	0.331	0.2145	
240 minute winter	SIC-5	PS-3.000	SIC-6	6.6	1.581	0.175	0.0759	
240 minute winter	SIC-6	PS-2.001	S4	16.4	1.949	0.151	0.2520	
240 minute winter	S4	SW-1.003	S5	80.9	1.543	0.292	2.7278	
240 minute winter	S5	SW-1.004	S6	80.8	1.682	0.237	1.2645	
240 minute winter	S6	SW-1.005	S7	80.8	1.767	0.237	2.9760	
240 minute winter	S7	Flow through pond	S8	44.8	0.102	0.001	353.7637	
240 minute winter	S8	SW-1.006	S9	8.4	0.402	0.191	0.1989	
240 minute winter	S9	Hydro-Brake®	Outfall	8.4				465.5

Results for 100 year +40% CC +10% A 360 minute summer. 10080 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	SIC-1	184	135.931	0.056	14.7	0.1104	0.0000	OK
360 minute summer	SIC-2	184	134.356	0.081	18.1	0.0547	0.0000	OK
360 minute summer	SIC-3	184	133.970	0.058	19.7	0.0280	0.0000	OK
360 minute summer	S1	184	133.334	0.108	29.0	0.2764	0.0000	OK
360 minute summer	S2	184	133.119	0.143	45.8	0.4205	0.0000	OK
360 minute summer	S3	184	133.012	0.170	61.4	0.4636	0.0000	OK
360 minute summer	SIC-4	184	135.765	0.065	7.6	0.0822	0.0000	OK
360 minute summer	SIC-5	184	136.147	0.047	7.6	0.0591	0.0000	OK
360 minute summer	SIC-6	184	135.280	0.065	18.8	0.0359	0.0000	OK
360 minute summer	S4	184	132.893	0.184	92.5	0.4426	0.0000	OK
360 minute summer	S5	184	132.494	0.169	91.9	0.2991	0.0000	OK
360 minute summer	S6	184	132.194	0.161	91.4	0.2848	0.0000	OK
360 minute summer	S7	344	132.102	0.990	90.8	0.0000	0.0000	OK
360 minute summer	S8	344	132.102	1.102	49.9	0.0000	0.0000	SURCHARGED
360 minute summer	S9	344	132.100	1.136	8.4	2.0074	0.0000	SURCHARGED
360 minute summer	Outfall	8	130.800	0.000	8.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SIC-1	PS-1.000	SIC-2	14.7	1.439	0.135	0.3795	
360 minute summer	SIC-2	PS-1.001	SIC-3	18.0	1.715	0.239	0.1838	
360 minute summer	SIC-3	PS-1.002	S1	19.6	2.578	0.121	0.0427	
360 minute summer	S1	SW-1.000	S2	28.9	1.134	0.169	0.6081	
360 minute summer	S2	SW-1.001	S3	45.6	0.931	0.200	1.3126	
360 minute summer	S3	SW-1.002	S4	61.0	1.053	0.267	1.5407	
360 minute summer	SIC-4	PS-2.000	SIC-6	7.5	1.040	0.379	0.2371	
360 minute summer	SIC-5	PS-3.000	SIC-6	7.6	1.642	0.201	0.0840	
360 minute summer	SIC-6	PS-2.001	S4	18.7	2.023	0.173	0.2780	
360 minute summer	S4	SW-1.003	S5	91.9	1.591	0.331	3.0055	
360 minute summer	S5	SW-1.004	S6	91.4	1.733	0.268	1.3869	
360 minute summer	S6	SW-1.005	S7	90.8	1.822	0.266	2.9504	
360 minute summer	S7	Flow through pond	S8	49.9	0.086	0.001	351.6147	
360 minute summer	S8	SW-1.006	S9	8.4	0.398	0.191	0.1989	
360 minute summer	S9	Hydro-Brake®	Outfall	8.4				519.1

Results for 100 year +40% CC +10% A 360 minute winter. 10080 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	SIC-1	184	135.920	0.045	9.5	0.0889	0.0000	OK
360 minute winter	SIC-2	184	134.340	0.065	11.7	0.0435	0.0000	OK
360 minute winter	SIC-3	184	133.957	0.046	12.8	0.0221	0.0000	OK
360 minute winter	S1	184	133.312	0.087	18.9	0.2207	0.0000	OK
360 minute winter	S2	184	133.089	0.113	29.9	0.3320	0.0000	OK
360 minute winter	S3	184	132.976	0.134	40.1	0.3650	0.0000	OK
360 minute winter	SIC-4	184	135.751	0.051	4.9	0.0648	0.0000	OK
360 minute winter	SIC-5	184	136.137	0.037	4.9	0.0470	0.0000	OK
