Lambe Planning & Design Ltd
Consultants for Planning, Design and Landscape

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Victoria Dock
Caernarfon
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LL55 1SQ

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Lambe Planning & Design Ltd Company No: 8207541

17th January 2023

Mrs Hilary Saunders MRTPI
Planning Team Leader
Development Management
North York Moors National Park Authority
The Old Vicarage, Bondgate
Helmsley, York, YO62 5BP

your ref: NYM/2022/0568

Dear Mrs Saunders,

Re: Upgrading and Restructuring of Ladycross Plantation Holiday Park. Client: Mr Kieran Robinson, Ladycross Plantation Holiday Park, Egton, Whitby, North Yorkshire, YO21 1UA.

I refer to your email of 13th December 2022 and write to provide the following clarification / information.

1). Site Area / Application Site.

Please find attached updated Site Location Plan as requested.

2). Ecology (re Zara Hanshaw's comments / request for clarification of 12th December 2022).

The offsite tree planting, which will offset the onsite losses and deliver net gain which has already been completed was undertaken as Pre-Application Planting for this scheme and was done prior to the planning application submission as Pre-Application Planting to :-

a). show goodwill that the additional planting would be undertaken.

b). enable early establishment of the planting due to the tight planting window - thus to enable for maximum establishment / and beneficial effect to be achieved as early as possible.

The Applicant confirms that this planting was done to create offset as part of this application, and did not form part of any alternative offsetting. The proposed upgrading of the park has been in its inception for over 4 years, hence the previous and ongoing pre-application enquiries with the NYMNPA dating back over the last two years, to fine tune the proposals and to enable the NYMNPA responses to inform the final scheme.

The purpose of this proposal is to merely restructure the existing consented Lodge layout into a more informal, low density layout. This will improve the layout, spacing, setting and aspect of the previously consented Lodges in this area, and make them more attractive to holidaymakers and improve the holiday product and also improve the biodiversity.

The park is already in existence and this proposal merely seeks to improve and restructure what is already there and what already has the benefit of planning consent.

Whilst we appreciate that the development doesn't meet the advocated 10% biodiversity Net Gain, this has not been formally adopted and is not a mandatory requirement. The scheme does delivery a biodiversity net gain, and is therefore an improvement over and above the existing position.

The scheme therefore does meet the advice provided by Zara Hanshaw in that Mitigation and Enhancement Habitat should be comparable to the habitats lost. The proposal therefore does allow for ecological functionality of the area to be consistent, and does provide an improvement over the existing situation.

Many other holiday parks are undergoing restructuring and upgrading and other new parks are being developed in the UK. It is essential that existing parks are allowed to upgrade and restructure to react to market forces and maintain desirability and quality.

A report prepared by Tourism Solutions – Self-Catering Shortage Study, advised that:-

"Trends in product development have pointed towards the development of higher quality units; people have increasingly experienced quality self-catering apartments & villas abroad and living standards generally have risen in the UK over the past 10 years. People continue to expect - and demand, quality that is at least as good as their own homes, and preferably better".

It is therefore essential that Ladycross is allowed to upgrade and restructure, this is specifically supported by the Local Development Plan and Government policies and guidance. To not enable this to proceed will have a significant detrimental impact upon this existing business, the local economy and employment in the area.

3). Foul Drainage etc

Please see the following documents which are being sent via WeTransfer due to file size :-

14491-2200-R00 - Proposed Drainage Layout
14491-2400-R00 - Proposed Hydrobrake Details
14491-2401-R00-Headwall Details
14491-2402-R00-Typical Details
14491-221220-SW HYDRAULIC MODEL
14491-230113-DRA
Permeable Paving -SuDS Maintenance
SHE-0061-2000-1500-2000_Design_Drawing
SHE-0137-8500-0900-8500_Design_Drawing

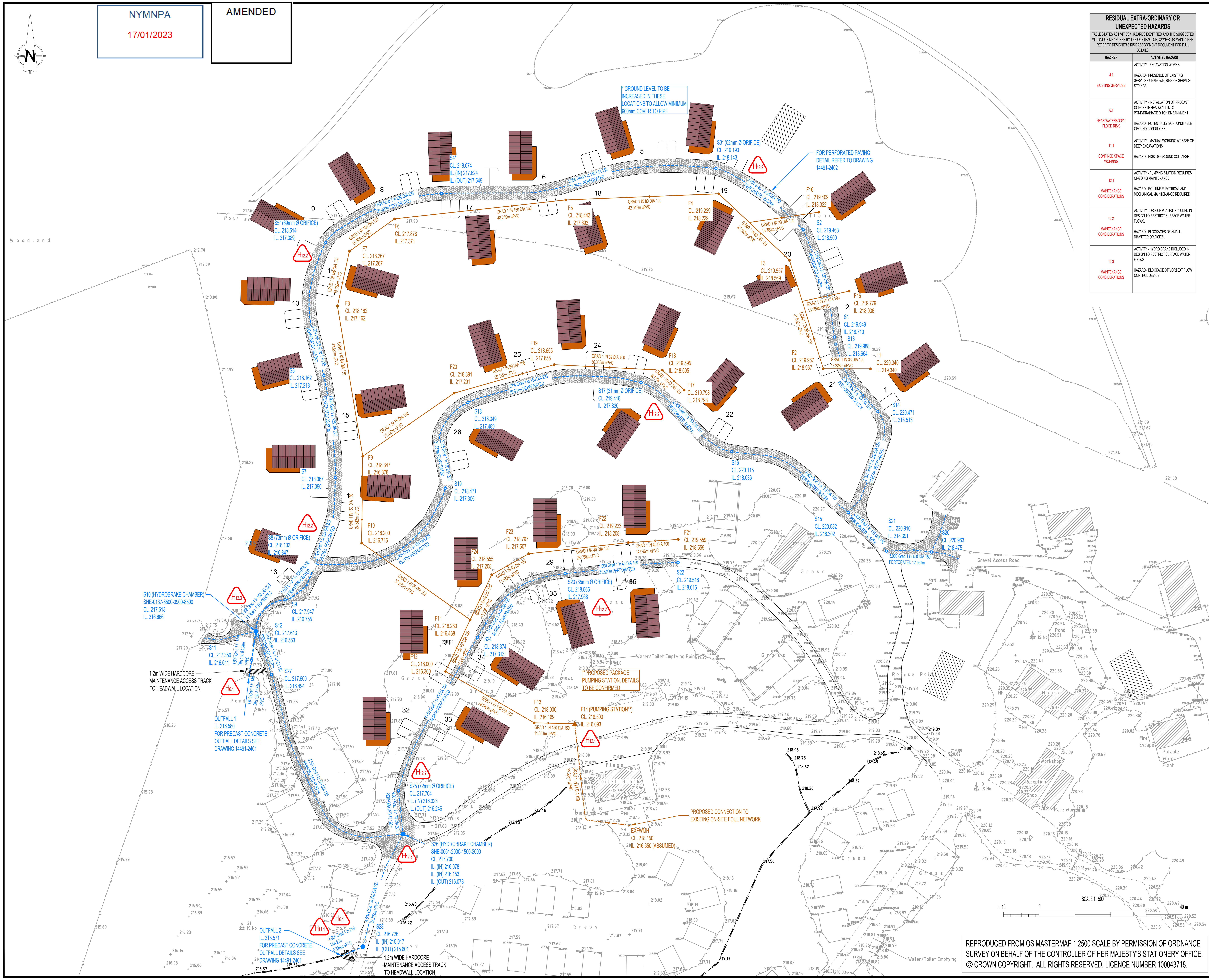
We trust that the above provides the necessary clarification.

Yours sincerely,

Jonathan Moore Lambe

NYMNPA
17/01/2023

AMENDED



RESIDUAL EXTRA-ORDINARY OR UNEXPECTED HAZARDS	
TABLE STATES ACTIVITIES / HAZARDS IDENTIFIED AND THE SUGGESTED MITIGATION MEASURES BY THE CONTRACTOR, OWNER OR MAINTAINER. REFER TO DESIGNER'S RISK ASSESSMENT DOCUMENT FOR FULL DETAILS.	
HAZ REF	ACTIVITY / HAZARD
4.1 EXISTING SERVICES	ACTIVITY - EXCAVATION WORKS HAZARD - PRESENCE OF EXISTING SERVICES UNKNOWN, RISK OF SERVICE STRIKES
6.1 NEAR WATERBODY / FLOOD RISK	ACTIVITY - INSTALLATION OF PRECAST CONCRETE HEADWALL INTO POND/DRAINAGE DITCH EMBANKMENT. HAZARD - POTENTIALLY SOFT/UNSTABLE GROUND CONDITIONS.
11.1 CONFINED SPACE WORKING	ACTIVITY - MANUAL WORKING AT BASE OF DEEP EXCAVATIONS. HAZARD - RISK OF GROUND COLLAPSE.
12.1 MAINTENANCE CONSIDERATIONS	ACTIVITY - PUMPING STATION REQUIRES ONGOING MAINTENANCE HAZARD - ROUTINE ELECTRICAL AND MECHANICAL MAINTENANCE REQUIRED
12.2 MAINTENANCE CONSIDERATIONS	ACTIVITY - ORIFICE PLATES INCLUDED IN DESIGN TO RESTRICT SURFACE WATER FLOWS. HAZARD - BLOCKAGES OF SMALL DIAMETER ORIFICE'S.
12.3 MAINTENANCE CONSIDERATIONS	ACTIVITY - HYDRO BRAKE INCLUDED IN DESIGN TO RESTRICT SURFACE WATER FLOWS. HAZARD - BLOCKAGE OF VORTEXT FLOW CONTROL DEVICE.

NOTES

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2. THIS DESIGN IS PROPOSED ON THE BASIS OF CLIENT BRIEF, SPECIFICATIONS, BEST PRACTICE AND RISK REDUCTION / ELIMINATION. THE DESIGNER MUST BE CONSULTED ON ANY PROPOSED CHANGES, BEFORE THEY ARE CONSIDERED FOR IMPLEMENTATION.
3. TOPOGRAPHICAL SURVEY DATA SHOWN HAS BEEN CARRIED OUT BY 'ALL THE B'S SURVEYS LTD, MAY 2020'.
4. THE POSITIONS OF THE APPARATUS OF STATUTORY UNDERTAKERS, HIGHWAY AUTHORITIES AND OTHERS CLOSE TO THE WORKS HAVE BEEN PROVIDED FOR INFORMATION ONLY, NO WARRANTY IS GIVEN AS TO THE ACCURACY OR COMPLETENESS OF THIS INFORMATION AND ERRORS AND OMISSIONS SHALL NOT BE TAKEN AS A CHANGE TO THE WORKS INFORMATION OR SCOPE OF WORKS. IN PARTICULAR, NO SERVICE CONNECTIONS TO INDIVIDUAL PROPERTIES ARE SHOWN. WHERE SERVICES ARE NOT SHOWN THIS SHALL NOT BE TAKEN AS EVIDENCE THAT NO SERVICES ARE PRESENT AND THE CONTRACTOR SHALL ENSURE HE HAS CONSULTED ALL RELEVANT RECORDS. THE CONTRACTOR SHALL CHECK AND CONFIRM THE POSITION OF ALL SERVICES PRIOR TO EXCAVATION.
5. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING NUMBERS:
   14491-2400 - HYDROBRAKE DETAILS
   14491-2401 - TYPICAL DETAILS
6. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH SEWERAGE SECTOR GUIDANCE (SSG) - APPENDIX C AND BUILDING REGULATIONS (PART H).

KEY

- H1.1 — AREA OF RESIDUAL EXTRAORDINARY / UNEXPECTED HAZARD. SEE DESIGNER'S RISK ASSESSMENT.
- PROPOSED SW DRAIN
- PROPOSED SW MANHOLE
- PROPOSED SW PPIC
- PROPOSED FW DRAIN
- PROPOSED FW PPIC
- PROPOSED FW PUMPING STATION
- PROPOSED FW RISING MAIN
- PROPOSED PERFORATED PAVING

REFERENCE CALCULATIONS
14491-221220-SW HYDRAULIC MODEL

CAUTION: THE MANAGEMENT AND DESIGN OF ANY AND ALL TEMPORARY WORKS REQUIRED TO EXECUTE THIS DESIGN ARE THE RESPONSIBILITY OF THE CONTRACTOR.

SITE LOCATION

GRID REFERENCE: E: 481878 N:508112
SITE ADDRESS: LADYCROSS PLANTATION CARAVAN PARK EGTON, WHITBY, YO21 1UA

REV.	DATE	DESCRIPTION	ORIG	CHK	APP
R00	13-01-2023	FIRST ISSUE	CF	AR	NJ

CLIENT
LADYCROSS PLANTATION HOLIDAY PARK

PRINCIPAL DESIGNER
LAMBE PLANNING & DESIGN

Waterco Ltd., Eden Court, Lon Parcwr Business Park, Ruthin LL15 1NJ
tel (+44) 1824 702220
www.waterco.co.uk

SCHEME
LADYCROSS PLANTATION HOLIDAY PARK, EGTON

TITLE
PROPOSED DRAINAGE LAYOUT

ORIGINATOR	CHECKED	APPROVED
C FREEMAN	A RUSSELL	N JONES

STATUS	SUITABILITY
APPROVAL	-

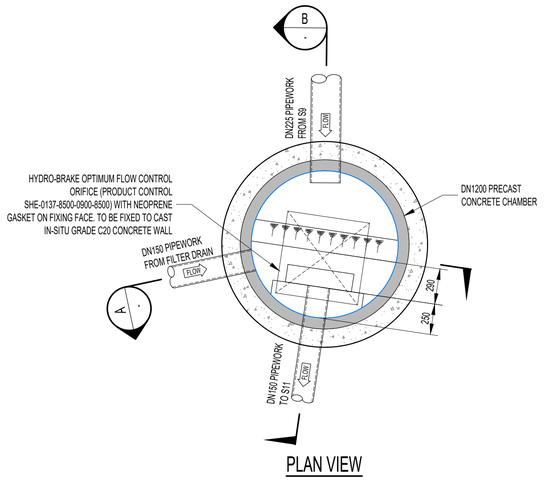
WATERCO SCHEME NO.	SCALE / SHEET SIZE	REV
14491	1 : 500 / A1	R00

DRAWING NO.
14491-2200

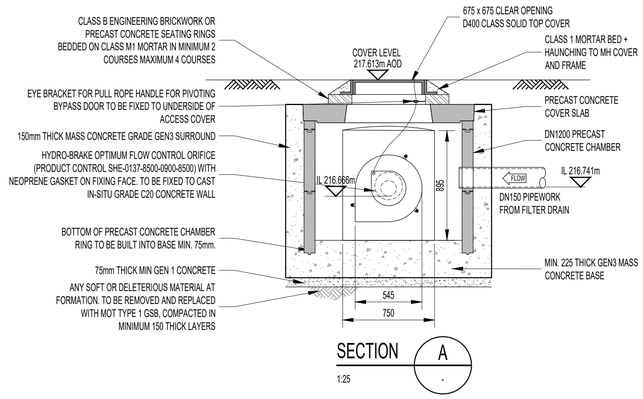
NYMNPA

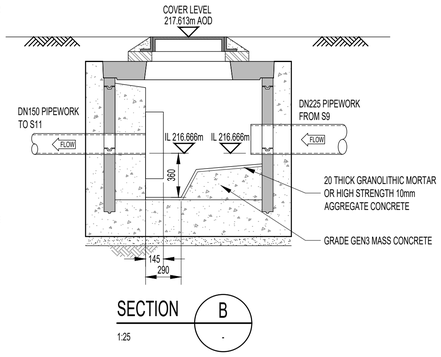
17/01/2023

AMENDED

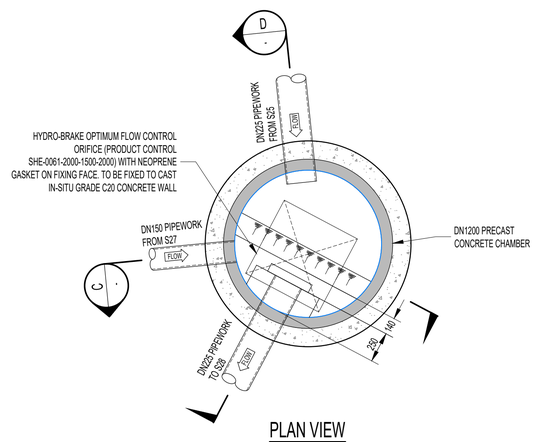


PLAN VIEW

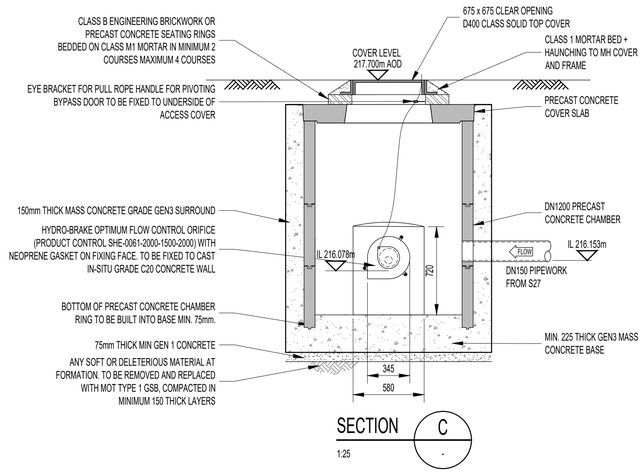


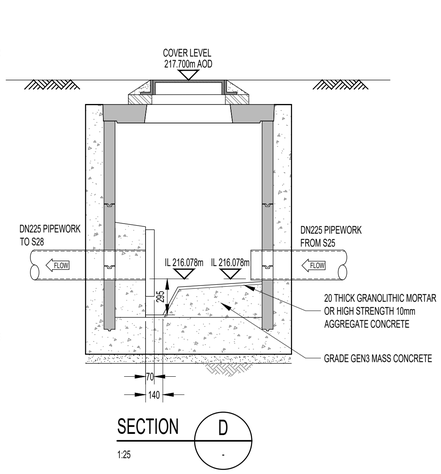


MANHOLE S10



PLAN VIEW





MANHOLE S26

SCALE 1 : 25

m 1 0 1m

NOTES

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5. THE PIPEWORK USED MUST BE APPROVED BY THE SEWERAGE UNDERTAKER WHERE THE OPTION IS GIVEN.
6. ALL PVC-U PIPEWORK MUST BE MANUFACTURED IN ACCORDANCE WITH BS EN 13476, MINIMUM STIFFNESS CLASS 8 AND APPROVED BY THE ADOPTING SEWERAGE UNDERTAKER.

REFERENCE CALCULATIONS

14491-221220-SW HYDRAULIC MODEL

REV.	DATE	DESCRIPTION	ORIG	CHK	APP
R00	13-01-2023	FIRST ISSUE	CF	AR	NJ

CLIENT

LADYCROSS PLANTATION HOLIDAY PARK

PRINCIPAL DESIGNER

LAMBE PLANNING & DESIGN

Waterco Ltd., Eden Court,
Lon Parcwr Business Park, Ruthin LL15 1NJ
tel (+44) 1824 702220
www.waterco.co.uk

SCHEME

LADYCROSS PLANTATION HOLIDAY PARK, EGTON

TITLE

PROPOSED HYDROBRAKE CHAMBERS

ORIGINATOR	CHECKED	APPROVED
C FREEMAN	A RUSSELL	N JONES

STATUS	SUITABILITY
APPROVAL	-

WATERCO SCHEME NO.	SCALE / SHEET SIZE	REV
14491	1 : 25 / A1	R00

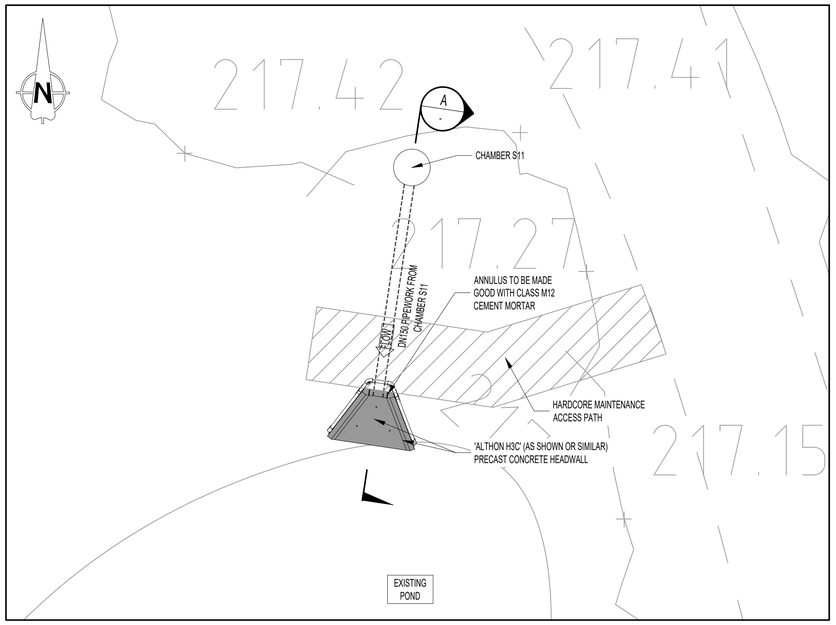
DRAWING NO.

14491-2400

NYMNPA

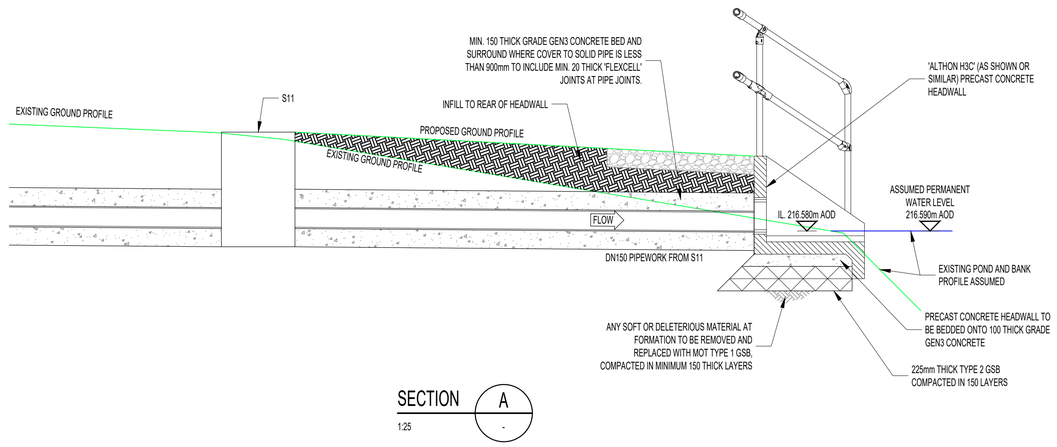
17/01/2023

AMENDED



PLAN

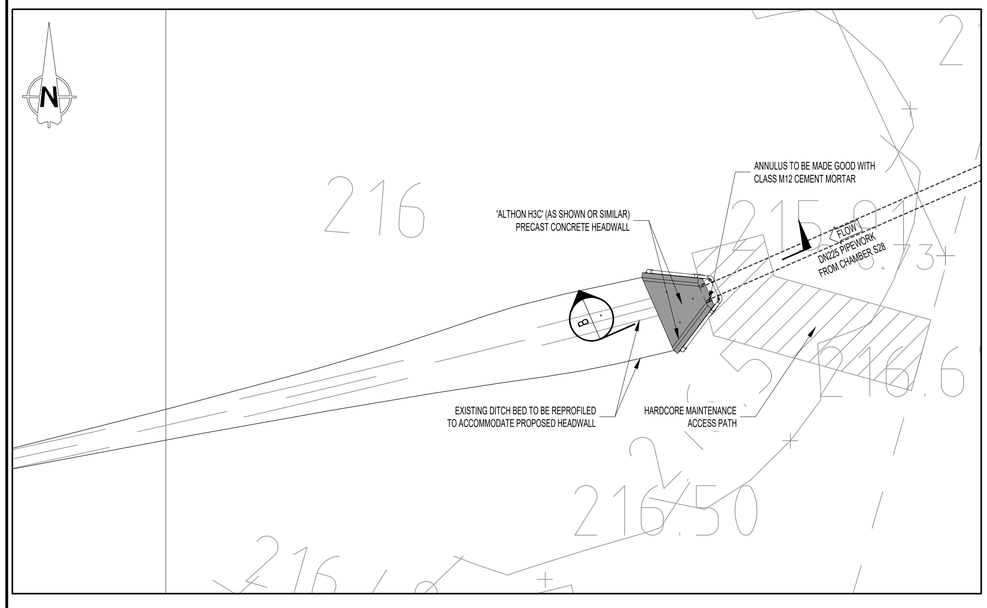
SCALE 1:50



SECTION A

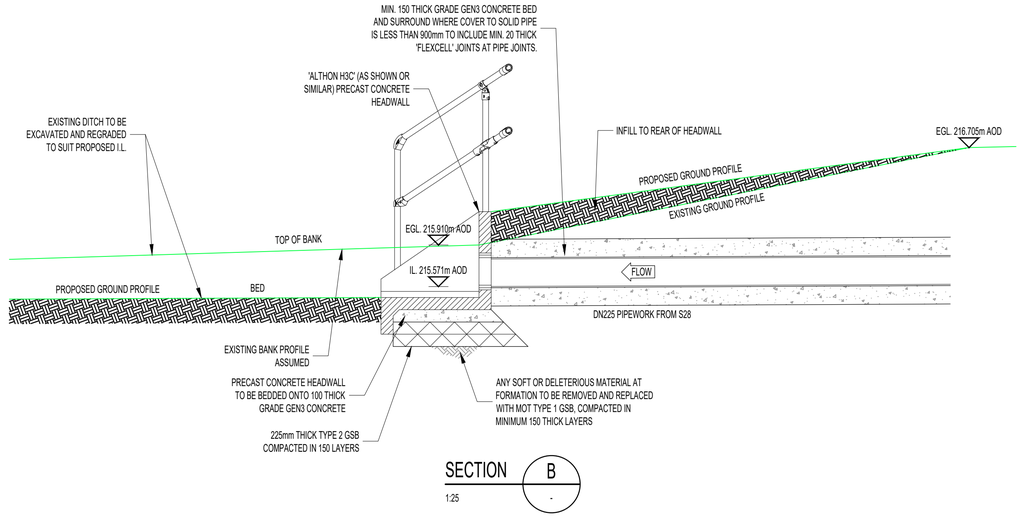
1:25

OUTFALL 1



PLAN

SCALE 1:50



SECTION B

1:25

OUTFALL 2

SCALE 1 : 25

m 1 0 1m

SCALE 1 : 50

m 1 0 4m

NOTES

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REFERENCE CALCULATIONS

14491-221220-SW HYDRAULIC MODEL

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REV.	DATE	DESCRIPTION	ORIG	CHK	APP
R00	23-01-2023	FIRST ISSUE	CF	AR	NJ

CLIENT

LADYCROSS PLANTATION HOLIDAY PARK

PRINCIPAL DESIGNER

LAMBE PLANNING & DESIGN

Waterco Ltd., Eden Court,
Lon Parcwr Business Park, Ruthin LL15 1NJ
tel (+44) 1824 702220
www.waterco.co.uk

SCHEME

LADYCROSS PLANTATION HOLIDAY PARK, EGTON

TITLE

PROPOSED OUTFALL DETAILS

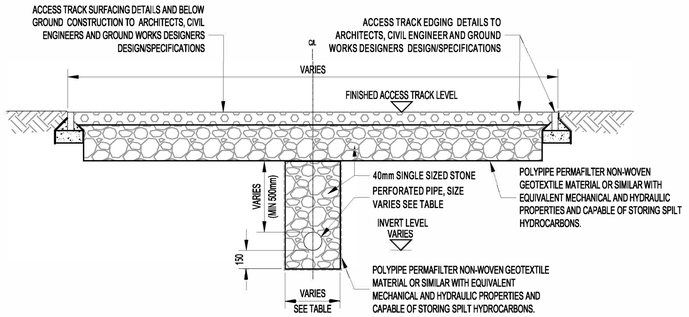
ORIGINATOR	CHECKED	APPROVED
C FREEMAN	A RUSSELL	N JONES

STATUS	SUITABILITY
APPROVAL	-

WATERCO SCHEME NO.	SCALE / SHEET SIZE	REV
14491	AS SHOWN / A1	R00

DRAWING NO.

14491-2401



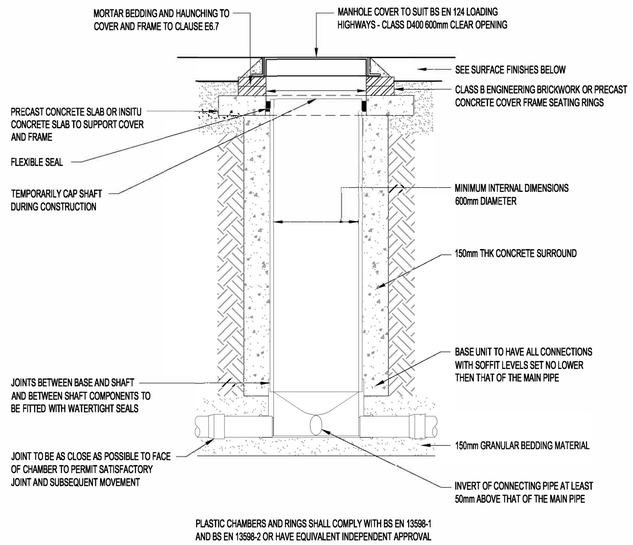
PERMEABLE ACCESS TRACK FILTER DRAIN DETAIL

SCALE 1:25

SURFACE WATER PIPE TRENCH DETAILS	
PIPE Ø (mm)	TRENCH WIDTH (mm)
150	450
225	525
300	600

NYMNPA
17/01/2023

AMENDED

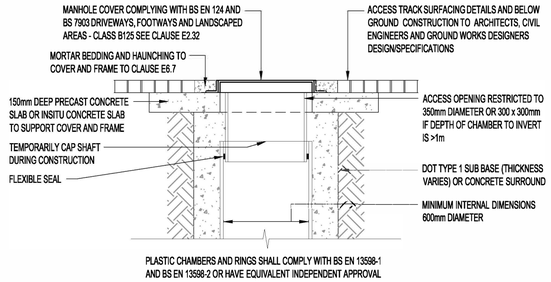


PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL

TYPICAL INSPECTION CHAMBER DETAIL MAX. DEPTH (GROUND LEVEL TO SOFFIT OF PIPE) 3.0m NON-ENTRY (FLEXIBLE MATERIAL DETAIL)

SCALE 1 : 25

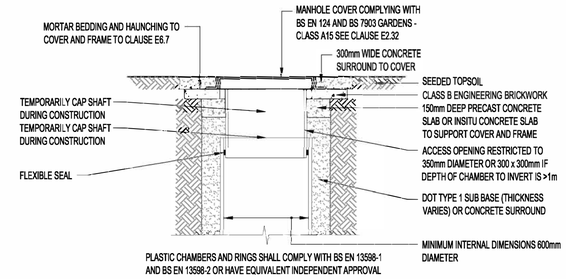
NOTE: PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL



PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL

SITED IN HARDCORE ACCESS ROAD OR PATH

(SCALE 1 : 25)



PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL

SITED IN GRASSED AREAS

SCALE 1 : 25

SCALE 1 : 25

m 1 0 1m

NOTES

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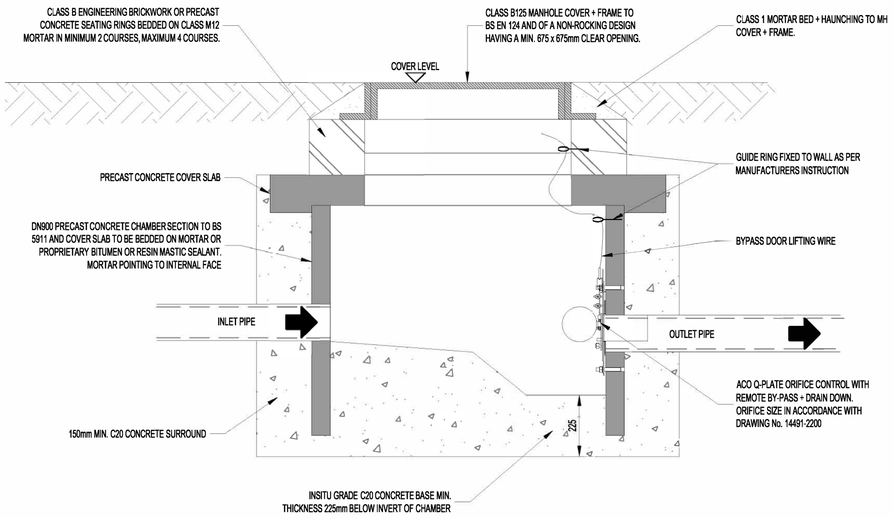
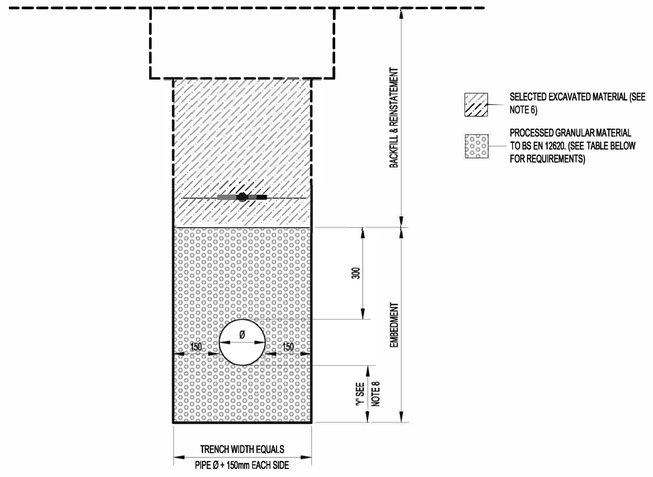
5. ALL PVC-U PIPEWORK MUST BE MANUFACTURED IN ACCORDANCE WITH BS EN 13476, MINIMUM STIFFNESS CLASS 8.
6. BACKFILL MATERIAL SHALL BE SELECTED FILL OBTAINED FROM EXCAVATED MATERIAL IN ACCORDANCE WITH SEWERAGE SECTOR GUIDANCE (SSG) - APPENDIX C AND BUILDING REGULATIONS (PART H), WHERE THIS IS AVAILABLE. ADDITIONAL MATERIAL TO MAKE UP ANY DEFICIENCY TO BE IMPORTED. THIS MATERIAL TO BE GRANULAR SUB-BASE TYPE 1 UNLESS STATED OTHERWISE.
7. JOINT HOLES TO BE PROVIDED IN PIPE BED TO ENSURE THAT PIPE RESTS ON ITS BARREL.
8. MINIMUM DEPTH 'Y' OF BED TO PIPE BARREL TO BE 100mm FOR PIPES UP TO AND INCLUDING 100mm DIA. NB, 150mm FOR PIPES GREATER THAN 100mm DIA. NB, AND 200mm FOR TRENCHES IN ROCK.
9. DESIGNER TO SPECIFY EMBEDMENT FILTER FABRIC SURROUND WHERE REQUIRED. REFER TO CONTRACT DOCUMENTS.



TYPICAL ORIFICE CONTROL CHAMBER DETAIL

SCALE 1 : 10



BEDDING CLASS S FOR FOUL DRAINAGE NETWORK

SCALE 1:10

NOMINAL SIZE OF GRANULAR MATERIAL (mm)			
D	TYPE S	TYPE S1	TYPE S2
UP TO 150mm	10\14 SINGLE SIZE OR 14>5 GRADED	10\14 SINGLE SIZE	14>5 GRADED

SCALE 1: 10

mm 100 0 1m

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REV.	DATE	DESCRIPTION	ORIG	CHK	APP
R00	13-01-2023	FIRST ISSUE	CF	AR	NJ

CLIENT

LADYCROSS PLANTATION HOLIDAY PARK

PRINCIPAL DESIGNER

LAMBE PLANNING & DESIGN

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tel (+44) 1824 702220
www.waterco.co.uk

SCHEME

LADYCROSS PLANTATION HOLIDAY PARK, EGTON

TITLE

TYPICAL DETAILS

ORIGINATOR	CHECKED	APPROVED
C FREEMAN	A RUSSELL	N JONES

STATUS	SUITABILITY
APPROVAL	-

WATERCO SCHEME NO.	SCALE / SHEET SIZE	REV
14491	AS SHOWN / A1	R00

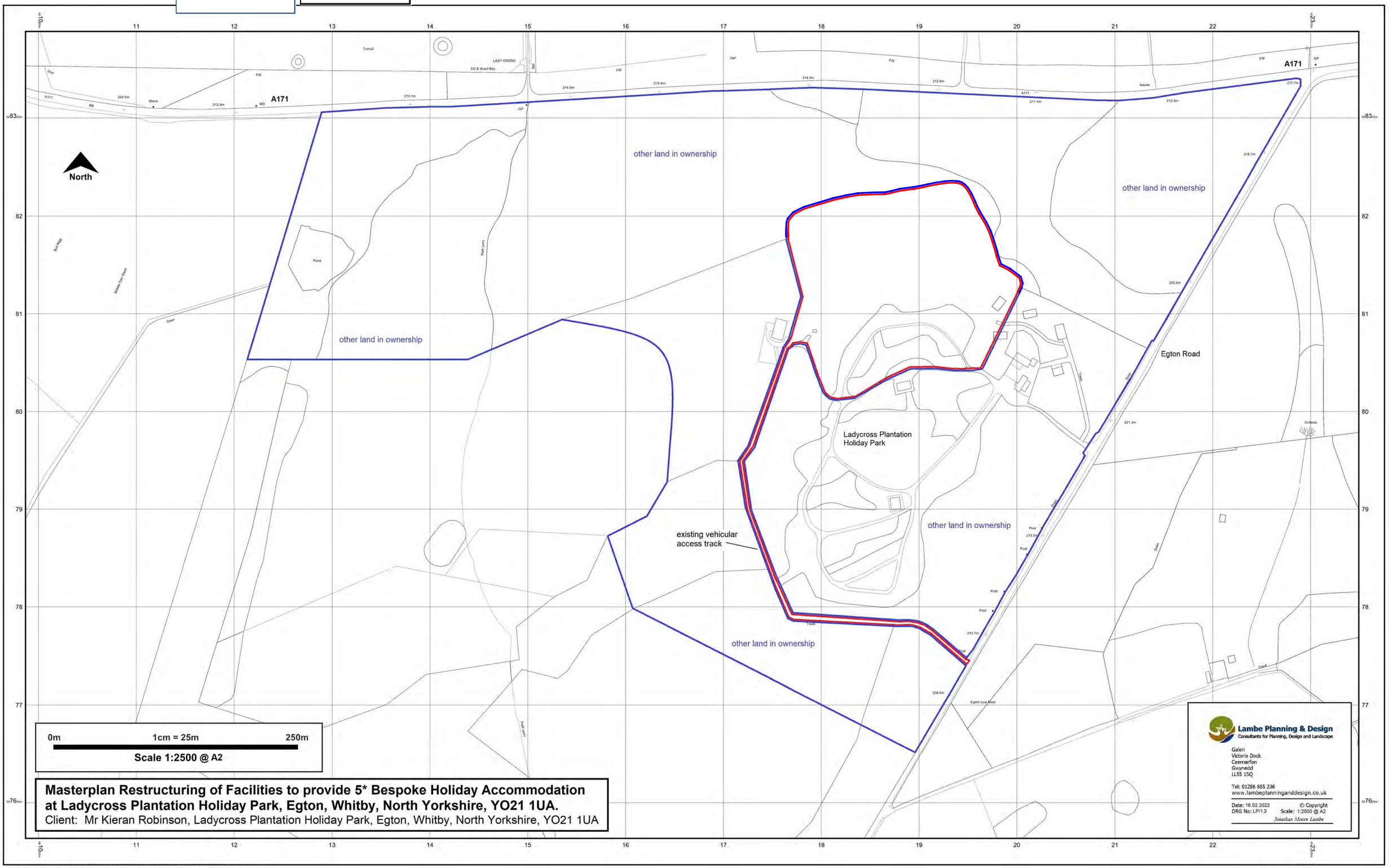
DRAWING NO.