360 minute winter	SIC-6	184	135.267	0.052	12.2	0.0287	0.0000	OK
360 minute winter	S4	184	132.855	0.146	60.6	0.3513	0.0000	OK
360 minute winter	S5	184	132.459	0.134	60.5	0.2372	0.0000	OK
360 minute winter	S6	184	132.162	0.129	60.4	0.2286	0.0000	OK
360 minute winter	S7	344	132.113	1.001	60.3	0.0000	0.0000	OK
360 minute winter	S8	344	132.113	1.113	34.3	0.0000	0.0000	SURCHARGED
360 minute winter	S9	344	132.111	1.147	8.4	2.0268	0.0000	SURCHARGED
360 minute winter	Outfall	8	130.800	0.000	8.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SIC-1	PS-1.000	SIC-2	9.5	1.277	0.087	0.2774	
360 minute winter	SIC-2	PS-1.001	SIC-3	11.7	1.543	0.155	0.1330	
360 minute winter	SIC-3	PS-1.002	S1	12.8	2.312	0.079	0.0310	
360 minute winter	S1	SW-1.000	S2	18.9	1.011	0.111	0.4459	
360 minute winter	S2	SW-1.001	S3	29.8	0.848	0.131	0.9442	
360 minute winter	S3	SW-1.002	S4	40.1	0.954	0.176	1.1183	
360 minute winter	SIC-4	PS-2.000	SIC-6	4.9	0.927	0.246	0.1726	
360 minute winter	SIC-5	PS-3.000	SIC-6	4.9	1.455	0.130	0.0613	
360 minute winter	SIC-6	PS-2.001	S4	12.2	1.794	0.112	0.2037	
360 minute winter	S4	SW-1.003	S5	60.5	1.436	0.218	2.1918	
360 minute winter	S5	SW-1.004	S6	60.4	1.564	0.177	1.0159	
360 minute winter	S6	SW-1.005	S7	60.3	1.632	0.177	3.0150	
360 minute winter	S7	Flow through pond	S8	34.3	0.055	0.001	357.0321	
360 minute winter	S8	SW-1.006	S9	8.4	0.391	0.192	0.1989	
360 minute winter	S9	Hydro-Brake®	Outfall	8.4				519.9

Results for 100 year +40% CC +10% A 480 minute summer. 1920 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	SIC-1	248	135.925	0.049	11.6	0.0982	0.0000	OK
480 minute summer	SIC-2	248	134.347	0.072	14.3	0.0484	0.0000	OK
480 minute summer	SIC-3	248	133.963	0.051	15.6	0.0246	0.0000	OK
480 minute summer	S1	248	133.321	0.096	23.1	0.2454	0.0000	OK
480 minute summer	S2	248	133.102	0.126	36.4	0.3702	0.0000	OK
480 minute summer	S3	248	132.991	0.149	48.9	0.4079	0.0000	OK
480 minute summer	SIC-4	248	135.757	0.057	6.0	0.0723	0.0000	OK
480 minute summer	SIC-5	248	136.142	0.041	6.0	0.0522	0.0000	OK
480 minute summer	SIC-6	248	135.272	0.057	14.9	0.0318	0.0000	OK
480 minute summer	S4	248	132.872	0.163	73.9	0.3912	0.0000	OK
480 minute summer	S5	248	132.475	0.150	73.9	0.2650	0.0000	OK
480 minute summer	S6	248	132.177	0.144	73.9	0.2545	0.0000	OK
480 minute summer	S7	408	132.093	0.981	73.9	0.0000	0.0000	OK
480 minute summer	S8	408	132.093	1.093	41.3	0.0000	0.0000	SURCHARGED
480 minute summer	S9	408	132.091	1.127	8.4	1.9916	0.0000	SURCHARGED
480 minute summer	Outfall	8	130.800	0.000	8.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SIC-1	PS-1.000	SIC-2	11.6	1.349	0.107	0.3209	
480 minute summer	SIC-2	PS-1.001	SIC-3	14.3	1.624	0.190	0.1546	
480 minute summer	SIC-3	PS-1.002	S1	15.6	2.435	0.096	0.0359	
480 minute summer	S1	SW-1.000	S2	23.1	1.069	0.135	0.5167	
480 minute summer	S2	SW-1.001	S3	36.4	0.888	0.160	1.1009	
480 minute summer	S3	SW-1.002	S4	48.9	1.001	0.214	1.2998	
480 minute summer	SIC-4	PS-2.000	SIC-6	6.0	0.980	0.301	0.2002	
480 minute summer	SIC-5	PS-3.000	SIC-6	6.0	1.540	0.159	0.0709	
480 minute summer	SIC-6	PS-2.001	S4	14.9	1.898	0.138	0.2355	
480 minute summer	S4	SW-1.003	S5	73.9	1.509	0.266	2.5472	
480 minute summer	S5	SW-1.004	S6	73.9	1.645	0.217	1.1820	
480 minute summer	S6	SW-1.005	S7	73.9	1.725	0.217	2.8871	
480 minute summer	S7	Flow through pond	S8	41.3	0.068	0.001	347.2972	
480 minute summer	S8	SW-1.006	S9	8.4	0.388	0.190	0.1989	
480 minute summer	S9	Hydro-Brake®	Outfall	8.4				561.0

Results for 100 year +40% CC +10% A 480 minute winter. 1920 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	SIC-1	248	135.916	0.040	7.7	0.0803	0.0000	OK
480 minute winter	SIC-2	248	134.333	0.058	9.5	0.0391	0.0000	OK
480 minute winter	SIC-3	248	133.952	0.041	10.4	0.0198	0.0000	OK
480 minute winter	S1	248	133.303	0.078	15.4	0.1987	0.0000	OK
480 minute winter	S2	248	133.077	0.101	24.3	0.2973	0.0000	OK
480 minute winter	S3	248	132.961	0.119	32.6	0.3257	0.0000	OK
480 minute winter	SIC-4	248	135.746	0.046	4.0	0.0582	0.0000	OK
480 minute winter	SIC-5	248	136.134	0.034	4.0	0.0424	0.0000	OK
480 minute winter	SIC-6	248	135.262	0.047	9.9	0.0258	0.0000	OK
480 minute winter	S4	248	132.840	0.131	49.2	0.3147	0.0000	OK
480 minute winter	S5	248	132.445	0.120	49.2	0.2122	0.0000	OK
480 minute winter	S6	248	132.149	0.116	49.2	0.2055	0.0000	OK
480 minute winter	S7	440	132.102	0.990	49.2	0.0000	0.0000	OK
480 minute winter	S8	440	132.102	1.102	28.6	0.0000	0.0000	SURCHARGED
480 minute winter	S9	440	132.100	1.136	8.4	2.0080	0.0000	SURCHARGED
480 minute winter	Outfall	8	130.800	0.000	8.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SIC-1	PS-1.000	SIC-2	7.7	1.202	0.071	0.2391	
480 minute winter	SIC-2	PS-1.001	SIC-3	9.5	1.463	0.126	0.1142	
480 minute winter	SIC-3	PS-1.002	S1	10.4	2.189	0.064	0.0266	
480 minute winter	S1	SW-1.000	S2	15.4	0.956	0.090	0.3852	
480 minute winter	S2	SW-1.001	S3	24.3	0.809	0.107	0.8060	
480 minute winter	S3	SW-1.002	S4	32.6	0.907	0.143	0.9569	
480 minute winter	SIC-4	PS-2.000	SIC-6	4.0	0.878	0.201	0.1491	
480 minute winter	SIC-5	PS-3.000	SIC-6	4.0	1.375	0.106	0.0529	
480 minute winter	SIC-6	PS-2.001	S4	9.9	1.692	0.091	0.1756	
480 minute winter	S4	SW-1.003	S5	49.2	1.362	0.177	1.8790	
480 minute winter	S5	SW-1.004	S6	49.2	1.484	0.144	0.8723	
480 minute winter	S6	SW-1.005	S7	49.2	1.542	0.144	2.9520	
480 minute winter	S7	Flow through pond	S8	28.6	0.067	0.001	351.7623	
480 minute winter	S8	SW-1.006	S9	8.4	0.386	0.191	0.1989	
480 minute winter	S9	Hydro-Brake®	Outfall	8.4				563.0

Results for 100 year +40% CC +10% A 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	SIC-1	315	135.920	0.045	9.5	0.0890	0.0000	OK
600 minute summer	SIC-2	315	134.340	0.065	11.7	0.0435	0.0000	OK
600 minute summer	SIC-3	315	133.957	0.046	12.8	0.0221	0.0000	OK
600 minute summer	S1	315	133.312	0.087	18.9	0.2209	0.0000	OK
600 minute summer	S2	315	133.089	0.113	29.8	0.3317	0.0000	OK
600 minute summer	S3	315	132.976	0.134	40.1	0.3650	0.0000	OK
600 minute summer	SIC-4	315	135.752	0.051	4.9	0.0648	0.0000	OK
600 minute summer	SIC-5	315	136.137	0.037	4.9	0.0470	0.0000	OK
600 minute summer	SIC-6	315	135.267	0.052	12.2	0.0287	0.0000	OK
600 minute summer	S4	315	132.856	0.146	60.6	0.3516	0.0000	OK