14491-2402

Site Location Plan

NYMNPA
17/01/2023

AMENDED



Masterplan Restructuring of Facilities to provide 5* Bespoke Holiday Accommodation at Ladycross Plantation Holiday Park, Egton, Whitby, North Yorkshire, YO21 1UA.
Client: Mr Kieran Robinson, Ladycross Plantation Holiday Park, Egton, Whitby, North Yorkshire, YO21 1UA

Lambe Planning & Design
Consultants for Planning, Design and Landscape

Galeri
Victoria Dock
Caernarfon
Gwynedd
LL55 1SQ

Tel: 01286 685 236
www.lambeplanninganddesign.co.uk

Date: 16.02.2022
DRG No: LP/1.3 Scale: 1:2500 @ A2
Jonathan Moore Lambe

Serial No:194825
Centre Coordinates:481668,507976
Production Date: 30/09/2020 14:51:49

NYMNPA
17/01/2023

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1		5.00	219.949	600	481946.745	508152.576	1.239
2	0.028	5.00	219.463	600	481937.970	508182.637	0.963
3	0.028	5.00	219.193	600	481913.535	508199.809	1.050
4	0.070	5.00	218.674	600	481836.657	508192.821	1.125
5	0.022	5.00	218.514	600	481804.222	508179.059	1.125
6	0.047	5.00	218.162	600	481803.711	508141.811	0.944
7	0.027	5.00	218.367	600	481806.890	508113.194	1.277
13	0.026	5.00	219.988	600	481947.152	508150.618	1.324
14	0.011	5.00	220.471	600	481958.872	508131.671	1.958
20	0.002	5.00	220.963	600	481973.862	508092.349	2.488
21	0.007	5.00	220.910	600	481961.342	508092.587	2.519
15	0.005	5.00	220.582	600	481951.925	508102.140	2.280
16	0.016	5.00	220.115	600	481917.960	508120.470	2.079
17	0.021	5.00	219.418	600	481892.558	508139.829	1.598
18	0.051	5.00	218.349	600	481844.052	508134.244	0.860
19	0.020	5.00	218.471	600	481837.704	508110.154	1.166
8	0.019	5.00	218.102	600	481801.383	508088.919	1.255
9	0.014	5.00	217.947	600	481792.838	508078.918	1.192
22		5.00	219.516	600	481902.589	508089.395	0.900
23	0.024	5.00	218.866	600	481871.281	508086.265	0.898
24	0.032	5.00	218.374	600	481846.764	508068.448	1.061
25	0.044	5.00	217.704	600	481824.629	508025.461	1.458
28			216.726	1200	481814.627	507981.736	1.125
26	0.021	5.00	217.700	1200	481825.887	508013.327	1.622
27	0.004	5.00	217.600	600	481789.046	508057.999	1.106
10	0.008	5.00	217.613	1200	481784.669	508070.091	0.947
11			217.356	600	481783.466	508061.986	0.745
OUTFALL1			217.000	600	481782.795	508057.460	0.420
12		5.00	217.613	600	481785.092	508069.044	1.050
OUTFALL2			216.700	600	481808.764	507979.174	1.129

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	1	2	31.488	0.600	218.710	218.500	0.210	149.9	150	5.64	50.0
1.001	2	3	30.204	0.600	218.500	218.143	0.357	84.6	150	6.10	50.0
1.002	3	4	77.844	0.600	218.143	217.624	0.519	150.0	150	7.69	50.0
1.003	4	5	36.090	0.600	217.549	217.389	0.160	225.6	225	8.38	50.0
1.004	5	6	38.528	0.600	217.389	217.218	0.171	225.3	225	9.12	50.0
1.005	6	7	28.837	0.600	217.218	217.090	0.128	225.3	225	9.68	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.000	0.818	14.5	0.0	1.089	0.813	0.000	0.0
1.001	1.093	19.3	3.8	0.813	0.900	0.028	0.0
1.002	0.818	14.5	7.6	0.900	0.900	0.056	0.0
1.003	0.866	34.4	17.1	0.900	0.900	0.126	0.0
1.004	0.867	34.5	20.1	0.900	0.719	0.148	0.0
1.005	0.867	34.5	26.4	0.719	1.052	0.195	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.006	7	8	25.219	0.600	217.090	216.847	0.243	103.8	225	10.01	50.0
2.000	13	14	22.612	0.600	218.664	218.513	0.151	149.7	150	5.46	50.0
2.001	14	15	31.657	0.600	218.513	218.302	0.211	150.0	150	6.11	50.0
3.000	20	21	12.561	0.600	218.475	218.391	0.084	149.5	150	5.26	50.0
3.001	21	15	13.423	0.600	218.391	218.302	0.089	150.8	150	5.53	50.0
2.002	15	16	39.919	0.600	218.302	218.036	0.266	150.1	150	6.92	50.0
2.003	16	17	32.474	0.600	218.036	217.820	0.216	150.3	150	7.58	50.0
2.004	17	18	49.691	0.600	217.820	217.489	0.331	150.1	225	8.36	50.0
2.005	18	19	27.582	0.600	217.489	217.305	0.184	149.9	225	8.79	50.0
2.006	19	8	46.117	0.600	217.305	216.847	0.458	100.7	225	9.38	50.0
1.007	8	9	13.809	0.600	216.847	216.755	0.092	150.1	300	10.18	50.0
1.008	9	10	13.309	0.600	216.755	216.666	0.089	149.5	225	10.39	50.0
4.000	22	23	31.840	0.600	218.616	217.968	0.648	49.1	150	5.37	50.0
4.001	23	24	32.040	0.600	217.968	217.313	0.655	48.9	150	5.74	50.0
4.002	24	25	48.541	0.600	217.313	216.323	0.990	49.0	150	6.30	50.0
4.003	25	26	12.198	0.600	216.246	216.078	0.168	72.6	225	6.43	50.0
1.009	10	11	8.194	0.600	216.666	216.611	0.055	149.0	150	10.56	50.0
1.010	11	OUTFALL1	4.575	0.600	216.611	216.580	0.031	147.6	150	10.65	50.0
5.000	12	27	11.737	0.600	216.563	216.494	0.069	170.0	150	5.25	50.0
5.001	27	26	57.904	0.600	216.494	216.153	0.341	170.0	150	6.51	50.0
4.004	26	28	33.709	0.600	216.078	215.917	0.161	210.0	225	7.14	50.0
4.005	28	OUTFALL2	6.398	0.600	215.601	215.571	0.030	210.0	225	7.26	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.006	1.283	51.0	30.1	1.052	1.030	0.222	0.0
2.000	0.819	14.5	3.5	1.174	1.808	0.026	0.0
2.001	0.818	14.5	5.0	1.808	2.130	0.037	0.0
3.000	0.819	14.5	0.3	2.338	2.369	0.002	0.0
3.001	0.816	14.4	1.2	2.369	2.130	0.009	0.0
2.002	0.818	14.5	6.9	2.130	1.929	0.051	0.0
2.003	0.817	14.4	9.1	1.929	1.448	0.067	0.0
2.004	1.065	42.3	11.9	1.373	0.635	0.088	0.0
2.005	1.065	42.4	18.8	0.635	0.941	0.139	0.0
2.006	1.303	51.8	21.5	0.941	1.030	0.159	0.0
1.007	1.281	90.5	54.2	0.955	0.892	0.400	0.0
1.008	1.067	42.4	56.1	0.967	0.722	0.414	0.0
4.000	1.439	25.4	0.0	0.750	0.748	0.000	0.0
4.001	1.442	25.5	3.3	0.748	0.911	0.024	0.0
4.002	1.440	25.4	7.6	0.911	1.231	0.056	0.0
4.003	1.536	61.1	13.6	1.233	1.397	0.100	0.0
1.009	0.821	14.5	57.2	0.797	0.595	0.422	0.0
1.010	0.825	14.6	57.2	0.595	0.270	0.422	0.0
5.000	0.768	13.6	0.0	0.900	0.956	0.000	0.0
5.001	0.768	13.6	0.5	0.956	1.397	0.004	0.0
4.004	0.898	35.7	16.9	1.397	0.584	0.125	0.0
4.005	0.898	35.7	16.9	0.900	0.904	0.125	0.0

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	31.488	149.9	150	Circular_Default Sewer Type	219.949	218.710	1.089	219.463	218.500	0.813
1.001	30.204	84.6	150	Circular_Default Sewer Type	219.463	218.500	0.813	219.193	218.143	0.900
1.002	77.844	150.0	150	Circular_Default Sewer Type	219.193	218.143	0.900	218.674	217.624	0.900
1.003	36.090	225.6	225	Circular_Default Sewer Type	218.674	217.549	0.900	218.514	217.389	0.900
1.004	38.528	225.3	225	Circular_Default Sewer Type	218.514	217.389	0.900	218.162	217.218	0.719
1.005	28.837	225.3	225	Circular_Default Sewer Type	218.162	217.218	0.719	218.367	217.090	1.052
1.006	25.219	103.8	225	Circular_Default Sewer Type	218.367	217.090	1.052	218.102	216.847	1.030
2.000	22.612	149.7	150	Circular_Default Sewer Type	219.988	218.664	1.174	220.471	218.513	1.808
2.001	31.657	150.0	150	Circular_Default Sewer Type	220.471	218.513	1.808	220.582	218.302	2.130
3.000	12.561	149.5	150	Circular_Default Sewer Type	220.963	218.475	2.338	220.910	218.391	2.369
3.001	13.423	150.8	150	Circular_Default Sewer Type	220.910	218.391	2.369	220.582	218.302	2.130
2.002	39.919	150.1	150	Circular_Default Sewer Type	220.582	218.302	2.130	220.115	218.036	1.929
2.003	32.474	150.3	150	Circular_Default Sewer Type	220.115	218.036	1.929	219.418	217.820	1.448
2.004	49.691	150.1	225	Circular_Default Sewer Type	219.418	217.820	1.373	218.349	217.489	0.635
2.005	27.582	149.9	225	Circular_Default Sewer Type	218.349	217.489	0.635	218.471	217.305	0.941
2.006	46.117	100.7	225	Circular_Default Sewer Type	218.471	217.305	0.941	218.102	216.847	1.030
1.007	13.809	150.1	300	Circular_Default Sewer Type	218.102	216.847	0.955	217.947	216.755	0.892
1.008	13.309	149.5	225	Circular_Default Sewer Type	217.947	216.755	0.967	217.613	216.666	0.722
4.000	31.840	49.1	150	Circular_Default Sewer Type	219.516	218.616	0.750	218.866	217.968	0.748
4.001	32.040	48.9	150	Circular_Default Sewer Type	218.866	217.968	0.748	218.374	217.313	0.911
4.002	48.541	49.0	150	Circular_Default Sewer Type	218.374	217.313	0.911	217.704	216.323	1.231
4.003	12.198	72.6	225	Circular_Default Sewer Type	217.704	216.246	1.233	217.700	216.078	1.397
1.009	8.194	149.0	150	Circular_Default Sewer Type	217.613	216.666	0.797	217.356	216.611	0.595
1.010	4.575	147.6	150	Circular_Default Sewer Type	217.356	216.611	0.595	217.000	216.580	0.270
5.000	11.737	170.0	150	Circular_Default Sewer Type	217.613	216.563	0.900	217.600	216.494	0.956

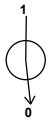
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	600	Manhole	Adoptable	2	600	Manhole	Adoptable
1.001	2	600	Manhole	Adoptable	3	600	Manhole	Adoptable
1.002	3	600	Manhole	Adoptable	4	600	Manhole	Adoptable
1.003	4	600	Manhole	Adoptable	5	600	Manhole	Adoptable
1.004	5	600	Manhole	Adoptable	6	600	Manhole	Adoptable
1.005	6	600	Manhole	Adoptable	7	600	Manhole	Adoptable
1.006	7	600	Manhole	Adoptable	8	600	Manhole	Adoptable
2.000	13	600	Manhole	Adoptable	14	600	Manhole	Adoptable
2.001	14	600	Manhole	Adoptable	15	600	Manhole	Adoptable
3.000	20	600	Manhole	Adoptable	21	600	Manhole	Adoptable
3.001	21	600	Manhole	Adoptable	15	600	Manhole	Adoptable
2.002	15	600	Manhole	Adoptable	16	600	Manhole	Adoptable
2.003	16	600	Manhole	Adoptable	17	600	Manhole	Adoptable
2.004	17	600	Manhole	Adoptable	18	600	Manhole	Adoptable
2.005	18	600	Manhole	Adoptable	19	600	Manhole	Adoptable
2.006	19	600	Manhole	Adoptable	8	600	Manhole	Adoptable
1.007	8	600	Manhole	Adoptable	9	600	Manhole	Adoptable
1.008	9	600	Manhole	Adoptable	10	1200	Manhole	Adoptable
4.000	22	600	Manhole	Adoptable	23	600	Manhole	Adoptable
4.001	23	600	Manhole	Adoptable	24	600	Manhole	Adoptable
4.002	24	600	Manhole	Adoptable	25	600	Manhole	Adoptable
4.003	25	600	Manhole	Adoptable	26	1200	Manhole	Adoptable
1.009	10	1200	Manhole	Adoptable	11	600	Manhole	Adoptable
1.010	11	600	Manhole	Adoptable	OUTFALL1	600	Manhole	Adoptable
5.000	12	600	Manhole	Adoptable	27	600	Manhole	Adoptable

Pipeline Schedule

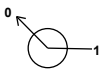
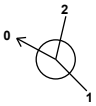
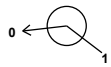
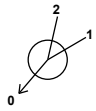
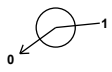
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
5.001	57.904	170.0	150	Circular_Default Sewer Type	217.600	216.494	0.956	217.700	216.153	1.397
4.004	33.709	210.0	225	Circular_Default Sewer Type	217.700	216.078	1.397	216.726	215.917	0.584
4.005	6.398	210.0	225	Circular_Default Sewer Type	216.726	215.601	0.900	216.700	215.571	0.904

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
5.001	27	600	Manhole	Adoptable	26	1200	Manhole	Adoptable
4.004	26	1200	Manhole	Adoptable	28	1200	Manhole	Adoptable
4.005	28	1200	Manhole	Adoptable	OUTFALL2	600	Manhole	Adoptable

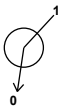
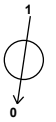
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
1	481946.745	508152.576	219.949	1.239	600		0	1.000	218.710	150
2	481937.970	508182.637	219.463	0.963	600		1	1.000	218.500	150
							0	1.001	218.500	150
3	481913.535	508199.809	219.193	1.050	600		1	1.001	218.143	150
							0	1.002	218.143	150
4	481836.657	508192.821	218.674	1.125	600		1	1.002	217.624	150
							0	1.003	217.549	225
5	481804.222	508179.059	218.514	1.125	600		1	1.003	217.389	225
							0	1.004	217.389	225
6	481803.711	508141.811	218.162	0.944	600		1	1.004	217.218	225
							0	1.005	217.218	225
7	481806.890	508113.194	218.367	1.277	600		1	1.005	217.090	225
							0	1.006	217.090	225
13	481947.152	508150.618	219.988	1.324	600		0	2.000	218.664	150
14	481958.872	508131.671	220.471	1.958	600		1	2.000	218.513	150
							0	2.001	218.513	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
20	481973.862	508092.349	220.963	2.488	600		0	3.000	218.475	150
21	481961.342	508092.587	220.910	2.519	600		1	3.000	218.391	150
							0	3.001	218.391	150
15	481951.925	508102.140	220.582	2.280	600		1	3.001	218.302	150
							2	2.001	218.302	150
							0	2.002	218.302	150
16	481917.960	508120.470	220.115	2.079	600		1	2.002	218.036	150
							0	2.003	218.036	150
17	481892.558	508139.829	219.418	1.598	600		1	2.003	217.820	150
							0	2.004	217.820	225
18	481844.052	508134.244	218.349	0.860	600		1	2.004	217.489	225
							0	2.005	217.489	225
19	481837.704	508110.154	218.471	1.166	600		1	2.005	217.305	225
							0	2.006	217.305	225
8	481801.383	508088.919	218.102	1.255	600		1	2.006	216.847	225
							2	1.006	216.847	225
							0	1.007	216.847	300
9	481792.838	508078.918	217.947	1.192	600		1	1.007	216.755	300
							0	1.008	216.755	225
22	481902.589	508089.395	219.516	0.900	600		0	4.000	218.616	150
23	481871.281	508086.265	218.866	0.898	600		1	4.000	217.968	150
							0	4.001	217.968	150
24	481846.764	508068.448	218.374	1.061	600		1	4.001	217.313	150
							0	4.002	217.313	150
25	481824.629	508025.461	217.704	1.458	600		1	4.002	216.323	150
							0	4.003	216.246	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
28	481814.627	507981.736	216.726	1.125	1200	 1	4.004	215.917	225
						0	4.005	215.601	225
26	481825.887	508013.327	217.700	1.622	1200	 1	5.001	216.153	150
						2	4.003	216.078	225
						0	4.004	216.078	225
27	481789.046	508057.999	217.600	1.106	600	 1	5.000	216.494	150
						0	5.001	216.494	150
10	481784.669	508070.091	217.613	0.947	1200	 1	1.008	216.666	225
						0	1.009	216.666	150
11	481783.466	508061.986	217.356	0.745	600	 1	1.009	216.611	150
						0	1.010	216.611	150
OUTFALL1	481782.795	508057.460	217.000	0.420	600	 1	1.010	216.580	150
12	481785.092	508069.044	217.613	1.050	600	 0	5.000	216.563	150
OUTFALL2	481808.764	507979.174	216.700	1.129	600	 1	4.005	215.571	225

Simulation Settings

Rainfall Methodology	FEH-13	Drain Down Time (mins)	240	100 year (l/s)	1.0
Summer CV	0.750	Additional Storage (m³/ha)	20.0	Check Discharge Volume	✓
Winter CV	0.840	Check Discharge Rate(s)	✓	100 year 360 minute (m³)	
Analysis Speed	Normal	1 year (l/s)	1.0		
Skip Steady State	✓	30 year (l/s)	1.0		

Storm Durations

15	60	180	360	600	960	2160	4320
30	120	240	480	720	1440	2880	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
30	0	0	0
100	30	0	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)		Betterment (%)	0
SAAR (mm)		QBar	
Soil Index	1	Q 1 year (l/s)	
SPR	0.10	Q 30 year (l/s)	
Region	1	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 (%)	0
Positively Drained Area (ha)		Storm Duration (mins)	360
Soil Index	1	Betterment (%)	0
SPR	0.10	PR	
CWI		Runoff Volume (m^3)	

Node 10 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	216.666	Product Number	CTL-SHE-0137-8500-0900-8500
Design Depth (m)	0.900	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	8.5	Min Node Diameter (mm)	1200

Node 26 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	216.078	Product Number	CTL-SHE-0061-2000-1500-2000
Design Depth (m)	1.500	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	2.0	Min Node Diameter (mm)	1200

Node 17 Online Orifice Control

Flap Valve	x	Design Depth (m)	1.000	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	2.0		
Invert Level (m)	217.820	Diameter (m)	0.031		

Node 3 Online Orifice Control

Flap Valve	x	Design Depth (m)	0.500	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	2.0		
Invert Level (m)	218.143	Diameter (m)	0.052		

Node 8 Online Orifice Control

Flap Valve	x	Design Depth (m)	1.000	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	11.0		
Invert Level (m)	216.847	Diameter (m)	0.073		

Node 5 Online Orifice Control

Flap Valve	x	Design Depth (m)	1.000	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	10.0		
Invert Level (m)	217.389	Diameter (m)	0.069		

Node 25 Online Orifice Control

Flap Valve	x	Design Depth (m)	0.700	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	9.0		
Invert Level (m)	216.246	Diameter (m)	0.072		

Node 23 Online Orifice Control

Flap Valve	x	Design Depth (m)	0.600	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	2.0		
Invert Level (m)	217.968	Diameter (m)	0.035		

Node 2 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	219.163	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	31.488		

Node 2 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	1.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.500	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)	58	Diameter (mm)	450

Node 3 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.893	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	42	Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	30.204		

Node 3 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	1.001
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.143	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)	78	Diameter (mm)	450

Node 4 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.374	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	64	Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	77.844		

Node 4 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	1.002
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.624	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 5 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.214	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	91	Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	36.090		

Node 5 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	1.003
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.389	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 6 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.862	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	240	Depth (m)	
Safety Factor	2.0	Width (m)	39.000	Inf Depth (m)	
Porosity	0.30	Length (m)	38.528		

Node 6 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	1.004
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.218	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 7 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.067	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	28.837		

Node 7 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	1.005
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.090	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 14 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	220.171	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	22.612		

Node 14 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	2.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.513	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)	188	Diameter (mm)	450

Node 15 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	220.282	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	31.657		

Node 15 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	2.001
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.302	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)	236	Diameter (mm)	450

Node 21 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	220.610	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	3.500	Inf Depth (m)	
Porosity	0.30	Length (m)	12.561		

Node 21 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	3.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.391	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)	226	Diameter (mm)	450

Node 15 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	220.282	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	3.500	Inf Depth (m)	
Porosity	0.30	Length (m)	13.423		

Node 15 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	3.001
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.302	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	450

Node 16 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	219.815	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	39.919		

Node 16 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	2.002
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.036	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	450

Node 17 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	219.118	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	82	Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	32.474		

Node 17 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	2.003
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.820	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 18 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.049	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	49.691		

Node 18 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	2.004
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.489	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)	205	Diameter (mm)	525

Node 19 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.171	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	27.582		

Node 19 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	2.005
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.305	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 8 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.802	Slope (1:X)	5000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	46.117		

Node 8 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	2.006
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	216.847	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 8 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.802	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	25.219		

Node 8 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	1.006
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	216.847	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 9 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.647	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	
Safety Factor	2.0	Width (m)	3.900	Inf Depth (m)	
Porosity	0.30	Length (m)	13.809		

Node 9 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	1.007
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	216.755	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 10 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.313	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	2.100	Inf Depth (m)	
Porosity	0.30	Length (m)	13.309		

Node 10 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	1.008
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	216.666	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 23 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.566	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	37	Depth (m)	
Safety Factor	2.0	Width (m)	2.400	Inf Depth (m)	
Porosity	0.30	Length (m)	31.840		

Node 23 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	4.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.968	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)	55	Diameter (mm)	450

Node 24 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	218.074	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	2.400	Inf Depth (m)	
Porosity	0.30	Length (m)	32.040		

Node 24 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	4.001
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.313	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)	20	Diameter (mm)	450

Node 25 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.404	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	187	Depth (m)	
Safety Factor	2.0	Width (m)	2.400	Inf Depth (m)	
Porosity	0.30	Length (m)	48.541		

Node 25 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	4.002
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	216.323	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 26 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.400	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	2.400	Inf Depth (m)	
Porosity	0.30	Length (m)	12.198		

Node 26 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	4.003
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	216.078	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 27 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	216.981	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	2.400	Inf Depth (m)	
Porosity	0.30	Length (m)	11.737		

Node 27 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	5.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	216.494	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 26 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	217.400	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	2.800	Inf Depth (m)	
Porosity	0.30	Length (m)	57.904		

Node 26 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	5.001
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	216.153	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)		Diameter (mm)	525

Node 8 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	216.847
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	0.0	0.0	0.800	0.0	0.0	0.801	0.0	0.0

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 15 minute summer	89.720	25.388	30 year 15 minute summer	244.435	69.167
2 year 15 minute winter	62.962	25.388	30 year 15 minute winter	171.533	69.167
2 year 30 minute summer	60.195	17.033	30 year 30 minute summer	166.814	47.203
2 year 30 minute winter	42.242	17.033	30 year 30 minute winter	117.063	47.203
2 year 60 minute summer	41.802	11.047	30 year 60 minute summer	116.941	30.904
2 year 60 minute winter	27.772	11.047	30 year 60 minute winter	77.693	30.904
2 year 120 minute summer	29.268	7.735	30 year 120 minute summer	70.552	18.645
2 year 120 minute winter	19.445	7.735	30 year 120 minute winter	46.873	18.645
2 year 180 minute summer	23.957	6.165	30 year 180 minute summer	53.990	13.893
2 year 180 minute winter	15.572	6.165	30 year 180 minute winter	35.095	13.893
2 year 240 minute summer	19.743	5.217	30 year 240 minute summer	42.746	11.296
2 year 240 minute winter	13.117	5.217	30 year 240 minute winter	28.399	11.296
2 year 360 minute summer	15.917	4.096	30 year 360 minute summer	32.936	8.476
2 year 360 minute winter	10.346	4.096	30 year 360 minute winter	21.409	8.476
2 year 480 minute summer	12.974	3.429	30 year 480 minute summer	26.274	6.943
2 year 480 minute winter	8.620	3.429	30 year 480 minute winter	17.456	6.943
2 year 600 minute summer	10.890	2.979	30 year 600 minute summer	21.816	5.967
2 year 600 minute winter	7.440	2.979	30 year 600 minute winter	14.906	5.967
2 year 720 minute summer	9.891	2.651	30 year 720 minute summer	19.719	5.285
2 year 720 minute winter	6.648	2.651	30 year 720 minute winter	13.252	5.285
2 year 960 minute summer	8.360	2.201	30 year 960 minute summer	16.654	4.385
2 year 960 minute winter	5.538	2.201	30 year 960 minute winter	11.032	4.385
2 year 1440 minute summer	6.273	1.681	30 year 1440 minute summer	12.748	3.417
2 year 1440 minute winter	4.216	1.681	30 year 1440 minute winter	8.567	3.417
2 year 2160 minute summer	4.613	1.275	30 year 2160 minute summer	9.769	2.700
2 year 2160 minute winter	3.178	1.275	30 year 2160 minute winter	6.731	2.700
2 year 2880 minute summer	3.901	1.046	30 year 2880 minute summer	8.528	2.285
2 year 2880 minute winter	2.622	1.046	30 year 2880 minute winter	5.731	2.285
2 year 4320 minute summer	3.025	0.791	30 year 4320 minute summer	6.866	1.795
2 year 4320 minute winter	1.992	0.791	30 year 4320 minute winter	4.522	1.795

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
100 year +30% CC 15 minute summer	411.449	116.426	100 year +30% CC 480 minute winter	29.369	11.682
100 year +30% CC 15 minute winter	288.736	116.426	100 year +30% CC 600 minute summer	36.746	10.051
100 year +30% CC 30 minute summer	283.754	80.293	100 year +30% CC 600 minute winter	25.107	10.051
100 year +30% CC 30 minute winter	199.126	80.293	100 year +30% CC 720 minute summer	33.249	8.911
100 year +30% CC 60 minute summer	201.174	53.164	100 year +30% CC 720 minute winter	22.346	8.911
100 year +30% CC 60 minute winter	133.655	53.164	100 year +30% CC 960 minute summer	28.156	7.414
100 year +30% CC 120 minute summer	119.355	31.542	100 year +30% CC 960 minute winter	18.651	7.414
100 year +30% CC 120 minute winter	79.297	31.542	100 year +30% CC 1440 minute summer	21.533	5.771
100 year +30% CC 180 minute summer	90.801	23.366	100 year +30% CC 1440 minute winter	14.471	5.771
100 year +30% CC 180 minute winter	59.023	23.366	100 year +30% CC 2160 minute summer	16.298	4.504
100 year +30% CC 240 minute summer	71.747	18.961	100 year +30% CC 2160 minute winter	11.230	4.504
100 year +30% CC 240 minute winter	47.667	18.961	100 year +30% CC 2880 minute summer	14.052	3.766
100 year +30% CC 360 minute summer	55.351	14.244	100 year +30% CC 2880 minute winter	9.444	3.766
100 year +30% CC 360 minute winter	35.980	14.244	100 year +30% CC 4320 minute summer	11.110	2.905
100 year +30% CC 480 minute summer	44.205	11.682	100 year +30% CC 4320 minute winter	7.316	2.905

Results for 2 year Critical Storm Duration. Lowest mass balance: 98.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	1	218.710	0.000	0.0	0.0000	0.0000	OK
15 minute winter	2	11	218.540	0.040	3.2	0.0479	0.0000	OK
15 minute winter	3	14	218.477	0.334	6.2	0.8359	0.0000	SURCHARGED
30 minute winter	4	25	217.784	0.235	9.1	0.5958	0.0000	SURCHARGED
30 minute winter	5	24	217.780	0.391	9.8	1.6029	0.0000	SURCHARGED
120 minute winter	6	88	217.477	0.259	7.0	1.0689	0.0000	SURCHARGED
120 minute winter	7	88	217.474	0.384	7.6	1.3798	0.0000	SURCHARGED
15 minute winter	13	10	218.710	0.046	3.0	0.0308	0.0000	OK
15 minute winter	14	11	218.568	0.055	4.2	0.0449	0.0000	OK
30 minute winter	20	20	218.487	0.012	0.2	0.0037	0.0000	OK
15 minute winter	21	11	218.418	0.027	1.0	0.0149	0.0000	OK
120 minute winter	15	88	218.380	0.078	2.3	0.1170	0.0000	OK
120 minute winter	16	88	218.379	0.343	3.0	1.1218	0.0000	SURCHARGED
120 minute winter	17	88	218.378	0.558	2.6	2.4314	0.0000	SURCHARGED
15 minute winter	18	10	217.550	0.061	6.8	0.1223	0.0000	OK
120 minute winter	19	90	217.472	0.167	4.5	0.3134	0.0000	OK
120 minute winter	8	88	217.471	0.624	10.9	4.4313	0.0000	SURCHARGED
120 minute winter	9	92	216.933	0.178	8.5	0.2528	0.0000	OK
15 minute summer	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
30 minute winter	23	22	218.192	0.224	2.2	0.3214	0.0000	SURCHARGED
15 minute winter	24	11	217.356	0.043	4.6	0.0428	0.0000	OK
30 minute winter	25	23	216.671	0.425	7.9	0.8006	0.0000	SURCHARGED
120 minute winter	28	186	215.634	0.033	1.6	0.0376	0.0000	OK
120 minute winter	26	100	216.646	0.567	4.3	4.2015	0.0000	SURCHARGED
120 minute winter	27	100	216.646	0.152	1.1	0.2214	0.0000	SURCHARGED

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	1	1.000	2	0.0	0.000	0.000	0.0586	
15 minute winter	2	1.001	3	3.1	0.240	0.159	0.3234	
15 minute winter	3	Orifice	4	3.1				
30 minute winter	4	1.003	5	7.9	0.359	0.231	1.4353	
30 minute winter	5	Orifice	6	5.9				
120 minute winter	6	1.005	7	6.4	0.644	0.185	1.1469	
120 minute winter	7	1.006	8	6.7	0.303	0.131	1.0030	
15 minute winter	13	2.000	14	2.9	0.571	0.203	0.1162	
15 minute winter	14	2.001	15	4.2	0.654	0.288	0.2042	
30 minute winter	20	3.000	21	0.2	0.171	0.014	0.0156	
15 minute winter	21	3.001	15	1.0	0.240	0.069	0.0616	
120 minute winter	15	2.002	16	2.3	0.478	0.158	0.5368	
120 minute winter	16	2.003	17	1.8	0.161	0.127	0.5717	
120 minute winter	17	Orifice	18	1.5				
15 minute winter	18	2.005	19	6.7	0.761	0.158	0.2440	
120 minute winter	19	2.006	8	4.4	0.274	0.086	1.6436	
120 minute winter	8	Orifice	9	8.2				
120 minute winter	9	1.008	10	8.4	0.400	0.198	0.4883	
15 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
30 minute winter	23	Orifice	24	1.2				
15 minute winter	24	4.002	25	4.5	0.757	0.179	0.5281	
30 minute winter	25	Orifice	26	4.8				
120 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	16.2
120 minute winter	26	Hydro-Brake®	28	1.6				
120 minute winter	27	5.001	26	-0.9	-0.078	-0.067	1.0193	

Results for 2 year Critical Storm Duration. Lowest mass balance: 98.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	10	92	216.929	0.263	8.6	0.6554	0.0000	SURCHARGED
120 minute winter	11	92	216.702	0.091	8.4	0.0256	0.0000	OK
120 minute winter	OUTFALL1	92	216.662	0.082	8.4	0.0000	0.0000	OK
120 minute winter	12	100	216.646	0.083	0.2	0.0234	0.0000	OK
120 minute winter	OUTFALL2	186	215.603	0.031	1.6	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)
120 minute winter	10	Hydro-Brake®	11	8.4				
120 minute winter	11	1.010	OUTFALL1	8.4	0.808	0.579	0.0478	54.9
120 minute winter	12	5.000	27	-0.2	-0.051	-0.015	0.1616	

Results for 30 year Critical Storm Duration. Lowest mass balance: 98.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	25	218.899	0.189	3.1	0.0535	0.0000	SURCHARGED
30 minute winter	2	25	218.900	0.400	7.1	1.4326	0.0000	SURCHARGED
30 minute winter	3	25	218.894	0.751	10.0	2.7892	0.0000	FLOOD RISK
60 minute winter	4	57	218.338	0.789	16.6	6.3671	0.0000	SURCHARGED
60 minute winter	5	57	218.333	0.944	14.7	8.6177	0.0000	FLOOD RISK
180 minute winter	6	176	217.925	0.707	9.3	15.7612	0.0000	FLOOD RISK
180 minute winter	7	176	217.922	0.832	10.5	3.7325	0.0000	SURCHARGED
60 minute winter	13	59	218.873	0.209	4.6	0.1412	0.0000	SURCHARGED
60 minute winter	14	59	218.873	0.360	6.5	0.8909	0.0000	SURCHARGED
60 minute winter	20	59	218.872	0.397	1.2	0.1188	0.0000	SURCHARGED
60 minute winter	21	59	218.872	0.481	2.6	0.8413	0.0000	SURCHARGED
60 minute winter	15	59	218.872	0.570	7.3	2.8863	0.0000	SURCHARGED
60 minute winter	16	59	218.871	0.835	7.5	3.9339	0.0000	SURCHARGED
60 minute winter	17	59	218.868	1.048	5.7	5.2069	0.0000	SURCHARGED
180 minute winter	18	172	217.922	0.433	5.9	2.3019	0.0000	SURCHARGED
180 minute winter	19	172	217.921	0.616	6.7	2.3351	0.0000	SURCHARGED
180 minute winter	8	172	217.920	1.073	17.6	18.5262	0.0000	FLOOD RISK
120 minute winter	9	114	217.467	0.712	9.9	1.5230	0.0000	SURCHARGED
15 minute summer	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
30 minute winter	23	25	218.589	0.621	6.1	1.8057	0.0000	FLOOD RISK
60 minute winter	24	44	217.464	0.151	7.4	0.1898	0.0000	SURCHARGED
60 minute winter	25	46	217.437	1.191	15.2	5.7370	0.0000	FLOOD RISK
120 minute winter	28	122	215.637	0.036	1.9	0.0411	0.0000	OK
120 minute winter	26	122	217.354	1.276	8.0	13.0099	0.0000	SURCHARGED
120 minute winter	27	122	217.355	0.861	3.0	4.8301	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	-3.1	-0.238	-0.215	0.5543	
30 minute winter	2	1.001	3	4.6	0.342	0.239	0.5317	
30 minute winter	3	Orifice	4	4.4				
60 minute winter	4	1.003	5	11.4	0.394	0.332	1.4353	
60 minute winter	5	Orifice	6	6.5				
180 minute winter	6	1.005	7	8.4	0.612	0.243	1.1469	
180 minute winter	7	1.006	8	9.9	0.364	0.193	1.0030	
60 minute winter	13	2.000	14	4.6	0.643	0.318	0.3981	
60 minute winter	14	2.001	15	6.4	0.658	0.442	0.5573	
60 minute winter	20	3.000	21	-0.8	0.180	-0.054	0.2211	
60 minute winter	21	3.001	15	-1.4	0.235	-0.097	0.2363	
60 minute winter	15	2.002	16	5.5	0.521	0.379	0.7028	
60 minute winter	16	2.003	17	2.8	0.228	0.197	0.5717	
60 minute winter	17	Orifice	18	2.0				
180 minute winter	18	2.005	19	5.2	0.667	0.123	1.0970	
180 minute winter	19	2.006	8	6.2	0.258	0.120	1.8341	
180 minute winter	8	Orifice	9	8.4				
120 minute winter	9	1.008	10	9.0	0.403	0.213	0.5293	
15 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
30 minute winter	23	Orifice	24	2.0				
60 minute winter	24	4.002	25	7.4	0.781	0.291	0.8544	
60 minute winter	25	Orifice	26	7.4				
120 minute winter	28	4.005	OUTFALL2	1.9	0.469	0.052	0.0254	33.7
120 minute winter	26	Hydro-Brake®	28	1.9				
120 minute winter	27	5.001	26	-2.7	0.192	-0.199	1.0194	

Results for 30 year Critical Storm Duration. Lowest mass balance: 98.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	10	114	217.463	0.797	9.8	3.5970	0.0000	FLOOD RISK
120 minute summer	11	242	216.702	0.091	8.5	0.0257	0.0000	OK
15 minute summer	OUTFALL1	78	216.662	0.082	8.5	0.0000	0.0000	OK
120 minute winter	12	122	217.355	0.792	0.7	0.2240	0.0000	FLOOD RISK
120 minute winter	OUTFALL2	122	215.605	0.034	1.9	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)
120 minute winter	10	Hydro-Brake®	11	8.5				
120 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	118.1
120 minute winter	12	5.000	27	-0.7	-0.094	-0.053	0.2066	

Results for 100 year +30% CC Critical Storm Duration. Lowest mass balance: 98.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	44	219.087	0.377	3.2	0.1067	0.0000	SURCHARGED
60 minute winter	2	46	219.087	0.587	8.5	2.3907	0.0000	SURCHARGED
60 minute winter	3	48	219.081	0.938	15.0	9.2916	0.0000	FLOOD RISK
60 minute winter	4	60	218.509	0.960	25.5	14.0444	0.0000	FLOOD RISK
60 minute winter	5	60	218.502	1.113	26.0	16.8352	0.0000	FLOOD RISK
360 minute winter	6	352	218.030	0.812	11.5	63.3646	0.0000	FLOOD RISK
360 minute winter	7	352	218.027	0.937	8.8	4.2832	0.0000	SURCHARGED
60 minute winter	13	45	219.317	0.653	7.9	0.4404	0.0000	SURCHARGED
120 minute winter	14	114	219.311	0.798	6.2	2.4018	0.0000	SURCHARGED
120 minute winter	20	116	219.310	0.835	0.8	0.2497	0.0000	SURCHARGED
120 minute winter	21	116	219.310	0.919	1.7	1.7317	0.0000	SURCHARGED
120 minute winter	15	116	219.310	1.008	5.4	5.6941	0.0000	SURCHARGED
120 minute winter	16	116	219.307	1.271	6.3	6.4762	0.0000	SURCHARGED
120 minute winter	17	118	219.303	1.483	8.0	13.4730	0.0000	FLOOD RISK
30 minute winter	18	21	218.038	0.549	23.8	3.2208	0.0000	SURCHARGED
360 minute winter	19	344	218.026	0.721	7.7	2.8560	0.0000	SURCHARGED
360 minute winter	8	352	218.025	1.178	16.1	28.5168	0.0000	FLOOD RISK
120 minute winter	9	84	217.602	0.847	10.4	1.8885	0.0000	SURCHARGED
60 minute winter	22	47	218.698	0.082	0.7	0.0232	0.0000	OK
60 minute winter	23	46	218.698	0.730	7.3	4.5121	0.0000	FLOOD RISK
30 minute winter	24	21	217.811	0.498	15.8	1.1935	0.0000	SURCHARGED
120 minute winter	25	90	217.704	1.458	15.4	16.6016	0.4799	FLOOD
360 minute winter	28	280	215.639	0.038	2.0	0.0428	0.0000	OK
360 minute winter	26	280	217.604	1.526	6.5	24.9273	0.0000	FLOOD RISK
360 minute winter	27	272	217.600	1.106	2.4	7.4442	3.9431	FLOOD

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	-3.2	-0.225	-0.220	0.5543	
60 minute winter	2	1.001	3	6.6	0.375	0.342	0.5317	
60 minute winter	3	Orifice	4	4.3				
60 minute winter	4	1.003	5	19.3	0.485	0.560	1.4353	
60 minute winter	5	Orifice	6	7.3				
360 minute winter	6	1.005	7	6.7	0.568	0.196	1.1469	
360 minute winter	7	1.006	8	8.5	0.287	0.167	1.0030	
60 minute winter	13	2.000	14	7.0	0.674	0.482	0.3981	
120 minute winter	14	2.001	15	4.5	0.565	0.314	0.5573	
120 minute winter	20	3.000	21	-0.5	0.158	-0.033	0.2211	
120 minute winter	21	3.001	15	0.9	0.186	0.060	0.2363	
120 minute winter	15	2.002	16	4.3	0.503	0.295	0.7028	
120 minute winter	16	2.003	17	5.4	0.309	0.377	0.5717	
120 minute winter	17	Orifice	18	2.3				
30 minute winter	18	2.005	19	17.7	0.870	0.418	1.0970	
360 minute winter	19	2.006	8	7.5	0.199	0.145	1.8341	
360 minute winter	8	Orifice	9	8.3				
120 minute winter	9	1.008	10	9.6	0.413	0.226	0.5293	
60 minute winter	22	4.000	23	-0.7	-0.060	-0.027	0.4374	
60 minute winter	23	Orifice	24	2.2				
30 minute winter	24	4.002	25	12.3	0.752	0.484	0.8546	
120 minute winter	25	Orifice	26	6.6				
360 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	64.0
360 minute winter	26	Hydro-Brake®	28	2.0				
360 minute winter	27	5.001	26	-2.1	-0.122	-0.158	1.0194	

Results for 100 year +30% CC Critical Storm Duration. Lowest mass balance: 98.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	10	84	217.598	0.932	11.0	5.1912	0.0000	FLOOD RISK
30 minute summer	11	247	216.702	0.091	8.5	0.0257	0.0000	OK
30 minute summer	OUTFALL1	247	216.662	0.082	8.5	0.0000	0.0000	OK
360 minute winter	12	312	217.600	1.037	0.3	0.2935	0.0000	FLOOD RISK
360 minute winter	OUTFALL2	280	215.607	0.036	2.0	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)
120 minute winter	10	Hydro-Brake®	11	8.5				
30 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	122.6
360 minute winter	12	5.000	27	-0.3	-0.047	-0.021	0.2066	

Results for 2 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.61%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	1	218.710	0.000	0.0	0.0000	0.0000	OK
15 minute summer	2	11	218.540	0.040	3.1	0.0469	0.0000	OK
15 minute summer	3	13	218.449	0.305	6.0	0.7139	0.0000	SURCHARGED
15 minute summer	4	15	217.718	0.169	10.1	0.3387	0.0000	OK
15 minute summer	5	15	217.716	0.327	12.1	1.2356	0.0000	SURCHARGED
15 minute summer	6	19	217.319	0.101	9.7	0.2513	0.0000	OK
15 minute summer	7	19	217.318	0.228	12.5	0.6583	0.0000	SURCHARGED
15 minute summer	13	10	218.709	0.045	2.9	0.0303	0.0000	OK
15 minute summer	14	11	218.567	0.054	4.0	0.0438	0.0000	OK
15 minute summer	20	12	218.487	0.012	0.2	0.0037	0.0000	OK
15 minute summer	21	11	218.417	0.026	1.0	0.0142	0.0000	OK
15 minute summer	15	12	218.364	0.062	5.5	0.0784	0.0000	OK
15 minute summer	16	19	218.232	0.196	6.8	0.3982	0.0000	SURCHARGED
15 minute summer	17	19	218.231	0.411	7.3	1.6026	0.0000	SURCHARGED
15 minute summer	18	10	217.549	0.060	6.5	0.1186	0.0000	OK
15 minute summer	19	11	217.366	0.061	8.5	0.0703	0.0000	OK
15 minute summer	8	19	217.313	0.466	21.3	2.7840	0.0000	SURCHARGED
15 minute summer	9	15	216.841	0.086	7.7	0.0998	0.0000	OK
15 minute summer	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
15 minute summer	23	13	218.167	0.199	2.6	0.2671	0.0000	SURCHARGED
15 minute summer	24	11	217.355	0.042	4.4	0.0418	0.0000	OK
15 minute summer	25	13	216.616	0.370	9.1	0.6226	0.0000	SURCHARGED
15 minute summer	28	50	215.634	0.033	1.6	0.0376	0.0000	OK
15 minute summer	26	21	216.483	0.405	7.6	2.3400	0.0000	SURCHARGED
15 minute summer	27	12	216.510	0.016	0.4	0.0088	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	1	1.000	2	0.0	0.000	0.000	0.0586	
15 minute summer	2	1.001	3	3.0	0.240	0.154	0.3221	
15 minute summer	3	Orifice	4	3.0				
15 minute summer	4	1.003	5	9.7	0.415	0.283	1.2960	
15 minute summer	5	Orifice	6	5.4				
15 minute summer	6	1.005	7	9.7	0.760	0.281	0.8223	
15 minute summer	7	1.006	8	11.3	0.454	0.222	1.0029	
15 minute summer	13	2.000	14	2.8	0.566	0.196	0.1134	
15 minute summer	14	2.001	15	4.0	0.657	0.279	0.1980	
15 minute summer	20	3.000	21	0.2	0.161	0.014	0.0169	
15 minute summer	21	3.001	15	0.9	0.240	0.065	0.0592	
15 minute summer	15	2.002	16	5.2	0.687	0.358	0.4654	
15 minute summer	16	2.003	17	5.1	0.351	0.352	0.5717	
15 minute summer	17	Orifice	18	1.3				
15 minute summer	18	2.005	19	6.4	0.752	0.151	0.2360	
15 minute summer	19	2.006	8	8.5	0.347	0.163	1.1177	
15 minute summer	8	Orifice	9	7.3				
15 minute summer	9	1.008	10	7.5	0.450	0.178	0.3120	
15 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
15 minute summer	23	Orifice	24	1.1				
15 minute summer	24	4.002	25	4.4	0.755	0.171	0.5251	
15 minute summer	25	Orifice	26	5.2				
15 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	6.0
15 minute summer	26	Hydro-Brake®	28	1.6				
15 minute summer	27	5.001	26	0.3	0.050	0.024	0.5390	

Results for 2 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.61%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	10	15	216.840	0.174	8.3	0.4033	0.0000	SURCHARGED
15 minute summer	11	15	216.696	0.085	7.7	0.0240	0.0000	OK
15 minute summer	OUTFALL1	15	216.657	0.077	7.7	0.0000	0.0000	OK
15 minute summer	12	1	216.563	0.000	0.0	0.0000	0.0000	OK
15 minute summer	OUTFALL2	50	215.603	0.031	1.6	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	10	Hydro-Brake®	11	7.7				
15 minute summer	11	1.010	OUTFALL1	7.7	0.791	0.526	0.0443	20.1
15 minute summer	12	5.000	27	0.0	0.000	0.000	0.0060	

Results for 2 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	1	218.710	0.000	0.0	0.0000	0.0000	OK
15 minute winter	2	11	218.540	0.040	3.2	0.0479	0.0000	OK
15 minute winter	3	14	218.477	0.334	6.2	0.8359	0.0000	SURCHARGED
15 minute winter	4	15	217.756	0.207	10.6	0.4737	0.0000	OK
15 minute winter	5	15	217.752	0.362	11.4	1.4287	0.0000	SURCHARGED
15 minute winter	6	18	217.356	0.138	10.0	0.3944	0.0000	OK
15 minute winter	7	18	217.352	0.262	13.4	0.8061	0.0000	SURCHARGED
15 minute winter	13	10	218.710	0.046	3.0	0.0308	0.0000	OK
15 minute winter	14	11	218.568	0.055	4.2	0.0449	0.0000	OK
15 minute winter	20	12	218.487	0.012	0.2	0.0037	0.0000	OK
15 minute winter	21	11	218.418	0.027	1.0	0.0149	0.0000	OK
15 minute winter	15	12	218.365	0.063	5.7	0.0820	0.0000	OK
15 minute winter	16	19	218.267	0.231	7.1	0.5474	0.0000	SURCHARGED
15 minute winter	17	19	218.266	0.446	7.9	1.7977	0.0000	SURCHARGED
15 minute winter	18	10	217.550	0.061	6.8	0.1223	0.0000	OK
15 minute winter	19	11	217.368	0.063	8.9	0.0728	0.0000	OK
15 minute winter	8	19	217.347	0.500	22.5	3.1563	0.0000	SURCHARGED
15 minute winter	9	16	216.852	0.097	8.0	0.1184	0.0000	OK
15 minute winter	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
15 minute winter	23	14	218.190	0.222	2.8	0.3159	0.0000	SURCHARGED
15 minute winter	24	11	217.356	0.043	4.6	0.0428	0.0000	OK
15 minute winter	25	14	216.658	0.412	9.6	0.7562	0.0000	SURCHARGED
15 minute winter	28	58	215.634	0.033	1.6	0.0376	0.0000	OK
15 minute winter	26	23	216.514	0.436	7.9	2.7024	0.0000	SURCHARGED
15 minute winter	27	22	216.518	0.024	0.6	0.0150	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	1	1.000	2	0.0	0.000	0.000	0.0600	
15 minute winter	2	1.001	3	3.1	0.240	0.159	0.3234	
15 minute winter	3	Orifice	4	3.1				
15 minute winter	4	1.003	5	9.0	0.415	0.263	1.4082	
15 minute winter	5	Orifice	6	5.7				
15 minute winter	6	1.005	7	10.5	0.772	0.305	0.9409	
15 minute winter	7	1.006	8	12.0	0.462	0.235	1.0030	
15 minute winter	13	2.000	14	2.9	0.571	0.203	0.1162	
15 minute winter	14	2.001	15	4.2	0.654	0.288	0.2042	
15 minute winter	20	3.000	21	0.2	0.157	0.014	0.0175	
15 minute winter	21	3.001	15	1.0	0.240	0.069	0.0616	
15 minute winter	15	2.002	16	5.4	0.681	0.376	0.4818	
15 minute winter	16	2.003	17	5.5	0.380	0.380	0.5717	
15 minute winter	17	Orifice	18	1.3				
15 minute winter	18	2.005	19	6.7	0.761	0.158	0.2440	
15 minute winter	19	2.006	8	8.9	0.358	0.171	1.1247	
15 minute winter	8	Orifice	9	7.6				
15 minute winter	9	1.008	10	7.9	0.454	0.187	0.3392	
15 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
15 minute winter	23	Orifice	24	1.2				
15 minute winter	24	4.002	25	4.5	0.757	0.179	0.5281	
15 minute winter	25	Orifice	26	5.3				
15 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	6.7
15 minute winter	26	Hydro-Brake®	28	1.6				
15 minute winter	27	5.001	26	-0.6	0.134	-0.044	0.5617	

Results for 2 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	10	16	216.850	0.183	8.4	0.4293	0.0000	SURCHARGED
15 minute winter	11	16	216.698	0.087	8.0	0.0247	0.0000	OK
15 minute winter	OUTFALL1	17	216.659	0.079	8.0	0.0000	0.0000	OK
15 minute winter	12	1	216.563	0.000	0.0	0.0000	0.0000	OK
15 minute winter	OUTFALL2	58	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.0				
15 minute winter	11	1.010	OUTFALL1	8.0	0.799	0.549	0.0458	22.5
15 minute winter	12	5.000	27	0.0	0.000	0.000	0.0105	