600 minute summer	S5	315	132.459	0.134	60.6	0.2375	0.0000	OK
600 minute summer	S6	315	132.163	0.130	60.6	0.2291	0.0000	OK
600 minute summer	S7	465	132.083	0.971	60.6	0.0000	0.0000	OK
600 minute summer	S8	465	132.083	1.083	34.5	0.0000	0.0000	SURCHARGED
600 minute summer	S9	465	132.081	1.117	8.3	1.9741	0.0000	SURCHARGED
600 minute summer	Outfall	15	130.800	0.000	8.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SIC-1	PS-1.000	SIC-2	9.5	1.277	0.087	0.2776	
600 minute summer	SIC-2	PS-1.001	SIC-3	11.7	1.544	0.155	0.1331	
600 minute summer	SIC-3	PS-1.002	S1	12.8	2.313	0.079	0.0310	
600 minute summer	S1	SW-1.000	S2	18.9	1.012	0.111	0.4466	
600 minute summer	S2	SW-1.001	S3	29.8	0.848	0.131	0.9436	
600 minute summer	S3	SW-1.002	S4	40.1	0.954	0.176	1.1188	
600 minute summer	SIC-4	PS-2.000	SIC-6	4.9	0.928	0.246	0.1727	
600 minute summer	SIC-5	PS-3.000	SIC-6	4.9	1.455	0.130	0.0613	
600 minute summer	SIC-6	PS-2.001	S4	12.2	1.795	0.113	0.2039	
600 minute summer	S4	SW-1.003	S5	60.6	1.437	0.218	2.1949	
600 minute summer	S5	SW-1.004	S6	60.6	1.565	0.178	1.0183	
600 minute summer	S6	SW-1.005	S7	60.6	1.634	0.178	2.8133	
600 minute summer	S7	Flow through pond	S8	34.5	0.046	0.001	342.5634	
600 minute summer	S8	SW-1.006	S9	8.3	0.384	0.189	0.1989	
600 minute summer	S9	Hydro-Brake®	Outfall	8.3				594.6

Results for 100 year +40% CC +10% A 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	SIC-1	315	135.912	0.037	6.5	0.0739	0.0000	OK
600 minute winter	SIC-2	315	134.328	0.053	8.0	0.0358	0.0000	OK
600 minute winter	SIC-3	315	133.949	0.038	8.7	0.0180	0.0000	OK
600 minute winter	S1	315	133.296	0.071	12.9	0.1816	0.0000	OK
600 minute winter	S2	315	133.068	0.092	20.4	0.2709	0.0000	OK
600 minute winter	S3	315	132.951	0.109	27.4	0.2966	0.0000	OK
600 minute winter	SIC-4	315	135.743	0.042	3.4	0.0535	0.0000	OK
600 minute winter	SIC-5	315	136.131	0.031	3.4	0.0390	0.0000	OK
600 minute winter	SIC-6	315	135.258	0.043	8.4	0.0238	0.0000	OK
600 minute winter	S4	315	132.829	0.120	41.5	0.2881	0.0000	OK
600 minute winter	S5	315	132.435	0.110	41.5	0.1939	0.0000	OK
600 minute winter	S6	315	132.140	0.107	41.5	0.1883	0.0000	OK
600 minute winter	S7	480	132.087	0.975	41.5	0.0000	0.0000	OK
600 minute winter	S8	480	132.087	1.087	24.7	0.0000	0.0000	SURCHARGED
600 minute winter	S9	480	132.085	1.121	8.4	1.9810	0.0000	SURCHARGED
600 minute winter	Outfall	15	130.800	0.000	8.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SIC-1	PS-1.000	SIC-2	6.5	1.147	0.060	0.2116	
600 minute winter	SIC-2	PS-1.001	SIC-3	8.0	1.401	0.106	0.1005	
600 minute winter	SIC-3	PS-1.002	S1	8.7	2.085	0.054	0.0234	
600 minute winter	S1	SW-1.000	S2	12.9	0.909	0.076	0.3393	
600 minute winter	S2	SW-1.001	S3	20.4	0.776	0.089	0.7059	
600 minute winter	S3	SW-1.002	S4	27.4	0.866	0.120	0.8418	
600 minute winter	SIC-4	PS-2.000	SIC-6	3.4	0.839	0.171	0.1326	
600 minute winter	SIC-5	PS-3.000	SIC-6	3.4	1.313	0.090	0.0471	
600 minute winter	SIC-6	PS-2.001	S4	8.4	1.613	0.078	0.1563	
600 minute winter	S4	SW-1.003	S5	41.5	1.303	0.150	1.6570	
600 minute winter	S5	SW-1.004	S6	41.5	1.420	0.122	0.7693	
600 minute winter	S6	SW-1.005	S7	41.5	1.470	0.122	2.8409	
600 minute winter	S7	Flow through pond	S8	24.7	0.081	0.001	344.4221	
600 minute winter	S8	SW-1.006	S9	8.4	0.391	0.190	0.1989	
600 minute winter	S9	Hydro-Brake®	Outfall	8.4				597.1

Results for 100 year +40% CC +10% A 720 minute summer. 2160 minute analysis at 15 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	SIC-1	375	135.917	0.042	8.5	0.0842	0.0000	OK
720 minute summer	SIC-2	375	134.336	0.061	10.5	0.0412	0.0000	OK
720 minute summer	SIC-3	375	133.955	0.044	11.5	0.0209	0.0000	OK
720 minute summer	S1	375	133.307	0.082	17.0	0.2091	0.0000	OK
720 minute summer	S2	375	133.083	0.106	26.8	0.3133	0.0000	OK
720 minute summer	S3	375	132.968	0.126	36.0	0.3438	0.0000	OK
720 minute summer	SIC-4	375	135.749	0.049	4.4	0.0612	0.0000	OK
720 minute summer	SIC-5	375	136.135	0.035	4.4	0.0445	0.0000	OK
720 minute summer	SIC-6	375	135.264	0.049	10.9	0.0271	0.0000	OK
720 minute summer	S4	375	132.847	0.138	54.3	0.3316	0.0000	OK
720 minute summer	S5	375	132.452	0.127	54.3	0.2238	0.0000	OK
720 minute summer	S6	375	132.155	0.122	54.3	0.2163	0.0000	OK
720 minute summer	S7	540	132.075	0.963	54.3	0.0000	0.0000	OK
720 minute summer	S8	540	132.075	1.075	31.3	0.0000	0.0000	SURCHARGED
720 minute summer	S9	540	132.073	1.109	8.3	1.9591	0.0000	SURCHARGED
720 minute summer	Outfall	15	130.800	0.000	8.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SIC-1	PS-1.000	SIC-2	8.5	1.236	0.078	0.2567	
720 minute summer	SIC-2	PS-1.001	SIC-3	10.5	1.501	0.139	0.1229	
720 minute summer	SIC-3	PS-1.002	S1	11.5	2.247	0.071	0.0287	
720 minute summer	S1	SW-1.000	S2	17.0	0.983	0.100	0.4136	
720 minute summer	S2	SW-1.001	S3	26.8	0.828	0.118	0.8691	
720 minute summer	S3	SW-1.002	S4	36.0	0.930	0.158	1.0305	
720 minute summer	SIC-4	PS-2.000	SIC-6	4.4	0.901	0.221	0.1598	
720 minute summer	SIC-5	PS-3.000	SIC-6	4.4	1.412	0.117	0.0567	
720 minute summer	SIC-6	PS-2.001	S4	10.9	1.739	0.101	0.1881	
720 minute summer	S4	SW-1.003	S5	54.3	1.397	0.196	2.0216	
720 minute summer	S5	SW-1.004	S6	54.3	1.522	0.159	0.9384	
720 minute summer	S6	SW-1.005	S7	54.3	1.585	0.159	2.7808	
720 minute summer	S7	Flow through pond	S8	31.3	0.046	0.001	338.4980	
720 minute summer	S8	SW-1.006	S9	8.3	0.436	0.189	0.1989	
720 minute summer	S9	Hydro-Brake®	Outfall	8.3				626.1

Results for 100 year +40% CC +10% A 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	SIC-1	375	135.910	0.035	5.7	0.0694	0.0000	OK
720 minute winter	SIC-2	375	134.325	0.050	7.0	0.0334	0.0000	OK
720 minute winter	SIC-3	375	133.946	0.035	7.7	0.0169	0.0000	OK
720 minute winter	S1	375	133.292	0.067	11.4	0.1707	0.0000	OK
720 minute winter	S2	375	133.062	0.086	18.0	0.2536	0.0000	OK
720 minute winter	S3	375	132.944	0.102	24.2	0.2775	0.0000	OK
720 minute winter	SIC-4	375	135.740	0.040	3.0	0.0501	0.0000	OK
720 minute winter	SIC-5	375	136.129	0.029	3.0	0.0367	0.0000	OK
720 minute winter	SIC-6	375	135.255	0.040	7.4	0.0223	0.0000	OK
720 minute winter	S4	375	132.822	0.113	36.6	0.2701	0.0000	OK
720 minute winter	S5	375	132.428	0.103	36.6	0.1815	0.0000	OK
720 minute winter	S6	375	132.133	0.100	36.6	0.1766	0.0000	OK
720 minute winter	S7	555	132.075	0.963	36.6	0.0000	0.0000	OK