Results for 2 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	1	218.710	0.000	0.0	0.0000	0.0000	OK
30 minute summer	2	18	218.538	0.038	2.8	0.0449	0.0000	OK
30 minute summer	3	21	218.458	0.315	5.6	0.7538	0.0000	SURCHARGED
30 minute summer	4	23	217.746	0.197	9.7	0.4359	0.0000	OK
30 minute summer	5	23	217.745	0.356	11.1	1.3963	0.0000	SURCHARGED
30 minute summer	6	32	217.381	0.163	9.6	0.5077	0.0000	OK
30 minute summer	7	32	217.378	0.288	12.4	0.9179	0.0000	SURCHARGED
30 minute summer	13	18	218.707	0.043	2.6	0.0289	0.0000	OK
30 minute summer	14	18	218.564	0.051	3.7	0.0408	0.0000	OK
30 minute summer	20	19	218.487	0.012	0.2	0.0037	0.0000	OK
30 minute summer	21	18	218.416	0.025	0.9	0.0137	0.0000	OK
30 minute summer	15	19	218.362	0.060	5.0	0.0743	0.0000	OK
30 minute summer	16	30	218.289	0.253	6.4	0.6600	0.0000	SURCHARGED
30 minute summer	17	30	218.288	0.468	6.6	1.9246	0.0000	SURCHARGED
30 minute summer	18	18	217.548	0.059	6.3	0.1173	0.0000	OK
30 minute summer	19	31	217.375	0.070	8.2	0.0843	0.0000	OK
30 minute summer	8	32	217.374	0.527	18.4	3.4388	0.0000	SURCHARGED
30 minute summer	9	26	216.860	0.105	8.1	0.1353	0.0000	OK
30 minute summer	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
30 minute summer	23	21	218.176	0.208	2.4	0.2870	0.0000	SURCHARGED
30 minute summer	24	18	217.354	0.041	4.1	0.0404	0.0000	OK
30 minute summer	25	22	216.634	0.388	8.5	0.6779	0.0000	SURCHARGED
30 minute summer	28	74	215.634	0.033	1.6	0.0376	0.0000	OK
30 minute summer	26	33	216.532	0.454	7.1	2.9087	0.0000	SURCHARGED
30 minute summer	27	34	216.534	0.040	0.8	0.0317	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	1	1.000	2	0.0	0.000	0.000	0.0558	
30 minute summer	2	1.001	3	2.8	0.218	0.143	0.3194	
30 minute summer	3	Orifice	4	3.0				
30 minute summer	4	1.003	5	8.9	0.350	0.258	1.3842	
30 minute summer	5	Orifice	6	5.6				
30 minute summer	6	1.005	7	9.7	0.748	0.281	1.0163	
30 minute summer	7	1.006	8	9.2	0.410	0.179	1.0030	
30 minute summer	13	2.000	14	2.6	0.553	0.179	0.1071	
30 minute summer	14	2.001	15	3.7	0.631	0.253	0.1863	
30 minute summer	20	3.000	21	0.2	0.161	0.014	0.0163	
30 minute summer	21	3.001	15	0.9	0.223	0.061	0.0564	
30 minute summer	15	2.002	16	4.9	0.640	0.337	0.4786	
30 minute summer	16	2.003	17	4.5	0.317	0.309	0.5717	
30 minute summer	17	Orifice	18	1.3				
30 minute summer	18	2.005	19	6.2	0.748	0.147	0.2305	
30 minute summer	19	2.006	8	8.0	0.314	0.155	1.1572	
30 minute summer	8	Orifice	9	7.8				
30 minute summer	9	1.008	10	8.0	0.423	0.188	0.3607	
30 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
30 minute summer	23	Orifice	24	1.1				
30 minute summer	24	4.002	25	4.1	0.777	0.161	0.5211	
30 minute summer	25	Orifice	26	4.9				
30 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	7.9
30 minute summer	26	Hydro-Brake®	28	1.6				
30 minute summer	27	5.001	26	-0.7	0.189	-0.052	0.6183	

Results for 2 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	10	26	216.858	0.192	8.3	0.4502	0.0000	SURCHARGED
30 minute summer	11	26	216.699	0.088	8.1	0.0249	0.0000	OK
30 minute summer	OUTFALL1	26	216.659	0.079	8.1	0.0000	0.0000	OK
30 minute summer	12	1	216.563	0.000	0.0	0.0000	0.0000	OK
30 minute summer	OUTFALL2	74	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.1				
30 minute summer	11	1.010	OUTFALL1	8.1	0.800	0.554	0.0462	27.0
30 minute summer	12	5.000	27	0.0	0.000	0.000	0.0220	

Results for 2 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	1	218.710	0.000	0.0	0.0000	0.0000	OK
30 minute winter	2	18	218.537	0.037	2.6	0.0430	0.0000	OK
30 minute winter	3	22	218.473	0.330	5.2	0.8160	0.0000	SURCHARGED
30 minute winter	4	25	217.784	0.235	9.1	0.5958	0.0000	SURCHARGED
30 minute winter	5	24	217.780	0.391	9.8	1.6029	0.0000	SURCHARGED
30 minute winter	6	32	217.420	0.202	9.4	0.7312	0.0000	OK
30 minute winter	7	32	217.416	0.326	11.6	1.0894	0.0000	SURCHARGED
30 minute winter	13	18	218.705	0.041	2.4	0.0278	0.0000	OK
30 minute winter	14	18	218.562	0.049	3.4	0.0382	0.0000	OK
30 minute winter	20	20	218.487	0.012	0.2	0.0037	0.0000	OK
30 minute winter	21	19	218.415	0.024	0.8	0.0129	0.0000	OK
30 minute winter	15	19	218.360	0.058	4.7	0.0699	0.0000	OK
30 minute winter	16	30	218.335	0.299	5.9	0.8998	0.0000	SURCHARGED
30 minute winter	17	30	218.334	0.514	5.9	2.1854	0.0000	SURCHARGED
30 minute winter	18	18	217.546	0.057	5.8	0.1117	0.0000	OK
30 minute winter	19	33	217.413	0.108	7.6	0.1586	0.0000	OK
30 minute winter	8	32	217.412	0.565	16.4	3.8261	0.0000	SURCHARGED
30 minute winter	9	31	216.887	0.132	8.5	0.1814	0.0000	OK
30 minute winter	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
30 minute winter	23	22	218.192	0.224	2.2	0.3214	0.0000	SURCHARGED
30 minute winter	24	19	217.353	0.040	3.9	0.0391	0.0000	OK
30 minute winter	25	23	216.671	0.425	7.9	0.8006	0.0000	SURCHARGED
30 minute winter	28	85	215.634	0.033	1.6	0.0376	0.0000	OK
30 minute winter	26	35	216.566	0.488	6.9	3.2964	0.0000	SURCHARGED
30 minute winter	27	34	216.567	0.073	1.4	0.0821	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	1	1.000	2	0.0	0.000	0.000	0.0530	
30 minute winter	2	1.001	3	2.6	0.214	0.133	0.3167	
30 minute winter	3	Orifice	4	3.1				
30 minute winter	4	1.003	5	7.9	0.359	0.231	1.4353	
30 minute winter	5	Orifice	6	5.9				
30 minute winter	6	1.005	7	9.3	0.732	0.271	1.1159	
30 minute winter	7	1.006	8	8.5	0.413	0.167	1.0030	
30 minute winter	13	2.000	14	2.4	0.539	0.166	0.1009	
30 minute winter	14	2.001	15	3.4	0.612	0.233	0.1777	
30 minute winter	20	3.000	21	0.2	0.171	0.014	0.0156	
30 minute winter	21	3.001	15	0.8	0.235	0.055	0.0539	
30 minute winter	15	2.002	16	4.6	0.620	0.315	0.4743	
30 minute winter	16	2.003	17	4.1	0.296	0.285	0.5717	
30 minute winter	17	Orifice	18	1.4				
30 minute winter	18	2.005	19	5.8	0.731	0.137	0.3049	
30 minute winter	19	2.006	8	7.5	0.314	0.144	1.3492	
30 minute winter	8	Orifice	9	8.1				
30 minute winter	9	1.008	10	8.2	0.423	0.194	0.4236	
30 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
30 minute winter	23	Orifice	24	1.2				
30 minute winter	24	4.002	25	3.9	0.758	0.152	0.5172	
30 minute winter	25	Orifice	26	4.8				
30 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	8.9
30 minute winter	26	Hydro-Brake®	28	1.6				
30 minute winter	27	5.001	26	-1.3	0.189	-0.097	0.7571	

Results for 2 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	10	31	216.885	0.219	8.6	0.5233	0.0000	SURCHARGED
30 minute winter	11	31	216.700	0.089	8.3	0.0253	0.0000	OK
30 minute winter	OUTFALL1	31	216.661	0.080	8.3	0.0000	0.0000	OK
30 minute winter	12	34	216.568	0.005	0.1	0.0014	0.0000	OK
30 minute winter	OUTFALL2	85	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.3				
30 minute winter	11	1.010	OUTFALL1	8.3	0.805	0.567	0.0470	30.3
30 minute winter	12	5.000	27	-0.1	-0.025	-0.006	0.0512	

Results for 2 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	1	218.710	0.000	0.0	0.0000	0.0000	OK
60 minute summer	2	33	218.534	0.034	2.2	0.0388	0.0000	OK
60 minute summer	3	37	218.428	0.285	4.4	0.6328	0.0000	SURCHARGED
60 minute summer	4	40	217.740	0.191	8.1	0.4119	0.0000	OK
60 minute summer	5	40	217.737	0.348	8.6	1.3459	0.0000	SURCHARGED
60 minute summer	6	49	217.407	0.189	8.5	0.6543	0.0000	OK
60 minute summer	7	51	217.404	0.314	10.5	1.0326	0.0000	SURCHARGED
60 minute summer	13	33	218.702	0.038	2.0	0.0253	0.0000	OK
60 minute summer	14	33	218.558	0.045	2.9	0.0338	0.0000	OK
60 minute summer	20	33	218.487	0.012	0.2	0.0035	0.0000	OK
60 minute summer	21	34	218.413	0.022	0.7	0.0115	0.0000	OK
60 minute summer	15	34	218.355	0.053	3.9	0.0601	0.0000	OK
60 minute summer	16	47	218.319	0.283	5.0	0.8185	0.0000	SURCHARGED
60 minute summer	17	48	218.317	0.497	4.5	2.0906	0.0000	SURCHARGED
60 minute summer	18	33	217.542	0.053	5.1	0.1032	0.0000	OK
60 minute summer	19	50	217.401	0.096	6.7	0.1347	0.0000	OK
60 minute summer	8	51	217.401	0.554	14.8	3.7113	0.0000	SURCHARGED
60 minute summer	9	51	216.880	0.125	8.3	0.1700	0.0000	OK
60 minute summer	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
60 minute summer	23	38	218.162	0.194	1.9	0.2574	0.0000	SURCHARGED
60 minute summer	24	34	217.350	0.037	3.4	0.0364	0.0000	OK
60 minute summer	25	39	216.620	0.374	6.8	0.6329	0.0000	SURCHARGED
60 minute summer	28	105	215.634	0.033	1.6	0.0376	0.0000	OK
60 minute summer	26	56	216.556	0.477	6.1	3.1763	0.0000	SURCHARGED
60 minute summer	27	58	216.556	0.062	1.1	0.0625	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	1	1.000	2	0.0	0.000	0.000	0.0471	
60 minute summer	2	1.001	3	2.2	0.192	0.113	0.3110	
60 minute summer	3	Orifice	4	2.9				
60 minute summer	4	1.003	5	7.0	0.307	0.203	1.3659	
60 minute summer	5	Orifice	6	5.6				
60 minute summer	6	1.005	7	8.5	0.704	0.246	1.0864	
60 minute summer	7	1.006	8	7.3	0.344	0.143	1.0030	
60 minute summer	13	2.000	14	2.0	0.511	0.138	0.0891	
60 minute summer	14	2.001	15	2.9	0.585	0.197	0.1566	
60 minute summer	20	3.000	21	0.2	0.169	0.013	0.0139	
60 minute summer	21	3.001	15	0.7	0.202	0.046	0.0476	
60 minute summer	15	2.002	16	3.8	0.567	0.265	0.4593	
60 minute summer	16	2.003	17	3.1	0.231	0.213	0.5717	
60 minute summer	17	Orifice	18	1.4				
60 minute summer	18	2.005	19	5.1	0.705	0.120	0.2735	
60 minute summer	19	2.006	8	6.6	0.286	0.128	1.2912	
60 minute summer	8	Orifice	9	8.0				
60 minute summer	9	1.008	10	8.2	0.406	0.192	0.4079	
60 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
60 minute summer	23	Orifice	24	1.1				
60 minute summer	24	4.002	25	3.4	0.769	0.134	0.5092	
60 minute summer	25	Orifice	26	4.3				
60 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	10.3
60 minute summer	26	Hydro-Brake®	28	1.6				
60 minute summer	27	5.001	26	-1.0	-0.083	-0.072	0.7083	

Results for 2 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	10	51	216.877	0.211	8.3	0.5027	0.0000	SURCHARGED
60 minute summer	11	51	216.700	0.089	8.2	0.0252	0.0000	OK
60 minute summer	OUTFALL1	51	216.660	0.080	8.2	0.0000	0.0000	OK
60 minute summer	12	1	216.563	0.000	0.0	0.0000	0.0000	OK
60 minute summer	OUTFALL2	105	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.2				
60 minute summer	11	1.010	OUTFALL1	8.2	0.804	0.564	0.0468	35.0
60 minute summer	12	5.000	27	0.0	0.000	0.000	0.0402	

Results for 2 year 60 minute winter. 300 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
60 minute winter	1	1	218.710	0.000	0.0	0.0000	0.0000	OK
60 minute winter	2	33	218.531	0.031	1.8	0.0344	0.0000	OK
60 minute winter	3	39	218.408	0.265	3.6	0.5583	0.0000	SURCHARGED
60 minute winter	4	42	217.752	0.202	6.9	0.4552	0.0000	OK
60 minute winter	5	42	217.748	0.359	7.0	1.4133	0.0000	SURCHARGED
60 minute winter	6	52	217.451	0.233	8.0	0.9116	0.0000	SURCHARGED
60 minute winter	7	52	217.448	0.358	9.5	1.2412	0.0000	SURCHARGED
60 minute winter	13	35	218.698	0.034	1.6	0.0227	0.0000	OK
60 minute winter	14	35	218.553	0.040	2.3	0.0289	0.0000	OK
60 minute winter	20	39	218.484	0.009	0.1	0.0027	0.0000	OK
60 minute winter	21	36	218.410	0.019	0.5	0.0096	0.0000	OK
60 minute winter	15	49	218.356	0.054	3.1	0.0635	0.0000	OK
60 minute winter	16	48	218.356	0.319	4.1	1.0047	0.0000	SURCHARGED
60 minute winter	17	49	218.354	0.534	3.6	2.2978	0.0000	SURCHARGED
60 minute winter	18	34	217.538	0.049	4.4	0.0943	0.0000	OK
60 minute winter	19	53	217.445	0.140	5.7	0.2363	0.0000	OK
60 minute winter	8	52	217.444	0.597	12.8	4.1568	0.0000	SURCHARGED
60 minute winter	9	57	216.911	0.156	8.6	0.2201	0.0000	OK
60 minute winter	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
60 minute winter	23	39	218.157	0.189	1.5	0.2479	0.0000	SURCHARGED
60 minute winter	24	34	217.348	0.034	3.0	0.0337	0.0000	OK
60 minute winter	25	42	216.653	0.406	5.7	0.7366	0.0000	SURCHARGED
60 minute winter	28	120	215.634	0.033	1.6	0.0376	0.0000	OK
60 minute winter	26	60	216.602	0.524	5.5	3.6981	0.0000	SURCHARGED
60 minute winter	27	61	216.602	0.108	1.3	0.1439	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	1	1.000	2	0.0	0.000	0.000	0.0409	
60 minute winter	2	1.001	3	1.8	0.192	0.092	0.3051	
60 minute winter	3	Orifice	4	2.8				
60 minute winter	4	1.003	5	5.8	0.314	0.168	1.3972	
60 minute winter	5	Orifice	6	5.7				
60 minute winter	6	1.005	7	7.8	0.684	0.226	1.1469	
60 minute winter	7	1.006	8	7.0	0.348	0.138	1.0030	
60 minute winter	13	2.000	14	1.6	0.481	0.111	0.0763	
60 minute winter	14	2.001	15	2.3	0.546	0.159	0.1348	
60 minute winter	20	3.000	21	0.1	0.152	0.007	0.0108	
60 minute winter	21	3.001	15	0.5	0.189	0.035	0.0425	
60 minute winter	15	2.002	16	3.1	0.535	0.214	0.4661	
60 minute winter	16	2.003	17	2.6	0.214	0.183	0.5717	
60 minute winter	17	Orifice	18	1.4				
60 minute winter	18	2.005	19	4.4	0.680	0.104	0.4077	
60 minute winter	19	2.006	8	5.6	0.312	0.109	1.5141	
60 minute winter	8	Orifice	9	8.1				
60 minute winter	9	1.008	10	8.3	0.406	0.196	0.4606	
60 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
60 minute winter	23	Orifice	24	1.1				
60 minute winter	24	4.002	25	2.9	0.783	0.116	0.5013	
60 minute winter	25	Orifice	26	4.0				
60 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	11.5
60 minute winter	26	Hydro-Brake®	28	1.6				
60 minute winter	27	5.001	26	-1.2	-0.099	-0.092	0.9026	

Results for 2 year 60 minute winter. 300 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
60 minute winter	10	57	216.908	0.242	8.6	0.5932	0.0000	SURCHARGED
60 minute winter	11	57	216.701	0.090	8.4	0.0255	0.0000	OK
60 minute winter	OUTFALL1	57	216.661	0.081	8.4	0.0000	0.0000	OK
60 minute winter	12	61	216.602	0.039	0.2	0.0110	0.0000	OK
60 minute winter	OUTFALL2	120	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.4				
60 minute winter	11	1.010	OUTFALL1	8.4	0.807	0.575	0.0475	39.2
60 minute winter	12	5.000	27	-0.2	-0.057	-0.018	0.1009	

Results for 2 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	2	218.710	0.000	0.0	0.0000	0.0000	OK
120 minute summer	2	64	218.529	0.029	1.6	0.0322	0.0000	OK
120 minute summer	3	68	218.378	0.235	3.2	0.4541	0.0000	SURCHARGED
120 minute summer	4	72	217.722	0.173	6.5	0.3515	0.0000	OK
120 minute summer	5	72	217.720	0.331	6.7	1.2589	0.0000	SURCHARGED
120 minute summer	6	84	217.444	0.226	7.6	0.8680	0.0000	SURCHARGED
120 minute summer	7	84	217.440	0.350	8.7	1.2042	0.0000	SURCHARGED
120 minute summer	13	64	218.697	0.033	1.5	0.0220	0.0000	OK
120 minute summer	14	64	218.552	0.038	2.1	0.0271	0.0000	OK
120 minute summer	20	70	218.484	0.009	0.1	0.0027	0.0000	OK
120 minute summer	21	66	218.410	0.019	0.5	0.0096	0.0000	OK
120 minute summer	15	82	218.350	0.048	2.9	0.0525	0.0000	OK
120 minute summer	16	82	218.349	0.313	3.8	0.9724	0.0000	SURCHARGED
120 minute summer	17	80	218.348	0.528	3.3	2.2614	0.0000	SURCHARGED
120 minute summer	18	64	217.537	0.048	4.2	0.0915	0.0000	OK
120 minute summer	19	84	217.438	0.133	5.4	0.2184	0.0000	OK
120 minute summer	8	84	217.437	0.590	12.0	4.0842	0.0000	SURCHARGED
120 minute summer	9	86	216.906	0.151	8.5	0.2121	0.0000	OK
120 minute summer	22	2	218.616	0.000	0.0	0.0000	0.0000	OK
120 minute summer	23	70	218.134	0.166	1.4	0.2063	0.0000	SURCHARGED
120 minute summer	24	64	217.347	0.033	2.8	0.0327	0.0000	OK
120 minute summer	25	74	216.632	0.386	5.4	0.6697	0.0000	SURCHARGED
120 minute summer	28	166	215.634	0.033	1.6	0.0376	0.0000	OK
120 minute summer	26	94	216.597	0.519	5.1	3.6374	0.0000	SURCHARGED
120 minute summer	27	92	216.597	0.103	1.2	0.1349	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	1	1.000	2	0.0	0.000	0.000	0.0378	
120 minute summer	2	1.001	3	1.6	0.176	0.083	0.3021	
120 minute summer	3	Orifice	4	2.6				
120 minute summer	4	1.003	5	5.5	0.277	0.159	1.3098	
120 minute summer	5	Orifice	6	5.4				
120 minute summer	6	1.005	7	7.1	0.665	0.205	1.1465	
120 minute summer	7	1.006	8	6.5	0.302	0.128	1.0030	
120 minute summer	13	2.000	14	1.5	0.472	0.104	0.0720	
120 minute summer	14	2.001	15	2.1	0.524	0.145	0.1268	
120 minute summer	20	3.000	21	0.1	0.152	0.007	0.0108	
120 minute summer	21	3.001	15	0.5	0.189	0.035	0.0387	
120 minute summer	15	2.002	16	2.9	0.511	0.199	0.4492	
120 minute summer	16	2.003	17	2.1	0.166	0.148	0.5717	
120 minute summer	17	Orifice	18	1.4				
120 minute summer	18	2.005	19	4.2	0.670	0.099	0.3871	
120 minute summer	19	2.006	8	5.4	0.267	0.103	1.4791	
120 minute summer	8	Orifice	9	8.1				
120 minute summer	9	1.008	10	8.3	0.401	0.195	0.4532	
120 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
120 minute summer	23	Orifice	24	1.0				
120 minute summer	24	4.002	25	2.8	0.782	0.109	0.4983	
120 minute summer	25	Orifice	26	3.8				
120 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	14.4
120 minute summer	26	Hydro-Brake®	28	1.6				
120 minute summer	27	5.001	26	-1.1	-0.089	-0.081	0.8821	

Results for 2 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	10	86	216.903	0.237	8.5	0.5773	0.0000	SURCHARGED
120 minute summer	11	86	216.701	0.090	8.4	0.0255	0.0000	OK
120 minute summer	OUTFALL1	86	216.661	0.081	8.4	0.0000	0.0000	OK
120 minute summer	12	96	216.597	0.034	0.2	0.0096	0.0000	OK
120 minute summer	OUTFALL2	166	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.4				
120 minute summer	11	1.010	OUTFALL1	8.4	0.806	0.573	0.0474	48.8
120 minute summer	12	5.000	27	-0.2	-0.049	-0.014	0.0928	

Results for 2 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	2	218.710	0.000	0.0	0.0000	0.0000	OK
120 minute winter	2	64	218.526	0.026	1.3	0.0286	0.0000	OK
120 minute winter	3	70	218.336	0.193	2.6	0.3268	0.0000	SURCHARGED
120 minute winter	4	76	217.700	0.151	5.4	0.2823	0.0000	OK
120 minute winter	5	76	217.698	0.309	5.7	1.1402	0.0000	SURCHARGED
120 minute winter	6	88	217.477	0.259	7.0	1.0689	0.0000	SURCHARGED
120 minute winter	7	88	217.474	0.384	7.6	1.3798	0.0000	SURCHARGED
120 minute winter	13	64	218.693	0.029	1.2	0.0197	0.0000	OK
120 minute winter	14	64	218.548	0.035	1.7	0.0234	0.0000	OK
120 minute winter	20	64	218.484	0.009	0.1	0.0027	0.0000	OK
120 minute winter	21	64	218.408	0.017	0.4	0.0084	0.0000	OK
120 minute winter	15	88	218.380	0.078	2.3	0.1170	0.0000	OK
120 minute winter	16	88	218.379	0.343	3.0	1.1218	0.0000	SURCHARGED
120 minute winter	17	88	218.378	0.558	2.6	2.4314	0.0000	SURCHARGED
120 minute winter	18	64	217.534	0.044	3.6	0.0831	0.0000	OK
120 minute winter	19	90	217.472	0.167	4.5	0.3134	0.0000	OK
120 minute winter	8	88	217.471	0.624	10.9	4.4313	0.0000	SURCHARGED
120 minute winter	9	92	216.933	0.178	8.5	0.2528	0.0000	OK
120 minute winter	22	2	218.616	0.000	0.0	0.0000	0.0000	OK
120 minute winter	23	72	218.115	0.147	1.1	0.1732	0.0000	OK
120 minute winter	24	66	217.343	0.030	2.3	0.0294	0.0000	OK
120 minute winter	25	86	216.662	0.416	4.2	0.7679	0.0000	SURCHARGED
120 minute winter	28	186	215.634	0.033	1.6	0.0376	0.0000	OK
120 minute winter	26	100	216.646	0.567	4.3	4.2015	0.0000	SURCHARGED
120 minute winter	27	100	216.646	0.152	1.1	0.2214	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	0.0	0.000	0.000	0.0326	
120 minute winter	2	1.001	3	1.3	0.176	0.067	0.2972	
120 minute winter	3	Orifice	4	2.3				
120 minute winter	4	1.003	5	4.7	0.285	0.137	1.2273	
120 minute winter	5	Orifice	6	5.2				
120 minute winter	6	1.005	7	6.4	0.644	0.185	1.1469	
120 minute winter	7	1.006	8	6.7	0.303	0.131	1.0030	
120 minute winter	13	2.000	14	1.2	0.440	0.083	0.0617	
120 minute winter	14	2.001	15	1.7	0.496	0.117	0.1738	
120 minute winter	20	3.000	21	0.1	0.153	0.007	0.0097	
120 minute winter	21	3.001	15	0.4	0.184	0.028	0.0656	
120 minute winter	15	2.002	16	2.3	0.478	0.158	0.5368	
120 minute winter	16	2.003	17	1.8	0.161	0.127	0.5717	
120 minute winter	17	Orifice	18	1.5				
120 minute winter	18	2.005	19	3.6	0.644	0.084	0.4895	
120 minute winter	19	2.006	8	4.4	0.274	0.086	1.6436	
120 minute winter	8	Orifice	9	8.2				
120 minute winter	9	1.008	10	8.4	0.400	0.198	0.4883	
120 minute winter	22	4.000	23	0.0	0.000	0.000	0.2791	
120 minute winter	23	Orifice	24	0.9				
120 minute winter	24	4.002	25	2.3	0.784	0.090	0.4890	
120 minute winter	25	Orifice	26	3.3				
120 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	16.2
120 minute winter	26	Hydro-Brake®	28	1.6				
120 minute winter	27	5.001	26	-0.9	-0.078	-0.067	1.0193	

Results for 2 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	10	92	216.929	0.263	8.6	0.6554	0.0000	SURCHARGED
120 minute winter	11	92	216.702	0.091	8.4	0.0256	0.0000	OK
120 minute winter	OUTFALL1	92	216.662	0.082	8.4	0.0000	0.0000	OK
120 minute winter	12	100	216.646	0.083	0.2	0.0234	0.0000	OK
120 minute winter	OUTFALL2	186	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.4				
120 minute winter	11	1.010	OUTFALL1	8.4	0.808	0.579	0.0478	54.9
120 minute winter	12	5.000	27	-0.2	-0.051	-0.015	0.1616	

Results for 2 year 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	1	4	218.710	0.000	0.0	0.0000	0.0000	OK
180 minute summer	2	96	218.526	0.026	1.3	0.0286	0.0000	OK
180 minute summer	3	100	218.334	0.191	2.6	0.3210	0.0000	SURCHARGED
180 minute summer	4	104	217.686	0.137	5.5	0.2441	0.0000	OK
180 minute summer	5	104	217.684	0.295	5.6	1.0711	0.0000	SURCHARGED
180 minute summer	6	120	217.441	0.223	6.9	0.8529	0.0000	OK
180 minute summer	7	120	217.439	0.348	7.7	1.1950	0.0000	SURCHARGED
180 minute summer	13	96	218.693	0.029	1.2	0.0197	0.0000	OK
180 minute summer	14	96	218.548	0.035	1.7	0.0234	0.0000	OK
180 minute summer	20	96	218.484	0.009	0.1	0.0027	0.0000	OK
180 minute summer	21	96	218.408	0.017	0.4	0.0084	0.0000	OK
180 minute summer	15	116	218.347	0.045	2.3	0.0469	0.0000	OK
180 minute summer	16	116	218.346	0.310	3.0	0.9568	0.0000	SURCHARGED
180 minute summer	17	116	218.344	0.524	2.6	2.2423	0.0000	SURCHARGED
180 minute summer	18	96	217.534	0.045	3.6	0.0841	0.0000	OK
180 minute summer	19	120	217.436	0.131	4.5	0.2147	0.0000	OK
180 minute summer	8	120	217.435	0.588	10.6	4.0672	0.0000	SURCHARGED
180 minute summer	9	124	216.908	0.153	8.4	0.2148	0.0000	OK
180 minute summer	22	4	218.616	0.000	0.0	0.0000	0.0000	OK
180 minute summer	23	100	218.102	0.134	1.1	0.1524	0.0000	OK
180 minute summer	24	96	217.344	0.031	2.3	0.0297	0.0000	OK
180 minute summer	25	112	216.623	0.377	4.3	0.6419	0.0000	SURCHARGED
180 minute summer	28	212	215.634	0.033	1.6	0.0376	0.0000	OK
180 minute summer	26	128	216.602	0.524	4.4	3.7000	0.0000	SURCHARGED
180 minute summer	27	128	216.603	0.109	1.0	0.1449	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	1	1.000	2	0.0	0.000	0.000	0.0327	
180 minute summer	2	1.001	3	1.3	0.164	0.067	0.2972	
180 minute summer	3	Orifice	4	2.3				
180 minute summer	4	1.003	5	4.6	0.287	0.133	1.1728	
180 minute summer	5	Orifice	6	5.1				
180 minute summer	6	1.005	7	6.4	0.648	0.186	1.1461	
180 minute summer	7	1.006	8	6.3	0.313	0.123	1.0030	
180 minute summer	13	2.000	14	1.2	0.442	0.083	0.0618	
180 minute summer	14	2.001	15	1.7	0.496	0.118	0.1087	
180 minute summer	20	3.000	21	0.1	0.153	0.007	0.0097	
180 minute summer	21	3.001	15	0.4	0.183	0.028	0.0331	
180 minute summer	15	2.002	16	2.3	0.494	0.159	0.4401	
180 minute summer	16	2.003	17	1.9	0.150	0.131	0.5717	
180 minute summer	17	Orifice	18	1.4				
180 minute summer	18	2.005	19	3.6	0.649	0.086	0.3841	
180 minute summer	19	2.006	8	4.5	0.244	0.087	1.4718	
180 minute summer	8	Orifice	9	8.1				
180 minute summer	9	1.008	10	8.3	0.400	0.195	0.4558	
180 minute summer	22	4.000	23	0.0	0.000	0.000	0.2642	
180 minute summer	23	Orifice	24	0.9				
180 minute summer	24	4.002	25	2.3	0.776	0.091	0.4899	
180 minute summer	25	Orifice	26	3.2				
180 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	17.0
180 minute summer	26	Hydro-Brake®	28	1.6				
180 minute summer	27	5.001	26	-0.9	-0.070	-0.065	0.9050	

Results for 2 year 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	10	124	216.905	0.239	8.5	0.5828	0.0000	SURCHARGED
180 minute summer	11	124	216.701	0.090	8.4	0.0255	0.0000	OK
180 minute summer	OUTFALL1	124	216.661	0.081	8.4	0.0000	0.0000	OK
180 minute summer	12	128	216.603	0.040	0.1	0.0112	0.0000	OK
180 minute summer	OUTFALL2	212	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.4				
180 minute summer	11	1.010	OUTFALL1	8.4	0.807	0.574	0.0474	57.8
180 minute summer	12	5.000	27	-0.1	-0.029	-0.010	0.1019	

Results for 2 year 180 minute winter. 420 minute analysis at 4 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
180 minute winter	1	4	218.710	0.000	0.0	0.0000	0.0000	OK
180 minute winter	2	100	218.523	0.023	1.0	0.0246	0.0000	OK
180 minute winter	3	100	218.287	0.144	2.0	0.2044	0.0000	OK
180 minute winter	4	108	217.644	0.095	4.4	0.1483	0.0000	OK
180 minute winter	5	108	217.642	0.253	4.9	0.8556	0.0000	SURCHARGED
180 minute winter	6	124	217.453	0.235	6.2	0.9199	0.0000	SURCHARGED
180 minute winter	7	124	217.450	0.360	6.5	1.2539	0.0000	SURCHARGED
180 minute winter	13	96	218.689	0.025	0.9	0.0171	0.0000	OK
180 minute winter	14	100	218.543	0.030	1.3	0.0195	0.0000	OK
180 minute winter	20	92	218.484	0.009	0.1	0.0027	0.0000	OK
180 minute winter	21	96	218.408	0.017	0.4	0.0084	0.0000	OK
180 minute winter	15	124	218.377	0.075	1.9	0.1078	0.0000	OK
180 minute winter	16	124	218.376	0.340	2.5	1.1053	0.0000	SURCHARGED
180 minute winter	17	124	218.374	0.554	2.3	2.4130	0.0000	SURCHARGED
180 minute winter	18	96	217.531	0.042	3.2	0.0766	0.0000	OK
180 minute winter	19	124	217.448	0.143	3.9	0.2450	0.0000	OK
180 minute winter	8	124	217.447	0.600	9.6	4.1870	0.0000	SURCHARGED
180 minute winter	9	124	216.920	0.165	8.5	0.2349	0.0000	OK
180 minute winter	22	4	218.616	0.000	0.0	0.0000	0.0000	OK
180 minute winter	23	104	218.082	0.113	0.9	0.1234	0.0000	OK
180 minute winter	24	100	217.341	0.028	1.9	0.0266	0.0000	OK
180 minute winter	25	132	216.657	0.411	3.5	0.7519	0.0000	SURCHARGED
180 minute winter	28	84	215.634	0.033	1.6	0.0376	0.0000	OK
180 minute winter	26	140	216.645	0.567	3.7	4.1958	0.0000	SURCHARGED
180 minute winter	27	140	216.645	0.151	0.8	0.2203	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	0.0	0.000	0.000	0.0272	
180 minute winter	2	1.001	3	1.0	0.162	0.052	0.2886	
180 minute winter	3	Orifice	4	1.9				
180 minute winter	4	1.003	5	4.1	0.255	0.118	1.0031	
180 minute winter	5	Orifice	6	4.6				
180 minute winter	6	1.005	7	5.6	0.631	0.163	1.1469	
180 minute winter	7	1.006	8	6.0	0.299	0.118	1.0030	
180 minute winter	13	2.000	14	0.9	0.401	0.062	0.0509	
180 minute winter	14	2.001	15	1.3	0.452	0.090	0.1644	
180 minute winter	20	3.000	21	0.1	0.153	0.007	0.0097	
180 minute winter	21	3.001	15	0.4	0.187	0.028	0.0618	
180 minute winter	15	2.002	16	1.9	0.432	0.131	0.5258	
180 minute winter	16	2.003	17	1.5	0.157	0.104	0.5717	
180 minute winter	17	Orifice	18	1.5				
180 minute winter	18	2.005	19	3.2	0.622	0.074	0.4242	
180 minute winter	19	2.006	8	3.8	0.270	0.073	1.5304	
180 minute winter	8	Orifice	9	8.1				
180 minute winter	9	1.008	10	8.3	0.399	0.196	0.4725	
180 minute winter	22	4.000	23	0.0	0.000	0.000	0.2276	
180 minute winter	23	Orifice	24	0.8				
180 minute winter	24	4.002	25	1.9	0.755	0.074	0.4814	
180 minute winter	25	Orifice	26	2.8				
180 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	19.0
180 minute winter	26	Hydro-Brake®	28	1.6				
180 minute winter	27	5.001	26	-0.7	-0.046	-0.053	1.0192	

Results for 2 year 180 minute winter. 420 minute analysis at 4 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
180 minute winter	10	124	216.917	0.251	8.5	0.6186	0.0000	SURCHARGED
180 minute winter	11	124	216.701	0.090	8.4	0.0256	0.0000	OK
180 minute winter	OUTFALL1	124	216.661	0.081	8.4	0.0000	0.0000	OK
180 minute winter	12	140	216.645	0.082	0.2	0.0232	0.0000	OK
180 minute winter	OUTFALL2	84	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.4				
180 minute winter	11	1.010	OUTFALL1	8.4	0.807	0.577	0.0476	65.3
180 minute winter	12	5.000	27	-0.2	-0.034	-0.013	0.1610	

Results for 2 year 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	1	4	218.710	0.000	0.0	0.0000	0.0000	OK
240 minute summer	2	124	218.525	0.025	1.2	0.0270	0.0000	OK
240 minute summer	3	128	218.308	0.165	2.4	0.2536	0.0000	SURCHARGED
240 minute summer	4	136	217.653	0.104	4.9	0.1668	0.0000	OK
240 minute summer	5	136	217.651	0.262	5.2	0.8995	0.0000	SURCHARGED
240 minute summer	6	152	217.428	0.210	6.4	0.7759	0.0000	OK
240 minute summer	7	152	217.426	0.336	6.7	1.1328	0.0000	SURCHARGED
240 minute summer	13	124	218.692	0.028	1.1	0.0188	0.0000	OK
240 minute summer	14	124	218.546	0.033	1.6	0.0220	0.0000	OK
240 minute summer	20	128	218.484	0.009	0.1	0.0027	0.0000	OK
240 minute summer	21	128	218.408	0.017	0.4	0.0084	0.0000	OK
240 minute summer	15	152	218.347	0.045	2.1	0.0466	0.0000	OK
240 minute summer	16	152	218.346	0.310	2.8	0.9563	0.0000	SURCHARGED
240 minute summer	17	152	218.344	0.524	2.6	2.2434	0.0000	SURCHARGED
240 minute summer	18	128	217.532	0.043	3.3	0.0794	0.0000	OK
240 minute summer	19	152	217.424	0.119	4.1	0.1836	0.0000	OK
240 minute summer	8	152	217.423	0.576	10.0	3.9397	0.0000	SURCHARGED
240 minute summer	9	156	216.899	0.144	8.3	0.2020	0.0000	OK
240 minute summer	22	4	218.616	0.000	0.0	0.0000	0.0000	OK
240 minute summer	23	132	218.087	0.119	1.0	0.1308	0.0000	OK
240 minute summer	24	124	217.342	0.029	2.1	0.0277	0.0000	OK
240 minute summer	25	148	216.622	0.376	3.8	0.6397	0.0000	SURCHARGED
240 minute summer	28	256	215.634	0.033	1.6	0.0376	0.0000	OK
240 minute summer	26	164	216.606	0.528	3.9	3.7378	0.0000	SURCHARGED
240 minute summer	27	164	216.606	0.112	0.6	0.1504	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	1	1.000	2	0.0	0.000	0.000	0.0305	
240 minute summer	2	1.001	3	1.2	0.162	0.061	0.2941	
240 minute summer	3	Orifice	4	2.1				
240 minute summer	4	1.003	5	4.4	0.253	0.127	1.0404	
240 minute summer	5	Orifice	6	4.7				
240 minute summer	6	1.005	7	5.8	0.615	0.169	1.1305	
240 minute summer	7	1.006	8	6.2	0.274	0.121	1.0030	
240 minute summer	13	2.000	14	1.1	0.426	0.075	0.0578	
240 minute summer	14	2.001	15	1.5	0.482	0.107	0.1019	
240 minute summer	20	3.000	21	0.1	0.153	0.007	0.0097	
240 minute summer	21	3.001	15	0.4	0.180	0.028	0.0326	
240 minute summer	15	2.002	16	2.1	0.432	0.145	0.4397	
240 minute summer	16	2.003	17	1.7	0.124	0.119	0.5717	
240 minute summer	17	Orifice	18	1.4				
240 minute summer	18	2.005	19	3.3	0.631	0.078	0.3466	
240 minute summer	19	2.006	8	4.1	0.251	0.079	1.4061	
240 minute summer	8	Orifice	9	8.1				
240 minute summer	9	1.008	10	8.2	0.399	0.194	0.4433	
240 minute summer	22	4.000	23	0.0	0.000	0.000	0.2382	
240 minute summer	23	Orifice	24	0.8				
240 minute summer	24	4.002	25	2.0	0.763	0.080	0.4843	
240 minute summer	25	Orifice	26	2.9				
240 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	19.4
240 minute summer	26	Hydro-Brake®	28	1.6				
240 minute summer	27	5.001	26	-0.5	0.038	-0.039	0.9176	

Results for 2 year 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	10	156	216.897	0.230	8.4	0.5574	0.0000	SURCHARGED
240 minute summer	11	156	216.701	0.090	8.3	0.0254	0.0000	OK
240 minute summer	OUTFALL1	156	216.661	0.081	8.3	0.0000	0.0000	OK
240 minute summer	12	164	216.606	0.043	0.1	0.0121	0.0000	OK
240 minute summer	OUTFALL2	256	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.3				
240 minute summer	11	1.010	OUTFALL1	8.3	0.806	0.571	0.0473	65.5
240 minute summer	12	5.000	27	-0.1	-0.028	-0.010	0.1070	

Results for 2 year 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	1	4	218.710	0.000	0.0	0.0000	0.0000	OK
240 minute winter	2	124	218.522	0.022	0.9	0.0228	0.0000	OK
240 minute winter	3	128	218.255	0.112	1.8	0.1432	0.0000	OK
240 minute winter	4	132	217.602	0.053	3.8	0.0804	0.0000	OK
240 minute winter	5	136	217.600	0.211	4.5	0.6387	0.0000	OK
240 minute winter	6	156	217.412	0.194	5.6	0.6801	0.0000	OK
240 minute winter	7	156	217.410	0.320	6.0	1.0589	0.0000	SURCHARGED
240 minute winter	13	124	218.688	0.024	0.8	0.0161	0.0000	OK
240 minute winter	14	128	218.541	0.028	1.1	0.0175	0.0000	OK
240 minute winter	20	124	218.484	0.009	0.1	0.0027	0.0000	OK
240 minute winter	21	128	218.406	0.015	0.3	0.0070	0.0000	OK
240 minute winter	15	160	218.354	0.052	1.6	0.0586	0.0000	OK
240 minute winter	16	160	218.353	0.317	2.1	0.9904	0.0000	SURCHARGED
240 minute winter	17	160	218.351	0.531	2.0	2.2801	0.0000	SURCHARGED
240 minute winter	18	124	217.529	0.040	2.8	0.0729	0.0000	OK
240 minute winter	19	156	217.408	0.103	3.5	0.1488	0.0000	OK
240 minute winter	8	156	217.407	0.560	8.9	3.7764	0.0000	SURCHARGED
240 minute winter	9	156	216.896	0.141	8.3	0.1967	0.0000	OK
240 minute winter	22	4	218.616	0.000	0.0	0.0000	0.0000	OK
240 minute winter	23	136	218.057	0.089	0.7	0.0921	0.0000	OK
240 minute winter	24	128	217.339	0.026	1.7	0.0250	0.0000	OK
240 minute winter	25	172	216.640	0.394	3.0	0.6944	0.0000	SURCHARGED
240 minute winter	28	112	215.634	0.033	1.6	0.0376	0.0000	OK
240 minute winter	26	176	216.628	0.550	3.2	3.9894	0.0000	SURCHARGED
240 minute winter	27	176	216.628	0.134	0.6	0.1888	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	1	1.000	2	0.0	0.000	0.000	0.0248	
240 minute winter	2	1.001	3	0.9	0.161	0.045	0.2361	
240 minute winter	3	Orifice	4	1.7				
240 minute winter	4	1.003	5	3.8	0.249	0.109	0.8245	
240 minute winter	5	Orifice	6	4.2				
240 minute winter	6	1.005	7	5.2	0.613	0.150	1.0980	
240 minute winter	7	1.006	8	5.4	0.279	0.105	1.0030	
240 minute winter	13	2.000	14	0.8	0.395	0.055	0.0459	
240 minute winter	14	2.001	15	1.1	0.433	0.076	0.1102	
240 minute winter	20	3.000	21	0.1	0.153	0.007	0.0084	
240 minute winter	21	3.001	15	0.3	0.173	0.021	0.0390	
240 minute winter	15	2.002	16	1.6	0.421	0.111	0.4587	
240 minute winter	16	2.003	17	1.4	0.152	0.097	0.5717	
240 minute winter	17	Orifice	18	1.4				
240 minute winter	18	2.005	19	2.9	0.609	0.068	0.3007	
240 minute winter	19	2.006	8	3.4	0.282	0.066	1.3259	
240 minute winter	8	Orifice	9	8.0				
240 minute winter	9	1.008	10	8.2	0.398	0.194	0.4389	
240 minute winter	22	4.000	23	0.0	0.000	0.000	0.1739	
240 minute winter	23	Orifice	24	0.7				
240 minute winter	24	4.002	25	1.7	0.750	0.066	0.4769	
240 minute winter	25	Orifice	26	2.5				
240 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	21.3
240 minute winter	26	Hydro-Brake®	28	1.6				
240 minute winter	27	5.001	26	-0.5	0.061	-0.034	0.9900	

Results for 2 year 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	10	156	216.894	0.227	8.4	0.5489	0.0000	SURCHARGED
240 minute winter	11	156	216.701	0.090	8.3	0.0254	0.0000	OK
240 minute winter	OUTFALL1	156	216.661	0.081	8.3	0.0000	0.0000	OK
240 minute winter	12	176	216.628	0.065	0.1	0.0183	0.0000	OK
240 minute winter	OUTFALL2	112	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.3				
240 minute winter	11	1.010	OUTFALL1	8.3	0.805	0.570	0.0472	73.3
240 minute winter	12	5.000	27	-0.1	-0.024	-0.009	0.1401	

Results for 2 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	8	218.710	0.000	0.0	0.0000	0.0000	OK
360 minute summer	2	184	218.522	0.022	0.9	0.0230	0.0000	OK
360 minute summer	3	192	218.257	0.114	1.8	0.1464	0.0000	OK
360 minute summer	4	192	217.602	0.052	3.9	0.0801	0.0000	OK
360 minute summer	5	192	217.600	0.211	4.6	0.6397	0.0000	OK
360 minute summer	6	208	217.379	0.161	5.5	0.5010	0.0000	OK
360 minute summer	7	208	217.377	0.287	6.3	0.9155	0.0000	SURCHARGED
360 minute summer	13	184	218.689	0.025	0.9	0.0170	0.0000	OK
360 minute summer	14	184	218.543	0.030	1.3	0.0191	0.0000	OK
360 minute summer	20	192	218.484	0.009	0.1	0.0027	0.0000	OK
360 minute summer	21	192	218.406	0.015	0.3	0.0070	0.0000	OK
360 minute summer	15	184	218.337	0.035	1.8	0.0308	0.0000	OK
360 minute summer	16	216	218.321	0.285	2.2	0.8305	0.0000	SURCHARGED
360 minute summer	17	216	218.320	0.500	2.1	2.1041	0.0000	SURCHARGED
360 minute summer	18	184	217.529	0.040	2.9	0.0734	0.0000	OK
360 minute summer	19	208	217.376	0.071	3.6	0.0866	0.0000	OK
360 minute summer	8	208	217.375	0.528	9.2	3.4426	0.0000	SURCHARGED
360 minute summer	9	216	216.868	0.113	8.1	0.1490	0.0000	OK
360 minute summer	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
360 minute summer	23	192	218.063	0.094	0.8	0.0987	0.0000	OK
360 minute summer	24	184	217.340	0.027	1.8	0.0257	0.0000	OK
360 minute summer	25	224	216.595	0.349	3.3	0.5600	0.0000	SURCHARGED
360 minute summer	28	176	215.634	0.033	1.6	0.0376	0.0000	OK
360 minute summer	26	232	216.581	0.503	3.2	3.4616	0.0000	SURCHARGED
360 minute summer	27	232	216.581	0.087	0.3	0.1075	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	1	1.000	2	0.0	0.000	0.000	0.0250	
360 minute summer	2	1.001	3	0.9	0.158	0.046	0.2394	
360 minute summer	3	Orifice	4	1.7				
360 minute summer	4	1.003	5	3.9	0.250	0.113	0.8245	
360 minute summer	5	Orifice	6	4.2				
360 minute summer	6	1.005	7	5.4	0.619	0.158	1.0124	
360 minute summer	7	1.006	8	5.3	0.247	0.103	1.0030	
360 minute summer	13	2.000	14	0.9	0.402	0.061	0.0499	
360 minute summer	14	2.001	15	1.3	0.454	0.087	0.0878	
360 minute summer	20	3.000	21	0.1	0.153	0.007	0.0084	
360 minute summer	21	3.001	15	0.3	0.168	0.021	0.0267	
360 minute summer	15	2.002	16	1.7	0.410	0.117	0.4124	
360 minute summer	16	2.003	17	1.4	0.119	0.097	0.5717	
360 minute summer	17	Orifice	18	1.4				
360 minute summer	18	2.005	19	2.9	0.607	0.068	0.2043	
360 minute summer	19	2.006	8	3.5	0.180	0.068	1.1637	
360 minute summer	8	Orifice	9	7.8				
360 minute summer	9	1.008	10	8.0	0.395	0.189	0.3813	
360 minute summer	22	4.000	23	0.0	0.000	0.000	0.1860	
360 minute summer	23	Orifice	24	0.7				
360 minute summer	24	4.002	25	1.8	0.754	0.069	0.4759	
360 minute summer	25	Orifice	26	2.5				
360 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	22.7
360 minute summer	26	Hydro-Brake®	28	1.6				
360 minute summer	27	5.001	26	0.2	0.029	0.016	0.8169	

Results for 2 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	10	216	216.866	0.200	8.2	0.4724	0.0000	SURCHARGED
360 minute summer	11	216	216.699	0.088	8.1	0.0250	0.0000	OK
360 minute summer	OUTFALL1	216	216.660	0.080	8.1	0.0000	0.0000	OK
360 minute summer	12	232	216.581	0.018	0.1	0.0051	0.0000	OK
360 minute summer	OUTFALL2	176	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.1				
360 minute summer	11	1.010	OUTFALL1	8.1	0.802	0.559	0.0465	77.3
360 minute summer	12	5.000	27	-0.1	-0.016	-0.004	0.0693	

Results for 2 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	8	218.710	0.000	0.0	0.0000	0.0000	OK
360 minute winter	2	192	218.520	0.020	0.7	0.0202	0.0000	OK
360 minute winter	3	192	218.230	0.087	1.4	0.1025	0.0000	OK
360 minute winter	4	184	217.594	0.045	3.1	0.0687	0.0000	OK
360 minute winter	5	192	217.546	0.157	3.6	0.3844	0.0000	OK
360 minute winter	6	216	217.338	0.119	4.6	0.3194	0.0000	OK
360 minute winter	7	216	217.336	0.246	5.2	0.7379	0.0000	SURCHARGED
360 minute winter	13	176	218.685	0.021	0.6	0.0140	0.0000	OK
360 minute winter	14	184	218.538	0.025	0.9	0.0154	0.0000	OK
360 minute winter	20	8	218.475	0.000	0.0	0.0000	0.0000	OK
360 minute winter	21	184	218.403	0.012	0.2	0.0056	0.0000	OK
360 minute winter	15	192	218.331	0.029	1.2	0.0236	0.0000	OK
360 minute winter	16	232	218.302	0.266	1.6	0.7251	0.0000	SURCHARGED
360 minute winter	17	232	218.300	0.480	1.7	1.9940	0.0000	SURCHARGED
360 minute winter	18	192	217.526	0.037	2.5	0.0673	0.0000	OK
360 minute winter	19	192	217.341	0.036	3.0	0.0349	0.0000	OK
360 minute winter	8	224	217.334	0.487	7.9	3.0123	0.0000	SURCHARGED
360 minute winter	9	216	216.848	0.092	7.8	0.1105	0.0000	OK
360 minute winter	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
360 minute winter	23	192	218.038	0.070	0.6	0.0694	0.0000	OK
360 minute winter	24	192	217.337	0.024	1.4	0.0227	0.0000	OK
360 minute winter	25	240	216.592	0.346	2.5	0.5509	0.0000	SURCHARGED
360 minute winter	28	168	215.634	0.033	1.6	0.0376	0.0000	OK
360 minute winter	26	248	216.580	0.502	2.7	3.4491	0.0000	SURCHARGED
360 minute winter	27	248	216.580	0.086	0.3	0.1055	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	1	1.000	2	0.0	0.000	0.000	0.0212	
360 minute winter	2	1.001	3	0.7	0.158	0.036	0.1803	
360 minute winter	3	Orifice	4	1.4				
360 minute winter	4	1.003	5	3.1	0.243	0.089	0.6323	
360 minute winter	5	Orifice	6	3.5				
360 minute winter	6	1.005	7	4.5	0.597	0.130	0.8820	
360 minute winter	7	1.006	8	4.6	0.395	0.090	1.0030	
360 minute winter	13	2.000	14	0.6	0.367	0.041	0.0388	
360 minute winter	14	2.001	15	0.9	0.414	0.062	0.0690	
360 minute winter	20	3.000	21	0.0	0.000	0.000	0.0043	
360 minute winter	21	3.001	15	0.2	0.140	0.014	0.0207	
360 minute winter	15	2.002	16	1.2	0.399	0.083	0.3993	
360 minute winter	16	2.003	17	1.2	0.123	0.082	0.5717	
360 minute winter	17	Orifice	18	1.4				
360 minute winter	18	2.005	19	2.5	0.587	0.058	0.1160	
360 minute winter	19	2.006	8	3.0	0.180	0.057	1.0125	
360 minute winter	8	Orifice	9	7.5				
360 minute winter	9	1.008	10	7.8	0.397	0.183	0.3283	
360 minute winter	22	4.000	23	0.0	0.000	0.000	0.1286	
360 minute winter	23	Orifice	24	0.6				
360 minute winter	24	4.002	25	1.4	0.724	0.054	0.4708	
360 minute winter	25	Orifice	26	2.1				
360 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	25.3
360 minute winter	26	Hydro-Brake®	28	1.6				
360 minute winter	27	5.001	26	0.2	0.028	0.016	0.8118	

Results for 2 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	10	216	216.846	0.180	7.9	0.4186	0.0000	SURCHARGED
360 minute winter	11	216	216.698	0.087	7.9	0.0245	0.0000	OK
360 minute winter	OUTFALL1	216	216.658	0.078	7.9	0.0000	0.0000	OK
360 minute winter	12	248	216.580	0.017	0.0	0.0048	0.0000	OK
360 minute winter	OUTFALL2	168	215.603	0.031	1.6	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	10	Hydro-Brake®	11	7.9				
360 minute winter	11	1.010	OUTFALL1	7.9	0.796	0.541	0.0453	85.6
360 minute winter	12	5.000	27	0.0	-0.007	-0.002	0.0677	

Results for 2 year 480 minute summer. 720 minute analysis at 8 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
480 minute summer	1	8	218.710	0.000	0.0	0.0000	0.0000	OK
480 minute summer	2	248	218.521	0.021	0.8	0.0217	0.0000	OK
480 minute summer	3	248	218.246	0.103	1.6	0.1271	0.0000	OK
480 minute summer	4	248	217.597	0.048	3.5	0.0729	0.0000	OK
480 minute summer	5	256	217.569	0.180	4.1	0.4973	0.0000	OK
480 minute summer	6	272	217.339	0.121	5.0	0.3260	0.0000	OK
480 minute summer	7	272	217.338	0.248	5.7	0.7448	0.0000	SURCHARGED
480 minute summer	13	248	218.686	0.022	0.7	0.0151	0.0000	OK
480 minute summer	14	248	218.540	0.027	1.0	0.0165	0.0000	OK
480 minute summer	20	248	218.484	0.009	0.1	0.0027	0.0000	OK
480 minute summer	21	248	218.406	0.015	0.3	0.0070	0.0000	OK
480 minute summer	15	248	218.333	0.031	1.4	0.0265	0.0000	OK
480 minute summer	16	280	218.281	0.245	1.8	0.6186	0.0000	SURCHARGED
480 minute summer	17	280	218.280	0.460	1.8	1.8787	0.0000	SURCHARGED
480 minute summer	18	248	217.527	0.038	2.6	0.0695	0.0000	OK
480 minute summer	19	248	217.342	0.037	3.1	0.0359	0.0000	OK
480 minute summer	8	272	217.335	0.488	8.3	3.0285	0.0000	SURCHARGED
480 minute summer	9	272	216.847	0.092	7.7	0.1096	0.0000	OK
480 minute summer	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
480 minute summer	23	256	218.039	0.071	0.6	0.0708	0.0000	OK
480 minute summer	24	248	217.338	0.025	1.5	0.0235	0.0000	OK
480 minute summer	25	288	216.574	0.327	2.7	0.4999	0.0000	SURCHARGED
480 minute summer	28	376	215.634	0.033	1.6	0.0376	0.0000	OK
480 minute summer	26	296	216.561	0.483	2.9	3.2337	0.0000	SURCHARGED
480 minute summer	27	296	216.561	0.067	0.3	0.0708	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	1	1.000	2	0.0	0.000	0.000	0.0232	
480 minute summer	2	1.001	3	0.8	0.157	0.041	0.2162	
480 minute summer	3	Orifice	4	1.6				
480 minute summer	4	1.003	5	3.5	0.246	0.100	0.7194	
480 minute summer	5	Orifice	6	3.8				
480 minute summer	6	1.005	7	5.0	0.609	0.146	0.8875	
480 minute summer	7	1.006	8	4.7	0.353	0.093	1.0030	
480 minute summer	13	2.000	14	0.7	0.374	0.048	0.0424	
480 minute summer	14	2.001	15	1.0	0.423	0.069	0.0758	
480 minute summer	20	3.000	21	0.1	0.153	0.007	0.0084	
480 minute summer	21	3.001	15	0.3	0.174	0.021	0.0241	
480 minute summer	15	2.002	16	1.4	0.399	0.097	0.4048	
480 minute summer	16	2.003	17	1.2	0.132	0.086	0.5717	
480 minute summer	17	Orifice	18	1.3				
480 minute summer	18	2.005	19	2.6	0.596	0.061	0.1202	
480 minute summer	19	2.006	8	3.1	0.178	0.060	1.0155	
480 minute summer	8	Orifice	9	7.5				
480 minute summer	9	1.008	10	7.7	0.397	0.182	0.3270	
480 minute summer	22	4.000	23	0.0	0.000	0.000	0.1313	
480 minute summer	23	Orifice	24	0.6				
480 minute summer	24	4.002	25	1.5	0.724	0.058	0.4729	
480 minute summer	25	Orifice	26	2.2				
480 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	26.2
480 minute summer	26	Hydro-Brake®	28	1.6				
480 minute summer	27	5.001	26	-0.2	0.084	-0.015	0.7297	

Results for 2 year 480 minute summer. 720 minute analysis at 8 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
480 minute summer	10	272	216.845	0.179	7.9	0.4173	0.0000	SURCHARGED
480 minute summer	11	272	216.697	0.086	7.9	0.0244	0.0000	OK
480 minute summer	OUTFALL1	272	216.658	0.078	7.9	0.0000	0.0000	OK
480 minute summer	12	8	216.563	0.000	0.0	0.0000	0.0000	OK
480 minute summer	OUTFALL2	376	215.603	0.031	1.6	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	10	Hydro-Brake®	11	7.9				
480 minute summer	11	1.010	OUTFALL1	7.9	0.796	0.540	0.0452	86.2
480 minute summer	12	5.000	27	0.0	0.000	0.000	0.0446	

Results for 2 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	8	218.710	0.000	0.0	0.0000	0.0000	OK
480 minute winter	2	248	218.518	0.018	0.6	0.0185	0.0000	OK
480 minute winter	3	248	218.213	0.070	1.2	0.0780	0.0000	OK
480 minute winter	4	248	217.590	0.041	2.6	0.0632	0.0000	OK
480 minute winter	5	256	217.511	0.122	3.0	0.2558	0.0000	OK
480 minute winter	6	256	217.268	0.050	3.8	0.0980	0.0000	OK
480 minute winter	7	272	217.257	0.167	4.3	0.4301	0.0000	OK
480 minute winter	13	224	218.683	0.019	0.5	0.0129	0.0000	OK
480 minute winter	14	232	218.535	0.022	0.7	0.0131	0.0000	OK
480 minute winter	20	8	218.475	0.000	0.0	0.0000	0.0000	OK
480 minute winter	21	176	218.400	0.009	0.1	0.0038	0.0000	OK
480 minute winter	15	240	218.327	0.025	0.9	0.0190	0.0000	OK
480 minute winter	16	296	218.235	0.199	1.2	0.4087	0.0000	SURCHARGED
480 minute winter	17	296	218.234	0.414	1.4	1.6175	0.0000	SURCHARGED
480 minute winter	18	264	217.524	0.035	2.2	0.0635	0.0000	OK
480 minute winter	19	264	217.339	0.034	2.6	0.0323	0.0000	OK
480 minute winter	8	272	217.256	0.409	7.0	2.1913	0.0000	SURCHARGED
480 minute winter	9	264	216.829	0.074	7.0	0.0802	0.0000	OK
480 minute winter	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
480 minute winter	23	264	218.024	0.056	0.5	0.0533	0.0000	OK
480 minute winter	24	264	217.334	0.021	1.1	0.0201	0.0000	OK
480 minute winter	25	312	216.530	0.284	2.0	0.3907	0.0000	SURCHARGED
480 minute winter	28	232	215.634	0.033	1.6	0.0376	0.0000	OK
480 minute winter	26	312	216.517	0.439	2.3	2.7459	0.0000	SURCHARGED
480 minute winter	27	312	216.518	0.024	0.1	0.0150	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	1	1.000	2	0.0	0.000	0.000	0.0190	
480 minute winter	2	1.001	3	0.6	0.157	0.031	0.1401	
480 minute winter	3	Orifice	4	1.2				
480 minute winter	4	1.003	5	2.6	0.241	0.075	0.4849	
480 minute winter	5	Orifice	6	2.9				
480 minute winter	6	1.005	7	3.8	0.593	0.111	0.5459	
480 minute winter	7	1.006	8	4.0	0.287	0.079	0.9005	
480 minute winter	13	2.000	14	0.5	0.341	0.035	0.0332	
480 minute winter	14	2.001	15	0.7	0.389	0.048	0.0570	
480 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
480 minute winter	21	3.001	15	0.1	0.135	0.007	0.0160	
480 minute winter	15	2.002	16	0.9	0.409	0.062	0.3905	
480 minute winter	16	2.003	17	1.1	0.131	0.073	0.5717	
480 minute winter	17	Orifice	18	1.3				
480 minute winter	18	2.005	19	2.2	0.572	0.052	0.1071	
480 minute winter	19	2.006	8	2.6	0.173	0.050	1.0045	
480 minute winter	8	Orifice	9	6.8				
480 minute winter	9	1.008	10	7.0	0.396	0.165	0.2784	
480 minute winter	22	4.000	23	0.0	0.000	0.000	0.0946	
480 minute winter	23	Orifice	24	0.5				
480 minute winter	24	4.002	25	1.1	0.699	0.043	0.4643	
480 minute winter	25	Orifice	26	1.8				
480 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	28.7
480 minute winter	26	Hydro-Brake®	28	1.6				
480 minute winter	27	5.001	26	0.1	0.047	0.008	0.5616	

Results for 2 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	10	264	216.828	0.162	7.2	0.3725	0.0000	SURCHARGED
480 minute winter	11	264	216.692	0.081	7.2	0.0230	0.0000	OK
480 minute winter	OUTFALL1	264	216.654	0.074	7.2	0.0000	0.0000	OK
480 minute winter	12	8	216.563	0.000	0.0	0.0000	0.0000	OK
480 minute winter	OUTFALL2	232	215.603	0.031	1.6	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	10	Hydro-Brake®	11	7.2				
480 minute winter	11	1.010	OUTFALL1	7.2	0.779	0.492	0.0421	96.8
480 minute winter	12	5.000	27	0.0	0.000	0.000	0.0105	

Results for 2 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
600 minute summer	2	315	218.518	0.018	0.6	0.0185	0.0000	OK
600 minute summer	3	315	218.214	0.071	1.2	0.0794	0.0000	OK
600 minute summer	4	315	217.592	0.043	2.8	0.0657	0.0000	OK
600 minute summer	5	315	217.530	0.141	3.3	0.3216	0.0000	OK
600 minute summer	6	330	217.286	0.068	4.3	0.1467	0.0000	OK
600 minute summer	7	330	217.285	0.195	4.9	0.5292	0.0000	OK
600 minute summer	13	315	218.685	0.021	0.6	0.0140	0.0000	OK
600 minute summer	14	315	218.537	0.024	0.8	0.0143	0.0000	OK
600 minute summer	20	15	218.475	0.000	0.0	0.0000	0.0000	OK
600 minute summer	21	315	218.403	0.012	0.2	0.0056	0.0000	OK
600 minute summer	15	315	218.330	0.028	1.1	0.0221	0.0000	OK
600 minute summer	16	345	218.251	0.215	1.5	0.4756	0.0000	SURCHARGED
600 minute summer	17	345	218.250	0.430	1.6	1.7072	0.0000	SURCHARGED
600 minute summer	18	315	217.526	0.037	2.4	0.0662	0.0000	OK
600 minute summer	19	315	217.341	0.036	2.9	0.0344	0.0000	OK
600 minute summer	8	330	217.283	0.436	7.6	2.4630	0.0000	SURCHARGED
600 minute summer	9	330	216.835	0.080	7.3	0.0901	0.0000	OK
600 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
600 minute summer	23	315	218.023	0.055	0.5	0.0524	0.0000	OK
600 minute summer	24	315	217.335	0.022	1.2	0.0210	0.0000	OK
600 minute summer	25	360	216.509	0.263	2.2	0.3422	0.0000	SURCHARGED
600 minute summer	28	300	215.634	0.033	1.6	0.0376	0.0000	OK
600 minute summer	26	360	216.496	0.418	2.4	2.4952	0.0000	SURCHARGED
600 minute summer	27	330	216.503	0.009	0.1	0.0043	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	1	1.000	2	0.0	0.000	0.000	0.0190	
600 minute summer	2	1.001	3	0.6	0.155	0.031	0.1422	
600 minute summer	3	Orifice	4	1.2				
600 minute summer	4	1.003	5	2.8	0.241	0.081	0.5663	
600 minute summer	5	Orifice	6	3.2				
600 minute summer	6	1.005	7	4.3	0.594	0.126	0.6731	
600 minute summer	7	1.006	8	4.3	0.257	0.084	0.9620	
600 minute summer	13	2.000	14	0.6	0.367	0.041	0.0371	
600 minute summer	14	2.001	15	0.8	0.396	0.055	0.0643	
600 minute summer	20	3.000	21	0.0	0.000	0.000	0.0043	
600 minute summer	21	3.001	15	0.2	0.142	0.014	0.0198	
600 minute summer	15	2.002	16	1.1	0.404	0.076	0.3965	
600 minute summer	16	2.003	17	1.1	0.261	0.079	0.5717	
600 minute summer	17	Orifice	18	1.3				
600 minute summer	18	2.005	19	2.4	0.580	0.056	0.1138	
600 minute summer	19	2.006	8	2.9	0.175	0.056	1.0108	
600 minute summer	8	Orifice	9	7.0				
600 minute summer	9	1.008	10	7.3	0.393	0.173	0.2956	
600 minute summer	22	4.000	23	0.0	0.000	0.000	0.0927	
600 minute summer	23	Orifice	24	0.5				
600 minute summer	24	4.002	25	1.2	0.691	0.047	0.4631	
600 minute summer	25	Orifice	26	1.8				
600 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	28.1
600 minute summer	26	Hydro-Brake®	28	1.6				
600 minute summer	27	5.001	26	0.1	0.036	0.007	0.5225	

Results for 2 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	10	330	216.834	0.168	7.4	0.3883	0.0000	SURCHARGED
600 minute summer	11	330	216.694	0.083	7.4	0.0235	0.0000	OK
600 minute summer	OUTFALL1	330	216.655	0.075	7.4	0.0000	0.0000	OK
600 minute summer	12	15	216.563	0.000	0.0	0.0000	0.0000	OK
600 minute summer	OUTFALL2	300	215.603	0.031	1.6	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	10	Hydro-Brake®	11	7.4				
600 minute summer	11	1.010	OUTFALL1	7.4	0.785	0.509	0.0432	91.9
600 minute summer	12	5.000	27	0.0	0.000	0.000	0.0026	

Results for 2 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
600 minute winter	2	300	218.517	0.017	0.5	0.0168	0.0000	OK
600 minute winter	3	330	218.200	0.057	1.0	0.0611	0.0000	OK
600 minute winter	4	330	217.587	0.038	2.2	0.0585	0.0000	OK
600 minute winter	5	330	217.492	0.103	2.6	0.1957	0.0000	OK
600 minute winter	6	285	217.265	0.047	3.4	0.0906	0.0000	OK
600 minute winter	7	345	217.199	0.109	3.9	0.2178	0.0000	OK
600 minute winter	13	315	218.683	0.019	0.5	0.0129	0.0000	OK
600 minute winter	14	315	218.535	0.022	0.7	0.0131	0.0000	OK
600 minute winter	20	15	218.475	0.000	0.0	0.0000	0.0000	OK
600 minute winter	21	240	218.400	0.009	0.1	0.0038	0.0000	OK
600 minute winter	15	315	218.327	0.025	0.9	0.0190	0.0000	OK
600 minute winter	16	360	218.200	0.164	1.2	0.2788	0.0000	SURCHARGED
600 minute winter	17	360	218.199	0.379	1.4	1.4200	0.0000	SURCHARGED
600 minute winter	18	315	217.523	0.034	2.0	0.0607	0.0000	OK
600 minute winter	19	315	217.337	0.032	2.3	0.0301	0.0000	OK
600 minute winter	8	345	217.198	0.351	6.3	1.6640	0.0000	SURCHARGED
600 minute winter	9	345	216.814	0.059	6.4	0.0584	0.0000	OK
600 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
600 minute winter	23	345	218.010	0.042	0.4	0.0389	0.0000	OK
600 minute winter	24	315	217.333	0.020	1.0	0.0192	0.0000	OK
600 minute winter	25	375	216.450	0.204	1.8	0.2280	0.0000	OK
600 minute winter	28	300	215.634	0.033	1.6	0.0376	0.0000	OK
600 minute winter	26	375	216.437	0.359	2.1	1.8391	0.0000	SURCHARGED
600 minute winter	27	315	216.503	0.009	0.1	0.0043	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	1	1.000	2	0.0	0.000	0.000	0.0168	
600 minute winter	2	1.001	3	0.5	0.155	0.026	0.1096	
600 minute winter	3	Orifice	4	1.0				
600 minute winter	4	1.003	5	2.2	0.241	0.064	0.3997	
600 minute winter	5	Orifice	6	2.6				
600 minute winter	6	1.005	7	3.4	0.591	0.099	0.3599	
600 minute winter	7	1.006	8	3.7	0.301	0.073	0.7421	
600 minute winter	13	2.000	14	0.5	0.341	0.035	0.0332	
600 minute winter	14	2.001	15	0.7	0.389	0.048	0.0570	
600 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
600 minute winter	21	3.001	15	0.1	0.129	0.007	0.0160	
600 minute winter	15	2.002	16	0.9	0.386	0.062	0.3881	
600 minute winter	16	2.003	17	1.0	0.118	0.070	0.5717	
600 minute winter	17	Orifice	18	1.2				
600 minute winter	18	2.005	19	2.0	0.562	0.048	0.1001	
600 minute winter	19	2.006	8	2.3	0.167	0.045	0.9979	
600 minute winter	8	Orifice	9	6.2				
600 minute winter	9	1.008	10	6.4	0.390	0.152	0.2361	
600 minute winter	22	4.000	23	0.0	0.000	0.000	0.0641	
600 minute winter	23	Orifice	24	0.4				
600 minute winter	24	4.002	25	1.0	0.677	0.039	0.4150	
600 minute winter	25	Orifice	26	1.6				
600 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	30.6
600 minute winter	26	Hydro-Brake®	28	1.6				
600 minute winter	27	5.001	26	0.1	0.041	0.007	0.5225	

Results for 2 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	10	360	216.812	0.146	6.5	0.3323	0.0000	OK
600 minute winter	11	360	216.688	0.077	6.5	0.0218	0.0000	OK
600 minute winter	OUTFALL1	360	216.650	0.070	6.5	0.0000	0.0000	OK
600 minute winter	12	15	216.563	0.000	0.0	0.0000	0.0000	OK
600 minute winter	OUTFALL2	300	215.603	0.031	1.6	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	10	Hydro-Brake®	11	6.5				
600 minute winter	11	1.010	OUTFALL1	6.5	0.762	0.449	0.0393	105.1
600 minute winter	12	5.000	27	0.0	0.000	0.000	0.0026	

Results for 2 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
720 minute summer	2	375	218.518	0.018	0.6	0.0185	0.0000	OK
720 minute summer	3	375	218.214	0.071	1.2	0.0794	0.0000	OK
720 minute summer	4	375	217.591	0.042	2.6	0.0634	0.0000	OK
720 minute summer	5	375	217.518	0.129	3.1	0.2792	0.0000	OK
720 minute summer	6	375	217.270	0.052	4.1	0.1014	0.0000	OK
720 minute summer	7	390	217.253	0.163	4.7	0.4130	0.0000	OK
720 minute summer	13	375	218.683	0.019	0.5	0.0129	0.0000	OK
720 minute summer	14	375	218.535	0.022	0.7	0.0131	0.0000	OK
720 minute summer	20	15	218.475	0.000	0.0	0.0000	0.0000	OK
720 minute summer	21	315	218.400	0.009	0.1	0.0038	0.0000	OK
720 minute summer	15	375	218.327	0.025	0.9	0.0190	0.0000	OK
720 minute summer	16	405	218.190	0.154	1.2	0.2467	0.0000	SURCHARGED
720 minute summer	17	405	218.189	0.369	1.4	1.3651	0.0000	SURCHARGED
720 minute summer	18	375	217.524	0.035	2.2	0.0635	0.0000	OK
720 minute summer	19	375	217.339	0.034	2.6	0.0323	0.0000	OK
720 minute summer	8	390	217.251	0.404	7.1	2.1451	0.0000	SURCHARGED
720 minute summer	9	390	216.826	0.071	6.9	0.0756	0.0000	OK
720 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
720 minute summer	23	375	218.023	0.055	0.5	0.0524	0.0000	OK
720 minute summer	24	375	217.335	0.022	1.2	0.0210	0.0000	OK
720 minute summer	25	420	216.474	0.228	2.1	0.2702	0.0000	SURCHARGED
720 minute summer	28	360	215.634	0.033	1.6	0.0376	0.0000	OK
720 minute summer	26	420	216.461	0.383	2.3	2.0910	0.0000	SURCHARGED
720 minute summer	27	390	216.503	0.009	0.1	0.0043	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	1	1.000	2	0.0	0.000	0.000	0.0190	
720 minute summer	2	1.001	3	0.6	0.155	0.031	0.1422	
720 minute summer	3	Orifice	4	1.2				
720 minute summer	4	1.003	5	2.6	0.241	0.075	0.5148	
720 minute summer	5	Orifice	6	3.1				
720 minute summer	6	1.005	7	4.1	0.584	0.118	0.5354	
720 minute summer	7	1.006	8	4.1	0.267	0.081	0.8888	
720 minute summer	13	2.000	14	0.5	0.341	0.035	0.0332	
720 minute summer	14	2.001	15	0.7	0.389	0.048	0.0570	
720 minute summer	20	3.000	21	0.0	0.000	0.000	0.0027	
720 minute summer	21	3.001	15	0.1	0.135	0.007	0.0160	
720 minute summer	15	2.002	16	0.9	0.404	0.062	0.3874	
720 minute summer	16	2.003	17	1.0	0.161	0.066	0.5717	
720 minute summer	17	Orifice	18	1.2				
720 minute summer	18	2.005	19	2.2	0.572	0.052	0.1071	
720 minute summer	19	2.006	8	2.6	0.168	0.051	1.0045	
720 minute summer	8	Orifice	9	6.7				
720 minute summer	9	1.008	10	7.0	0.392	0.164	0.2700	
720 minute summer	22	4.000	23	0.0	0.000	0.000	0.0927	
720 minute summer	23	Orifice	24	0.5				
720 minute summer	24	4.002	25	1.2	0.670	0.047	0.4578	
720 minute summer	25	Orifice	26	1.8				
720 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	29.3
720 minute summer	26	Hydro-Brake®	28	1.6				
720 minute summer	27	5.001	26	0.1	0.036	0.007	0.5225	

Results for 2 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	10	390	216.825	0.159	7.1	0.3643	0.0000	SURCHARGED
720 minute summer	11	390	216.692	0.081	7.1	0.0228	0.0000	OK
720 minute summer	OUTFALL1	390	216.653	0.073	7.1	0.0000	0.0000	OK
720 minute summer	12	15	216.563	0.000	0.0	0.0000	0.0000	OK
720 minute summer	OUTFALL2	360	215.602	0.031	1.6	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	10	Hydro-Brake®	11	7.1				
720 minute summer	11	1.010	OUTFALL1	7.1	0.776	0.484	0.0416	98.5
720 minute summer	12	5.000	27	0.0	0.000	0.000	0.0026	

Results for 2 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
720 minute winter	2	330	218.515	0.015	0.4	0.0149	0.0000	OK
720 minute winter	3	345	218.191	0.048	0.8	0.0490	0.0000	OK
720 minute winter	4	375	217.585	0.036	1.9	0.0544	0.0000	OK
720 minute winter	5	375	217.472	0.083	2.2	0.1420	0.0000	OK
720 minute winter	6	360	217.263	0.045	2.9	0.0842	0.0000	OK
720 minute winter	7	405	217.145	0.055	3.3	0.0777	0.0000	OK
720 minute winter	13	345	218.681	0.017	0.4	0.0116	0.0000	OK
720 minute winter	14	345	218.534	0.021	0.6	0.0119	0.0000	OK
720 minute winter	20	15	218.475	0.000	0.0	0.0000	0.0000	OK
720 minute winter	21	285	218.400	0.009	0.1	0.0038	0.0000	OK
720 minute winter	15	360	218.326	0.024	0.8	0.0175	0.0000	OK
720 minute winter	16	420	218.148	0.112	1.0	0.1403	0.0000	OK
720 minute winter	17	420	218.147	0.327	1.2	1.1459	0.0000	SURCHARGED
720 minute winter	18	390	217.522	0.033	1.9	0.0583	0.0000	OK
720 minute winter	19	390	217.337	0.031	2.2	0.0290	0.0000	OK
720 minute winter	8	405	217.144	0.297	5.7	1.2138	0.0000	OK
720 minute winter	9	405	216.811	0.056	5.9	0.0548	0.0000	OK
720 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
720 minute winter	23	390	218.010	0.042	0.4	0.0389	0.0000	OK
720 minute winter	24	360	217.332	0.019	0.9	0.0182	0.0000	OK
720 minute winter	25	420	216.398	0.152	1.6	0.1510	0.0000	OK
720 minute winter	28	465	215.634	0.033	1.6	0.0376	0.0000	OK
720 minute winter	26	435	216.384	0.306	2.0	1.3446	0.0000	SURCHARGED
720 minute winter	27	375	216.503	0.009	0.1	0.0043	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	1	1.000	2	0.0	0.000	0.000	0.0143	
720 minute winter	2	1.001	3	0.4	0.153	0.021	0.0864	
720 minute winter	3	Orifice	4	0.8				
720 minute winter	4	1.003	5	1.9	0.239	0.055	0.3140	
720 minute winter	5	Orifice	6	2.2				
720 minute winter	6	1.005	7	2.9	0.569	0.084	0.1832	
720 minute winter	7	1.006	8	3.3	0.260	0.064	0.5950	
720 minute winter	13	2.000	14	0.4	0.311	0.028	0.0292	
720 minute winter	14	2.001	15	0.6	0.367	0.042	0.0519	
720 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
720 minute winter	21	3.001	15	0.1	0.135	0.007	0.0150	
720 minute winter	15	2.002	16	0.8	0.403	0.055	0.3176	
720 minute winter	16	2.003	17	0.9	0.117	0.063	0.5149	
720 minute winter	17	Orifice	18	1.1				
720 minute winter	18	2.005	19	1.9	0.549	0.045	0.0956	
720 minute winter	19	2.006	8	2.2	0.205	0.042	0.9946	
720 minute winter	8	Orifice	9	5.7				
720 minute winter	9	1.008	10	5.9	0.392	0.139	0.2137	
720 minute winter	22	4.000	23	0.0	0.000	0.000	0.0641	
720 minute winter	23	Orifice	24	0.4				
720 minute winter	24	4.002	25	0.9	0.677	0.035	0.2419	
720 minute winter	25	Orifice	26	1.6				
720 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	33.9
720 minute winter	26	Hydro-Brake®	28	1.6				
720 minute winter	27	5.001	26	0.1	0.037	0.007	0.5225	

Results for 2 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	10	405	216.799	0.133	6.0	0.2979	0.0000	OK
720 minute winter	11	405	216.684	0.073	6.0	0.0206	0.0000	OK
720 minute winter	OUTFALL1	405	216.647	0.067	6.0	0.0000	0.0000	OK
720 minute winter	12	15	216.563	0.000	0.0	0.0000	0.0000	OK
720 minute winter	OUTFALL2	465	215.603	0.031	1.6	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	10	Hydro-Brake®	11	6.0				
720 minute winter	11	1.010	OUTFALL1	6.0	0.745	0.410	0.0367	111.7
720 minute winter	12	5.000	27	0.0	0.000	0.000	0.0026	

Results for 2 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
960 minute summer	2	495	218.517	0.017	0.5	0.0168	0.0000	OK
960 minute summer	3	495	218.200	0.057	1.0	0.0610	0.0000	OK
960 minute summer	4	495	217.587	0.038	2.2	0.0585	0.0000	OK
960 minute summer	5	495	217.491	0.102	2.6	0.1929	0.0000	OK
960 minute summer	6	480	217.265	0.047	3.4	0.0904	0.0000	OK
960 minute summer	7	510	217.177	0.087	3.9	0.1550	0.0000	OK
960 minute summer	13	495	218.683	0.019	0.5	0.0129	0.0000	OK
960 minute summer	14	495	218.535	0.022	0.7	0.0131	0.0000	OK
960 minute summer	20	15	218.475	0.000	0.0	0.0000	0.0000	OK
960 minute summer	21	420	218.400	0.009	0.1	0.0038	0.0000	OK
960 minute summer	15	495	218.327	0.025	0.9	0.0190	0.0000	OK
960 minute summer	16	525	218.159	0.123	1.2	0.1650	0.0000	OK
960 minute summer	17	525	218.159	0.339	1.3	1.2034	0.0000	SURCHARGED
960 minute summer	18	495	217.523	0.034	2.0	0.0598	0.0000	OK
960 minute summer	19	495	217.337	0.032	2.3	0.0297	0.0000	OK
960 minute summer	8	510	217.177	0.330	6.2	1.4793	0.0000	SURCHARGED
960 minute summer	9	510	216.813	0.058	6.2	0.0571	0.0000	OK
960 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
960 minute summer	23	510	218.010	0.042	0.4	0.0389	0.0000	OK
960 minute summer	24	495	217.333	0.020	1.0	0.0192	0.0000	OK
960 minute summer	25	540	216.408	0.162	1.8	0.1655	0.0000	OK
960 minute summer	28	495	215.634	0.033	1.6	0.0376	0.0000	OK
960 minute summer	26	540	216.395	0.317	2.2	1.4407	0.0000	SURCHARGED
960 minute summer	27	510	216.503	0.009	0.1	0.0043	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	1	1.000	2	0.0	0.000	0.000	0.0168	
960 minute summer	2	1.001	3	0.5	0.155	0.026	0.1095	
960 minute summer	3	Orifice	4	1.0				
960 minute summer	4	1.003	5	2.2	0.239	0.064	0.3957	
960 minute summer	5	Orifice	6	2.6				
960 minute summer	6	1.005	7	3.4	0.586	0.098	0.2874	
960 minute summer	7	1.006	8	3.6	0.232	0.071	0.6811	
960 minute summer	13	2.000	14	0.5	0.341	0.035	0.0332	
960 minute summer	14	2.001	15	0.7	0.389	0.048	0.0570	
960 minute summer	20	3.000	21	0.0	0.000	0.000	0.0027	
960 minute summer	21	3.001	15	0.1	0.135	0.007	0.0160	
960 minute summer	15	2.002	16	0.9	0.404	0.062	0.3441	
960 minute summer	16	2.003	17	0.9	0.161	0.065	0.5376	
960 minute summer	17	Orifice	18	1.1				
960 minute summer	18	2.005	19	2.0	0.557	0.047	0.0984	
960 minute summer	19	2.006	8	2.3	0.159	0.044	0.9967	
960 minute summer	8	Orifice	9	6.0				
960 minute summer	9	1.008	10	6.2	0.390	0.147	0.2272	
960 minute summer	22	4.000	23	0.0	0.000	0.000	0.0641	
960 minute summer	23	Orifice	24	0.4				
960 minute summer	24	4.002	25	1.0	0.698	0.039	0.2808	
960 minute summer	25	Orifice	26	1.7				
960 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	32.2
960 minute summer	26	Hydro-Brake®	28	1.6				
960 minute summer	27	5.001	26	0.1	0.041	0.007	0.5225	

Results for 2 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	10	525	216.807	0.141	6.3	0.3185	0.0000	OK
960 minute summer	11	525	216.686	0.075	6.3	0.0213	0.0000	OK
960 minute summer	OUTFALL1	525	216.649	0.069	6.3	0.0000	0.0000	OK
960 minute summer	12	15	216.563	0.000	0.0	0.0000	0.0000	OK
960 minute summer	OUTFALL2	495	215.603	0.031	1.6	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	10	Hydro-Brake®	11	6.3				
960 minute summer	11	1.010	OUTFALL1	6.3	0.756	0.434	0.0383	102.7
960 minute summer	12	5.000	27	0.0	0.000	0.000	0.0026	

Results for 2 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
960 minute winter	2	480	218.515	0.015	0.4	0.0149	0.0000	OK
960 minute winter	3	495	218.191	0.048	0.8	0.0490	0.0000	OK
960 minute winter	4	495	217.583	0.034	1.7	0.0516	0.0000	OK
960 minute winter	5	510	217.464	0.075	2.0	0.1210	0.0000	OK
960 minute winter	6	510	217.261	0.043	2.6	0.0795	0.0000	OK
960 minute winter	7	510	217.126	0.036	2.9	0.0438	0.0000	OK
960 minute winter	13	420	218.679	0.015	0.3	0.0101	0.0000	OK
960 minute winter	14	435	218.530	0.017	0.4	0.0094	0.0000	OK
960 minute winter	20	15	218.475	0.000	0.0	0.0000	0.0000	OK
960 minute winter	21	390	218.400	0.009	0.1	0.0038	0.0000	OK
960 minute winter	15	435	218.323	0.021	0.6	0.0142	0.0000	OK
960 minute winter	16	540	218.088	0.052	0.8	0.0439	0.0000	OK
960 minute winter	17	540	218.088	0.267	1.1	0.8496	0.0000	SURCHARGED
960 minute winter	18	495	217.520	0.031	1.7	0.0546	0.0000	OK
960 minute winter	19	495	217.335	0.030	2.0	0.0274	0.0000	OK
960 minute winter	8	525	217.087	0.240	5.1	0.7737	0.0000	OK
960 minute winter	9	525	216.808	0.053	5.2	0.0505	0.0000	OK
960 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
960 minute winter	23	465	218.000	0.032	0.3	0.0292	0.0000	OK
960 minute winter	24	465	217.330	0.017	0.7	0.0161	0.0000	OK
960 minute winter	25	510	216.301	0.055	1.3	0.0484	0.0000	OK
960 minute winter	28	525	215.634	0.033	1.5	0.0371	0.0000	OK
960 minute winter	26	525	216.259	0.181	1.7	0.4898	0.0000	OK
960 minute winter	27	510	216.503	0.009	0.1	0.0043	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	1	1.000	2	0.0	0.000	0.000	0.0143	
960 minute winter	2	1.001	3	0.4	0.153	0.021	0.0864	
960 minute winter	3	Orifice	4	0.8				
960 minute winter	4	1.003	5	1.7	0.239	0.049	0.2758	
960 minute winter	5	Orifice	6	2.0				
960 minute winter	6	1.005	7	2.6	0.557	0.075	0.1349	
960 minute winter	7	1.006	8	2.9	0.232	0.057	0.5535	
960 minute winter	13	2.000	14	0.3	0.298	0.021	0.0228	
960 minute winter	14	2.001	15	0.4	0.329	0.028	0.0409	
960 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
960 minute winter	21	3.001	15	0.1	0.135	0.007	0.0128	
960 minute winter	15	2.002	16	0.6	0.367	0.042	0.1380	
960 minute winter	16	2.003	17	0.8	0.161	0.056	0.3742	
960 minute winter	17	Orifice	18	1.0				
960 minute winter	18	2.005	19	1.7	0.528	0.040	0.0886	
960 minute winter	19	2.006	8	2.0	0.286	0.039	0.9894	
960 minute winter	8	Orifice	9	5.0				
960 minute winter	9	1.008	10	5.2	0.390	0.123	0.1878	
960 minute winter	22	4.000	23	0.0	0.000	0.000	0.0443	
960 minute winter	23	Orifice	24	0.3				
960 minute winter	24	4.002	25	0.7	0.628	0.028	0.0541	
960 minute winter	25	Orifice	26	1.3				
960 minute winter	28	4.005	OUTFALL2	1.5	0.443	0.043	0.0220	36.2
960 minute winter	26	Hydro-Brake®	28	1.5				
960 minute winter	27	5.001	26	0.1	0.025	0.007	0.3979	

Results for 2 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	10	525	216.784	0.118	5.3	0.2596	0.0000	OK
960 minute winter	11	525	216.679	0.068	5.3	0.0192	0.0000	OK
960 minute winter	OUTFALL1	525	216.642	0.062	5.3	0.0000	0.0000	OK
960 minute winter	12	15	216.563	0.000	0.0	0.0000	0.0000	OK
960 minute winter	OUTFALL2	525	215.602	0.031	1.5	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	10	Hydro-Brake®	11	5.3				
960 minute winter	11	1.010	OUTFALL1	5.3	0.723	0.364	0.0336	121.4
960 minute winter	12	5.000	27	0.0	0.000	0.000	0.0026	

Results for 2 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	30	218.710	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	2	750	218.515	0.015	0.4	0.0149	0.0000	OK
1440 minute summer	3	750	218.191	0.048	0.8	0.0490	0.0000	OK
1440 minute summer	4	750	217.583	0.034	1.7	0.0516	0.0000	OK
1440 minute summer	5	750	217.464	0.075	2.0	0.1210	0.0000	OK
1440 minute summer	6	750	217.261	0.043	2.6	0.0793	0.0000	OK
1440 minute summer	7	750	217.127	0.037	3.0	0.0448	0.0000	OK
1440 minute summer	13	720	218.679	0.015	0.3	0.0101	0.0000	OK
1440 minute summer	14	720	218.530	0.017	0.4	0.0094	0.0000	OK
1440 minute summer	20	30	218.475	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	21	660	218.400	0.009	0.1	0.0038	0.0000	OK
1440 minute summer	15	720	218.323	0.021	0.6	0.0142	0.0000	OK
1440 minute summer	16	780	218.077	0.041	0.8	0.0317	0.0000	OK
1440 minute summer	17	780	218.077	0.257	1.1	0.7946	0.0000	SURCHARGED
1440 minute summer	18	750	217.520	0.031	1.7	0.0543	0.0000	OK
1440 minute summer	19	750	217.335	0.030	2.0	0.0272	0.0000	OK
1440 minute summer	8	750	217.092	0.245	5.2	0.8145	0.0000	OK
1440 minute summer	9	750	216.808	0.053	5.3	0.0510	0.0000	OK
1440 minute summer	22	30	218.616	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	23	750	218.000	0.032	0.3	0.0292	0.0000	OK
1440 minute summer	24	750	217.330	0.017	0.7	0.0161	0.0000	OK
1440 minute summer	25	750	216.300	0.054	1.3	0.0476	0.0000	OK
1440 minute summer	28	750	215.634	0.033	1.5	0.0370	0.0000	OK
1440 minute summer	26	750	216.253	0.175	1.7	0.4598	0.0000	OK
1440 minute summer	27	750	216.503	0.009	0.1	0.0043	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	1	1.000	2	0.0	0.000	0.000	0.0143	
1440 minute summer	2	1.001	3	0.4	0.151	0.021	0.0864	
1440 minute summer	3	Orifice	4	0.8				
1440 minute summer	4	1.003	5	1.7	0.237	0.049	0.2758	
1440 minute summer	5	Orifice	6	2.0				
1440 minute summer	6	1.005	7	2.6	0.552	0.075	0.1362	
1440 minute summer	7	1.006	8	3.0	0.229	0.059	0.5548	
1440 minute summer	13	2.000	14	0.3	0.298	0.021	0.0228	
1440 minute summer	14	2.001	15	0.4	0.328	0.028	0.0409	
1440 minute summer	20	3.000	21	0.0	0.000	0.000	0.0027	
1440 minute summer	21	3.001	15	0.1	0.135	0.007	0.0128	
1440 minute summer	15	2.002	16	0.6	0.367	0.042	0.1081	
1440 minute summer	16	2.003	17	0.8	0.213	0.055	0.3498	
1440 minute summer	17	Orifice	18	1.0				
1440 minute summer	18	2.005	19	1.7	0.526	0.040	0.0879	
1440 minute summer	19	2.006	8	2.0	0.147	0.038	0.9890	
1440 minute summer	8	Orifice	9	5.1				
1440 minute summer	9	1.008	10	5.3	0.388	0.125	0.1903	
1440 minute summer	22	4.000	23	0.0	0.000	0.000	0.0443	
1440 minute summer	23	Orifice	24	0.3				
1440 minute summer	24	4.002	25	0.7	0.628	0.028	0.0541	
1440 minute summer	25	Orifice	26	1.3				
1440 minute summer	28	4.005	OUTFALL2	1.5	0.442	0.042	0.0219	35.7
1440 minute summer	26	Hydro-Brake®	28	1.5				
1440 minute summer	27	5.001	26	0.1	0.035	0.007	0.3753	