720 minute winter	S8	555	132.075	1.075	22.2	0.0000	0.0000	SURCHARGED
720 minute winter	S9	555	132.073	1.109	8.3	1.9591	0.0000	SURCHARGED
720 minute winter	Outfall	15	130.800	0.000	8.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SIC-1	PS-1.000	SIC-2	5.7	1.106	0.052	0.1921	
720 minute winter	SIC-2	PS-1.001	SIC-3	7.0	1.348	0.093	0.0913	
720 minute winter	SIC-3	PS-1.002	S1	7.7	2.020	0.048	0.0214	
720 minute winter	S1	SW-1.000	S2	11.4	0.878	0.067	0.3106	
720 minute winter	S2	SW-1.001	S3	18.0	0.752	0.079	0.6424	
720 minute winter	S3	SW-1.002	S4	24.2	0.839	0.106	0.7676	
720 minute winter	SIC-4	PS-2.000	SIC-6	3.0	0.810	0.151	0.1212	
720 minute winter	SIC-5	PS-3.000	SIC-6	3.0	1.266	0.080	0.0431	
720 minute winter	SIC-6	PS-2.001	S4	7.4	1.554	0.068	0.1428	
720 minute winter	S4	SW-1.003	S5	36.6	1.261	0.132	1.5111	
720 minute winter	S5	SW-1.004	S6	36.6	1.374	0.107	0.7012	
720 minute winter	S6	SW-1.005	S7	36.6	1.420	0.107	2.7846	
720 minute winter	S7	Flow through pond	S8	22.2	0.059	0.001	338.4953	
720 minute winter	S8	SW-1.006	S9	8.3	0.442	0.189	0.1989	
720 minute winter	S9	Hydro-Brake®	Outfall	8.3				627.8

Results for 100 year +40% CC +10% A 960 minute summer. 2400 minute analysis at 15 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	SIC-1	495	135.914	0.039	7.0	0.0766	0.0000	OK
960 minute summer	SIC-2	495	134.330	0.055	8.6	0.0372	0.0000	OK
960 minute summer	SIC-3	495	133.950	0.039	9.4	0.0188	0.0000	OK
960 minute summer	S1	495	133.299	0.074	13.9	0.1886	0.0000	OK
960 minute summer	S2	495	133.072	0.096	21.9	0.2811	0.0000	OK
960 minute summer	S3	495	132.955	0.113	29.5	0.3086	0.0000	OK
960 minute summer	SIC-4	495	135.744	0.044	3.6	0.0551	0.0000	OK
960 minute summer	SIC-5	495	136.132	0.032	3.6	0.0402	0.0000	OK
960 minute summer	SIC-6	495	135.259	0.044	9.0	0.0246	0.0000	OK
960 minute summer	S4	495	132.834	0.125	44.6	0.2990	0.0000	OK
960 minute summer	S5	495	132.439	0.114	44.6	0.2014	0.0000	OK
960 minute summer	S6	495	132.144	0.111	44.6	0.1955	0.0000	OK
960 minute summer	S7	675	132.052	0.940	44.6	0.0000	0.0000	OK
960 minute summer	S8	675	132.052	1.052	26.2	0.0000	0.0000	SURCHARGED
960 minute summer	S9	675	132.050	1.086	8.2	1.9191	0.0000	SURCHARGED
960 minute summer	Outfall	15	130.800	0.000	8.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SIC-1	PS-1.000	SIC-2	7.0	1.172	0.064	0.2228	
960 minute summer	SIC-2	PS-1.001	SIC-3	8.6	1.425	0.114	0.1060	
960 minute summer	SIC-3	PS-1.002	S1	9.4	2.129	0.058	0.0247	
960 minute summer	S1	SW-1.000	S2	13.9	0.928	0.082	0.3578	
960 minute summer	S2	SW-1.001	S3	21.9	0.788	0.096	0.7459	
960 minute summer	S3	SW-1.002	S4	29.5	0.883	0.129	0.8891	
960 minute summer	SIC-4	PS-2.000	SIC-6	3.6	0.852	0.181	0.1381	
960 minute summer	SIC-5	PS-3.000	SIC-6	3.6	1.334	0.095	0.0491	
960 minute summer	SIC-6	PS-2.001	S4	9.0	1.646	0.083	0.1640	
960 minute summer	S4	SW-1.003	S5	44.6	1.328	0.161	1.7477	
960 minute summer	S5	SW-1.004	S6	44.6	1.446	0.131	0.8113	
960 minute summer	S6	SW-1.005	S7	44.6	1.500	0.131	2.6765	
960 minute summer	S7	Flow through pond	S8	26.2	0.049	0.001	327.6409	
960 minute summer	S8	SW-1.006	S9	8.2	0.446	0.187	0.1989	
960 minute summer	S9	Hydro-Brake®	Outfall	8.2				675.5

Results for 100 year +40% CC +10% A 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	SIC-1	495	135.907	0.032	4.6	0.0625	0.0000	OK
960 minute winter	SIC-2	495	134.320	0.045	5.7	0.0302	0.0000	OK
960 minute winter	SIC-3	495	133.943	0.032	6.2	0.0151	0.0000	OK
960 minute winter	S1	495	133.285	0.060	9.2	0.1532	0.0000	OK
960 minute winter	S2	495	133.053	0.077	14.5	0.2269	0.0000	OK
960 minute winter	S3	495	132.933	0.091	19.5	0.2474	0.0000	OK
960 minute winter	SIC-4	495	135.736	0.036	2.4	0.0447	0.0000	OK
960 minute winter	SIC-5	495	136.126	0.026	2.4	0.0328	0.0000	OK
960 minute winter	SIC-6	495	135.251	0.036	6.0	0.0201	0.0000	OK
960 minute winter	S4	495	132.810	0.101	29.6	0.2423	0.0000	OK
960 minute winter	S5	495	132.417	0.092	29.6	0.1625	0.0000	OK
960 minute winter	S6	495	132.123	0.090	29.6	0.1587	0.0000	OK
960 minute winter	S7	720	132.038	0.926	29.6	0.0000	0.0000	OK
960 minute winter	S8	720	132.038	1.038	18.5	0.0000	0.0000	SURCHARGED
960 minute winter	S9	720	132.036	1.072	8.2	1.8944	0.0000	SURCHARGED
960 minute winter	Outfall	15	130.800	0.000	8.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SIC-1	PS-1.000	SIC-2	4.6	1.035	0.042	0.1659	
960 minute winter	SIC-2	PS-1.001	SIC-3	5.7	1.279	0.076	0.0784	
960 minute winter	SIC-3	PS-1.002	S1	6.2	1.901	0.038	0.0183	
960 minute winter	S1	SW-1.000	S2	9.2	0.826	0.054	0.2663	
960 minute winter	S2	SW-1.001	S3	14.5	0.713	0.064	0.5462	
960 minute winter	S3	SW-1.002	S4	19.5	0.792	0.086	0.6551	
960 minute winter	SIC-4	PS-2.000	SIC-6	2.4	0.760	0.121	0.1033	
960 minute winter	SIC-5	PS-3.000	SIC-6	2.4	1.186	0.064	0.0368	
960 minute winter	SIC-6	PS-2.001	S4	6.0	1.463	0.055	0.1230	
960 minute winter	S4	SW-1.003	S5	29.6	1.191	0.107	1.2933	
960 minute winter	S5	SW-1.004	S6	29.6	1.297	0.087	0.6004	
960 minute winter	S6	SW-1.005	S7	29.6	1.336	0.087	2.6028	
960 minute winter	S7	Flow through pond	S8	18.5	0.028	0.000	321.0706	
960 minute winter	S8	SW-1.006	S9	8.2	0.429	0.187	0.1989	
960 minute winter	S9	Hydro-Brake®	Outfall	8.2				676.1

Results for 100 year +40% CC +10% A 1440 minute summer. 2880 minute analysis at 30 minute timestep. Mass balance: 99.99

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	SIC-1	750	135.908	0.033	5.1	0.0657	0.0000	OK
1440 minute summer	SIC-2	750	134.322	0.047	6.3	0.0317	0.0000	OK
1440 minute summer	SIC-3	750	133.944	0.033	6.9	0.0160	0.0000	OK
1440 minute summer	S1	750	133.288	0.063	10.2	0.1614	0.0000	OK
1440 minute summer	S2	750	133.057	0.081	16.1	0.2396	0.0000	OK
1440 minute summer	S3	750	132.938	0.096	21.6	0.2613	0.0000	OK
1440 minute summer	SIC-4	750	135.737	0.037	2.6	0.0466	0.0000	OK
1440 minute summer	SIC-5	750	136.127	0.027	2.6	0.0342	0.0000	OK
1440 minute summer	SIC-6	750	135.253	0.038	6.5	0.0209	0.0000	OK
1440 minute summer	S4	750	132.815	0.106	32.5	0.2542	0.0000	OK
1440 minute summer	S5	750	132.422	0.097	32.5	0.1706	0.0000	OK
1440 minute summer	S6	750	132.127	0.094	32.5	0.1663	0.0000	OK
1440 minute summer	S7	960	132.001	0.889	32.5	0.0000	0.0000	OK
1440 minute summer	S8	960	132.001	1.001	20.1	0.0000	0.0000	SURCHARGED