Results for 2 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	10	750	216.786	0.120	5.4	0.2635	0.0000	OK
1440 minute summer	11	750	216.680	0.068	5.4	0.0194	0.0000	OK
1440 minute summer	OUTFALL1	750	216.643	0.063	5.4	0.0000	0.0000	OK
1440 minute summer	12	30	216.563	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	OUTFALL2	750	215.602	0.031	1.5	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	10	Hydro-Brake®	11	5.4				
1440 minute summer	11	1.010	OUTFALL1	5.4	0.726	0.369	0.0339	114.4
1440 minute summer	12	5.000	27	0.0	0.000	0.000	0.0026	

Results for 2 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	30	218.710	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	2	720	218.513	0.013	0.3	0.0129	0.0000	OK
1440 minute winter	3	720	218.182	0.039	0.6	0.0391	0.0000	OK
1440 minute winter	4	720	217.579	0.030	1.3	0.0454	0.0000	OK
1440 minute winter	5	720	217.449	0.060	1.5	0.0872	0.0000	OK
1440 minute winter	6	720	217.256	0.038	2.0	0.0674	0.0000	OK
1440 minute winter	7	720	217.122	0.032	2.3	0.0376	0.0000	OK
1440 minute winter	13	720	218.679	0.015	0.3	0.0100	0.0000	OK
1440 minute winter	14	720	218.530	0.017	0.4	0.0092	0.0000	OK
1440 minute winter	20	30	218.475	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	21	630	218.400	0.009	0.1	0.0038	0.0000	OK
1440 minute winter	15	720	218.321	0.019	0.5	0.0122	0.0000	OK
1440 minute winter	16	720	218.058	0.022	0.7	0.0137	0.0000	OK
1440 minute winter	17	720	217.984	0.164	0.9	0.3444	0.0000	OK
1440 minute winter	18	720	217.516	0.027	1.3	0.0467	0.0000	OK
1440 minute winter	19	810	217.331	0.026	1.5	0.0228	0.0000	OK
1440 minute winter	8	720	217.003	0.156	4.0	0.3432	0.0000	OK
1440 minute winter	9	720	216.801	0.046	3.9	0.0418	0.0000	OK
1440 minute winter	22	30	218.616	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	23	630	217.993	0.025	0.2	0.0218	0.0000	OK
1440 minute winter	24	690	217.328	0.015	0.5	0.0136	0.0000	OK
1440 minute winter	25	690	216.288	0.042	0.9	0.0368	0.0000	OK
1440 minute winter	28	690	215.629	0.028	1.1	0.0316	0.0000	OK
1440 minute winter	26	690	216.149	0.071	1.1	0.1196	0.0000	OK
1440 minute winter	27	30	216.494	0.000	0.0	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)
1440 minute winter	1	1.000	2	0.0	0.000	0.000	0.0117	
1440 minute winter	2	1.001	3	0.3	0.147	0.016	0.0668	
1440 minute winter	3	Orifice	4	0.6				
1440 minute winter	4	1.003	5	1.3	0.233	0.038	0.2089	
1440 minute winter	5	Orifice	6	1.5				
1440 minute winter	6	1.005	7	2.0	0.511	0.058	0.1129	
1440 minute winter	7	1.006	8	2.3	0.254	0.045	0.4150	
1440 minute winter	13	2.000	14	0.3	0.298	0.020	0.0225	
1440 minute winter	14	2.001	15	0.4	0.331	0.027	0.0373	
1440 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
1440 minute winter	21	3.001	15	0.1	0.135	0.007	0.0113	
1440 minute winter	15	2.002	16	0.5	0.337	0.033	0.0571	
1440 minute winter	16	2.003	17	0.7	0.213	0.047	0.3118	
1440 minute winter	17	Orifice	18	0.8				
1440 minute winter	18	2.005	19	1.3	0.487	0.030	0.0722	
1440 minute winter	19	2.006	8	1.5	0.147	0.028	0.7368	
1440 minute winter	8	Orifice	9	3.8				
1440 minute winter	9	1.008	10	3.9	0.391	0.093	0.1386	
1440 minute winter	22	4.000	23	0.0	0.000	0.000	0.0300	
1440 minute winter	23	Orifice	24	0.2				
1440 minute winter	24	4.002	25	0.5	0.568	0.020	0.0428	
1440 minute winter	25	Orifice	26	0.9				
1440 minute winter	28	4.005	OUTFALL2	1.1	0.409	0.031	0.0172	40.1
1440 minute winter	26	Hydro-Brake®	28	1.1				
1440 minute winter	27	5.001	26	0.0	0.000	0.000	0.0000	

Results for 2 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	10	720	216.757	0.091	4.0	0.1849	0.0000	OK
1440 minute winter	11	720	216.669	0.058	4.0	0.0164	0.0000	OK
1440 minute winter	OUTFALL1	720	216.634	0.054	4.0	0.0000	0.0000	OK
1440 minute winter	12	30	216.563	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	OUTFALL2	690	215.597	0.026	1.1	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	10	Hydro-Brake®	11	4.0				
1440 minute winter	11	1.010	OUTFALL1	4.0	0.674	0.277	0.0274	129.2
1440 minute winter	12	5.000	27	0.0	0.000	0.000	0.0000	

Results for 2 year 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	2	1140	218.513	0.013	0.3	0.0129	0.0000	OK
2160 minute summer	3	1140	218.182	0.039	0.6	0.0390	0.0000	OK
2160 minute summer	4	1140	217.579	0.030	1.3	0.0453	0.0000	OK
2160 minute summer	5	1140	217.449	0.060	1.5	0.0863	0.0000	OK
2160 minute summer	6	1140	217.255	0.037	2.0	0.0671	0.0000	OK
2160 minute summer	7	1140	217.122	0.032	2.3	0.0374	0.0000	OK
2160 minute summer	13	1020	218.676	0.012	0.2	0.0084	0.0000	OK
2160 minute summer	14	1260	218.528	0.015	0.3	0.0079	0.0000	OK
2160 minute summer	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	21	1080	218.400	0.009	0.1	0.0038	0.0000	OK
2160 minute summer	15	1080	218.319	0.017	0.4	0.0108	0.0000	OK
2160 minute summer	16	1140	218.057	0.021	0.6	0.0128	0.0000	OK
2160 minute summer	17	1140	217.975	0.155	0.8	0.3074	0.0000	OK
2160 minute summer	18	1140	217.516	0.027	1.2	0.0462	0.0000	OK
2160 minute summer	19	1140	217.331	0.026	1.4	0.0226	0.0000	OK
2160 minute summer	8	1140	216.998	0.151	3.9	0.3248	0.0000	OK
2160 minute summer	9	1140	216.801	0.046	3.9	0.0412	0.0000	OK
2160 minute summer	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	23	1080	217.993	0.025	0.2	0.0218	0.0000	OK
2160 minute summer	24	1140	217.328	0.015	0.5	0.0136	0.0000	OK
2160 minute summer	25	1140	216.288	0.042	0.9	0.0368	0.0000	OK
2160 minute summer	28	1140	215.629	0.028	1.1	0.0316	0.0000	OK
2160 minute summer	26	1140	216.149	0.071	1.1	0.1189	0.0000	OK
2160 minute summer	27	60	216.494	0.000	0.0	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)
2160 minute summer	1	1.000	2	0.0	0.000	0.000	0.0117	
2160 minute summer	2	1.001	3	0.3	0.146	0.016	0.0665	
2160 minute summer	3	Orifice	4	0.6				
2160 minute summer	4	1.003	5	1.3	0.233	0.038	0.2071	
2160 minute summer	5	Orifice	6	1.5				
2160 minute summer	6	1.005	7	2.0	0.510	0.057	0.1123	
2160 minute summer	7	1.006	8	2.3	0.213	0.045	0.4015	
2160 minute summer	13	2.000	14	0.2	0.252	0.014	0.0180	
2160 minute summer	14	2.001	15	0.3	0.329	0.021	0.0320	
2160 minute summer	20	3.000	21	0.0	0.000	0.000	0.0027	
2160 minute summer	21	3.001	15	0.1	0.135	0.007	0.0103	
2160 minute summer	15	2.002	16	0.4	0.331	0.028	0.0516	
2160 minute summer	16	2.003	17	0.6	0.144	0.042	0.3098	
2160 minute summer	17	Orifice	18	0.7				
2160 minute summer	18	2.005	19	1.2	0.484	0.029	0.0712	
2160 minute summer	19	2.006	8	1.4	0.138	0.028	0.7119	
2160 minute summer	8	Orifice	9	3.8				
2160 minute summer	9	1.008	10	3.9	0.389	0.091	0.1351	
2160 minute summer	22	4.000	23	0.0	0.000	0.000	0.0300	
2160 minute summer	23	Orifice	24	0.2				
2160 minute summer	24	4.002	25	0.5	0.568	0.020	0.0427	
2160 minute summer	25	Orifice	26	0.9				
2160 minute summer	28	4.005	OUTFALL2	1.1	0.408	0.031	0.0172	34.4
2160 minute summer	26	Hydro-Brake®	28	1.1				
2160 minute summer	27	5.001	26	0.0	0.000	0.000	0.0000	

Results for 2 year 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	10	1140	216.755	0.089	4.0	0.1797	0.0000	OK
2160 minute summer	11	1140	216.668	0.057	3.9	0.0162	0.0000	OK
2160 minute summer	OUTFALL1	1140	216.633	0.053	3.9	0.0000	0.0000	OK
2160 minute summer	12	60	216.563	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	OUTFALL2	1140	215.597	0.026	1.1	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)
2160 minute summer	10	Hydro-Brake®	11	3.9				
2160 minute summer	11	1.010	OUTFALL1	3.9	0.670	0.270	0.0269	123.3
2160 minute summer	12	5.000	27	0.0	0.000	0.000	0.0000	

Results for 2 year 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 99.13%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	2	960	218.511	0.011	0.2	0.0104	0.0000	OK
2160 minute winter	3	1020	218.173	0.030	0.4	0.0287	0.0000	OK
2160 minute winter	4	1080	217.574	0.025	0.9	0.0382	0.0000	OK
2160 minute winter	5	1200	217.438	0.049	1.1	0.0648	0.0000	OK
2160 minute winter	6	1200	217.250	0.032	1.4	0.0544	0.0000	OK
2160 minute winter	7	1200	217.117	0.027	1.6	0.0299	0.0000	OK
2160 minute winter	13	1020	218.676	0.012	0.2	0.0084	0.0000	OK
2160 minute winter	14	1020	218.528	0.015	0.3	0.0079	0.0000	OK
2160 minute winter	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	21	1140	218.400	0.009	0.1	0.0037	0.0000	OK
2160 minute winter	15	1140	218.319	0.017	0.4	0.0106	0.0000	OK
2160 minute winter	16	1200	218.055	0.019	0.5	0.0113	0.0000	OK
2160 minute winter	17	1200	217.915	0.095	0.7	0.1339	0.0000	OK
2160 minute winter	18	1200	217.513	0.024	1.0	0.0404	0.0000	OK
2160 minute winter	19	1200	217.327	0.022	1.1	0.0188	0.0000	OK
2160 minute winter	8	1200	216.943	0.096	2.8	0.1575	0.0000	OK
2160 minute winter	9	1200	216.794	0.039	2.8	0.0335	0.0000	OK
2160 minute winter	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	23	1260	217.993	0.025	0.2	0.0218	0.0000	OK
2160 minute winter	24	1260	217.326	0.013	0.4	0.0122	0.0000	OK
2160 minute winter	25	1080	216.281	0.035	0.7	0.0311	0.0000	OK
2160 minute winter	28	1140	215.626	0.025	0.9	0.0286	0.0000	OK
2160 minute winter	26	1140	216.136	0.058	0.9	0.0942	0.0000	OK
2160 minute winter	27	60	216.494	0.000	0.0	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)
2160 minute winter	1	1.000	2	0.0	0.000	0.000	0.0089	
2160 minute winter	2	1.001	3	0.2	0.141	0.010	0.0464	
2160 minute winter	3	Orifice	4	0.4				
2160 minute winter	4	1.003	5	0.9	0.223	0.026	0.1574	
2160 minute winter	5	Orifice	6	1.1				
2160 minute winter	6	1.005	7	1.4	0.461	0.041	0.0879	
2160 minute winter	7	1.006	8	1.6	0.217	0.031	0.2384	
2160 minute winter	13	2.000	14	0.2	0.252	0.014	0.0181	
2160 minute winter	14	2.001	15	0.3	0.329	0.021	0.0317	
2160 minute winter	20	3.000	21	0.0	0.000	0.000	0.0026	
2160 minute winter	21	3.001	15	0.1	0.132	0.007	0.0101	
2160 minute winter	15	2.002	16	0.4	0.330	0.027	0.0472	
2160 minute winter	16	2.003	17	0.5	0.144	0.034	0.2122	
2160 minute winter	17	Orifice	18	0.6				
2160 minute winter	18	2.005	19	1.0	0.454	0.023	0.0585	
2160 minute winter	19	2.006	8	1.1	0.143	0.020	0.4198	
2160 minute winter	8	Orifice	9	2.7				
2160 minute winter	9	1.008	10	2.8	0.370	0.066	0.1035	
2160 minute winter	22	4.000	23	0.0	0.000	0.000	0.0300	
2160 minute winter	23	Orifice	24	0.2				
2160 minute winter	24	4.002	25	0.4	0.532	0.016	0.0365	
2160 minute winter	25	Orifice	26	0.7				
2160 minute winter	28	4.005	OUTFALL2	0.9	0.387	0.025	0.0148	43.6
2160 minute winter	26	Hydro-Brake®	28	0.9				
2160 minute winter	27	5.001	26	0.0	0.000	0.000	0.0000	

Results for 2 year 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 99.13%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	10	1200	216.738	0.072	2.9	0.1373	0.0000	OK
2160 minute winter	11	1200	216.660	0.049	2.9	0.0137	0.0000	OK
2160 minute winter	OUTFALL1	1200	216.625	0.045	2.9	0.0000	0.0000	OK
2160 minute winter	12	60	216.563	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	OUTFALL2	1140	215.595	0.023	0.9	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)
2160 minute winter	10	Hydro-Brake®	11	2.9				
2160 minute winter	11	1.010	OUTFALL1	2.9	0.619	0.200	0.0215	140.7
2160 minute winter	12	5.000	27	0.0	0.000	0.000	0.0000	

Results for 2 year 2880 minute summer. 3120 minute analysis at 60 minute timestep. Mass balance: 99.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute summer	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	2	1380	218.511	0.011	0.2	0.0104	0.0000	OK
2880 minute summer	3	1440	218.173	0.030	0.4	0.0287	0.0000	OK
2880 minute summer	4	1500	217.575	0.026	1.0	0.0401	0.0000	OK
2880 minute summer	5	1500	217.441	0.052	1.2	0.0700	0.0000	OK
2880 minute summer	6	1500	217.252	0.034	1.6	0.0588	0.0000	OK
2880 minute summer	7	1500	217.119	0.029	1.8	0.0320	0.0000	OK
2880 minute summer	13	1440	218.676	0.012	0.2	0.0084	0.0000	OK
2880 minute summer	14	1560	218.528	0.015	0.3	0.0079	0.0000	OK
2880 minute summer	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	21	1500	218.400	0.009	0.1	0.0037	0.0000	OK
2880 minute summer	15	1500	218.319	0.017	0.4	0.0107	0.0000	OK
2880 minute summer	16	1500	218.055	0.019	0.5	0.0114	0.0000	OK
2880 minute summer	17	1500	217.932	0.112	0.7	0.1742	0.0000	OK
2880 minute summer	18	1500	217.513	0.024	1.0	0.0414	0.0000	OK
2880 minute summer	19	1500	217.329	0.024	1.2	0.0204	0.0000	OK
2880 minute summer	8	1500	216.961	0.114	3.2	0.2054	0.0000	OK
2880 minute summer	9	1500	216.797	0.042	3.2	0.0364	0.0000	OK
2880 minute summer	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	23	1440	217.993	0.025	0.2	0.0218	0.0000	OK
2880 minute summer	24	1500	217.328	0.015	0.5	0.0136	0.0000	OK
2880 minute summer	25	1500	216.288	0.041	0.9	0.0368	0.0000	OK
2880 minute summer	28	1500	215.629	0.028	1.1	0.0315	0.0000	OK
2880 minute summer	26	1500	216.149	0.070	1.1	0.1181	0.0000	OK
2880 minute summer	27	60	216.494	0.000	0.0	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)
2880 minute summer	1	1.000	2	0.0	0.000	0.000	0.0089	
2880 minute summer	2	1.001	3	0.2	0.141	0.010	0.0464	
2880 minute summer	3	Orifice	4	0.4				
2880 minute summer	4	1.003	5	1.0	0.227	0.029	0.1699	
2880 minute summer	5	Orifice	6	1.2				
2880 minute summer	6	1.005	7	1.6	0.480	0.046	0.0957	
2880 minute summer	7	1.006	8	1.8	0.217	0.035	0.2916	
2880 minute summer	13	2.000	14	0.2	0.252	0.014	0.0180	
2880 minute summer	14	2.001	15	0.3	0.328	0.021	0.0319	
2880 minute summer	20	3.000	21	0.0	0.000	0.000	0.0027	
2880 minute summer	21	3.001	15	0.1	0.134	0.007	0.0103	
2880 minute summer	15	2.002	16	0.4	0.331	0.027	0.0478	
2880 minute summer	16	2.003	17	0.5	0.144	0.034	0.2503	
2880 minute summer	17	Orifice	18	0.6				
2880 minute summer	18	2.005	19	1.0	0.452	0.024	0.0623	
2880 minute summer	19	2.006	8	1.2	0.141	0.023	0.5167	
2880 minute summer	8	Orifice	9	3.1				
2880 minute summer	9	1.008	10	3.2	0.382	0.075	0.1138	
2880 minute summer	22	4.000	23	0.0	0.000	0.000	0.0300	
2880 minute summer	23	Orifice	24	0.2				
2880 minute summer	24	4.002	25	0.5	0.567	0.020	0.0427	
2880 minute summer	25	Orifice	26	0.9				
2880 minute summer	28	4.005	OUTFALL2	1.1	0.408	0.030	0.0171	35.8
2880 minute summer	26	Hydro-Brake®	28	1.1				
2880 minute summer	27	5.001	26	0.0	0.000	0.000	0.0000	

Results for 2 year 2880 minute summer. 3120 minute analysis at 60 minute timestep. Mass balance: 99.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute summer	10	1500	216.743	0.077	3.3	0.1502	0.0000	OK
2880 minute summer	11	1500	216.663	0.052	3.3	0.0147	0.0000	OK
2880 minute summer	OUTFALL1	1500	216.628	0.048	3.3	0.0000	0.0000	OK
2880 minute summer	12	60	216.563	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	OUTFALL2	1500	215.597	0.026	1.1	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)
2880 minute summer	10	Hydro-Brake®	11	3.3				
2880 minute summer	11	1.010	OUTFALL1	3.3	0.639	0.225	0.0235	127.1
2880 minute summer	12	5.000	27	0.0	0.000	0.000	0.0000	

Results for 2 year 2880 minute winter. 3120 minute analysis at 60 minute timestep. Mass balance: 98.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute winter	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	2	1380	218.511	0.011	0.2	0.0104	0.0000	OK
2880 minute winter	3	1620	218.173	0.030	0.4	0.0287	0.0000	OK
2880 minute winter	4	1620	217.573	0.024	0.8	0.0360	0.0000	OK
2880 minute winter	5	1620	217.432	0.043	0.9	0.0536	0.0000	OK
2880 minute winter	6	1380	217.247	0.029	1.2	0.0496	0.0000	OK
2880 minute winter	7	1620	217.116	0.026	1.4	0.0275	0.0000	OK
2880 minute winter	13	1620	218.676	0.012	0.2	0.0083	0.0000	OK
2880 minute winter	14	1620	218.528	0.015	0.3	0.0078	0.0000	OK
2880 minute winter	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	21	60	218.391	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	15	1620	218.317	0.014	0.3	0.0084	0.0000	OK
2880 minute winter	16	1620	218.053	0.017	0.4	0.0096	0.0000	OK
2880 minute winter	17	1620	217.880	0.060	0.5	0.0663	0.0000	OK
2880 minute winter	18	1620	217.510	0.021	0.7	0.0345	0.0000	OK
2880 minute winter	19	1620	217.325	0.020	0.8	0.0162	0.0000	OK
2880 minute winter	8	1620	216.925	0.078	2.3	0.1142	0.0000	OK
2880 minute winter	9	1620	216.791	0.036	2.4	0.0299	0.0000	OK
2880 minute winter	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	23	1020	217.984	0.016	0.1	0.0134	0.0000	OK
2880 minute winter	24	1320	217.325	0.012	0.3	0.0106	0.0000	OK
2880 minute winter	25	1620	216.278	0.032	0.6	0.0280	0.0000	OK
2880 minute winter	28	1620	215.623	0.022	0.7	0.0252	0.0000	OK
2880 minute winter	26	1620	216.125	0.047	0.7	0.0745	0.0000	OK
2880 minute winter	27	60	216.494	0.000	0.0	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)
2880 minute winter	1	1.000	2	0.0	0.000	0.000	0.0089	
2880 minute winter	2	1.001	3	0.2	0.143	0.010	0.0464	
2880 minute winter	3	Orifice	4	0.4				
2880 minute winter	4	1.003	5	0.8	0.222	0.023	0.1341	
2880 minute winter	5	Orifice	6	0.9				
2880 minute winter	6	1.005	7	1.2	0.438	0.035	0.0792	
2880 minute winter	7	1.006	8	1.4	0.226	0.027	0.1850	
2880 minute winter	13	2.000	14	0.2	0.250	0.014	0.0177	
2880 minute winter	14	2.001	15	0.3	0.328	0.020	0.0278	
2880 minute winter	20	3.000	21	0.0	0.000	0.000	0.0000	
2880 minute winter	21	3.001	15	0.0	0.000	0.000	0.0058	
2880 minute winter	15	2.002	16	0.3	0.291	0.019	0.0382	
2880 minute winter	16	2.003	17	0.4	0.144	0.026	0.1237	
2880 minute winter	17	Orifice	18	0.4				
2880 minute winter	18	2.005	19	0.7	0.414	0.017	0.0481	
2880 minute winter	19	2.006	8	0.8	0.150	0.016	0.3199	
2880 minute winter	8	Orifice	9	2.3				
2880 minute winter	9	1.008	10	2.4	0.363	0.056	0.0885	
2880 minute winter	22	4.000	23	0.0	0.000	0.000	0.0153	
2880 minute winter	23	Orifice	24	0.1				
2880 minute winter	24	4.002	25	0.3	0.485	0.012	0.0300	
2880 minute winter	25	Orifice	26	0.6				
2880 minute winter	28	4.005	OUTFALL2	0.7	0.357	0.019	0.0123	42.7
2880 minute winter	26	Hydro-Brake®	28	0.7				
2880 minute winter	27	5.001	26	0.0	0.000	0.000	0.0000	

Results for 2 year 2880 minute winter. 3120 minute analysis at 60 minute timestep. Mass balance: 98.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute winter	10	1620	216.730	0.064	2.4	0.1176	0.0000	OK
2880 minute winter	11	1620	216.654	0.043	2.4	0.0122	0.0000	OK
2880 minute winter	OUTFALL1	1620	216.621	0.041	2.4	0.0000	0.0000	OK
2880 minute winter	12	60	216.563	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	OUTFALL2	1620	215.592	0.021	0.7	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)
2880 minute winter	10	Hydro-Brake®	11	2.4				
2880 minute winter	11	1.010	OUTFALL1	2.4	0.585	0.161	0.0184	153.9
2880 minute winter	12	5.000	27	0.0	0.000	0.000	0.0000	

Results for 2 year 4320 minute summer. 4560 minute analysis at 60 minute timestep. Mass balance: 99.35%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute summer	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	2	2160	218.511	0.011	0.2	0.0104	0.0000	OK
4320 minute summer	3	2280	218.173	0.030	0.4	0.0287	0.0000	OK
4320 minute summer	4	2280	217.573	0.024	0.8	0.0361	0.0000	OK
4320 minute summer	5	2280	217.432	0.043	0.9	0.0536	0.0000	OK
4320 minute summer	6	2280	217.247	0.029	1.2	0.0496	0.0000	OK
4320 minute summer	7	2280	217.116	0.026	1.4	0.0275	0.0000	OK
4320 minute summer	13	2220	218.676	0.012	0.2	0.0083	0.0000	OK
4320 minute summer	14	2220	218.528	0.015	0.3	0.0078	0.0000	OK
4320 minute summer	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	21	60	218.391	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	15	2220	218.316	0.014	0.3	0.0084	0.0000	OK
4320 minute summer	16	2280	218.053	0.017	0.4	0.0097	0.0000	OK
4320 minute summer	17	2280	217.881	0.061	0.5	0.0686	0.0000	OK
4320 minute summer	18	2280	217.510	0.021	0.7	0.0347	0.0000	OK
4320 minute summer	19	2280	217.325	0.020	0.8	0.0163	0.0000	OK
4320 minute summer	8	2280	216.926	0.079	2.3	0.1174	0.0000	OK
4320 minute summer	9	2280	216.791	0.036	2.4	0.0302	0.0000	OK
4320 minute summer	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	23	2220	217.991	0.023	0.2	0.0202	0.0000	OK
4320 minute summer	24	2220	217.326	0.013	0.4	0.0118	0.0000	OK
4320 minute summer	25	2220	216.280	0.034	0.7	0.0301	0.0000	OK
4320 minute summer	28	2220	215.624	0.023	0.7	0.0262	0.0000	OK
4320 minute summer	26	2220	216.128	0.050	0.8	0.0795	0.0000	OK
4320 minute summer	27	60	216.494	0.000	0.0	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)
4320 minute summer	1	1.000	2	0.0	0.000	0.000	0.0089	
4320 minute summer	2	1.001	3	0.2	0.141	0.010	0.0464	
4320 minute summer	3	Orifice	4	0.4				
4320 minute summer	4	1.003	5	0.8	0.223	0.023	0.1341	
4320 minute summer	5	Orifice	6	0.9				
4320 minute summer	6	1.005	7	1.2	0.436	0.035	0.0793	
4320 minute summer	7	1.006	8	1.4	0.228	0.027	0.1889	
4320 minute summer	13	2.000	14	0.2	0.250	0.013	0.0177	
4320 minute summer	14	2.001	15	0.3	0.328	0.020	0.0277	
4320 minute summer	20	3.000	21	0.0	0.000	0.000	0.0000	
4320 minute summer	21	3.001	15	0.0	0.000	0.000	0.0058	
4320 minute summer	15	2.002	16	0.3	0.290	0.019	0.0380	
4320 minute summer	16	2.003	17	0.4	0.144	0.026	0.1272	
4320 minute summer	17	Orifice	18	0.4				
4320 minute summer	18	2.005	19	0.7	0.415	0.017	0.0483	
4320 minute summer	19	2.006	8	0.8	0.149	0.016	0.3272	
4320 minute summer	8	Orifice	9	2.3				
4320 minute summer	9	1.008	10	2.4	0.363	0.057	0.0915	
4320 minute summer	22	4.000	23	0.0	0.000	0.000	0.0271	
4320 minute summer	23	Orifice	24	0.2				
4320 minute summer	24	4.002	25	0.4	0.520	0.015	0.0347	
4320 minute summer	25	Orifice	26	0.7				
4320 minute summer	28	4.005	OUTFALL2	0.7	0.366	0.021	0.0130	37.3
4320 minute summer	26	Hydro-Brake®	28	0.7				
4320 minute summer	27	5.001	26	0.0	0.000	0.000	0.0000	

Results for 2 year 4320 minute summer. 4560 minute analysis at 60 minute timestep. Mass balance: 99.35%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute summer	10	2220	216.732	0.066	2.5	0.1223	0.0000	OK
4320 minute summer	11	2220	216.656	0.045	2.5	0.0126	0.0000	OK
4320 minute summer	OUTFALL1	2220	216.622	0.042	2.5	0.0000	0.0000	OK
4320 minute summer	12	60	216.563	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	OUTFALL2	2220	215.593	0.022	0.7	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)
4320 minute summer	10	Hydro-Brake®	11	2.5				
4320 minute summer	11	1.010	OUTFALL1	2.5	0.594	0.170	0.0192	128.5
4320 minute summer	12	5.000	27	0.0	0.000	0.000	0.0000	

Results for 2 year 4320 minute winter. 4560 minute analysis at 60 minute timestep. Mass balance: 98.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute winter	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	2	1440	218.508	0.008	0.1	0.0073	0.0000	OK
4320 minute winter	3	1440	218.162	0.019	0.2	0.0172	0.0000	OK
4320 minute winter	4	2340	217.568	0.019	0.5	0.0289	0.0000	OK
4320 minute winter	5	2520	217.422	0.033	0.6	0.0369	0.0000	OK
4320 minute winter	6	2520	217.242	0.024	0.8	0.0395	0.0000	OK
4320 minute winter	7	2520	217.111	0.021	0.9	0.0210	0.0000	OK
4320 minute winter	13	2640	218.673	0.009	0.1	0.0061	0.0000	OK
4320 minute winter	14	2220	218.525	0.012	0.2	0.0062	0.0000	OK
4320 minute winter	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	21	60	218.391	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	15	2460	218.314	0.012	0.2	0.0062	0.0000	OK
4320 minute winter	16	2520	218.050	0.014	0.3	0.0079	0.0000	OK
4320 minute winter	17	2580	217.863	0.042	0.4	0.0406	0.0000	OK
4320 minute winter	18	2580	217.507	0.018	0.5	0.0293	0.0000	OK
4320 minute winter	19	2580	217.323	0.017	0.6	0.0140	0.0000	OK
4320 minute winter	8	2520	216.907	0.060	1.6	0.0780	0.0000	OK
4320 minute winter	9	2520	216.786	0.031	1.7	0.0243	0.0000	OK
4320 minute winter	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	23	1740	217.984	0.016	0.1	0.0134	0.0000	OK
4320 minute winter	24	1740	217.323	0.010	0.2	0.0088	0.0000	OK
4320 minute winter	25	1860	216.270	0.024	0.4	0.0214	0.0000	OK
4320 minute winter	28	2100	215.620	0.019	0.5	0.0217	0.0000	OK
4320 minute winter	26	2100	216.116	0.038	0.5	0.0589	0.0000	OK
4320 minute winter	27	60	216.494	0.000	0.0	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)
4320 minute winter	1	1.000	2	0.0	0.000	0.000	0.0055	
4320 minute winter	2	1.001	3	0.1	0.132	0.005	0.0246	
4320 minute winter	3	Orifice	4	0.2				
4320 minute winter	4	1.003	5	0.5	0.210	0.015	0.0924	
4320 minute winter	5	Orifice	6	0.6				
4320 minute winter	6	1.005	7	0.8	0.390	0.023	0.0591	
4320 minute winter	7	1.006	8	0.9	0.228	0.018	0.1306	
4320 minute winter	13	2.000	14	0.1	0.235	0.007	0.0125	
4320 minute winter	14	2.001	15	0.2	0.294	0.013	0.0206	
4320 minute winter	20	3.000	21	0.0	0.000	0.000	0.0000	
4320 minute winter	21	3.001	15	0.0	0.000	0.000	0.0042	
4320 minute winter	15	2.002	16	0.2	0.242	0.012	0.0291	
4320 minute winter	16	2.003	17	0.3	0.144	0.018	0.0780	
4320 minute winter	17	Orifice	18	0.3				
4320 minute winter	18	2.005	19	0.5	0.371	0.013	0.0395	
4320 minute winter	19	2.006	8	0.6	0.140	0.012	0.2287	
4320 minute winter	8	Orifice	9	1.6				
4320 minute winter	9	1.008	10	1.7	0.334	0.040	0.0688	
4320 minute winter	22	4.000	23	0.0	0.000	0.000	0.0153	
4320 minute winter	23	Orifice	24	0.1				
4320 minute winter	24	4.002	25	0.2	0.429	0.008	0.0227	
4320 minute winter	25	Orifice	26	0.4				
4320 minute winter	28	4.005	OUTFALL2	0.5	0.331	0.014	0.0097	45.6
4320 minute winter	26	Hydro-Brake®	28	0.5				
4320 minute winter	27	5.001	26	0.0	0.000	0.000	0.0000	

Results for 2 year 4320 minute winter. 4560 minute analysis at 60 minute timestep. Mass balance: 98.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute winter	10	2520	216.719	0.053	1.7	0.0936	0.0000	OK
4320 minute winter	11	2520	216.647	0.036	1.7	0.0103	0.0000	OK
4320 minute winter	OUTFALL1	2520	216.614	0.034	1.7	0.0000	0.0000	OK
4320 minute winter	12	60	216.563	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	OUTFALL2	2100	215.588	0.017	0.5	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)
4320 minute winter	10	Hydro-Brake®	11	1.7				
4320 minute winter	11	1.010	OUTFALL1	1.7	0.534	0.116	0.0145	155.3
4320 minute winter	12	5.000	27	0.0	0.000	0.000	0.0000	

Results for 30 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	14	218.796	0.086	2.6	0.0242	0.0000	OK
15 minute summer	2	15	218.787	0.287	9.0	0.8957	0.0000	SURCHARGED
15 minute summer	3	15	218.780	0.637	14.4	2.2295	0.0000	SURCHARGED
15 minute summer	4	18	218.177	0.628	24.8	4.3138	0.0000	SURCHARGED
15 minute summer	5	18	218.171	0.782	18.3	4.0867	0.0000	SURCHARGED
15 minute summer	6	20	217.735	0.517	20.9	2.8151	0.0000	SURCHARGED
15 minute summer	7	20	217.730	0.639	26.2	2.7209	0.0000	SURCHARGED
15 minute summer	13	10	218.742	0.078	7.8	0.0526	0.0000	OK
15 minute summer	14	10	218.610	0.097	11.0	0.1075	0.0000	OK
15 minute summer	20	18	218.590	0.115	2.0	0.0343	0.0000	OK
15 minute summer	21	18	218.586	0.195	2.7	0.2666	0.0000	SURCHARGED
15 minute summer	15	19	218.586	0.284	14.8	1.0969	0.0000	SURCHARGED
15 minute summer	16	18	218.584	0.548	15.3	2.2633	0.0000	SURCHARGED
15 minute summer	17	17	218.582	0.762	11.7	3.5891	0.0000	SURCHARGED
15 minute summer	18	21	217.726	0.237	16.6	0.7998	0.0000	SURCHARGED
15 minute summer	19	20	217.726	0.421	22.3	1.3632	0.0000	SURCHARGED
15 minute summer	8	20	217.725	0.877	33.0	7.3770	0.0000	SURCHARGED
15 minute summer	9	35	217.176	0.421	12.0	0.7398	0.0000	SURCHARGED
15 minute summer	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
15 minute summer	23	15	218.501	0.533	7.2	1.3095	0.0000	SURCHARGED
15 minute summer	24	10	217.382	0.069	11.1	0.0723	0.0000	OK
15 minute summer	25	14	217.228	0.982	24.1	3.9151	0.0000	SURCHARGED
15 minute summer	28	171	215.634	0.033	1.6	0.0376	0.0000	OK
15 minute summer	26	34	216.880	0.802	15.0	7.1175	0.0000	SURCHARGED
15 minute summer	27	34	216.880	0.386	4.6	0.7252	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	-2.6	-0.184	-0.180	0.4406	
15 minute summer	2	1.001	3	6.4	0.444	0.332	0.5317	
15 minute summer	3	Orifice	4	4.4				
15 minute summer	4	1.003	5	11.8	0.464	0.341	1.4353	
15 minute summer	5	Orifice	6	6.8				
15 minute summer	6	1.005	7	18.5	0.831	0.537	1.1469	
15 minute summer	7	1.006	8	15.8	0.515	0.310	1.0030	
15 minute summer	13	2.000	14	7.7	0.723	0.534	0.2411	
15 minute summer	14	2.001	15	10.9	0.819	0.751	0.4680	
15 minute summer	20	3.000	21	-1.7	0.217	-0.117	0.2013	
15 minute summer	21	3.001	15	2.6	0.315	0.182	0.2363	
15 minute summer	15	2.002	16	10.5	0.710	0.727	0.7028	
15 minute summer	16	2.003	17	6.8	0.448	0.469	0.5717	
15 minute summer	17	Orifice	18	1.7				
15 minute summer	18	2.005	19	16.4	0.943	0.388	1.0970	
15 minute summer	19	2.006	8	18.4	0.572	0.356	1.8341	
15 minute summer	8	Orifice	9	8.3				
15 minute summer	9	1.008	10	10.1	0.459	0.238	0.5293	
15 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
15 minute summer	23	Orifice	24	1.8				
15 minute summer	24	4.002	25	10.9	0.742	0.429	0.6177	
15 minute summer	25	Orifice	26	8.4				
15 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	16.3
15 minute summer	26	Hydro-Brake®	28	1.6				
15 minute summer	27	5.001	26	-4.2	-0.263	-0.308	1.0194	

Results for 30 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	10	35	217.171	0.505	12.5	1.4638	0.0000	SURCHARGED
15 minute summer	11	78	216.702	0.091	8.5	0.0257	0.0000	OK
15 minute summer	OUTFALL1	78	216.662	0.082	8.5	0.0000	0.0000	OK
15 minute summer	12	34	216.880	0.317	1.5	0.0898	0.0000	SURCHARGED
15 minute summer	OUTFALL2	171	215.603	0.031	1.6	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	10	Hydro-Brake®	11	8.5				
15 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	55.0
15 minute summer	12	5.000	27	-1.5	-0.208	-0.109	0.2066	

Results for 30 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.39%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	15	218.840	0.130	3.1	0.0368	0.0000	OK
15 minute winter	2	16	218.839	0.339	10.1	1.1258	0.0000	SURCHARGED
15 minute winter	3	15	218.836	0.692	12.9	2.5005	0.0000	SURCHARGED
15 minute winter	4	18	218.243	0.694	25.9	5.1136	0.0000	SURCHARGED
15 minute winter	5	18	218.238	0.849	19.8	4.6829	0.0000	FLOOD RISK
15 minute winter	6	20	217.806	0.588	21.7	3.3407	0.0000	SURCHARGED
15 minute winter	7	20	217.800	0.710	21.9	3.0927	0.0000	SURCHARGED
15 minute winter	13	10	218.744	0.080	8.2	0.0543	0.0000	OK
15 minute winter	14	18	218.640	0.127	11.6	0.1675	0.0000	OK
15 minute winter	20	17	218.642	0.167	1.3	0.0498	0.0000	SURCHARGED
15 minute winter	21	18	218.641	0.250	5.4	0.3709	0.0000	SURCHARGED
15 minute winter	15	19	218.640	0.338	15.7	1.4028	0.0000	SURCHARGED
15 minute winter	16	18	218.637	0.601	15.5	2.5753	0.0000	SURCHARGED
15 minute winter	17	18	218.635	0.815	11.7	3.8868	0.0000	SURCHARGED
15 minute winter	18	22	217.797	0.308	17.5	1.2963	0.0000	SURCHARGED
15 minute winter	19	21	217.796	0.491	23.8	1.7141	0.0000	SURCHARGED
15 minute winter	8	20	217.796	0.949	37.0	8.2182	0.0000	SURCHARGED
15 minute winter	9	53	217.337	0.582	12.3	1.1736	0.0000	SURCHARGED
15 minute winter	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
15 minute winter	23	15	218.551	0.583	7.6	1.5284	0.0000	SURCHARGED
15 minute winter	24	10	217.384	0.071	11.7	0.0747	0.0000	OK
15 minute winter	25	15	217.317	1.071	25.2	4.6366	0.0000	SURCHARGED
15 minute winter	28	36	215.634	0.033	1.6	0.0377	0.0000	OK
15 minute winter	26	35	216.954	0.876	15.4	8.0355	0.0000	SURCHARGED
15 minute winter	27	36	216.954	0.460	5.3	0.8878	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	-3.1	-0.238	-0.214	0.5323	
15 minute winter	2	1.001	3	6.0	0.428	0.310	0.5317	
15 minute winter	3	Orifice	4	4.5				
15 minute winter	4	1.003	5	13.4	0.473	0.389	1.4353	
15 minute winter	5	Orifice	6	6.9				
15 minute winter	6	1.005	7	15.3	0.798	0.445	1.1469	
15 minute winter	7	1.006	8	14.1	0.537	0.276	1.0030	
15 minute winter	13	2.000	14	8.1	0.733	0.558	0.2487	
15 minute winter	14	2.001	15	11.4	0.816	0.787	0.5302	
15 minute winter	20	3.000	21	-0.9	0.213	-0.064	0.2211	
15 minute winter	21	3.001	15	2.7	0.313	0.190	0.2363	
15 minute winter	15	2.002	16	10.8	0.739	0.750	0.7028	
15 minute winter	16	2.003	17	5.8	0.399	0.403	0.5717	
15 minute winter	17	Orifice	18	1.8				
15 minute winter	18	2.005	19	17.5	0.947	0.414	1.0970	
15 minute winter	19	2.006	8	19.4	0.599	0.375	1.8341	
15 minute winter	8	Orifice	9	8.4				
15 minute winter	9	1.008	10	10.3	0.473	0.242	0.5293	
15 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
15 minute winter	23	Orifice	24	1.9				
15 minute winter	24	4.002	25	11.5	0.772	0.450	0.6248	
15 minute winter	25	Orifice	26	8.7				
15 minute winter	28	4.005	OUTFALL2	1.6	0.447	0.044	0.0225	18.3
15 minute winter	26	Hydro-Brake®	28	1.6				
15 minute winter	27	5.001	26	-4.6	-0.282	-0.337	1.0194	

Results for 30 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.39%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	10	53	217.333	0.667	12.7	2.0787	0.0000	FLOOD RISK
15 minute winter	11	101	216.702	0.091	8.5	0.0257	0.0000	OK
15 minute winter	OUTFALL1	101	216.662	0.082	8.5	0.0000	0.0000	OK
15 minute winter	12	35	216.954	0.391	2.0	0.1107	0.0000	SURCHARGED
15 minute winter	OUTFALL2	36	215.603	0.032	1.6	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	10	Hydro-Brake®	11	8.5				
15 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	61.6
15 minute winter	12	5.000	27	-2.0	-0.166	-0.149	0.2066	

Results for 30 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	23	218.836	0.126	3.3	0.0356	0.0000	OK
30 minute summer	2	24	218.833	0.333	8.9	1.0990	0.0000	SURCHARGED
30 minute summer	3	23	218.828	0.685	11.1	2.4642	0.0000	SURCHARGED
30 minute summer	4	30	218.274	0.725	23.7	5.4966	0.0000	SURCHARGED
30 minute summer	5	31	218.269	0.880	17.0	5.5888	0.0000	FLOOD RISK
30 minute summer	6	41	217.860	0.642	19.8	3.7371	0.0000	SURCHARGED
30 minute summer	7	44	217.855	0.765	19.4	3.3805	0.0000	SURCHARGED
30 minute summer	13	18	218.740	0.075	7.3	0.0509	0.0000	OK
30 minute summer	14	32	218.698	0.185	10.4	0.3388	0.0000	SURCHARGED
30 minute summer	20	31	218.698	0.223	1.9	0.0668	0.0000	SURCHARGED
30 minute summer	21	32	218.699	0.307	5.5	0.4876	0.0000	SURCHARGED
30 minute summer	15	32	218.697	0.395	13.6	1.7622	0.0000	SURCHARGED
30 minute summer	16	32	218.696	0.660	13.0	2.9162	0.0000	SURCHARGED
30 minute summer	17	31	218.693	0.873	9.7	4.2185	0.0000	SURCHARGED
30 minute summer	18	46	217.852	0.363	15.9	1.7586	0.0000	SURCHARGED
30 minute summer	19	46	217.852	0.547	21.1	1.9876	0.0000	SURCHARGED
30 minute summer	8	46	217.851	1.004	26.2	11.9646	0.0000	FLOOD RISK
30 minute summer	9	68	217.385	0.630	11.9	1.3029	0.0000	SURCHARGED
30 minute summer	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
30 minute summer	23	23	218.555	0.587	6.7	1.5450	0.0000	SURCHARGED
30 minute summer	24	18	217.381	0.068	10.7	0.0711	0.0000	OK
30 minute summer	25	23	217.325	1.079	22.9	4.7021	0.0000	SURCHARGED
30 minute summer	28	48	215.635	0.034	1.6	0.0386	0.0000	OK
30 minute summer	26	47	217.052	0.974	13.8	9.2562	0.0000	SURCHARGED
30 minute summer	27	47	217.053	0.559	5.3	1.6108	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	-3.3	-0.220	-0.225	0.5252	
30 minute summer	2	1.001	3	4.9	0.362	0.255	0.5317	
30 minute summer	3	Orifice	4	4.4				
30 minute summer	4	1.003	5	11.4	0.432	0.332	1.4353	
30 minute summer	5	Orifice	6	6.7				
30 minute summer	6	1.005	7	12.8	0.732	0.371	1.1469	
30 minute summer	7	1.006	8	12.8	0.465	0.251	1.0030	
30 minute summer	13	2.000	14	7.3	0.719	0.506	0.2376	
30 minute summer	14	2.001	15	10.3	0.784	0.713	0.5573	
30 minute summer	20	3.000	21	-1.4	0.212	-0.094	0.2211	
30 minute summer	21	3.001	15	-2.9	0.297	-0.200	0.2363	
30 minute summer	15	2.002	16	8.9	0.592	0.613	0.7028	
30 minute summer	16	2.003	17	4.1	0.275	0.282	0.5717	
30 minute summer	17	Orifice	18	1.8				
30 minute summer	18	2.005	19	15.5	0.878	0.366	1.0970	
30 minute summer	19	2.006	8	12.7	0.416	0.245	1.8341	
30 minute summer	8	Orifice	9	8.4				
30 minute summer	9	1.008	10	10.0	0.431	0.236	0.5293	
30 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
30 minute summer	23	Orifice	24	1.9				
30 minute summer	24	4.002	25	10.6	0.772	0.418	0.6140	
30 minute summer	25	Orifice	26	8.5				
30 minute summer	28	4.005	OUTFALL2	1.6	0.454	0.046	0.0233	22.3
30 minute summer	26	Hydro-Brake®	28	1.6				
30 minute summer	27	5.001	26	-4.5	-0.270	-0.329	1.0194	

Results for 30 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	10	68	217.381	0.715	12.2	2.6355	0.0000	FLOOD RISK
30 minute summer	11	135	216.702	0.091	8.5	0.0257	0.0000	OK
30 minute summer	OUTFALL1	135	216.662	0.082	8.5	0.0000	0.0000	OK
30 minute summer	12	48	217.053	0.490	2.3	0.1386	0.0000	SURCHARGED
30 minute summer	OUTFALL2	48	215.603	0.032	1.6	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	10	Hydro-Brake®	11	8.5				
30 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	74.8
30 minute summer	12	5.000	27	-2.3	-0.216	-0.168	0.2066	

Results for 30 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	25	218.899	0.189	3.1	0.0535	0.0000	SURCHARGED
30 minute winter	2	25	218.900	0.400	7.1	1.4326	0.0000	SURCHARGED
30 minute winter	3	25	218.894	0.751	10.0	2.7892	0.0000	FLOOD RISK
30 minute winter	4	30	218.308	0.759	21.9	5.9543	0.0000	SURCHARGED
30 minute winter	5	32	218.303	0.914	15.4	7.1532	0.0000	FLOOD RISK
30 minute winter	6	52	217.883	0.665	18.6	5.1449	0.0000	FLOOD RISK
30 minute winter	7	54	217.878	0.788	18.3	3.5013	0.0000	SURCHARGED
30 minute winter	13	32	218.765	0.100	6.6	0.0678	0.0000	OK
30 minute winter	14	32	218.765	0.252	9.4	0.5338	0.0000	SURCHARGED
30 minute winter	20	31	218.765	0.290	2.7	0.0867	0.0000	SURCHARGED
30 minute winter	21	32	218.765	0.374	3.5	0.6220	0.0000	SURCHARGED
30 minute winter	15	32	218.764	0.462	11.5	2.1946	0.0000	SURCHARGED
30 minute winter	16	32	218.763	0.727	11.9	3.3045	0.0000	SURCHARGED
30 minute winter	17	32	218.760	0.940	8.6	4.5974	0.0000	SURCHARGED
30 minute winter	18	56	217.875	0.386	14.5	1.9425	0.0000	SURCHARGED
30 minute winter	19	56	217.875	0.570	19.3	2.1029	0.0000	SURCHARGED
30 minute winter	8	56	217.874	1.027	25.9	14.1703	0.0000	FLOOD RISK
30 minute winter	9	74	217.404	0.649	11.7	1.3546	0.0000	SURCHARGED
30 minute winter	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
30 minute winter	23	25	218.589	0.621	6.1	1.8057	0.0000	FLOOD RISK
30 minute winter	24	25	217.429	0.116	9.8	0.1349	0.0000	OK
30 minute winter	25	25	217.402	1.156	21.0	5.2829	0.0000	SURCHARGED
30 minute winter	28	50	215.636	0.035	1.7	0.0393	0.0000	OK
30 minute winter	26	50	217.123	1.045	13.2	10.1335	0.0000	SURCHARGED
30 minute winter	27	50	217.123	0.629	5.3	2.3613	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	-3.1	-0.238	-0.215	0.5543	
30 minute winter	2	1.001	3	4.6	0.342	0.239	0.5317	
30 minute winter	3	Orifice	4	4.4				
30 minute winter	4	1.003	5	12.1	0.442	0.353	1.4353	
30 minute winter	5	Orifice	6	6.7				
30 minute winter	6	1.005	7	11.6	0.746	0.336	1.1469	
30 minute winter	7	1.006	8	14.3	0.478	0.280	1.0030	
30 minute winter	13	2.000	14	6.6	0.703	0.457	0.3408	
30 minute winter	14	2.001	15	9.3	0.752	0.646	0.5573	
30 minute winter	20	3.000	21	-2.2	0.199	-0.149	0.2211	
30 minute winter	21	3.001	15	2.0	0.277	0.141	0.2363	
30 minute winter	15	2.002	16	8.5	0.616	0.585	0.7028	
30 minute winter	16	2.003	17	4.3	0.311	0.300	0.5717	
30 minute winter	17	Orifice	18	1.9				
30 minute winter	18	2.005	19	14.2	0.847	0.335	1.0970	
30 minute winter	19	2.006	8	12.4	0.406	0.239	1.8341	
30 minute winter	8	Orifice	9	8.5				
30 minute winter	9	1.008	10	9.8	0.446	0.232	0.5293	
30 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
30 minute winter	23	Orifice	24	2.0				
30 minute winter	24	4.002	25	9.8	0.740	0.385	0.7824	
30 minute winter	25	Orifice	26	8.4				
30 minute winter	28	4.005	OUTFALL2	1.7	0.458	0.048	0.0238	24.2
30 minute winter	26	Hydro-Brake®	28	1.7				
30 minute winter	27	5.001	26	-4.3	-0.256	-0.319	1.0194	

Results for 30 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	10	74	217.400	0.734	11.8	2.8597	0.0000	FLOOD RISK
30 minute winter	11	155	216.702	0.091	8.5	0.0257	0.0000	OK
30 minute winter	OUTFALL1	155	216.662	0.082	8.5	0.0000	0.0000	OK
30 minute winter	12	50	217.123	0.560	2.1	0.1585	0.0000	SURCHARGED
30 minute winter	OUTFALL2	50	215.604	0.033	1.7	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)
30 minute winter	10	Hydro-Brake®	11	8.5				
30 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	83.8
30 minute winter	12	5.000	27	-2.1	-0.226	-0.156	0.2066	

Results for 30 year 60 minute summer. 300 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
60 minute summer	1	41	218.836	0.126	2.3	0.0357	0.0000	OK
60 minute summer	2	41	218.836	0.336	6.1	1.1113	0.0000	SURCHARGED
60 minute summer	3	40	218.831	0.688	8.6	2.4785	0.0000	SURCHARGED
60 minute summer	4	51	218.299	0.750	19.4	5.8295	0.0000	SURCHARGED
60 minute summer	5	52	218.294	0.905	13.3	6.7302	0.0000	FLOOD RISK
60 minute summer	6	75	217.898	0.680	16.5	7.7980	0.0000	FLOOD RISK
60 minute summer	7	76	217.894	0.804	15.1	3.5831	0.0000	SURCHARGED
60 minute summer	13	60	218.784	0.120	5.7	0.0807	0.0000	OK
60 minute summer	14	61	218.783	0.270	8.1	0.5904	0.0000	SURCHARGED
60 minute summer	20	60	218.783	0.308	1.8	0.0920	0.0000	SURCHARGED
60 minute summer	21	60	218.783	0.392	4.2	0.6590	0.0000	SURCHARGED
60 minute summer	15	60	218.783	0.481	9.4	2.3120	0.0000	SURCHARGED
60 minute summer	16	60	218.781	0.745	8.5	3.4134	0.0000	SURCHARGED
60 minute summer	17	60	218.779	0.959	6.5	4.7028	0.0000	SURCHARGED
60 minute summer	18	61	217.892	0.403	12.9	2.0730	0.0000	SURCHARGED
60 minute summer	19	61	217.891	0.586	15.8	2.1834	0.0000	SURCHARGED
60 minute summer	8	64	217.890	1.043	24.9	15.6999	0.0000	FLOOD RISK
60 minute summer	9	64	217.425	0.670	11.4	1.4110	0.0000	SURCHARGED
60 minute summer	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
60 minute summer	23	40	218.560	0.592	5.2	1.5680	0.0000	SURCHARGED
60 minute summer	24	41	217.390	0.077	8.7	0.0830	0.0000	OK
60 minute summer	25	41	217.365	1.119	18.3	5.0083	0.0000	SURCHARGED
60 minute summer	28	71	215.636	0.035	1.8	0.0398	0.0000	OK
60 minute summer	26	71	217.193	1.115	12.1	11.0019	0.0000	SURCHARGED
60 minute summer	27	70	217.193	0.699	4.5	3.1079	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	-2.3	-0.169	-0.157	0.5260	
60 minute summer	2	1.001	3	4.1	0.309	0.213	0.5317	
60 minute summer	3	Orifice	4	4.3				
60 minute summer	4	1.003	5	10.3	0.381	0.299	1.4353	
60 minute summer	5	Orifice	6	6.4				
60 minute summer	6	1.005	7	11.0	0.665	0.320	1.1469	
60 minute summer	7	1.006	8	13.6	0.430	0.267	1.0030	
60 minute summer	13	2.000	14	5.7	0.679	0.395	0.3693	
60 minute summer	14	2.001	15	8.1	0.690	0.557	0.5573	
60 minute summer	20	3.000	21	-1.4	0.187	-0.098	0.2211	
60 minute summer	21	3.001	15	-2.7	0.254	-0.185	0.2363	
60 minute summer	15	2.002	16	5.9	0.502	0.405	0.7028	
60 minute summer	16	2.003	17	2.9	0.215	0.199	0.5717	
60 minute summer	17	Orifice	18	1.9				
60 minute summer	18	2.005	19	11.7	0.770	0.277	1.0970	
60 minute summer	19	2.006	8	9.1	0.354	0.176	1.8341	
60 minute summer	8	Orifice	9	8.4				
60 minute summer	9	1.008	10	9.8	0.415	0.231	0.5293	
60 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
60 minute summer	23	Orifice	24	1.9				
60 minute summer	24	4.002	25	8.7	0.785	0.340	0.6492	
60 minute summer	25	Orifice	26	7.8				
60 minute summer	28	4.005	OUTFALL2	1.8	0.462	0.049	0.0243	27.2
60 minute summer	26	Hydro-Brake®	28	1.8				
60 minute summer	27	5.001	26	-3.6	-0.207	-0.265	1.0194	

Results for 30 year 60 minute summer. 300 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
60 minute summer	10	64	217.421	0.755	11.5	3.1064	0.0000	FLOOD RISK
60 minute summer	11	31	216.702	0.091	8.5	0.0257	0.0000	OK
60 minute summer	OUTFALL1	189	216.662	0.082	8.5	0.0000	0.0000	OK
60 minute summer	12	71	217.193	0.630	1.3	0.1783	0.0000	SURCHARGED
60 minute summer	OUTFALL2	71	215.604	0.033	1.8	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	10	Hydro-Brake®	11	8.5				
60 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	97.8
60 minute summer	12	5.000	27	-1.3	-0.182	-0.099	0.2066	

Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	44	218.884	0.174	1.8	0.0492	0.0000	SURCHARGED
60 minute winter	2	44	218.883	0.383	5.0	1.3483	0.0000	SURCHARGED
60 minute winter	3	44	218.878	0.735	7.2	2.7107	0.0000	SURCHARGED
60 minute winter	4	57	218.338	0.789	16.6	6.3671	0.0000	SURCHARGED
60 minute winter	5	57	218.333	0.944	14.7	8.6177	0.0000	FLOOD RISK
60 minute winter	6	83	217.913	0.695	14.5	11.7718	0.0000	FLOOD RISK
60 minute winter	7	84	217.909	0.819	15.6	3.6618	0.0000	SURCHARGED
60 minute winter	13	59	218.873	0.209	4.6	0.1412	0.0000	SURCHARGED
60 minute winter	14	59	218.873	0.360	6.5	0.8909	0.0000	SURCHARGED
60 minute winter	20	59	218.872	0.397	1.2	0.1188	0.0000	SURCHARGED
60 minute winter	21	59	218.872	0.481	2.6	0.8413	0.0000	SURCHARGED
60 minute winter	15	59	218.872	0.570	7.3	2.8863	0.0000	SURCHARGED
60 minute winter	16	59	218.871	0.835	7.5	3.9339	0.0000	SURCHARGED
60 minute winter	17	59	218.868	1.048	5.7	5.2069	0.0000	SURCHARGED
60 minute winter	18	59	217.908	0.419	10.7	2.1940	0.0000	SURCHARGED
60 minute winter	19	60	217.907	0.602	12.6	2.2619	0.0000	SURCHARGED
60 minute winter	8	62	217.906	1.058	27.5	17.1594	0.0000	FLOOD RISK
60 minute winter	9	61	217.450	0.695	10.9	1.4778	0.0000	SURCHARGED
60 minute winter	22	1	218.616	0.000	0.0	0.0000	0.0000	OK
60 minute winter	23	43	218.583	0.615	4.2	1.7261	0.0000	FLOOD RISK
60 minute winter	24	44	217.464	0.151	7.4	0.1898	0.0000	SURCHARGED
60 minute winter	25	46	217.437	1.191	15.2	5.7370	0.0000	FLOOD RISK
60 minute winter	28	74	215.637	0.036	1.8	0.0405	0.0000	OK
60 minute winter	26	74	217.282	1.204	10.9	12.1177	0.0000	SURCHARGED
60 minute winter	27	74	217.283	0.789	3.7	4.0622	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	-1.8	-0.151	-0.124	0.5543	
60 minute winter	2	1.001	3	3.4	0.263	0.178	0.5317	
60 minute winter	3	Orifice	4	4.3				
60 minute winter	4	1.003	5	11.4	0.394	0.332	1.4353	
60 minute winter	5	Orifice	6	6.5				
60 minute winter	6	1.005	7	11.3	0.677	0.327	1.1469	
60 minute winter	7	1.006	8	14.3	0.422	0.280	1.0030	
60 minute winter	13	2.000	14	4.6	0.643	0.318	0.3981	
60 minute winter	14	2.001	15	6.4	0.658	0.442	0.5573	
60 minute winter	20	3.000	21	-0.8	0.180	-0.054	0.2211	
60 minute winter	21	3.001	15	-1.4	0.235	-0.097	0.2363	
60 minute winter	15	2.002	16	5.5	0.521	0.379	0.7028	
60 minute winter	16	2.003	17	2.8	0.228	0.197	0.5717	
60 minute winter	17	Orifice	18	2.0				
60 minute winter	18	2.005	19	9.4	0.760	0.223	1.0970	
60 minute winter	19	2.006	8	10.4	0.343	0.201	1.8341	
60 minute winter	8	Orifice	9	8.5				
60 minute winter	9	1.008	10	9.3	0.423	0.220	0.5293	
60 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
60 minute winter	23	Orifice	24	2.0				
60 minute winter	24	4.002	25	7.4	0.781	0.291	0.8544	
60 minute winter	25	Orifice	26	7.4				
60 minute winter	28	4.005	OUTFALL2	1.8	0.466	0.051	0.0249	27.8
60 minute winter	26	Hydro-Brake®	28	1.8				
60 minute winter	27	5.001	26	-3.2	0.189	-0.237	1.0194	

Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	10	61	217.446	0.780	10.6	3.4025	0.0000	FLOOD RISK
60 minute winter	11	214	216.702	0.091	8.5	0.0257	0.0000	OK
60 minute winter	OUTFALL1	214	216.662	0.082	8.5	0.0000	0.0000	OK
60 minute winter	12	74	217.283	0.720	1.3	0.2037	0.0000	SURCHARGED
60 minute winter	OUTFALL2	74	215.605	0.034	1.8	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	10	Hydro-Brake®	11	8.5				
60 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	109.7
60 minute winter	12	5.000	27	-1.3	-0.166	-0.095	0.2066	

Results for 30 year 120 minute summer. 360 minute analysis at 2 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
120 minute summer	1	74	218.743	0.033	0.4	0.0093	0.0000	OK
120 minute summer	2	74	218.743	0.243	3.9	0.6983	0.0000	SURCHARGED
120 minute summer	3	74	218.738	0.595	6.1	2.0240	0.0000	SURCHARGED
120 minute summer	4	84	218.286	0.737	13.7	5.6554	0.0000	SURCHARGED
120 minute summer	5	84	218.282	0.892	10.1	6.1265	0.0000	FLOOD RISK
120 minute summer	6	124	217.908	0.690	12.5	10.1475	0.0000	FLOOD RISK
120 minute summer	7	122	217.904	0.814	12.4	3.6381	0.0000	SURCHARGED
120 minute summer	13	90	218.786	0.121	3.7	0.0820	0.0000	OK
120 minute summer	14	92	218.785	0.272	5.2	0.5956	0.0000	SURCHARGED
120 minute summer	20	90	218.784	0.309	1.2	0.0925	0.0000	SURCHARGED
120 minute summer	21	90	218.784	0.393	1.9	0.6623	0.0000	SURCHARGED
120 minute summer	15	92	218.785	0.482	5.7	2.3241	0.0000	SURCHARGED
120 minute summer	16	92	218.783	0.747	5.4	3.4214	0.0000	SURCHARGED
120 minute summer	17	90	218.780	0.960	4.5	4.7099	0.0000	SURCHARGED
120 minute summer	18	120	217.904	0.415	8.9	2.1606	0.0000	SURCHARGED
120 minute summer	19	120	217.903	0.598	10.5	2.2429	0.0000	SURCHARGED
120 minute summer	8	122	217.902	1.055	21.1	16.7947	0.0000	FLOOD RISK
120 minute summer	9	122	217.441	0.686	10.4	1.4555	0.0000	SURCHARGED
120 minute summer	22	2	218.616	0.000	0.0	0.0000	0.0000	OK
120 minute summer	23	72	218.473	0.505	3.4	1.1909	0.0000	SURCHARGED
120 minute summer	24	64	217.363	0.050	6.1	0.0506	0.0000	OK
120 minute summer	25	78	217.311	1.065	12.3	4.5854	0.0000	SURCHARGED
120 minute summer	28	122	215.637	0.036	1.8	0.0402	0.0000	OK
120 minute summer	26	122	217.236	1.158	9.4	11.5397	0.0000	SURCHARGED
120 minute summer	27	122	217.236	0.742	2.9	3.5645	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	-0.4	-0.031	-0.024	0.3217	
120 minute summer	2	1.001	3	3.0	0.233	0.154	0.5317	
120 minute summer	3	Orifice	4	4.1				
120 minute summer	4	1.003	5	8.0	0.330	0.232	1.4353	
120 minute summer	5	Orifice	6	6.3				
120 minute summer	6	1.005	7	9.8	0.617	0.283	1.1469	
120 minute summer	7	1.006	8	11.7	0.369	0.229	1.0030	
120 minute summer	13	2.000	14	3.7	0.608	0.256	0.3718	
120 minute summer	14	2.001	15	5.0	0.598	0.345	0.5573	
120 minute summer	20	3.000	21	-0.9	0.158	-0.059	0.2211	
120 minute summer	21	3.001	15	1.0	0.237	0.067	0.2363	
120 minute summer	15	2.002	16	3.9	0.427	0.270	0.7028	
120 minute summer	16	2.003	17	2.3	0.186	0.162	0.5717	
120 minute summer	17	Orifice	18	1.9				
120 minute summer	18	2.005	19	7.9	0.692	0.186	1.0970	
120 minute summer	19	2.006	8	7.6	0.318	0.147	1.8341	
120 minute summer	8	Orifice	9	8.5				
120 minute summer	9	1.008	10	9.5	0.402	0.223	0.5293	
120 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
120 minute summer	23	Orifice	24	1.8				
120 minute summer	24	4.002	25	6.1	0.744	0.239	0.5516	
120 minute summer	25	Orifice	26	6.5				
120 minute summer	28	4.005	OUTFALL2	1.8	0.464	0.050	0.0246	32.9
120 minute summer	26	Hydro-Brake®	28	1.8				
120 minute summer	27	5.001	26	-2.6	0.192	-0.191	1.0194	

Results for 30 year 120 minute summer. 360 minute analysis at 2 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
120 minute summer	10	122	217.437	0.771	10.5	3.2991	0.0000	FLOOD RISK
120 minute summer	11	242	216.702	0.091	8.5	0.0257	0.0000	OK
120 minute summer	OUTFALL1	242	216.662	0.082	8.5	0.0000	0.0000	OK
120 minute summer	12	122	217.236	0.673	1.2	0.1904	0.0000	SURCHARGED
120 minute summer	OUTFALL2	122	215.605	0.034	1.8	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	10	Hydro-Brake®	11	8.5				
120 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	118.1
120 minute summer	12	5.000	27	-1.2	-0.099	-0.086	0.2066	

Results for 30 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	78	218.730	0.020	0.2	0.0058	0.0000	OK
120 minute winter	2	78	218.730	0.230	3.0	0.6414	0.0000	SURCHARGED
120 minute winter	3	78	218.727	0.583	5.3	1.9674	0.0000	SURCHARGED
120 minute winter	4	90	218.316	0.767	11.4	6.0592	0.0000	SURCHARGED
120 minute winter	5	90	218.311	0.922	10.3	7.5492	0.0000	FLOOD RISK
120 minute winter	6	128	217.924	0.706	10.8	15.6160	0.0000	FLOOD RISK
120 minute winter	7	122	217.921	0.831	12.4	3.7250	0.0000	SURCHARGED
120 minute winter	13	98	218.873	0.209	2.8	0.1411	0.0000	SURCHARGED
120 minute winter	14	98	218.873	0.360	4.0	0.8897	0.0000	SURCHARGED
120 minute winter	20	98	218.872	0.397	0.8	0.1187	0.0000	SURCHARGED
120 minute winter	21	98	218.872	0.481	1.2	0.8405	0.0000	SURCHARGED
120 minute winter	15	98	218.872	0.570	4.4	2.8844	0.0000	SURCHARGED
120 minute winter	16	98	218.870	0.834	4.7	3.9312	0.0000	SURCHARGED
120 minute winter	17	98	218.868	1.048	3.7	5.2060	0.0000	SURCHARGED
120 minute winter	18	118	217.920	0.431	7.2	2.2899	0.0000	SURCHARGED
120 minute winter	19	118	217.920	0.615	8.3	2.3266	0.0000	SURCHARGED
120 minute winter	8	120	217.918	1.071	21.2	18.3652	0.0000	FLOOD RISK
120 minute winter	9	114	217.467	0.712	9.9	1.5230	0.0000	SURCHARGED
120 minute winter	22	2	218.616	0.000	0.0	0.0000	0.0000	OK
120 minute winter	23	76	218.456	0.488	2.6	1.1265	0.0000	SURCHARGED
120 minute winter	24	88	217.416	0.103	5.1	0.1160	0.0000	OK
120 minute winter	25	88	217.405	1.159	9.9	5.3031	0.0000	FLOOD RISK
120 minute winter	28	122	215.637	0.036	1.9	0.0411	0.0000	OK
120 minute winter	26	122	217.354	1.276	8.0	13.0099	0.0000	SURCHARGED
120 minute winter	27	122	217.355	0.861	3.0	4.8301	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	-0.2	-0.019	-0.014	0.2997	
120 minute winter	2	1.001	3	2.6	0.209	0.137	0.5317	
120 minute winter	3	Orifice	4	3.9				
120 minute winter	4	1.003	5	8.3	0.311	0.242	1.4353	
120 minute winter	5	Orifice	6	6.3				
120 minute winter	6	1.005	7	9.7	0.624	0.281	1.1469	
120 minute winter	7	1.006	8	11.6	0.358	0.228	1.0030	
120 minute winter	13	2.000	14	2.8	0.560	0.194	0.3981	
120 minute winter	14	2.001	15	3.9	0.570	0.268	0.5573	
120 minute winter	20	3.000	21	-0.6	0.168	-0.038	0.2211	
120 minute winter	21	3.001	15	0.8	0.226	0.055	0.2363	
120 minute winter	15	2.002	16	3.5	0.449	0.245	0.7028	
120 minute winter	16	2.003	17	2.0	0.203	0.141	0.5717	
120 minute winter	17	Orifice	18	2.0				
120 minute winter	18	2.005	19	6.3	0.684	0.148	1.0970	
120 minute winter	19	2.006	8	7.7	0.297	0.149	1.8341	
120 minute winter	8	Orifice	9	8.4				
120 minute winter	9	1.008	10	9.0	0.403	0.213	0.5293	
120 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
120 minute winter	23	Orifice	24	1.8				
120 minute winter	24	4.002	25	5.1	0.747	0.200	0.7391	
120 minute winter	25	Orifice	26	5.7				
120 minute winter	28	4.005	OUTFALL2	1.9	0.469	0.052	0.0254	33.7
120 minute winter	26	Hydro-Brake®	28	1.9				
120 minute winter	27	5.001	26	-2.7	0.192	-0.199	1.0194	

Results for 30 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	10	114	217.463	0.797	9.8	3.5970	0.0000	FLOOD RISK
120 minute winter	11	270	216.702	0.091	8.5	0.0257	0.0000	OK
120 minute winter	OUTFALL1	270	216.662	0.082	8.5	0.0000	0.0000	OK
120 minute winter	12	122	217.355	0.792	0.7	0.2240	0.0000	FLOOD RISK
120 minute winter	OUTFALL2	122	215.605	0.034	1.9	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)
120 minute winter	10	Hydro-Brake®	11	8.5				
120 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	132.0
120 minute winter	12	5.000	27	-0.7	-0.094	-0.053	0.2066	

Results for 30 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	4	218.710	0.000	0.0	0.0000	0.0000	OK
180 minute summer	2	108	218.652	0.152	2.9	0.3051	0.0000	SURCHARGED
180 minute summer	3	108	218.649	0.506	4.9	1.5873	0.0000	SURCHARGED
180 minute summer	4	120	218.267	0.718	11.0	5.4057	0.0000	SURCHARGED
180 minute summer	5	120	218.262	0.873	8.8	5.3578	0.0000	FLOOD RISK
180 minute summer	6	160	217.905	0.687	10.6	9.5762	0.0000	FLOOD RISK
180 minute summer	7	164	217.903	0.813	10.7	3.6298	0.0000	SURCHARGED
180 minute summer	13	124	218.767	0.103	2.7	0.0694	0.0000	OK
180 minute summer	14	124	218.767	0.254	3.9	0.5399	0.0000	SURCHARGED
180 minute summer	20	124	218.766	0.291	0.4	0.0870	0.0000	SURCHARGED
180 minute summer	21	124	218.766	0.375	1.5	0.6249	0.0000	SURCHARGED
180 minute summer	15	124	218.766	0.464	4.3	2.2056	0.0000	SURCHARGED
180 minute summer	16	124	218.764	0.728	4.5	3.3149	0.0000	SURCHARGED
180 minute summer	17	124	218.762	0.942	3.6	4.6071	0.0000	SURCHARGED
180 minute summer	18	164	217.902	0.413	7.0	2.1509	0.0000	SURCHARGED
180 minute summer	19	164	217.902	0.597	7.7	2.2371	0.0000	SURCHARGED
180 minute summer	8	164	217.900	1.053	17.0	16.6636	0.0000	FLOOD RISK
180 minute summer	9	164	217.443	0.688	9.9	1.4610	0.0000	SURCHARGED
180 minute summer	22	4	218.616	0.000	0.0	0.0000	0.0000	OK
180 minute summer	23	104	218.389	0.421	2.5	0.8767	0.0000	SURCHARGED
180 minute summer	24	96	217.358	0.045	4.9	0.0446	0.0000	OK
180 minute summer	25	116	217.269	1.023	9.5	4.2389	0.0000	SURCHARGED
180 minute summer	28	156	215.637	0.035	1.8	0.0401	0.0000	OK
180 minute summer	26	156	217.227	1.149	7.8	11.4295	0.0000	SURCHARGED
180 minute summer	27	156	217.227	0.733	2.5	3.4693	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	0.0	0.000	0.000	0.2772	
180 minute summer	2	1.001	3	2.4	0.196	0.125	0.5317	
180 minute summer	3	Orifice	4	3.8				
180 minute summer	4	1.003	5	6.6	0.327	0.193	1.4353	
180 minute summer	5	Orifice	6	6.1				
180 minute summer	6	1.005	7	8.5	0.602	0.247	1.1469	
180 minute summer	7	1.006	8	10.0	0.374	0.195	1.0030	
180 minute summer	13	2.000	14	2.7	0.552	0.187	0.3446	
180 minute summer	14	2.001	15	3.8	0.563	0.261	0.5573	
180 minute summer	20	3.000	21	0.2	0.157	0.014	0.2211	
180 minute summer	21	3.001	15	0.7	0.210	0.052	0.2363	
180 minute summer	15	2.002	16	3.3	0.409	0.227	0.7028	
180 minute summer	16	2.003	17	2.1	0.179	0.143	0.5717	
180 minute summer	17	Orifice	18	1.9				
180 minute summer	18	2.005	19	5.9	0.676	0.140	1.0970	
180 minute summer	19	2.006	8	5.6	0.275	0.108	1.8341	
180 minute summer	8	Orifice	9	8.4				
180 minute summer	9	1.008	10	9.0	0.395	0.211	0.5293	
180 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
180 minute summer	23	Orifice	24	1.6				
180 minute summer	24	4.002	25	4.9	0.746	0.192	0.5336	
180 minute summer	25	Orifice	26	5.6				
180 minute summer	28	4.005	OUTFALL2	1.8	0.464	0.050	0.0245	37.8
180 minute summer	26	Hydro-Brake®	28	1.8				
180 minute summer	27	5.001	26	-2.3	-0.129	-0.167	1.0194	

Results for 30 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	10	164	217.439	0.773	9.8	3.3229	0.0000	FLOOD RISK
180 minute summer	11	284	216.702	0.091	8.5	0.0257	0.0000	OK
180 minute summer	OUTFALL1	284	216.662	0.082	8.5	0.0000	0.0000	OK
180 minute summer	12	156	217.227	0.664	0.7	0.1880	0.0000	SURCHARGED
180 minute summer	OUTFALL2	156	215.605	0.034	1.8	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	10	Hydro-Brake®	11	8.5				
180 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	131.8
180 minute summer	12	5.000	27	-0.7	-0.109	-0.049	0.2066	

Results for 30 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	4	218.710	0.000	0.0	0.0000	0.0000	OK
180 minute winter	2	112	218.618	0.118	2.3	0.2034	0.0000	OK
180 minute winter	3	112	218.616	0.473	4.4	1.4388	0.0000	SURCHARGED
180 minute winter	4	128	218.289	0.740	9.3	5.6960	0.0000	SURCHARGED
180 minute winter	5	128	218.285	0.896	8.4	6.2967	0.0000	FLOOD RISK
180 minute winter	6	176	217.925	0.707	9.3	15.7612	0.0000	FLOOD RISK
180 minute winter	7	176	217.922	0.832	10.5	3.7325	0.0000	SURCHARGED
180 minute winter	13	136	218.857	0.193	2.1	0.1303	0.0000	SURCHARGED
180 minute winter	14	136	218.857	0.344	3.0	0.8356	0.0000	SURCHARGED
180 minute winter	20	136	218.856	0.381	0.5	0.1139	0.0000	SURCHARGED
180 minute winter	21	136	218.856	0.465	1.3	0.8079	0.0000	SURCHARGED
180 minute winter	15	136	218.856	0.554	3.3	2.7806	0.0000	SURCHARGED
180 minute winter	16	136	218.854	0.818	3.4	3.8381	0.0000	SURCHARGED
180 minute winter	17	136	218.852	1.032	3.1	5.1139	0.0000	SURCHARGED
180 minute winter	18	172	217.922	0.433	5.9	2.3019	0.0000	SURCHARGED
180 minute winter	19	172	217.921	0.616	6.7	2.3351	0.0000	SURCHARGED
180 minute winter	8	172	217.920	1.073	17.6	18.5262	0.0000	FLOOD RISK
180 minute winter	9	144	217.465	0.710	9.5	1.5194	0.0000	SURCHARGED
180 minute winter	22	4	218.616	0.000	0.0	0.0000	0.0000	OK
180 minute winter	23	108	218.351	0.383	1.9	0.7503	0.0000	SURCHARGED
180 minute winter	24	132	217.382	0.068	4.0	0.0722	0.0000	OK
180 minute winter	25	136	217.376	1.130	7.6	5.0887	0.0000	SURCHARGED
180 minute winter	28	168	215.637	0.036	1.9	0.0410	0.0000	OK
180 minute winter	26	168	217.348	1.270	6.5	12.9332	0.0000	SURCHARGED
180 minute winter	27	168	217.348	0.854	2.5	4.7583	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	0.0	0.000	0.000	0.2341	
180 minute winter	2	1.001	3	2.2	0.190	0.112	0.4904	
180 minute winter	3	Orifice	4	3.6				
180 minute winter	4	1.003	5	6.9	0.309	0.200	1.4353	
180 minute winter	5	Orifice	6	6.1				
180 minute winter	6	1.005	7	8.4	0.612	0.243	1.1469	
180 minute winter	7	1.006	8	9.9	0.364	0.193	1.0030	
180 minute winter	13	2.000	14	2.1	0.510	0.145	0.3981	
180 minute winter	14	2.001	15	2.9	0.523	0.198	0.5573	
180 minute winter	20	3.000	21	-0.3	0.153	-0.018	0.2211	
180 minute winter	21	3.001	15	-0.8	0.186	-0.055	0.2363	
180 minute winter	15	2.002	16	2.6	0.409	0.178	0.7028	
180 minute winter	16	2.003	17	1.9	0.189	0.129	0.5717	
180 minute winter	17	Orifice	18	1.9				
180 minute winter	18	2.005	19	5.2	0.667	0.123	1.0970	
180 minute winter	19	2.006	8	6.2	0.258	0.120	1.8341	
180 minute winter	8	Orifice	9	8.4				
180 minute winter	9	1.008	10	8.9	0.402	0.210	0.5293	
180 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
180 minute winter	23	Orifice	24	1.5				
180 minute winter	24	4.002	25	4.0	0.727	0.159	0.6173	
180 minute winter	25	Orifice	26	4.8				
180 minute winter	28	4.005	OUTFALL2	1.9	0.469	0.052	0.0254	39.0
180 minute winter	26	Hydro-Brake®	28	1.9				
180 minute winter	27	5.001	26	-2.2	0.182	-0.165	1.0194	

Results for 30 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	10	144	217.461	0.795	9.5	3.5807	0.0000	FLOOD RISK
180 minute winter	11	84	216.702	0.091	8.5	0.0257	0.0000	OK
180 minute winter	OUTFALL1	84	216.662	0.082	8.5	0.0000	0.0000	OK
180 minute winter	12	168	217.348	0.785	0.7	0.2222	0.0000	FLOOD RISK
180 minute winter	OUTFALL2	168	215.605	0.034	1.9	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)
180 minute winter	10	Hydro-Brake®	11	8.5				
180 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	147.8
180 minute winter	12	5.000	27	-0.7	-0.078	-0.048	0.2066	

Results for 30 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	4	218.710	0.000	0.0	0.0000	0.0000	OK
240 minute summer	2	136	218.587	0.087	2.5	0.1300	0.0000	OK
240 minute summer	3	136	218.584	0.441	4.6	1.3029	0.0000	SURCHARGED
240 minute summer	4	152	218.245	0.696	9.6	5.1415	0.0000	SURCHARGED
240 minute summer	5	152	218.241	0.852	8.0	4.7505	0.0000	FLOOD RISK
240 minute summer	6	188	217.901	0.683	9.7	8.5894	0.0000	FLOOD RISK
240 minute summer	7	192	217.899	0.809	9.5	3.6104	0.0000	SURCHARGED
240 minute summer	13	160	218.756	0.092	2.3	0.0621	0.0000	OK
240 minute summer	14	160	218.756	0.243	3.3	0.5091	0.0000	SURCHARGED
240 minute summer	20	160	218.755	0.280	0.5	0.0838	0.0000	SURCHARGED
240 minute summer	21	160	218.755	0.364	1.0	0.6029	0.0000	SURCHARGED
240 minute summer	15	160	218.755	0.453	3.7	2.1349	0.0000	SURCHARGED
240 minute summer	16	160	218.754	0.718	3.4	3.2531	0.0000	SURCHARGED
240 minute summer	17	160	218.751	0.931	3.2	4.5474	0.0000	SURCHARGED
240 minute summer	18	192	217.898	0.409	6.2	2.1224	0.0000	SURCHARGED
240 minute summer	19	192	217.898	0.593	6.5	2.2177	0.0000	SURCHARGED
240 minute summer	8	192	217.896	1.049	15.1	16.2910	0.0000	FLOOD RISK
240 minute summer	9	196	217.442	0.687	9.6	1.4570	0.0000	SURCHARGED
240 minute summer	22	4	218.616	0.000	0.0	0.0000	0.0000	OK
240 minute summer	23	136	218.336	0.368	2.1	0.7016	0.0000	SURCHARGED
240 minute summer	24	128	217.354	0.041	4.2	0.0407	0.0000	OK
240 minute summer	25	160	217.250	1.004	8.0	4.0896	0.0000	SURCHARGED
240 minute summer	28	188	215.636	0.035	1.8	0.0401	0.0000	OK
240 minute summer	26	188	217.220	1.142	6.9	11.3441	0.0000	SURCHARGED
240 minute summer	27	188	217.220	0.726	2.1	3.3954	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	0.0	0.000	0.000	0.1657	
240 minute summer	2	1.001	3	2.3	0.182	0.116	0.4248	
240 minute summer	3	Orifice	4	3.6				
240 minute summer	4	1.003	5	6.2	0.288	0.180	1.4353	
240 minute summer	5	Orifice	6	6.0				
240 minute summer	6	1.005	7	7.8	0.613	0.227	1.1469	
240 minute summer	7	1.006	8	9.0	0.353	0.177	1.0030	
240 minute summer	13	2.000	14	2.3	0.529	0.158	0.3271	
240 minute summer	14	2.001	15	3.3	0.529	0.226	0.5573	
240 minute summer	20	3.000	21	-0.3	0.153	-0.024	0.2211	
240 minute summer	21	3.001	15	0.6	0.255	0.040	0.2363	
240 minute summer	15	2.002	16	2.6	0.409	0.178	0.7028	
240 minute summer	16	2.003	17	1.9	0.154	0.129	0.5717	
240 minute summer	17	Orifice	18	1.9				
240 minute summer	18	2.005	19	5.1	0.664	0.121	1.0970	
240 minute summer	19	2.006	8	5.0	0.300	0.096	1.8341	
240 minute summer	8	Orifice	9	8.4				
240 minute summer	9	1.008	10	8.9	0.394	0.211	0.5293	
240 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
240 minute summer	23	Orifice	24	1.5				
240 minute summer	24	4.002	25	4.2	0.724	0.163	0.5219	
240 minute summer	25	Orifice	26	5.0				
240 minute summer	28	4.005	OUTFALL2	1.8	0.463	0.050	0.0245	42.4
240 minute summer	26	Hydro-Brake®	28	1.8				
240 minute summer	27	5.001	26	-1.9	-0.109	-0.141	1.0194	

Results for 30 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	10	196	217.438	0.772	9.6	3.3050	0.0000	FLOOD RISK
240 minute summer	11	324	216.702	0.091	8.5	0.0257	0.0000	OK
240 minute summer	OUTFALL1	324	216.662	0.082	8.5	0.0000	0.0000	OK
240 minute summer	12	188	217.220	0.657	0.8	0.1860	0.0000	SURCHARGED
240 minute summer	OUTFALL2	188	215.605	0.033	1.8	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	10	Hydro-Brake®	11	8.5				
240 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	142.9
240 minute summer	12	5.000	27	-0.8	-0.095	-0.055	0.2066	

Results for 30 year 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	1	4	218.710	0.000	0.0	0.0000	0.0000	OK
240 minute winter	2	124	218.532	0.032	1.9	0.0355	0.0000	OK
240 minute winter	3	140	218.528	0.385	3.8	1.0661	0.0000	SURCHARGED
240 minute winter	4	160	218.259	0.710	7.9	5.3109	0.0000	SURCHARGED
240 minute winter	5	160	218.255	0.866	6.9	5.1170	0.0000	FLOOD RISK
240 minute winter	6	204	217.920	0.702	8.4	14.0723	0.0000	FLOOD RISK
240 minute winter	7	204	217.918	0.828	9.3	3.7092	0.0000	SURCHARGED
240 minute winter	13	172	218.820	0.156	1.7	0.1056	0.0000	SURCHARGED
240 minute winter	14	172	218.820	0.307	2.4	0.7094	0.0000	SURCHARGED
240 minute winter	20	172	218.819	0.344	0.3	0.1030	0.0000	SURCHARGED
240 minute winter	21	172	218.819	0.428	0.8	0.7334	0.0000	SURCHARGED
240 minute winter	15	176	218.819	0.517	2.9	2.5465	0.0000	SURCHARGED
240 minute winter	16	172	218.818	0.782	3.1	3.6255	0.0000	SURCHARGED
240 minute winter	17	172	218.815	0.995	2.6	4.9077	0.0000	SURCHARGED
240 minute winter	18	208	217.917	0.428	5.1	2.2675	0.0000	SURCHARGED
240 minute winter	19	208	217.917	0.612	5.7	2.3112	0.0000	SURCHARGED
240 minute winter	8	204	217.915	1.068	15.4	18.0830	0.0000	FLOOD RISK
240 minute winter	9	180	217.466	0.710	9.3	1.5200	0.0000	SURCHARGED
240 minute winter	22	4	218.616	0.000	0.0	0.0000	0.0000	OK
240 minute winter	23	140	218.279	0.311	1.6	0.5356	0.0000	SURCHARGED
240 minute winter	24	176	217.363	0.050	3.4	0.0503	0.0000	OK
240 minute winter	25	180	217.359	1.113	6.3	4.9596	0.0000	SURCHARGED
240 minute winter	28	200	215.637	0.036	1.8	0.0409	0.0000	OK
240 minute winter	26	200	217.332	1.254	5.5	12.7301	0.0000	SURCHARGED
240 minute winter	27	200	217.332	0.838	2.0	4.5834	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	0.0	0.000	0.000	0.0424	
240 minute winter	2	1.001	3	1.9	0.169	0.097	0.3066	
240 minute winter	3	Orifice	4	3.4				
240 minute winter	4	1.003	5	5.8	0.271	0.169	1.4353	
240 minute winter	5	Orifice	6	5.9				
240 minute winter	6	1.005	7	7.6	0.604	0.222	1.1469	
240 minute winter	7	1.006	8	8.8	0.327	0.173	1.0030	
240 minute winter	13	2.000	14	1.7	0.487	0.118	0.3981	
240 minute winter	14	2.001	15	2.4	0.504	0.164	0.5573	
240 minute winter	20	3.000	21	-0.2	0.153	-0.014	0.2211	
240 minute winter	21	3.001	15	0.5	0.180	0.035	0.2363	
240 minute winter	15	2.002	16	2.3	0.403	0.158	0.7028	
240 minute winter	16	2.003	17	1.6	0.178	0.111	0.5717	
240 minute winter	17	Orifice	18	1.9				
240 minute winter	18	2.005	19	4.4	0.641	0.105	1.0970	
240 minute winter	19	2.006	8	5.4	0.214	0.105	1.8341	
240 minute winter	8	Orifice	9	8.4				
240 minute winter	9	1.008	10	8.8	0.396	0.207	0.5293	
240 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
240 minute winter	23	Orifice	24	1.4				
240 minute winter	24	4.002	25	3.4	0.750	0.135	0.5506	
240 minute winter	25	Orifice	26	4.2				
240 minute winter	28	4.005	OUTFALL2	1.8	0.469	0.052	0.0253	44.0
240 minute winter	26	Hydro-Brake®	28	1.8				
240 minute winter	27	5.001	26	-1.8	-0.102	-0.132	1.0194	

Results for 30 year 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	10	180	217.461	0.795	9.3	3.5832	0.0000	FLOOD RISK
240 minute winter	11	112	216.702	0.091	8.5	0.0257	0.0000	OK
240 minute winter	OUTFALL1	112	216.662	0.082	8.5	0.0000	0.0000	OK
240 minute winter	12	200	217.332	0.768	0.4	0.2175	0.0000	FLOOD RISK
240 minute winter	OUTFALL2	200	215.605	0.034	1.8	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	10	Hydro-Brake®	11	8.5				
240 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	160.2
240 minute winter	12	5.000	27	-0.4	-0.044	-0.033	0.2066	