1440 minute summer	S9	960	131.999	1.035	8.2	1.8296	0.0000	SURCHARGED
1440 minute summer	Outfall	30	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SIC-1	PS-1.000	SIC-2	5.1	1.069	0.047	0.1782	
1440 minute summer	SIC-2	PS-1.001	SIC-3	6.3	1.313	0.084	0.0845	
1440 minute summer	SIC-3	PS-1.002	S1	6.9	1.958	0.043	0.0197	
1440 minute summer	S1	SW-1.000	S2	10.2	0.850	0.060	0.2868	
1440 minute summer	S2	SW-1.001	S3	16.1	0.732	0.071	0.5905	
1440 minute summer	S3	SW-1.002	S4	21.6	0.816	0.095	0.7044	
1440 minute summer	SIC-4	PS-2.000	SIC-6	2.6	0.777	0.131	0.1094	
1440 minute summer	SIC-5	PS-3.000	SIC-6	2.6	1.214	0.069	0.0390	
1440 minute summer	SIC-6	PS-2.001	S4	6.5	1.497	0.060	0.1303	
1440 minute summer	S4	SW-1.003	S5	32.5	1.221	0.117	1.3849	
1440 minute summer	S5	SW-1.004	S6	32.5	1.330	0.095	0.6427	
1440 minute summer	S6	SW-1.005	S7	32.5	1.372	0.095	2.3770	
1440 minute summer	S7	Flow through pond	S8	20.1	0.021	0.000	304.0922	
1440 minute summer	S8	SW-1.006	S9	8.2	0.385	0.185	0.1989	
1440 minute summer	S9	Hydro-Brake®	Outfall	8.1				750.4

Results for 100 year +40% CC +10% A 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SIC-1	750	135.902	0.027	3.4	0.0541	0.0000	OK
1440 minute winter	SIC-2	750	134.314	0.039	4.2	0.0260	0.0000	OK
1440 minute winter	SIC-3	750	133.938	0.027	4.6	0.0130	0.0000	OK
1440 minute winter	S1	750	133.277	0.052	6.8	0.1319	0.0000	OK
1440 minute winter	S2	750	133.042	0.066	10.7	0.1942	0.0000	OK
1440 minute winter	S3	750	132.920	0.077	14.4	0.2115	0.0000	OK
1440 minute winter	SIC-4	750	135.731	0.031	1.8	0.0387	0.0000	OK
1440 minute winter	SIC-5	750	136.123	0.023	1.8	0.0285	0.0000	OK
1440 minute winter	SIC-6	750	135.247	0.032	4.5	0.0175	0.0000	OK
1440 minute winter	S4	750	132.796	0.087	21.9	0.2083	0.0000	OK
1440 minute winter	S5	750	132.404	0.079	21.9	0.1395	0.0000	OK
1440 minute winter	S6	750	132.110	0.077	21.9	0.1367	0.0000	OK
1440 minute winter	S7	1020	131.957	0.845	21.9	0.0000	0.0000	OK
1440 minute winter	S8	1020	131.957	0.957	14.9	0.0000	0.0000	SURCHARGED
1440 minute winter	S9	1020	131.955	0.991	8.2	1.7513	0.0000	SURCHARGED
1440 minute winter	Outfall	30	130.800	0.000	8.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SIC-1	PS-1.000	SIC-2	3.4	0.949	0.031	0.1338	
1440 minute winter	SIC-2	PS-1.001	SIC-3	4.2	1.173	0.056	0.0630	
1440 minute winter	SIC-3	PS-1.002	S1	4.6	1.746	0.028	0.0148	
1440 minute winter	S1	SW-1.000	S2	6.8	0.757	0.040	0.2148	
1440 minute winter	S2	SW-1.001	S3	10.7	0.659	0.047	0.4357	
1440 minute winter	S3	SW-1.002	S4	14.4	0.730	0.063	0.5253	
1440 minute winter	SIC-4	PS-2.000	SIC-6	1.8	0.700	0.090	0.0841	
1440 minute winter	SIC-5	PS-3.000	SIC-6	1.8	1.092	0.048	0.0300	
1440 minute winter	SIC-6	PS-2.001	S4	4.5	1.345	0.042	0.1004	
1440 minute winter	S4	SW-1.003	S5	21.9	1.096	0.079	1.0397	
1440 minute winter	S5	SW-1.004	S6	21.9	1.193	0.064	0.4828	
1440 minute winter	S6	SW-1.005	S7	21.9	1.223	0.064	2.0751	
1440 minute winter	S7	Flow through pond	S8	14.9	0.027	0.000	284.1120	
1440 minute winter	S8	SW-1.006	S9	8.2	0.431	0.185	0.1989	
1440 minute winter	S9	Hydro-Brake®	Outfall	8.1				752.0