Results for 30 year 360 minute summer. 600 minute analysis at 8 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
360 minute summer	1	8	218.710	0.000	0.0	0.0000	0.0000	OK
360 minute summer	2	184	218.532	0.032	1.9	0.0355	0.0000	OK
360 minute summer	3	192	218.502	0.359	3.8	0.9478	0.0000	SURCHARGED
360 minute summer	4	216	218.175	0.626	7.9	4.2869	0.0000	SURCHARGED
360 minute summer	5	216	218.171	0.782	7.1	4.0862	0.0000	SURCHARGED
360 minute summer	6	248	217.893	0.675	8.4	6.7023	0.0000	FLOOD RISK
360 minute summer	7	256	217.890	0.800	8.3	3.5647	0.0000	SURCHARGED
360 minute summer	13	232	218.709	0.045	1.8	0.0306	0.0000	OK
360 minute summer	14	232	218.709	0.196	2.6	0.3699	0.0000	SURCHARGED
360 minute summer	20	232	218.709	0.234	0.3	0.0698	0.0000	SURCHARGED
360 minute summer	21	232	218.709	0.318	1.1	0.5081	0.0000	SURCHARGED
360 minute summer	15	232	218.709	0.407	2.9	1.8374	0.0000	SURCHARGED
360 minute summer	16	232	218.707	0.671	3.1	2.9813	0.0000	SURCHARGED
360 minute summer	17	232	218.705	0.885	2.7	4.2842	0.0000	SURCHARGED
360 minute summer	18	248	217.890	0.401	5.1	2.0571	0.0000	SURCHARGED
360 minute summer	19	256	217.889	0.584	5.7	2.1742	0.0000	SURCHARGED
360 minute summer	8	256	217.888	1.041	13.3	15.4874	0.0000	FLOOD RISK
360 minute summer	9	256	217.437	0.682	9.3	1.4446	0.0000	SURCHARGED
360 minute summer	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
360 minute summer	23	192	218.243	0.275	1.6	0.4402	0.0000	SURCHARGED
360 minute summer	24	184	217.350	0.037	3.4	0.0364	0.0000	OK
360 minute summer	25	240	217.214	0.968	6.4	3.8063	0.0000	SURCHARGED
360 minute summer	28	256	215.636	0.035	1.7	0.0398	0.0000	OK
360 minute summer	26	256	217.189	1.111	5.6	10.9601	0.0000	SURCHARGED
360 minute summer	27	256	217.189	0.695	1.5	3.0666	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	0.0	0.000	0.000	0.0424	
360 minute summer	2	1.001	3	1.9	0.160	0.097	0.3066	
360 minute summer	3	Orifice	4	3.3				
360 minute summer	4	1.003	5	5.6	0.245	0.163	1.4353	
360 minute summer	5	Orifice	6	5.4				
360 minute summer	6	1.005	7	7.0	0.595	0.203	1.1469	
360 minute summer	7	1.006	8	7.9	0.288	0.155	1.0030	
360 minute summer	13	2.000	14	1.8	0.491	0.123	0.2497	
360 minute summer	14	2.001	15	2.6	0.504	0.177	0.5573	
360 minute summer	20	3.000	21	-0.2	0.153	-0.017	0.2211	
360 minute summer	21	3.001	15	-0.6	0.183	-0.040	0.2363	
360 minute summer	15	2.002	16	2.3	0.392	0.159	0.7028	
360 minute summer	16	2.003	17	1.7	0.165	0.115	0.5717	
360 minute summer	17	Orifice	18	1.8				
360 minute summer	18	2.005	19	4.5	0.629	0.106	1.0970	
360 minute summer	19	2.006	8	4.4	0.231	0.086	1.8341	
360 minute summer	8	Orifice	9	8.3				
360 minute summer	9	1.008	10	8.8	0.393	0.207	0.5293	
360 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
360 minute summer	23	Orifice	24	1.3				
360 minute summer	24	4.002	25	3.4	0.747	0.133	0.5092	
360 minute summer	25	Orifice	26	4.2				
360 minute summer	28	4.005	OUTFALL2	1.7	0.462	0.049	0.0243	46.9
360 minute summer	26	Hydro-Brake®	28	1.7				
360 minute summer	27	5.001	26	-1.3	-0.086	-0.092	1.0194	

Results for 30 year 360 minute summer. 600 minute analysis at 8 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
360 minute summer	10	256	217.433	0.767	9.3	3.2521	0.0000	FLOOD RISK
360 minute summer	11	400	216.702	0.091	8.5	0.0257	0.0000	OK
360 minute summer	OUTFALL1	400	216.662	0.082	8.5	0.0000	0.0000	OK
360 minute summer	12	256	217.189	0.626	0.4	0.1772	0.0000	SURCHARGED
360 minute summer	OUTFALL2	256	215.604	0.033	1.7	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)
360 minute summer	10	Hydro-Brake®	11	8.5				
360 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.582	0.0480	159.8
360 minute summer	12	5.000	27	-0.4	-0.036	-0.029	0.2066	

Results for 30 year 360 minute winter. 600 minute analysis at 8 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
360 minute winter	1	8	218.710	0.000	0.0	0.0000	0.0000	OK
360 minute winter	2	184	218.527	0.027	1.4	0.0298	0.0000	OK
360 minute winter	3	192	218.403	0.260	2.8	0.5383	0.0000	SURCHARGED
360 minute winter	4	224	218.153	0.603	6.2	4.0074	0.0000	SURCHARGED
360 minute winter	5	224	218.149	0.760	6.2	3.9487	0.0000	SURCHARGED
360 minute winter	6	272	217.906	0.688	7.0	9.6917	0.0000	FLOOD RISK
360 minute winter	7	272	217.904	0.814	7.7	3.6344	0.0000	SURCHARGED
360 minute winter	13	248	218.759	0.095	1.3	0.0642	0.0000	OK
360 minute winter	14	248	218.759	0.246	1.8	0.5184	0.0000	SURCHARGED
360 minute winter	20	248	218.758	0.283	0.2	0.0847	0.0000	SURCHARGED
360 minute winter	21	248	218.758	0.367	0.5	0.6092	0.0000	SURCHARGED
360 minute winter	15	248	218.758	0.456	2.2	2.1542	0.0000	SURCHARGED
360 minute winter	16	248	218.757	0.721	2.5	3.2697	0.0000	SURCHARGED
360 minute winter	17	248	218.754	0.934	2.3	4.5639	0.0000	SURCHARGED
360 minute winter	18	272	217.904	0.415	4.2	2.1626	0.0000	SURCHARGED
360 minute winter	19	272	217.903	0.598	4.7	2.2442	0.0000	SURCHARGED
360 minute winter	8	272	217.902	1.055	12.5	16.7808	0.0000	FLOOD RISK
360 minute winter	9	256	217.455	0.700	9.0	1.4929	0.0000	SURCHARGED
360 minute winter	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
360 minute winter	23	200	218.183	0.214	1.2	0.2999	0.0000	SURCHARGED
360 minute winter	24	192	217.346	0.033	2.7	0.0323	0.0000	OK
360 minute winter	25	256	217.320	1.074	4.9	4.6583	0.0000	SURCHARGED
360 minute winter	28	272	215.637	0.036	1.8	0.0407	0.0000	OK
360 minute winter	26	272	217.297	1.219	4.4	12.2969	0.0000	SURCHARGED
360 minute winter	27	272	217.297	0.803	1.4	4.2129	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.0	0.000	0.000	0.0344	
360 minute winter	2	1.001	3	1.4	0.157	0.072	0.2989	
360 minute winter	3	Orifice	4	2.7				
360 minute winter	4	1.003	5	5.1	0.255	0.147	1.4353	
360 minute winter	5	Orifice	6	5.1				
360 minute winter	6	1.005	7	6.6	0.588	0.190	1.1469	
360 minute winter	7	1.006	8	7.4	0.290	0.145	1.0030	
360 minute winter	13	2.000	14	1.3	0.454	0.090	0.3322	
360 minute winter	14	2.001	15	1.8	0.459	0.125	0.5573	
360 minute winter	20	3.000	21	-0.1	0.153	-0.009	0.2211	
360 minute winter	21	3.001	15	0.4	0.181	0.028	0.2363	
360 minute winter	15	2.002	16	1.9	0.410	0.135	0.7028	
360 minute winter	16	2.003	17	1.5	0.150	0.102	0.5717	
360 minute winter	17	Orifice	18	1.9				
360 minute winter	18	2.005	19	3.8	0.614	0.091	1.0970	
360 minute winter	19	2.006	8	4.2	0.230	0.081	1.8341	
360 minute winter	8	Orifice	9	8.3				
360 minute winter	9	1.008	10	8.6	0.392	0.204	0.5293	
360 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
360 minute winter	23	Orifice	24	1.1				
360 minute winter	24	4.002	25	2.7	0.724	0.107	0.4973	
360 minute winter	25	Orifice	26	3.4				
360 minute winter	28	4.005	OUTFALL2	1.8	0.467	0.051	0.0250	53.2
360 minute winter	26	Hydro-Brake®	28	1.8				
360 minute winter	27	5.001	26	-1.2	-0.070	-0.091	1.0194	

Results for 30 year 360 minute winter. 600 minute analysis at 8 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
360 minute winter	10	256	217.451	0.785	9.0	3.4646	0.0000	FLOOD RISK
360 minute winter	11	424	216.702	0.091	8.5	0.0257	0.0000	OK
360 minute winter	OUTFALL1	424	216.662	0.082	8.5	0.0000	0.0000	OK
360 minute winter	12	272	217.297	0.734	0.3	0.2077	0.0000	SURCHARGED
360 minute winter	OUTFALL2	272	215.605	0.034	1.8	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	10	Hydro-Brake®	11	8.5				
360 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	179.0
360 minute winter	12	5.000	27	-0.3	-0.046	-0.022	0.2066	

Results for 30 year 480 minute summer. 720 minute analysis at 8 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
480 minute summer	1	8	218.710	0.000	0.0	0.0000	0.0000	OK
480 minute summer	2	248	218.528	0.028	1.5	0.0310	0.0000	OK
480 minute summer	3	256	218.412	0.269	3.0	0.5735	0.0000	SURCHARGED
480 minute summer	4	280	218.088	0.539	6.6	3.1849	0.0000	SURCHARGED
480 minute summer	5	280	218.086	0.697	6.5	3.5470	0.0000	SURCHARGED
480 minute summer	6	312	217.879	0.661	7.5	4.7257	0.0000	FLOOD RISK
480 minute summer	7	320	217.877	0.787	7.6	3.4951	0.0000	SURCHARGED
480 minute summer	13	248	218.695	0.031	1.4	0.0212	0.0000	OK
480 minute summer	14	296	218.685	0.172	2.0	0.2962	0.0000	SURCHARGED
480 minute summer	20	296	218.684	0.209	0.3	0.0625	0.0000	SURCHARGED
480 minute summer	21	296	218.684	0.293	0.6	0.4585	0.0000	SURCHARGED
480 minute summer	15	296	218.684	0.382	2.3	1.6805	0.0000	SURCHARGED
480 minute summer	16	296	218.683	0.647	2.8	2.8391	0.0000	SURCHARGED
480 minute summer	17	296	218.681	0.860	2.4	4.1458	0.0000	SURCHARGED
480 minute summer	18	320	217.877	0.388	4.5	1.9572	0.0000	SURCHARGED
480 minute summer	19	320	217.876	0.571	4.9	2.1111	0.0000	SURCHARGED
480 minute summer	8	320	217.875	1.028	11.2	14.2329	0.0000	FLOOD RISK
480 minute summer	9	328	217.428	0.673	9.1	1.4198	0.0000	SURCHARGED
480 minute summer	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
480 minute summer	23	256	218.188	0.220	1.3	0.3107	0.0000	SURCHARGED
480 minute summer	24	248	217.347	0.034	2.9	0.0336	0.0000	OK
480 minute summer	25	304	217.185	0.939	5.3	3.5870	0.0000	SURCHARGED
480 minute summer	28	320	215.636	0.035	1.7	0.0396	0.0000	OK
480 minute summer	26	320	217.164	1.086	4.8	10.6489	0.0000	SURCHARGED
480 minute summer	27	320	217.164	0.670	1.3	2.8004	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	0.0	0.000	0.000	0.0362	
480 minute summer	2	1.001	3	1.5	0.157	0.078	0.3005	
480 minute summer	3	Orifice	4	2.8				
480 minute summer	4	1.003	5	5.3	0.243	0.155	1.4353	
480 minute summer	5	Orifice	6	4.9				
480 minute summer	6	1.005	7	6.1	0.605	0.177	1.1469	
480 minute summer	7	1.006	8	6.7	0.260	0.132	1.0030	
480 minute summer	13	2.000	14	1.4	0.459	0.097	0.2195	
480 minute summer	14	2.001	15	2.0	0.484	0.138	0.5573	
480 minute summer	20	3.000	21	-0.2	0.153	-0.014	0.2211	
480 minute summer	21	3.001	15	0.4	0.175	0.028	0.2363	
480 minute summer	15	2.002	16	2.1	0.410	0.145	0.7028	
480 minute summer	16	2.003	17	1.5	0.152	0.107	0.5717	
480 minute summer	17	Orifice	18	1.8				
480 minute summer	18	2.005	19	3.9	0.620	0.091	1.0970	
480 minute summer	19	2.006	8	3.7	0.246	0.072	1.8341	
480 minute summer	8	Orifice	9	8.3				
480 minute summer	9	1.008	10	8.7	0.393	0.206	0.5293	
480 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
480 minute summer	23	Orifice	24	1.1				
480 minute summer	24	4.002	25	2.9	0.724	0.115	0.5009	
480 minute summer	25	Orifice	26	3.7				
480 minute summer	28	4.005	OUTFALL2	1.7	0.460	0.049	0.0241	51.0
480 minute summer	26	Hydro-Brake®	28	1.7				
480 minute summer	27	5.001	26	-1.1	-0.069	-0.082	1.0194	

Results for 30 year 480 minute summer. 720 minute analysis at 8 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
480 minute summer	10	328	217.425	0.759	9.1	3.1483	0.0000	FLOOD RISK
480 minute summer	11	456	216.702	0.091	8.5	0.0257	0.0000	OK
480 minute summer	OUTFALL1	456	216.662	0.082	8.5	0.0000	0.0000	OK
480 minute summer	12	320	217.164	0.601	0.3	0.1701	0.0000	SURCHARGED
480 minute summer	OUTFALL2	320	215.604	0.033	1.7	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)
480 minute summer	10	Hydro-Brake®	11	8.5				
480 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	173.8
480 minute summer	12	5.000	27	-0.3	-0.044	-0.026	0.2066	

Results for 30 year 480 minute winter. 720 minute analysis at 8 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
480 minute winter	1	8	218.710	0.000	0.0	0.0000	0.0000	OK
480 minute winter	2	240	218.524	0.024	1.1	0.0260	0.0000	OK
480 minute winter	3	264	218.321	0.178	2.2	0.2853	0.0000	SURCHARGED
480 minute winter	4	296	218.056	0.507	5.1	2.8080	0.0000	SURCHARGED
480 minute winter	5	296	218.054	0.665	5.2	3.3400	0.0000	SURCHARGED
480 minute winter	6	336	217.888	0.670	6.3	5.8539	0.0000	FLOOD RISK
480 minute winter	7	344	217.886	0.796	6.6	3.5394	0.0000	SURCHARGED
480 minute winter	13	320	218.715	0.051	1.1	0.0347	0.0000	OK
480 minute winter	14	320	218.715	0.202	1.5	0.3895	0.0000	SURCHARGED
480 minute winter	20	320	218.715	0.240	0.2	0.0717	0.0000	SURCHARGED
480 minute winter	21	320	218.715	0.324	0.4	0.5205	0.0000	SURCHARGED
480 minute winter	15	320	218.715	0.413	1.9	1.8743	0.0000	SURCHARGED
480 minute winter	16	320	218.713	0.677	2.2	3.0161	0.0000	SURCHARGED
480 minute winter	17	320	218.711	0.891	2.2	4.3174	0.0000	SURCHARGED
480 minute winter	18	336	217.886	0.397	3.8	2.0258	0.0000	SURCHARGED
480 minute winter	19	336	217.885	0.580	4.2	2.1548	0.0000	SURCHARGED
480 minute winter	8	344	217.884	1.037	10.8	15.0732	0.0000	FLOOD RISK
480 minute winter	9	328	217.442	0.687	8.8	1.4575	0.0000	SURCHARGED
480 minute winter	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
480 minute winter	23	256	218.131	0.163	1.0	0.2009	0.0000	SURCHARGED
480 minute winter	24	256	217.343	0.030	2.3	0.0293	0.0000	OK
480 minute winter	25	328	217.279	1.033	4.1	4.3175	0.0000	SURCHARGED
480 minute winter	28	344	215.637	0.036	1.8	0.0404	0.0000	OK
480 minute winter	26	344	217.257	1.179	3.8	11.8019	0.0000	SURCHARGED
480 minute winter	27	344	217.257	0.763	1.1	3.7900	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.0	0.000	0.000	0.0291	
480 minute winter	2	1.001	3	1.1	0.157	0.057	0.2937	
480 minute winter	3	Orifice	4	2.2				
480 minute winter	4	1.003	5	4.3	0.243	0.125	1.4353	
480 minute winter	5	Orifice	6	4.5				
480 minute winter	6	1.005	7	5.6	0.586	0.164	1.1469	
480 minute winter	7	1.006	8	6.4	0.267	0.125	1.0030	
480 minute winter	13	2.000	14	1.1	0.435	0.076	0.2593	
480 minute winter	14	2.001	15	1.5	0.453	0.103	0.5573	
480 minute winter	20	3.000	21	0.1	0.153	0.007	0.2211	
480 minute winter	21	3.001	15	0.4	0.174	0.027	0.2363	
480 minute winter	15	2.002	16	1.7	0.399	0.119	0.7028	
480 minute winter	16	2.003	17	1.4	0.140	0.099	0.5717	
480 minute winter	17	Orifice	18	1.8				
480 minute winter	18	2.005	19	3.4	0.615	0.081	1.0970	
480 minute winter	19	2.006	8	3.7	0.249	0.072	1.8341	
480 minute winter	8	Orifice	9	8.2				
480 minute winter	9	1.008	10	8.6	0.395	0.203	0.5293	
480 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
480 minute winter	23	Orifice	24	1.0				
480 minute winter	24	4.002	25	2.3	0.724	0.089	0.4889	
480 minute winter	25	Orifice	26	3.0				
480 minute winter	28	4.005	OUTFALL2	1.8	0.465	0.050	0.0248	58.0
480 minute winter	26	Hydro-Brake®	28	1.8				
480 minute winter	27	5.001	26	-1.0	-0.054	-0.070	1.0194	

Results for 30 year 480 minute winter. 720 minute analysis at 8 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
480 minute winter	10	328	217.438	0.772	8.9	3.3075	0.0000	FLOOD RISK
480 minute winter	11	232	216.702	0.091	8.5	0.0257	0.0000	OK
480 minute winter	OUTFALL1	232	216.662	0.082	8.5	0.0000	0.0000	OK
480 minute winter	12	344	217.257	0.694	0.2	0.1964	0.0000	SURCHARGED
480 minute winter	OUTFALL2	344	215.605	0.034	1.8	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	10	Hydro-Brake®	11	8.5				
480 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	197.0
480 minute winter	12	5.000	27	-0.2	-0.026	-0.016	0.2066	

Results for 30 year 600 minute summer. 840 minute analysis at 15 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
600 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
600 minute summer	2	315	218.526	0.026	1.3	0.0286	0.0000	OK
600 minute summer	3	315	218.369	0.226	2.6	0.4255	0.0000	SURCHARGED
600 minute summer	4	345	218.012	0.463	5.7	2.3324	0.0000	SURCHARGED
600 minute summer	5	345	218.010	0.621	5.8	3.0622	0.0000	SURCHARGED
600 minute summer	6	375	217.858	0.640	6.7	3.7212	0.0000	SURCHARGED
600 minute summer	7	375	217.856	0.766	6.7	3.3833	0.0000	SURCHARGED
600 minute summer	13	315	218.693	0.029	1.2	0.0197	0.0000	OK
600 minute summer	14	375	218.664	0.151	1.7	0.2307	0.0000	SURCHARGED
600 minute summer	20	375	218.664	0.189	0.2	0.0564	0.0000	SURCHARGED
600 minute summer	21	375	218.664	0.273	0.4	0.4168	0.0000	SURCHARGED
600 minute summer	15	375	218.664	0.362	2.1	1.5486	0.0000	SURCHARGED
600 minute summer	16	375	218.662	0.626	2.5	2.7195	0.0000	SURCHARGED
600 minute summer	17	375	218.660	0.840	2.3	4.0296	0.0000	SURCHARGED
600 minute summer	18	375	217.856	0.367	4.0	1.7875	0.0000	SURCHARGED
600 minute summer	19	375	217.855	0.550	4.7	2.0037	0.0000	SURCHARGED
600 minute summer	8	390	217.853	1.006	10.1	12.1795	0.0000	FLOOD RISK
600 minute summer	9	390	217.412	0.657	8.8	1.3753	0.0000	SURCHARGED
600 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
600 minute summer	23	315	218.149	0.181	1.1	0.2335	0.0000	SURCHARGED
600 minute summer	24	315	217.345	0.032	2.5	0.0311	0.0000	OK
600 minute summer	25	375	217.177	0.931	4.5	3.5285	0.0000	SURCHARGED
600 minute summer	28	390	215.636	0.035	1.7	0.0395	0.0000	OK
600 minute summer	26	390	217.156	1.078	4.2	10.5527	0.0000	SURCHARGED
600 minute summer	27	390	217.157	0.663	0.8	2.7186	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.0	0.000	0.000	0.0327	
600 minute summer	2	1.001	3	1.3	0.155	0.067	0.2972	
600 minute summer	3	Orifice	4	2.5				
600 minute summer	4	1.003	5	4.8	0.242	0.140	1.4353	
600 minute summer	5	Orifice	6	4.6				
600 minute summer	6	1.005	7	5.5	0.582	0.159	1.1469	
600 minute summer	7	1.006	8	6.1	0.211	0.119	1.0030	
600 minute summer	13	2.000	14	1.2	0.440	0.083	0.2156	
600 minute summer	14	2.001	15	1.7	0.459	0.118	0.5572	
600 minute summer	20	3.000	21	0.1	0.147	0.007	0.2211	
600 minute summer	21	3.001	15	0.4	0.183	0.027	0.2363	
600 minute summer	15	2.002	16	1.9	0.407	0.131	0.7028	
600 minute summer	16	2.003	17	1.5	0.124	0.104	0.5717	
600 minute summer	17	Orifice	18	1.8				
600 minute summer	18	2.005	19	3.8	0.600	0.090	1.0970	
600 minute summer	19	2.006	8	3.5	0.177	0.067	1.8341	
600 minute summer	8	Orifice	9	8.2				
600 minute summer	9	1.008	10	8.5	0.391	0.201	0.5293	
600 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
600 minute summer	23	Orifice	24	1.0				
600 minute summer	24	4.002	25	2.5	0.690	0.100	0.4938	
600 minute summer	25	Orifice	26	3.2				
600 minute summer	28	4.005	OUTFALL2	1.7	0.460	0.048	0.0240	55.3
600 minute summer	26	Hydro-Brake®	28	1.7				
600 minute summer	27	5.001	26	-0.7	0.051	-0.054	1.0194	

Results for 30 year 600 minute summer. 840 minute analysis at 15 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
600 minute summer	10	390	217.408	0.742	8.9	2.9544	0.0000	FLOOD RISK
600 minute summer	11	510	216.702	0.091	8.5	0.0257	0.0000	OK
600 minute summer	OUTFALL1	510	216.662	0.082	8.5	0.0000	0.0000	OK
600 minute summer	12	390	217.157	0.594	0.3	0.1680	0.0000	SURCHARGED
600 minute summer	OUTFALL2	390	215.604	0.033	1.7	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)
600 minute summer	10	Hydro-Brake®	11	8.5				
600 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	185.9
600 minute summer	12	5.000	27	-0.3	-0.020	-0.025	0.2066	

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
600 minute winter	2	315	218.523	0.023	1.0	0.0246	0.0000	OK
600 minute winter	3	315	218.293	0.150	2.0	0.2169	0.0000	OK
600 minute winter	4	375	217.970	0.421	4.4	1.9202	0.0000	SURCHARGED
600 minute winter	5	375	217.969	0.580	4.7	2.8001	0.0000	SURCHARGED
600 minute winter	6	405	217.853	0.635	5.7	3.6849	0.0000	SURCHARGED
600 minute winter	7	405	217.851	0.761	6.1	3.3592	0.0000	SURCHARGED
600 minute winter	13	300	218.689	0.025	0.9	0.0171	0.0000	OK
600 minute winter	14	390	218.651	0.138	1.3	0.1953	0.0000	OK
600 minute winter	20	390	218.651	0.176	0.1	0.0526	0.0000	SURCHARGED
600 minute winter	21	390	218.651	0.260	0.3	0.3907	0.0000	SURCHARGED
600 minute winter	15	390	218.651	0.349	1.8	1.4700	0.0000	SURCHARGED
600 minute winter	16	390	218.649	0.613	2.0	2.6449	0.0000	SURCHARGED
600 minute winter	17	390	218.647	0.827	2.0	3.9577	0.0000	SURCHARGED
600 minute winter	18	405	217.851	0.362	3.5	1.7529	0.0000	SURCHARGED
600 minute winter	19	405	217.851	0.546	3.9	1.9819	0.0000	SURCHARGED
600 minute winter	8	405	217.849	1.002	9.3	11.7624	0.0000	FLOOD RISK
600 minute winter	9	405	217.415	0.660	8.6	1.3839	0.0000	SURCHARGED
600 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
600 minute winter	23	330	218.083	0.115	0.8	0.1251	0.0000	OK
600 minute winter	24	330	217.341	0.028	1.9	0.0267	0.0000	OK
600 minute winter	25	405	217.228	0.982	3.4	3.9116	0.0000	SURCHARGED
600 minute winter	28	420	215.636	0.035	1.8	0.0400	0.0000	OK
600 minute winter	26	420	217.208	1.130	3.3	11.1982	0.0000	SURCHARGED
600 minute winter	27	420	217.209	0.714	0.8	3.2716	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.0	0.000	0.000	0.0272	
600 minute winter	2	1.001	3	1.0	0.155	0.052	0.2917	
600 minute winter	3	Orifice	4	2.0				
600 minute winter	4	1.003	5	3.9	0.241	0.114	1.4353	
600 minute winter	5	Orifice	6	4.1				
600 minute winter	6	1.005	7	5.2	0.584	0.150	1.1469	
600 minute winter	7	1.006	8	5.6	0.231	0.110	1.0030	
600 minute winter	13	2.000	14	0.9	0.402	0.062	0.2072	
600 minute winter	14	2.001	15	1.3	0.422	0.090	0.5475	
600 minute winter	20	3.000	21	0.1	0.153	0.007	0.2211	
600 minute winter	21	3.001	15	0.3	0.170	0.021	0.2363	
600 minute winter	15	2.002	16	1.5	0.404	0.101	0.7028	
600 minute winter	16	2.003	17	1.4	0.128	0.097	0.5717	
600 minute winter	17	Orifice	18	1.8				
600 minute winter	18	2.005	19	3.2	0.602	0.076	1.0970	
600 minute winter	19	2.006	8	3.4	0.226	0.066	1.8341	
600 minute winter	8	Orifice	9	8.1				
600 minute winter	9	1.008	10	8.5	0.390	0.200	0.5293	
600 minute winter	22	4.000	23	0.0	0.000	0.000	0.2301	
600 minute winter	23	Orifice	24	0.8				
600 minute winter	24	4.002	25	1.9	0.670	0.075	0.4815	
600 minute winter	25	Orifice	26	2.6				
600 minute winter	28	4.005	OUTFALL2	1.8	0.463	0.049	0.0244	61.5
600 minute winter	26	Hydro-Brake®	28	1.8				
600 minute winter	27	5.001	26	-0.7	-0.039	-0.051	1.0194	

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	10	405	217.411	0.745	8.8	2.9903	0.0000	FLOOD RISK
600 minute winter	11	300	216.702	0.091	8.5	0.0257	0.0000	OK
600 minute winter	OUTFALL1	300	216.662	0.082	8.5	0.0000	0.0000	OK
600 minute winter	12	420	217.209	0.645	0.2	0.1827	0.0000	SURCHARGED
600 minute winter	OUTFALL2	420	215.604	0.033	1.8	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	10	Hydro-Brake®	11	8.5				
600 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	210.8
600 minute winter	12	5.000	27	-0.2	0.016	-0.015	0.2066	

Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
720 minute summer	2	375	218.525	0.025	1.2	0.0273	0.0000	OK
720 minute summer	3	375	218.343	0.200	2.4	0.3480	0.0000	SURCHARGED
720 minute summer	4	420	217.960	0.411	5.3	1.8238	0.0000	SURCHARGED
720 minute summer	5	420	217.958	0.569	5.3	2.7322	0.0000	SURCHARGED
720 minute summer	6	450	217.834	0.616	6.4	3.5432	0.0000	SURCHARGED
720 minute summer	7	450	217.832	0.742	6.7	3.2597	0.0000	SURCHARGED
720 minute summer	13	375	218.692	0.028	1.1	0.0188	0.0000	OK
720 minute summer	14	435	218.627	0.114	1.6	0.1404	0.0000	OK
720 minute summer	20	435	218.627	0.152	0.1	0.0454	0.0000	SURCHARGED
720 minute summer	21	435	218.627	0.236	0.4	0.3420	0.0000	SURCHARGED
720 minute summer	15	435	218.627	0.325	2.1	1.3299	0.0000	SURCHARGED
720 minute summer	16	435	218.626	0.589	2.2	2.5059	0.0000	SURCHARGED
720 minute summer	17	435	218.623	0.803	2.1	3.8227	0.0000	SURCHARGED
720 minute summer	18	450	217.833	0.344	3.7	1.5977	0.0000	SURCHARGED
720 minute summer	19	450	217.832	0.527	4.4	1.8892	0.0000	SURCHARGED
720 minute summer	8	450	217.830	0.983	9.9	10.1267	0.0000	FLOOD RISK
720 minute summer	9	465	217.399	0.644	8.8	1.3426	0.0000	SURCHARGED
720 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
720 minute summer	23	375	218.122	0.154	1.0	0.1849	0.0000	SURCHARGED
720 minute summer	24	375	217.343	0.030	2.2	0.0291	0.0000	OK
720 minute summer	25	450	217.140	0.894	4.0	3.2627	0.0000	SURCHARGED
720 minute summer	28	465	215.636	0.035	1.7	0.0393	0.0000	OK
720 minute summer	26	465	217.122	1.044	3.9	10.1236	0.0000	SURCHARGED
720 minute summer	27	465	217.122	0.628	0.7	2.3492	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.0	0.000	0.000	0.0309	
720 minute summer	2	1.001	3	1.2	0.155	0.062	0.2955	
720 minute summer	3	Orifice	4	2.4				
720 minute summer	4	1.003	5	4.4	0.243	0.127	1.4353	
720 minute summer	5	Orifice	6	4.5				
720 minute summer	6	1.005	7	5.6	0.596	0.161	1.1469	
720 minute summer	7	1.006	8	6.0	0.211	0.117	1.0030	
720 minute summer	13	2.000	14	1.1	0.425	0.076	0.1777	
720 minute summer	14	2.001	15	1.6	0.454	0.111	0.5068	
720 minute summer	20	3.000	21	0.1	0.153	0.007	0.2211	
720 minute summer	21	3.001	15	0.3	0.170	0.021	0.2363	
720 minute summer	15	2.002	16	1.7	0.404	0.121	0.7028	
720 minute summer	16	2.003	17	1.4	0.124	0.098	0.5717	
720 minute summer	17	Orifice	18	1.8				
720 minute summer	18	2.005	19	3.6	0.595	0.085	1.0970	
720 minute summer	19	2.006	8	3.2	0.178	0.062	1.8341	
720 minute summer	8	Orifice	9	8.2				
720 minute summer	9	1.008	10	8.6	0.390	0.202	0.5293	
720 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
720 minute summer	23	Orifice	24	0.9				
720 minute summer	24	4.002	25	2.2	0.709	0.088	0.4883	
720 minute summer	25	Orifice	26	3.0				
720 minute summer	28	4.005	OUTFALL2	1.7	0.458	0.048	0.0238	58.5
720 minute summer	26	Hydro-Brake®	28	1.7				
720 minute summer	27	5.001	26	-0.6	-0.046	-0.048	1.0194	

Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	10	465	217.396	0.730	8.9	2.8074	0.0000	FLOOD RISK
720 minute summer	11	570	216.702	0.091	8.5	0.0257	0.0000	OK
720 minute summer	OUTFALL1	570	216.662	0.082	8.5	0.0000	0.0000	OK
720 minute summer	12	465	217.122	0.559	0.3	0.1582	0.0000	SURCHARGED
720 minute summer	OUTFALL2	465	215.604	0.033	1.7	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 summer	10	Hydro-Brake®	11	8.5				
720 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.582	0.0480	198.7
720 minute summer	12	5.000	27	-0.3	-0.016	-0.019	0.2066	

Results for 30 year 720 minute winter. 960 minute analysis at 15 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
720 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
720 minute winter	2	375	218.522	0.022	0.9	0.0232	0.0000	OK
720 minute winter	3	375	218.270	0.126	1.8	0.1691	0.0000	OK
720 minute winter	4	465	217.874	0.325	4.0	1.1361	0.0000	SURCHARGED
720 minute winter	5	465	217.873	0.484	4.3	2.1909	0.0000	SURCHARGED
720 minute winter	6	480	217.791	0.573	5.5	3.2310	0.0000	SURCHARGED
720 minute winter	7	480	217.790	0.700	5.8	3.0369	0.0000	SURCHARGED
720 minute winter	13	360	218.688	0.024	0.8	0.0161	0.0000	OK
720 minute winter	14	450	218.593	0.079	1.1	0.0783	0.0000	OK
720 minute winter	20	450	218.592	0.117	0.1	0.0350	0.0000	OK
720 minute winter	21	450	218.592	0.201	0.3	0.2765	0.0000	SURCHARGED
720 minute winter	15	450	218.592	0.290	1.5	1.1280	0.0000	SURCHARGED
720 minute winter	16	450	218.591	0.555	1.8	2.3025	0.0000	SURCHARGED
720 minute winter	17	450	218.589	0.769	1.9	3.6257	0.0000	SURCHARGED
720 minute winter	18	480	217.791	0.301	3.2	1.2472	0.0000	SURCHARGED
720 minute winter	19	480	217.790	0.485	3.7	1.6793	0.0000	SURCHARGED
720 minute winter	8	480	217.788	0.941	9.0	8.1264	0.0000	SURCHARGED
720 minute winter	9	495	217.370	0.615	8.6	1.2625	0.0000	SURCHARGED
720 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
720 minute winter	23	405	218.060	0.092	0.7	0.0960	0.0000	OK
720 minute winter	24	390	217.339	0.026	1.7	0.0252	0.0000	OK
720 minute winter	25	495	217.175	0.929	3.1	3.5172	0.0000	SURCHARGED
720 minute winter	28	495	215.636	0.035	1.7	0.0396	0.0000	OK
720 minute winter	26	495	217.159	1.081	3.0	10.5862	0.0000	SURCHARGED
720 minute winter	27	495	217.159	0.665	0.6	2.7457	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.0	0.000	0.000	0.0252	
720 minute winter	2	1.001	3	0.9	0.155	0.047	0.2635	
720 minute winter	3	Orifice	4	1.8				
720 minute winter	4	1.003	5	3.6	0.239	0.104	1.4353	
720 minute winter	5	Orifice	6	4.1				
720 minute winter	6	1.005	7	5.0	0.567	0.146	1.1469	
720 minute winter	7	1.006	8	5.5	0.210	0.107	1.0030	
720 minute winter	13	2.000	14	0.8	0.395	0.055	0.1218	
720 minute winter	14	2.001	15	1.1	0.420	0.076	0.4286	
720 minute winter	20	3.000	21	0.1	0.153	0.007	0.2031	
720 minute winter	21	3.001	15	0.3	0.170	0.021	0.2363	
720 minute winter	15	2.002	16	1.4	0.386	0.094	0.7028	
720 minute winter	16	2.003	17	1.4	0.123	0.095	0.5717	
720 minute winter	17	Orifice	18	1.7				
720 minute winter	18	2.005	19	3.1	0.597	0.074	1.0970	
720 minute winter	19	2.006	8	3.1	0.164	0.060	1.8341	
720 minute winter	8	Orifice	9	8.2				
720 minute winter	9	1.008	10	8.5	0.390	0.201	0.5293	
720 minute winter	22	4.000	23	0.0	0.000	0.000	0.1812	
720 minute winter	23	Orifice	24	0.7				
720 minute winter	24	4.002	25	1.7	0.698	0.067	0.4775	
720 minute winter	25	Orifice	26	2.4				
720 minute winter	28	4.005	OUTFALL2	1.7	0.460	0.048	0.0241	64.8
720 minute winter	26	Hydro-Brake®	28	1.7				
720 minute winter	27	5.001	26	-0.5	0.041	-0.039	1.0194	

Results for 30 year 720 minute winter. 960 minute analysis at 15 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
720 minute winter	10	495	217.367	0.700	8.7	2.4646	0.0000	FLOOD RISK
720 minute winter	11	375	216.702	0.091	8.5	0.0257	0.0000	OK
720 minute winter	OUTFALL1	375	216.662	0.082	8.5	0.0000	0.0000	OK
720 minute winter	12	495	217.159	0.596	0.2	0.1687	0.0000	SURCHARGED
720 minute winter	OUTFALL2	495	215.604	0.033	1.7	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	10	Hydro-Brake®	11	8.5				
720 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	223.7
720 minute winter	12	5.000	27	-0.2	0.018	-0.016	0.2066	

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
960 minute summer	2	495	218.523	0.023	1.0	0.0246	0.0000	OK
960 minute summer	3	495	218.293	0.150	2.0	0.2166	0.0000	OK
960 minute summer	4	540	217.814	0.265	4.4	0.7533	0.0000	SURCHARGED
960 minute summer	5	540	217.812	0.423	4.7	1.8037	0.0000	SURCHARGED
960 minute summer	6	570	217.712	0.494	5.8	2.6498	0.0000	SURCHARGED
960 minute summer	7	570	217.710	0.620	6.1	2.6202	0.0000	SURCHARGED
960 minute summer	13	495	218.689	0.025	0.9	0.0171	0.0000	OK
960 minute summer	14	555	218.575	0.062	1.3	0.0539	0.0000	OK
960 minute summer	20	555	218.575	0.100	0.1	0.0298	0.0000	OK
960 minute summer	21	555	218.575	0.184	0.3	0.2453	0.0000	SURCHARGED
960 minute summer	15	555	218.575	0.273	1.8	1.0280	0.0000	SURCHARGED
960 minute summer	16	555	218.573	0.537	1.8	2.2013	0.0000	SURCHARGED
960 minute summer	17	555	218.571	0.751	2.0	3.5274	0.0000	SURCHARGED
960 minute summer	18	570	217.711	0.222	3.4	0.7089	0.0000	OK
960 minute summer	19	570	217.710	0.405	4.0	1.2834	0.0000	SURCHARGED
960 minute summer	8	570	217.708	0.861	9.4	7.1820	0.0000	SURCHARGED
960 minute summer	9	585	217.241	0.486	8.7	0.9159	0.0000	SURCHARGED
960 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
960 minute summer	23	495	218.077	0.109	0.8	0.1179	0.0000	OK
960 minute summer	24	495	217.341	0.028	1.9	0.0265	0.0000	OK
960 minute summer	25	585	217.076	0.830	3.4	2.8255	0.0000	SURCHARGED
960 minute summer	28	600	215.635	0.034	1.7	0.0387	0.0000	OK
960 minute summer	26	600	217.060	0.982	3.3	9.3496	0.0000	SURCHARGED
960 minute summer	27	600	217.060	0.566	0.6	1.6860	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.0	0.000	0.000	0.0272	
960 minute summer	2	1.001	3	1.0	0.155	0.052	0.2917	
960 minute summer	3	Orifice	4	2.0				
960 minute summer	4	1.003	5	3.9	0.241	0.113	1.4353	
960 minute summer	5	Orifice	6	4.2				
960 minute summer	6	1.005	7	5.2	0.584	0.151	1.1469	
960 minute summer	7	1.006	8	5.6	0.205	0.109	1.0030	
960 minute summer	13	2.000	14	0.9	0.402	0.062	0.0926	
960 minute summer	14	2.001	15	1.3	0.420	0.090	0.3876	
960 minute summer	20	3.000	21	0.1	0.153	0.007	0.1886	
960 minute summer	21	3.001	15	0.3	0.170	0.021	0.2363	
960 minute summer	15	2.002	16	1.4	0.404	0.094	0.7028	
960 minute summer	16	2.003	17	1.3	0.118	0.091	0.5717	
960 minute summer	17	Orifice	18	1.7				
960 minute summer	18	2.005	19	3.3	0.596	0.078	1.0949	
960 minute summer	19	2.006	8	3.4	0.184	0.066	1.8341	
960 minute summer	8	Orifice	9	8.2				
960 minute summer	9	1.008	10	8.5	0.390	0.201	0.5293	
960 minute summer	22	4.000	23	0.0	0.000	0.000	0.2191	
960 minute summer	23	Orifice	24	0.8				
960 minute summer	24	4.002	25	1.9	0.670	0.074	0.4811	
960 minute summer	25	Orifice	26	2.6				
960 minute summer	28	4.005	OUTFALL2	1.7	0.454	0.046	0.0233	64.2
960 minute summer	26	Hydro-Brake®	28	1.7				
960 minute summer	27	5.001	26	-0.5	-0.031	-0.040	1.0194	

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	10	585	217.237	0.571	8.8	1.6862	0.0000	SURCHARGED
960 minute summer	11	495	216.702	0.091	8.5	0.0257	0.0000	OK
960 minute summer	OUTFALL1	495	216.662	0.082	8.5	0.0000	0.0000	OK
960 minute summer	12	600	217.060	0.497	0.2	0.1405	0.0000	SURCHARGED
960 minute summer	OUTFALL2	600	215.603	0.032	1.7	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)
960 minute summer	10	Hydro-Brake®	11	8.5				
960 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	219.8
960 minute summer	12	5.000	27	-0.2	-0.017	-0.018	0.2066	

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
960 minute winter	2	465	218.520	0.020	0.7	0.0202	0.0000	OK
960 minute winter	3	525	218.231	0.087	1.4	0.1032	0.0000	OK
960 minute winter	4	555	217.650	0.101	3.2	0.1608	0.0000	OK
960 minute winter	5	555	217.649	0.260	3.8	0.8910	0.0000	SURCHARGED
960 minute winter	6	570	217.551	0.333	5.0	1.5170	0.0000	SURCHARGED
960 minute winter	7	570	217.549	0.459	5.3	1.7713	0.0000	SURCHARGED
960 minute winter	13	480	218.686	0.022	0.7	0.0151	0.0000	OK
960 minute winter	14	480	218.540	0.027	1.0	0.0165	0.0000	OK
960 minute winter	20	570	218.526	0.051	0.1	0.0151	0.0000	OK
960 minute winter	21	570	218.526	0.134	0.3	0.1613	0.0000	OK
960 minute winter	15	570	218.526	0.224	1.4	0.7465	0.0000	SURCHARGED
960 minute winter	16	570	218.524	0.488	1.6	1.9161	0.0000	SURCHARGED
960 minute winter	17	570	218.522	0.702	1.8	3.2514	0.0000	SURCHARGED
960 minute winter	18	570	217.549	0.060	2.9	0.1184	0.0000	OK
960 minute winter	19	570	217.548	0.243	3.4	0.6088	0.0000	SURCHARGED
960 minute winter	8	570	217.546	0.699	8.5	5.2697	0.0000	SURCHARGED
960 minute winter	9	585	217.030	0.275	8.5	0.4049	0.0000	SURCHARGED
960 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
960 minute winter	23	540	218.041	0.073	0.6	0.0722	0.0000	OK
960 minute winter	24	525	217.337	0.024	1.4	0.0228	0.0000	OK
960 minute winter	25	630	217.088	0.842	2.5	2.9081	0.0000	SURCHARGED
960 minute winter	28	630	215.635	0.034	1.7	0.0388	0.0000	OK
960 minute winter	26	630	217.073	0.995	2.6	9.5094	0.0000	SURCHARGED
960 minute winter	27	630	217.073	0.579	0.5	1.8238	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.0	0.000	0.000	0.0212	
960 minute winter	2	1.001	3	0.7	0.155	0.036	0.1813	
960 minute winter	3	Orifice	4	1.4				
960 minute winter	4	1.003	5	3.2	0.245	0.093	1.0286	
960 minute winter	5	Orifice	6	3.8				
960 minute winter	6	1.005	7	4.6	0.569	0.134	1.1469	
960 minute winter	7	1.006	8	5.1	0.299	0.100	1.0030	
960 minute winter	13	2.000	14	0.7	0.374	0.048	0.0424	
960 minute winter	14	2.001	15	1.0	0.413	0.069	0.3121	
960 minute winter	20	3.000	21	0.1	0.153	0.007	0.1373	
960 minute winter	21	3.001	15	0.3	0.141	0.021	0.2299	
960 minute winter	15	2.002	16	1.2	0.404	0.082	0.7028	
960 minute winter	16	2.003	17	1.3	0.121	0.089	0.5717	
960 minute winter	17	Orifice	18	1.7				
960 minute winter	18	2.005	19	2.9	0.597	0.068	0.6645	
960 minute winter	19	2.006	8	3.1	0.182	0.061	1.8341	
960 minute winter	8	Orifice	9	8.1				
960 minute winter	9	1.008	10	8.4	0.390	0.198	0.5293	
960 minute winter	22	4.000	23	0.0	0.000	0.000	0.1343	
960 minute winter	23	Orifice	24	0.6				
960 minute winter	24	4.002	25	1.4	0.677	0.055	0.4711	
960 minute winter	25	Orifice	26	2.1				
960 minute winter	28	4.005	OUTFALL2	1.7	0.455	0.047	0.0234	71.0
960 minute winter	26	Hydro-Brake®	28	1.7				
960 minute winter	27	5.001	26	-0.4	-0.028	-0.031	1.0194	

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	10	585	217.025	0.359	8.6	0.9668	0.0000	SURCHARGED
960 minute winter	11	525	216.702	0.091	8.5	0.0257	0.0000	OK
960 minute winter	OUTFALL1	525	216.662	0.082	8.5	0.0000	0.0000	OK
960 minute winter	12	630	217.073	0.510	0.2	0.1442	0.0000	SURCHARGED
960 minute winter	OUTFALL2	630	215.603	0.032	1.7	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)
960 minute winter	10	Hydro-Brake®	11	8.5				
960 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	245.6
960 minute winter	12	5.000	27	-0.2	-0.033	-0.012	0.2066	

Results for 30 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	30	218.710	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	2	750	218.520	0.020	0.7	0.0202	0.0000	OK
1440 minute summer	3	750	218.231	0.087	1.4	0.1032	0.0000	OK
1440 minute summer	4	780	217.600	0.051	3.3	0.0775	0.0000	OK
1440 minute summer	5	780	217.598	0.209	3.9	0.6327	0.0000	OK
1440 minute summer	6	810	217.492	0.274	4.9	1.1616	0.0000	SURCHARGED
1440 minute summer	7	810	217.490	0.400	5.3	1.4652	0.0000	SURCHARGED
1440 minute summer	13	750	218.686	0.022	0.7	0.0151	0.0000	OK
1440 minute summer	14	750	218.540	0.027	1.0	0.0165	0.0000	OK
1440 minute summer	20	810	218.495	0.020	0.1	0.0060	0.0000	OK
1440 minute summer	21	810	218.495	0.104	0.3	0.1131	0.0000	OK
1440 minute summer	15	810	218.495	0.193	1.4	0.5713	0.0000	SURCHARGED
1440 minute summer	16	810	218.494	0.458	1.5	1.7398	0.0000	SURCHARGED
1440 minute summer	17	810	218.492	0.672	1.8	3.0802	0.0000	SURCHARGED
1440 minute summer	18	750	217.529	0.040	2.9	0.0732	0.0000	OK
1440 minute summer	19	810	217.489	0.184	3.4	0.3720	0.0000	OK
1440 minute summer	8	810	217.488	0.641	8.6	4.6130	0.0000	SURCHARGED
1440 minute summer	9	810	216.966	0.211	8.4	0.3031	0.0000	OK
1440 minute summer	22	30	218.616	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	23	750	218.040	0.072	0.6	0.0719	0.0000	OK
1440 minute summer	24	750	217.337	0.024	1.4	0.0228	0.0000	OK
1440 minute summer	25	870	217.001	0.755	2.6	2.3584	0.0000	SURCHARGED
1440 minute summer	28	870	215.635	0.034	1.6	0.0380	0.0000	OK
1440 minute summer	26	870	216.988	0.910	2.8	8.4579	0.0000	SURCHARGED
1440 minute summer	27	870	216.988	0.494	0.5	0.9713	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.0	0.000	0.000	0.0212	
1440 minute summer	2	1.001	3	0.7	0.152	0.036	0.1813	
1440 minute summer	3	Orifice	4	1.4				
1440 minute summer	4	1.003	5	3.3	0.234	0.096	0.8161	
1440 minute summer	5	Orifice	6	3.7				
1440 minute summer	6	1.005	7	4.6	0.566	0.133	1.1469	
1440 minute summer	7	1.006	8	5.1	0.220	0.100	1.0030	
1440 minute summer	13	2.000	14	0.7	0.374	0.048	0.0424	
1440 minute summer	14	2.001	15	1.0	0.395	0.069	0.3074	
1440 minute summer	20	3.000	21	0.1	0.150	0.007	0.0909	
1440 minute summer	21	3.001	15	0.3	0.141	0.020	0.2058	
1440 minute summer	15	2.002	16	1.1	0.366	0.075	0.7028	
1440 minute summer	16	2.003	17	1.2	0.124	0.086	0.5717	
1440 minute summer	17	Orifice	18	1.6				
1440 minute summer	18	2.005	19	2.9	0.596	0.069	0.5397	
1440 minute summer	19	2.006	8	3.1	0.164	0.059	1.7195	
1440 minute summer	8	Orifice	9	8.1				
1440 minute summer	9	1.008	10	8.3	0.393	0.197	0.5219	
1440 minute summer	22	4.000	23	0.0	0.000	0.000	0.1336	
1440 minute summer	23	Orifice	24	0.6				
1440 minute summer	24	4.002	25	1.4	0.672	0.055	0.4710	
1440 minute summer	25	Orifice	26	2.2				
1440 minute summer	28	4.005	OUTFALL2	1.6	0.450	0.045	0.0228	77.0
1440 minute summer	26	Hydro-Brake®	28	1.6				
1440 minute summer	27	5.001	26	-0.4	-0.028	-0.032	1.0194	

Results for 30 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	10	810	216.961	0.295	8.5	0.7534	0.0000	SURCHARGED
1440 minute summer	11	810	216.702	0.091	8.5	0.0257	0.0000	OK
1440 minute summer	OUTFALL1	810	216.662	0.082	8.5	0.0000	0.0000	OK
1440 minute summer	12	870	216.988	0.425	0.1	0.1202	0.0000	SURCHARGED
1440 minute summer	OUTFALL2	870	215.603	0.032	1.6	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	10	Hydro-Brake®	11	8.5				
1440 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	258.4
1440 minute summer	12	5.000	27	-0.1	-0.019	-0.008	0.2066	

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	30	218.710	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	2	750	218.518	0.018	0.6	0.0185	0.0000	OK
1440 minute winter	3	750	218.214	0.071	1.2	0.0796	0.0000	OK
1440 minute winter	4	750	217.591	0.042	2.6	0.0634	0.0000	OK
1440 minute winter	5	750	217.514	0.125	3.0	0.2673	0.0000	OK
1440 minute winter	6	780	217.325	0.107	3.9	0.2714	0.0000	OK
1440 minute winter	7	780	217.324	0.234	4.3	0.6831	0.0000	SURCHARGED
1440 minute winter	13	690	218.683	0.019	0.5	0.0129	0.0000	OK
1440 minute winter	14	690	218.535	0.022	0.7	0.0131	0.0000	OK
1440 minute winter	20	30	218.475	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	21	480	218.400	0.009	0.1	0.0038	0.0000	OK
1440 minute winter	15	840	218.362	0.060	0.9	0.0740	0.0000	OK
1440 minute winter	16	840	218.361	0.325	1.2	1.0305	0.0000	SURCHARGED
1440 minute winter	17	840	218.359	0.539	1.5	2.3274	0.0000	SURCHARGED
1440 minute winter	18	780	217.526	0.037	2.4	0.0669	0.0000	OK
1440 minute winter	19	780	217.341	0.036	2.8	0.0339	0.0000	OK
1440 minute winter	8	780	217.322	0.475	7.4	2.8802	0.0000	SURCHARGED
1440 minute winter	9	780	216.847	0.092	7.7	0.1093	0.0000	OK
1440 minute winter	22	30	218.616	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	23	780	218.024	0.056	0.5	0.0534	0.0000	OK
1440 minute winter	24	780	217.334	0.021	1.1	0.0201	0.0000	OK
1440 minute winter	25	930	216.925	0.679	2.0	1.9233	0.0000	SURCHARGED
1440 minute winter	28	630	215.634	0.033	1.6	0.0376	0.0000	OK
1440 minute winter	26	930	216.912	0.834	2.2	7.5127	0.0000	SURCHARGED
1440 minute winter	27	930	216.912	0.418	0.3	0.7946	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.0	0.000	0.000	0.0190	
1440 minute winter	2	1.001	3	0.6	0.152	0.031	0.1426	
1440 minute winter	3	Orifice	4	1.2				
1440 minute winter	4	1.003	5	2.6	0.235	0.075	0.5009	
1440 minute winter	5	Orifice	6	3.0				
1440 minute winter	6	1.005	7	3.8	0.569	0.111	0.8406	
1440 minute winter	7	1.006	8	4.2	0.248	0.083	1.0030	
1440 minute winter	13	2.000	14	0.5	0.341	0.035	0.0332	
1440 minute winter	14	2.001	15	0.7	0.389	0.048	0.1285	
1440 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
1440 minute winter	21	3.001	15	0.1	0.135	0.007	0.0466	
1440 minute winter	15	2.002	16	0.9	0.367	0.062	0.4814	
1440 minute winter	16	2.003	17	1.1	0.213	0.077	0.5717	
1440 minute winter	17	Orifice	18	1.5				
1440 minute winter	18	2.005	19	2.4	0.588	0.057	0.1137	
1440 minute winter	19	2.006	8	2.8	0.143	0.055	1.0094	
1440 minute winter	8	Orifice	9	7.4				
1440 minute winter	9	1.008	10	7.7	0.391	0.181	0.3266	
1440 minute winter	22	4.000	23	0.0	0.000	0.000	0.0948	
1440 minute winter	23	Orifice	24	0.5				
1440 minute winter	24	4.002	25	1.1	0.672	0.043	0.4643	
1440 minute winter	25	Orifice	26	1.8				
1440 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	84.4
1440 minute winter	26	Hydro-Brake®	28	1.6				
1440 minute winter	27	5.001	26	0.3	0.029	0.020	1.0194	

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	10	780	216.845	0.179	7.9	0.4170	0.0000	SURCHARGED
1440 minute winter	11	780	216.697	0.086	7.9	0.0244	0.0000	OK
1440 minute winter	OUTFALL1	780	216.658	0.078	7.9	0.0000	0.0000	OK
1440 minute winter	12	930	216.912	0.349	0.1	0.0987	0.0000	SURCHARGED
1440 minute winter	OUTFALL2	630	215.603	0.031	1.6	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	10	Hydro-Brake®	11	7.9				
1440 minute winter	11	1.010	OUTFALL1	7.9	0.796	0.539	0.0452	288.8
1440 minute winter	12	5.000	27	-0.1	-0.015	-0.007	0.2066	

Results for 30 year 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	2	1140	218.518	0.018	0.6	0.0185	0.0000	OK
2160 minute summer	3	1140	218.214	0.071	1.2	0.0796	0.0000	OK
2160 minute summer	4	1140	217.591	0.042	2.6	0.0634	0.0000	OK
2160 minute summer	5	1140	217.515	0.126	3.0	0.2678	0.0000	OK
2160 minute summer	6	1140	217.320	0.102	4.0	0.2553	0.0000	OK
2160 minute summer	7	1140	217.319	0.229	4.4	0.6637	0.0000	SURCHARGED
2160 minute summer	13	1140	218.683	0.019	0.5	0.0129	0.0000	OK
2160 minute summer	14	1140	218.535	0.022	0.7	0.0131	0.0000	OK
2160 minute summer	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	21	960	218.400	0.009	0.1	0.0038	0.0000	OK
2160 minute summer	15	1200	218.333	0.031	0.9	0.0256	0.0000	OK
2160 minute summer	16	1200	218.332	0.296	1.2	0.8846	0.0000	SURCHARGED
2160 minute summer	17	1200	218.330	0.510	1.5	2.1625	0.0000	SURCHARGED
2160 minute summer	18	1140	217.526	0.037	2.4	0.0661	0.0000	OK
2160 minute summer	19	1140	217.340	0.035	2.8	0.0336	0.0000	OK
2160 minute summer	8	1140	217.317	0.470	7.5	2.8256	0.0000	SURCHARGED
2160 minute summer	9	1140	216.845	0.090	7.6	0.1067	0.0000	OK
2160 minute summer	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	23	1140	218.024	0.056	0.5	0.0534	0.0000	OK
2160 minute summer	24	1140	217.335	0.022	1.2	0.0210	0.0000	OK
2160 minute summer	25	1260	216.839	0.593	2.1	1.4874	0.0000	SURCHARGED
2160 minute summer	28	1020	215.634	0.033	1.6	0.0375	0.0000	OK
2160 minute summer	26	1260	216.827	0.749	2.3	6.4564	0.0000	SURCHARGED
2160 minute summer	27	1260	216.827	0.333	0.2	0.6073	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	1	1.000	2	0.0	0.000	0.000	0.0190	
2160 minute summer	2	1.001	3	0.6	0.151	0.031	0.1426	
2160 minute summer	3	Orifice	4	1.2				
2160 minute summer	4	1.003	5	2.6	0.233	0.075	0.5015	
2160 minute summer	5	Orifice	6	3.0				
2160 minute summer	6	1.005	7	3.9	0.574	0.113	0.8261	
2160 minute summer	7	1.006	8	4.3	0.232	0.085	1.0030	
2160 minute summer	13	2.000	14	0.5	0.341	0.035	0.0332	
2160 minute summer	14	2.001	15	0.7	0.389	0.048	0.0644	
2160 minute summer	20	3.000	21	0.0	0.000	0.000	0.0027	
2160 minute summer	21	3.001	15	0.1	0.133	0.007	0.0202	
2160 minute summer	15	2.002	16	0.9	0.365	0.062	0.4031	
2160 minute summer	16	2.003	17	1.1	0.144	0.077	0.5717	
2160 minute summer	17	Orifice	18	1.4				
2160 minute summer	18	2.005	19	2.4	0.585	0.056	0.1123	
2160 minute summer	19	2.006	8	2.8	0.149	0.054	1.0083	
2160 minute summer	8	Orifice	9	7.3				
2160 minute summer	9	1.008	10	7.6	0.392	0.180	0.3226	
2160 minute summer	22	4.000	23	0.0	0.000	0.000	0.0948	
2160 minute summer	23	Orifice	24	0.5				
2160 minute summer	24	4.002	25	1.2	0.675	0.047	0.4666	
2160 minute summer	25	Orifice	26	1.8				
2160 minute summer	28	4.005	OUTFALL2	1.5	0.445	0.043	0.0223	90.0
2160 minute summer	26	Hydro-Brake®	28	1.6				
2160 minute summer	27	5.001	26	0.2	0.010	0.013	1.0194	

Results for 30 year 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	10	1140	216.844	0.177	7.8	0.4130	0.0000	SURCHARGED
2160 minute summer	11	1140	216.697	0.086	7.8	0.0243	0.0000	OK
2160 minute summer	OUTFALL1	1140	216.658	0.078	7.8	0.0000	0.0000	OK
2160 minute summer	12	1260	216.827	0.264	0.1	0.0746	0.0000	SURCHARGED
2160 minute summer	OUTFALL2	1020	215.602	0.031	1.5	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)
2160 minute summer	10	Hydro-Brake®	11	7.8				
2160 minute summer	11	1.010	OUTFALL1	7.8	0.794	0.535	0.0449	294.1
2160 minute summer	12	5.000	27	-0.1	-0.006	-0.007	0.2066	

Results for 30 year 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	2	1020	218.515	0.015	0.4	0.0149	0.0000	OK
2160 minute winter	3	1020	218.191	0.048	0.8	0.0490	0.0000	OK
2160 minute winter	4	1140	217.585	0.036	1.9	0.0544	0.0000	OK
2160 minute winter	5	1140	217.473	0.083	2.2	0.1421	0.0000	OK
2160 minute winter	6	1020	217.262	0.044	2.9	0.0820	0.0000	OK
2160 minute winter	7	1200	217.170	0.080	3.3	0.1345	0.0000	OK
2160 minute winter	13	1080	218.681	0.017	0.4	0.0116	0.0000	OK
2160 minute winter	14	1080	218.534	0.021	0.6	0.0119	0.0000	OK
2160 minute winter	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	21	840	218.400	0.009	0.1	0.0038	0.0000	OK
2160 minute winter	15	1080	218.326	0.024	0.8	0.0175	0.0000	OK
2160 minute winter	16	1200	218.260	0.224	1.1	0.5185	0.0000	SURCHARGED
2160 minute winter	17	1200	218.259	0.439	1.3	1.7607	0.0000	SURCHARGED
2160 minute winter	18	1200	217.524	0.035	2.1	0.0618	0.0000	OK
2160 minute winter	19	1200	217.338	0.033	2.4	0.0307	0.0000	OK
2160 minute winter	8	1200	217.169	0.322	6.0	1.4141	0.0000	SURCHARGED
2160 minute winter	9	1200	216.813	0.057	6.1	0.0565	0.0000	OK
2160 minute winter	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	23	1140	218.010	0.042	0.4	0.0389	0.0000	OK
2160 minute winter	24	1140	217.332	0.019	0.9	0.0182	0.0000	OK
2160 minute winter	25	1320	216.666	0.420	1.6	0.7815	0.0000	SURCHARGED
2160 minute winter	28	1020	215.634	0.033	1.6	0.0376	0.0000	OK
2160 minute winter	26	1320	216.654	0.576	1.9	4.3081	0.0000	SURCHARGED
2160 minute winter	27	1320	216.654	0.160	0.2	0.2377	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	1	1.000	2	0.0	0.000	0.000	0.0143	
2160 minute winter	2	1.001	3	0.4	0.151	0.021	0.0864	
2160 minute winter	3	Orifice	4	0.8				
2160 minute winter	4	1.003	5	1.9	0.233	0.055	0.3142	
2160 minute winter	5	Orifice	6	2.2				
2160 minute winter	6	1.005	7	2.9	0.550	0.084	0.2571	
2160 minute winter	7	1.006	8	3.3	0.233	0.064	0.6595	
2160 minute winter	13	2.000	14	0.4	0.311	0.028	0.0292	
2160 minute winter	14	2.001	15	0.6	0.367	0.042	0.0519	
2160 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
2160 minute winter	21	3.001	15	0.1	0.134	0.007	0.0150	
2160 minute winter	15	2.002	16	0.8	0.366	0.055	0.3874	
2160 minute winter	16	2.003	17	1.0	0.114	0.072	0.5717	
2160 minute winter	17	Orifice	18	1.3				
2160 minute winter	18	2.005	19	2.1	0.568	0.050	0.1023	
2160 minute winter	19	2.006	8	2.4	0.142	0.046	0.9996	
2160 minute winter	8	Orifice	9	5.9				
2160 minute winter	9	1.008	10	6.1	0.388	0.145	0.2242	
2160 minute winter	22	4.000	23	0.0	0.000	0.000	0.0641	
2160 minute winter	23	Orifice	24	0.4				
2160 minute winter	24	4.002	25	0.9	0.628	0.035	0.4594	
2160 minute winter	25	Orifice	26	1.5				
2160 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	99.5
2160 minute winter	26	Hydro-Brake®	28	1.6				
2160 minute winter	27	5.001	26	0.2	0.020	0.013	1.0194	

Results for 30 year 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	10	1200	216.805	0.139	6.2	0.3137	0.0000	OK
2160 minute winter	11	1200	216.686	0.075	6.2	0.0212	0.0000	OK
2160 minute winter	OUTFALL1	1200	216.648	0.068	6.2	0.0000	0.0000	OK
2160 minute winter	12	1320	216.654	0.091	0.0	0.0257	0.0000	OK
2160 minute winter	OUTFALL2	1020	215.603	0.031	1.6	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)
2160 minute winter	10	Hydro-Brake®	11	6.2				
2160 minute winter	11	1.010	OUTFALL1	6.2	0.753	0.428	0.0379	341.9
2160 minute winter	12	5.000	27	0.0	-0.005	-0.003	0.1689	

Results for 30 year 2880 minute summer. 3120 minute analysis at 60 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
2880 minute summer	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	2	1500	218.517	0.017	0.5	0.0168	0.0000	OK
2880 minute summer	3	1500	218.200	0.057	1.0	0.0611	0.0000	OK
2880 minute summer	4	1500	217.587	0.038	2.2	0.0585	0.0000	OK
2880 minute summer	5	1500	217.492	0.103	2.6	0.1957	0.0000	OK
2880 minute summer	6	1500	217.265	0.047	3.4	0.0906	0.0000	OK
2880 minute summer	7	1500	217.246	0.156	3.9	0.3862	0.0000	OK
2880 minute summer	13	1500	218.683	0.019	0.5	0.0129	0.0000	OK
2880 minute summer	14	1500	218.535	0.022	0.7	0.0131	0.0000	OK
2880 minute summer	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	21	1260	218.400	0.009	0.1	0.0038	0.0000	OK
2880 minute summer	15	1560	218.327	0.025	0.9	0.0191	0.0000	OK
2880 minute summer	16	1560	218.326	0.290	1.2	0.8561	0.0000	SURCHARGED
2880 minute summer	17	1560	218.325	0.505	1.5	2.1322	0.0000	SURCHARGED
2880 minute summer	18	1500	217.525	0.036	2.3	0.0644	0.0000	OK
2880 minute summer	19	1500	217.340	0.035	2.7	0.0328	0.0000	OK
2880 minute summer	8	1500	217.244	0.397	6.8	2.0830	0.0000	SURCHARGED
2880 minute summer	9	1560	216.824	0.069	6.9	0.0722	0.0000	OK
2880 minute summer	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	23	1500	218.010	0.042	0.4	0.0389	0.0000	OK
2880 minute summer	24	1500	217.333	0.020	1.0	0.0192	0.0000	OK
2880 minute summer	25	1620	216.713	0.467	1.8	0.9500	0.0000	SURCHARGED
2880 minute summer	28	1440	215.634	0.033	1.5	0.0374	0.0000	OK
2880 minute summer	26	1620	216.701	0.623	2.1	4.8942	0.0000	SURCHARGED
2880 minute summer	27	1620	216.701	0.207	0.3	0.3320	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	1	1.000	2	0.0	0.000	0.000	0.0168	
2880 minute summer	2	1.001	3	0.5	0.151	0.026	0.1096	
2880 minute summer	3	Orifice	4	1.0				
2880 minute summer	4	1.003	5	2.2	0.232	0.064	0.3997	
2880 minute summer	5	Orifice	6	2.6				
2880 minute summer	6	1.005	7	3.4	0.563	0.099	0.5097	
2880 minute summer	7	1.006	8	3.8	0.232	0.075	0.8708	
2880 minute summer	13	2.000	14	0.5	0.341	0.035	0.0332	
2880 minute summer	14	2.001	15	0.7	0.389	0.048	0.0570	
2880 minute summer	20	3.000	21	0.0	0.000	0.000	0.0027	
2880 minute summer	21	3.001	15	0.1	0.133	0.007	0.0161	
2880 minute summer	15	2.002	16	0.9	0.365	0.062	0.3907	
2880 minute summer	16	2.003	17	1.1	0.145	0.074	0.5717	
2880 minute summer	17	Orifice	18	1.4				
2880 minute summer	18	2.005	19	2.3	0.577	0.054	0.1088	
2880 minute summer	19	2.006	8	2.7	0.149	0.052	1.0058	
2880 minute summer	8	Orifice	9	6.7				
2880 minute summer	9	1.008	10	6.9	0.388	0.162	0.2638	
2880 minute summer	22	4.000	23	0.0	0.000	0.000	0.0641	
2880 minute summer	23	Orifice	24	0.4				
2880 minute summer	24	4.002	25	1.0	0.675	0.039	0.4619	
2880 minute summer	25	Orifice	26	1.6				
2880 minute summer	28	4.005	OUTFALL2	1.5	0.445	0.043	0.0222	101.8
2880 minute summer	26	Hydro-Brake®	28	1.5				
2880 minute summer	27	5.001	26	-0.2	-0.014	-0.016	1.0194	

Results for 30 year 2880 minute summer. 3120 minute analysis at 60 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
2880 minute summer	10	1560	216.822	0.156	7.0	0.3584	0.0000	SURCHARGED
2880 minute summer	11	1560	216.691	0.080	7.0	0.0226	0.0000	OK
2880 minute summer	OUTFALL1	1560	216.653	0.073	7.0	0.0000	0.0000	OK
2880 minute summer	12	1620	216.701	0.138	0.1	0.0391	0.0000	OK
2880 minute summer	OUTFALL2	1440	215.602	0.031	1.5	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)
2880 minute summer	10	Hydro-Brake®	11	7.0				
2880 minute summer	11	1.010	OUTFALL1	7.0	0.774	0.478	0.0412	324.5
2880 minute summer	12	5.000	27	-0.1	-0.016	-0.005	0.2029	

Results for 30 year 2880 minute winter. 3120 minute analysis at 60 minute timestep. Mass balance: 99.23%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute winter	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	2	1440	218.515	0.015	0.4	0.0149	0.0000	OK
2880 minute winter	3	1440	218.191	0.048	0.8	0.0490	0.0000	OK
2880 minute winter	4	1440	217.583	0.034	1.7	0.0516	0.0000	OK
2880 minute winter	5	1440	217.464	0.075	2.0	0.1210	0.0000	OK
2880 minute winter	6	1440	217.261	0.043	2.6	0.0793	0.0000	OK
2880 minute winter	7	1560	217.127	0.037	3.0	0.0448	0.0000	OK
2880 minute winter	13	1260	218.679	0.015	0.3	0.0101	0.0000	OK
2880 minute winter	14	1260	218.530	0.017	0.4	0.0094	0.0000	OK
2880 minute winter	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	21	1140	218.400	0.009	0.1	0.0038	0.0000	OK
2880 minute winter	15	1260	218.323	0.021	0.6	0.0142	0.0000	OK
2880 minute winter	16	1620	218.113	0.077	0.8	0.0778	0.0000	OK
2880 minute winter	17	1620	218.112	0.292	1.1	0.9720	0.0000	SURCHARGED
2880 minute winter	18	1560	217.521	0.031	1.7	0.0555	0.0000	OK
2880 minute winter	19	1560	217.335	0.030	2.0	0.0278	0.0000	OK
2880 minute winter	8	1560	217.102	0.255	5.3	0.8903	0.0000	OK
2880 minute winter	9	1560	216.809	0.054	5.4	0.0517	0.0000	OK
2880 minute winter	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	23	1380	218.000	0.032	0.3	0.0292	0.0000	OK
2880 minute winter	24	1380	217.330	0.017	0.7	0.0161	0.0000	OK
2880 minute winter	25	1560	216.310	0.064	1.3	0.0564	0.0000	OK
2880 minute winter	28	1620	215.634	0.033	1.5	0.0374	0.0000	OK
2880 minute winter	26	1620	216.288	0.210	1.7	0.6378	0.0000	OK
2880 minute winter	27	1440	216.503	0.009	0.1	0.0043	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute winter	1	1.000	2	0.0	0.000	0.000	0.0143	
2880 minute winter	2	1.001	3	0.4	0.151	0.021	0.0864	
2880 minute winter	3	Orifice	4	0.8				
2880 minute winter	4	1.003	5	1.7	0.236	0.049	0.2758	
2880 minute winter	5	Orifice	6	2.0				
2880 minute winter	6	1.005	7	2.6	0.555	0.075	0.1362	
2880 minute winter	7	1.006	8	3.0	0.228	0.059	0.5547	
2880 minute winter	13	2.000	14	0.3	0.298	0.021	0.0228	
2880 minute winter	14	2.001	15	0.4	0.329	0.028	0.0409	
2880 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
2880 minute winter	21	3.001	15	0.1	0.135	0.007	0.0128	
2880 minute winter	15	2.002	16	0.6	0.367	0.042	0.2109	
2880 minute winter	16	2.003	17	0.8	0.144	0.057	0.4335	
2880 minute winter	17	Orifice	18	1.1				
2880 minute winter	18	2.005	19	1.7	0.533	0.041	0.0904	
2880 minute winter	19	2.006	8	2.0	0.154	0.040	0.9908	
2880 minute winter	8	Orifice	9	5.2				
2880 minute winter	9	1.008	10	5.4	0.389	0.127	0.1946	
2880 minute winter	22	4.000	23	0.0	0.000	0.000	0.0443	
2880 minute winter	23	Orifice	24	0.3				
2880 minute winter	24	4.002	25	0.7	0.628	0.028	0.0541	
2880 minute winter	25	Orifice	26	1.3				
2880 minute winter	28	4.005	OUTFALL2	1.5	0.445	0.043	0.0222	114.3
2880 minute winter	26	Hydro-Brake®	28	1.5				
2880 minute winter	27	5.001	26	0.1	0.016	0.007	0.4929	

Results for 30 year 2880 minute winter. 3120 minute analysis at 60 minute timestep. Mass balance: 99.23%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute winter	10	1560	216.788	0.122	5.5	0.2701	0.0000	OK
2880 minute winter	11	1560	216.680	0.069	5.5	0.0196	0.0000	OK
2880 minute winter	OUTFALL1	1560	216.644	0.063	5.5	0.0000	0.0000	OK
2880 minute winter	12	60	216.563	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	OUTFALL2	1620	215.602	0.031	1.5	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)
2880 minute winter	10	Hydro-Brake®	11	5.5				
2880 minute winter	11	1.010	OUTFALL1	5.5	0.729	0.376	0.0344	379.9
2880 minute winter	12	5.000	27	0.0	0.000	0.000	0.0026	

Results for 30 year 4320 minute summer. 4560 minute analysis at 60 minute timestep. Mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute summer	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	2	2160	218.515	0.015	0.4	0.0149	0.0000	OK
4320 minute summer	3	2160	218.191	0.048	0.8	0.0490	0.0000	OK
4320 minute summer	4	2220	217.584	0.035	1.8	0.0530	0.0000	OK
4320 minute summer	5	2220	217.468	0.079	2.1	0.1311	0.0000	OK
4320 minute summer	6	2160	217.262	0.044	2.8	0.0829	0.0000	OK
4320 minute summer	7	2280	217.140	0.050	3.2	0.0680	0.0000	OK
4320 minute summer	13	2220	218.681	0.017	0.4	0.0116	0.0000	OK
4320 minute summer	14	2220	218.534	0.021	0.6	0.0119	0.0000	OK
4320 minute summer	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	21	1920	218.400	0.009	0.1	0.0038	0.0000	OK
4320 minute summer	15	2220	218.326	0.024	0.8	0.0175	0.0000	OK
4320 minute summer	16	2280	218.179	0.143	1.0	0.2131	0.0000	OK
4320 minute summer	17	2280	218.178	0.358	1.2	1.3023	0.0000	SURCHARGED
4320 minute summer	18	2280	217.522	0.033	1.9	0.0578	0.0000	OK
4320 minute summer	19	2280	217.336	0.031	2.2	0.0288	0.0000	OK
4320 minute summer	8	2280	217.139	0.292	5.7	1.1750	0.0000	OK
4320 minute summer	9	2280	216.811	0.056	5.8	0.0545	0.0000	OK
4320 minute summer	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	23	2100	218.000	0.032	0.3	0.0292	0.0000	OK
4320 minute summer	24	2160	217.331	0.018	0.8	0.0172	0.0000	OK
4320 minute summer	25	2280	216.400	0.154	1.4	0.1545	0.0000	OK
4320 minute summer	28	2160	215.634	0.033	1.6	0.0376	0.0000	OK
4320 minute summer	26	2280	216.385	0.307	1.8	1.3533	0.0000	SURCHARGED
4320 minute summer	27	2160	216.503	0.009	0.1	0.0043	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	1	1.000	2	0.0	0.000	0.000	0.0143	
4320 minute summer	2	1.001	3	0.4	0.151	0.021	0.0864	
4320 minute summer	3	Orifice	4	0.8				
4320 minute summer	4	1.003	5	1.8	0.236	0.052	0.2945	
4320 minute summer	5	Orifice	6	2.1				
4320 minute summer	6	1.005	7	2.8	0.565	0.081	0.1699	
4320 minute summer	7	1.006	8	3.2	0.232	0.062	0.5834	
4320 minute summer	13	2.000	14	0.4	0.311	0.028	0.0292	
4320 minute summer	14	2.001	15	0.6	0.367	0.042	0.0519	
4320 minute summer	20	3.000	21	0.0	0.000	0.000	0.0027	
4320 minute summer	21	3.001	15	0.1	0.135	0.007	0.0150	
4320 minute summer	15	2.002	16	0.8	0.366	0.055	0.3813	
4320 minute summer	16	2.003	17	0.9	0.145	0.065	0.5668	
4320 minute summer	17	Orifice	18	1.2				
4320 minute summer	18	2.005	19	1.9	0.546	0.044	0.0946	
4320 minute summer	19	2.006	8	2.2	0.154	0.042	0.9939	
4320 minute summer	8	Orifice	9	5.6				
4320 minute summer	9	1.008	10	5.8	0.388	0.137	0.2115	
4320 minute summer	22	4.000	23	0.0	0.000	0.000	0.0443	
4320 minute summer	23	Orifice	24	0.3				
4320 minute summer	24	4.002	25	0.8	0.653	0.031	0.2515	
4320 minute summer	25	Orifice	26	1.4				
4320 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	113.6
4320 minute summer	26	Hydro-Brake®	28	1.6				
4320 minute summer	27	5.001	26	0.1	0.020	0.007	0.5225	

Results for 30 year 4320 minute summer. 4560 minute analysis at 60 minute timestep. Mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute summer	10	2280	216.798	0.132	5.9	0.2947	0.0000	OK
4320 minute summer	11	2280	216.684	0.073	5.9	0.0205	0.0000	OK
4320 minute summer	OUTFALL1	2280	216.646	0.066	5.9	0.0000	0.0000	OK
4320 minute summer	12	60	216.563	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	OUTFALL2	2160	215.602	0.031	1.6	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)
4320 minute summer	10	Hydro-Brake®	11	5.9				
4320 minute summer	11	1.010	OUTFALL1	5.9	0.744	0.406	0.0364	368.9
4320 minute summer	12	5.000	27	0.0	0.000	0.000	0.0026	

Results for 30 year 4320 minute winter. 4560 minute analysis at 60 minute timestep. Mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute winter	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	2	1980	218.513	0.013	0.3	0.0129	0.0000	OK
4320 minute winter	3	2040	218.182	0.039	0.6	0.0391	0.0000	OK
4320 minute winter	4	2040	217.579	0.030	1.3	0.0454	0.0000	OK
4320 minute winter	5	2100	217.449	0.060	1.5	0.0873	0.0000	OK
4320 minute winter	6	2100	217.256	0.038	2.0	0.0675	0.0000	OK
4320 minute winter	7	2100	217.122	0.032	2.3	0.0376	0.0000	OK
4320 minute winter	13	2160	218.679	0.015	0.3	0.0101	0.0000	OK
4320 minute winter	14	2160	218.530	0.017	0.4	0.0094	0.0000	OK
4320 minute winter	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	21	1800	218.400	0.009	0.1	0.0038	0.0000	OK
4320 minute winter	15	2160	218.323	0.021	0.6	0.0142	0.0000	OK
4320 minute winter	16	2160	218.060	0.024	0.8	0.0153	0.0000	OK
4320 minute winter	17	2400	218.024	0.204	1.0	0.5235	0.0000	OK
4320 minute winter	18	2400	217.517	0.028	1.4	0.0486	0.0000	OK
4320 minute winter	19	2400	217.332	0.027	1.6	0.0236	0.0000	OK
4320 minute winter	8	2400	217.014	0.167	4.1	0.3838	0.0000	OK
4320 minute winter	9	2400	216.802	0.047	4.1	0.0430	0.0000	OK
4320 minute winter	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	23	2160	217.998	0.030	0.3	0.0265	0.0000	OK
4320 minute winter	24	2400	217.328	0.015	0.6	0.0143	0.0000	OK
4320 minute winter	25	2160	216.292	0.046	1.0	0.0407	0.0000	OK
4320 minute winter	28	2400	215.630	0.029	1.2	0.0332	0.0000	OK
4320 minute winter	26	2160	216.158	0.080	1.2	0.1368	0.0000	OK
4320 minute winter	27	60	216.494	0.000	0.0	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)
4320 minute winter	1	1.000	2	0.0	0.000	0.000	0.0117	
4320 minute winter	2	1.001	3	0.3	0.148	0.016	0.0668	
4320 minute winter	3	Orifice	4	0.6				
4320 minute winter	4	1.003	5	1.3	0.232	0.038	0.2089	
4320 minute winter	5	Orifice	6	1.5				
4320 minute winter	6	1.005	7	2.0	0.511	0.058	0.1131	
4320 minute winter	7	1.006	8	2.3	0.232	0.045	0.4421	
4320 minute winter	13	2.000	14	0.3	0.298	0.021	0.0228	
4320 minute winter	14	2.001	15	0.4	0.329	0.028	0.0409	
4320 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
4320 minute winter	21	3.001	15	0.1	0.135	0.007	0.0128	
4320 minute winter	15	2.002	16	0.6	0.367	0.042	0.0655	
4320 minute winter	16	2.003	17	0.8	0.145	0.055	0.3152	
4320 minute winter	17	Orifice	18	0.9				
4320 minute winter	18	2.005	19	1.4	0.499	0.032	0.0757	
4320 minute winter	19	2.006	8	1.6	0.150	0.030	0.7888	
4320 minute winter	8	Orifice	9	4.0				
4320 minute winter	9	1.008	10	4.1	0.389	0.097	0.1454	
4320 minute winter	22	4.000	23	0.0	0.000	0.000	0.0390	
4320 minute winter	23	Orifice	24	0.3				
4320 minute winter	24	4.002	25	0.6	0.585	0.022	0.0459	
4320 minute winter	25	Orifice	26	1.0				
4320 minute winter	28	4.005	OUTFALL2	1.2	0.418	0.034	0.0186	129.4
4320 minute winter	26	Hydro-Brake®	28	1.2				
4320 minute winter	27	5.001	26	0.0	0.000	0.000	0.0048	

Results for 30 year 4320 minute winter. 4560 minute analysis at 60 minute timestep. Mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute winter	10	2400	216.761	0.095	4.2	0.1955	0.0000	OK
4320 minute winter	11	2400	216.671	0.060	4.2	0.0168	0.0000	OK
4320 minute winter	OUTFALL1	2400	216.635	0.055	4.2	0.0000	0.0000	OK
4320 minute winter	12	60	216.563	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	OUTFALL2	2400	215.599	0.028	1.2	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)
4320 minute winter	10	Hydro-Brake®	11	4.2				
4320 minute winter	11	1.010	OUTFALL1	4.2	0.682	0.289	0.0282	425.9
4320 minute winter	12	5.000	27	0.0	0.000	0.000	0.0000	

Results for 100 year +30% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	13	219.013	0.303	4.7	0.0858	0.0000	SURCHARGED
15 minute summer	2	13	219.021	0.521	16.2	2.0531	0.0000	SURCHARGED
15 minute summer	3	16	218.979	0.836	18.7	5.1688	0.0000	FLOOD RISK
15 minute summer	4	13	218.374	0.825	39.8	6.8664	0.0000	FLOOD RISK
15 minute summer	5	19	218.356	0.967	30.1	9.7446	0.0000	FLOOD RISK
15 minute summer	6	56	217.898	0.680	30.5	7.8051	0.0000	FLOOD RISK
15 minute summer	7	57	217.894	0.804	32.0	3.5827	0.0000	SURCHARGED
15 minute summer	13	12	218.940	0.275	13.1	0.1859	0.0000	SURCHARGED
15 minute summer	14	13	218.885	0.372	17.3	0.9328	0.0000	SURCHARGED
15 minute summer	20	18	218.888	0.413	3.8	0.1235	0.0000	SURCHARGED
15 minute summer	21	19	218.887	0.496	4.5	0.8717	0.0000	SURCHARGED
15 minute summer	15	19	218.885	0.583	20.4	2.9700	0.0000	SURCHARGED
15 minute summer	16	19	218.883	0.847	17.1	4.0088	0.0000	SURCHARGED
15 minute summer	17	18	218.881	1.061	15.3	5.2788	0.0000	SURCHARGED
15 minute summer	18	13	217.926	0.437	27.3	2.3341	0.0000	SURCHARGED
15 minute summer	19	13	217.905	0.600	34.6	2.2529	0.0000	SURCHARGED
15 minute summer	8	59	217.890	1.043	41.5	15.6477	0.0000	FLOOD RISK
15 minute summer	9	73	217.416	0.661	15.1	1.3862	0.0000	SURCHARGED
15 minute summer	22	17	218.641	0.025	0.8	0.0070	0.0000	OK
15 minute summer	23	16	218.639	0.670	12.1	2.8802	0.0000	FLOOD RISK
15 minute summer	24	13	217.731	0.418	18.0	0.8940	0.0000	SURCHARGED
15 minute summer	25	16	217.528	1.282	35.8	8.9333	0.0000	FLOOD RISK
15 minute summer	28	48	215.636	0.035	1.8	0.0399	0.0000	OK
15 minute summer	26	48	217.204	1.126	20.1	11.1499	0.0000	SURCHARGED
15 minute summer	27	48	217.205	0.711	7.3	3.2327	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	-4.7	-0.374	-0.328	0.5543	
15 minute summer	2	1.001	3	7.7	0.437	0.398	0.5317	
15 minute summer	3	Orifice	4	4.5				
15 minute summer	4	1.003	5	21.7	0.545	0.629	1.4353	
15 minute summer	5	Orifice	6	7.0				
15 minute summer	6	1.005	7	21.3	0.822	0.617	1.1469	
15 minute summer	7	1.006	8	19.2	0.560	0.376	1.0030	
15 minute summer	13	2.000	14	12.0	0.797	0.826	0.3981	
15 minute summer	14	2.001	15	14.6	0.844	1.013	0.5573	
15 minute summer	20	3.000	21	-2.8	0.241	-0.190	0.2211	
15 minute summer	21	3.001	15	3.3	0.355	0.230	0.2363	
15 minute summer	15	2.002	16	10.8	0.730	0.750	0.7028	
15 minute summer	16	2.003	17	6.6	0.421	0.455	0.5717	
15 minute summer	17	Orifice	18	2.0				
15 minute summer	18	2.005	19	25.0	1.000	0.591	1.0970	
15 minute summer	19	2.006	8	21.9	0.661	0.423	1.8341	
15 minute summer	8	Orifice	9	8.3				
15 minute summer	9	1.008	10	10.8	0.475	0.255	0.5293	
15 minute summer	22	4.000	23	-0.8	-0.071	-0.030	0.3104	
15 minute summer	23	Orifice	24	2.1				
15 minute summer	24	4.002	25	14.6	0.898	0.572	0.8546	
15 minute summer	25	Orifice	26	9.6				
15 minute summer	28	4.005	OUTFALL2	1.8	0.463	0.049	0.0244	23.4
15 minute summer	26	Hydro-Brake®	28	1.8				
15 minute summer	27	5.001	26	-5.7	-0.322	-0.418	1.0194	

Results for 100 year +30% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	10	73	217.412	0.746	14.8	2.9983	0.0000	FLOOD RISK
15 minute summer	11	170	216.702	0.091	8.5	0.0257	0.0000	OK
15 minute summer	OUTFALL1	171	216.662	0.082	8.5	0.0000	0.0000	OK
15 minute summer	12	49	217.205	0.642	3.7	0.1816	0.0000	SURCHARGED
15 minute summer	OUTFALL2	49	215.604	0.033	1.8	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	10	Hydro-Brake®	11	8.5				
15 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	92.4
15 minute summer	12	5.000	27	-3.7	-0.295	-0.271	0.2066	

Results for 100 year +30% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	13	219.055	0.345	6.7	0.0976	0.0000	SURCHARGED
15 minute winter	2	13	219.053	0.553	15.7	2.2157	0.0000	SURCHARGED
15 minute winter	3	17	219.009	0.866	20.3	6.3747	0.0000	FLOOD RISK
15 minute winter	4	14	218.404	0.855	41.7	7.5413	0.0000	FLOOD RISK
15 minute winter	5	19	218.391	1.002	33.3	11.4529	0.0000	FLOOD RISK
15 minute winter	6	64	217.912	0.694	31.7	11.4761	0.0000	FLOOD RISK
15 minute winter	7	66	217.908	0.818	28.5	3.6560	0.0000	SURCHARGED
15 minute winter	13	13	219.005	0.341	13.8	0.2303	0.0000	SURCHARGED
15 minute winter	14	19	218.974	0.461	18.1	1.2394	0.0000	SURCHARGED
15 minute winter	20	19	218.977	0.502	1.9	0.1502	0.0000	SURCHARGED
15 minute winter	21	18	218.975	0.584	7.4	1.0502	0.0000	SURCHARGED
15 minute winter	15	19	218.975	0.673	17.5	3.5438	0.0000	SURCHARGED
15 minute winter	16	19	218.974	0.938	17.9	4.5359	0.0000	SURCHARGED
15 minute winter	17	18	218.972	1.152	15.4	5.7929	0.0000	SURCHARGED
15 minute winter	18	13	217.976	0.487	28.7	2.7173	0.0000	SURCHARGED
15 minute winter	19	14	217.947	0.642	36.3	2.4614	0.0000	SURCHARGED
15 minute winter	8	17	217.905	1.058	45.3	17.1421	0.0000	FLOOD RISK
15 minute winter	9	19	217.438	0.683	15.5	1.4470	0.0000	SURCHARGED
15 minute winter	22	17	218.658	0.042	1.1	0.0118	0.0000	OK
15 minute winter	23	16	218.656	0.688	12.7	3.3629	0.0000	FLOOD RISK
15 minute winter	24	13	217.794	0.481	18.9	1.1284	0.0000	SURCHARGED
15 minute winter	25	17	217.567	1.321	36.2	10.6405	0.0000	FLOOD RISK
15 minute winter	28	54	215.637	0.036	1.8	0.0406	0.0000	OK
15 minute winter	26	54	217.284	1.206	20.7	12.1417	0.0000	SURCHARGED
15 minute winter	27	53	217.285	0.791	7.9	4.0828	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	-6.7	-0.427	-0.465	0.5543	
15 minute winter	2	1.001	3	8.7	0.495	0.449	0.5317	
15 minute winter	3	Orifice	4	4.7				
15 minute winter	4	1.003	5	24.2	0.608	0.702	1.4353	
15 minute winter	5	Orifice	6	6.9				
15 minute winter	6	1.005	7	18.1	0.817	0.524	1.1469	
15 minute winter	7	1.006	8	19.5	0.574	0.383	1.0030	
15 minute winter	13	2.000	14	12.6	0.781	0.868	0.3981	
15 minute winter	14	2.001	15	12.5	0.857	0.866	0.5573	
15 minute winter	20	3.000	21	-1.1	0.223	-0.077	0.2211	
15 minute winter	21	3.001	15	3.2	0.331	0.224	0.2363	
15 minute winter	15	2.002	16	11.3	0.744	0.782	0.7028	
15 minute winter	16	2.003	17	6.5	0.436	0.448	0.5717	
15 minute winter	17	Orifice	18	2.1				
15 minute winter	18	2.005	19	26.3	0.995	0.620	1.0970	
15 minute winter	19	2.006	8	21.2	0.619	0.409	1.8341	
15 minute winter	8	Orifice	9	8.3				
15 minute winter	9	1.008	10	12.1	0.484	0.284	0.5293	
15 minute winter	22	4.000	23	-1.1	-0.090	-0.042	0.3437	
15 minute winter	23	Orifice	24	2.1				
15 minute winter	24	4.002	25	14.3	0.895	0.561	0.8546	
15 minute winter	25	Orifice	26	9.6				
15 minute winter	28	4.005	OUTFALL2	1.8	0.467	0.051	0.0249	24.2
15 minute winter	26	Hydro-Brake®	28	1.8				
15 minute winter	27	5.001	26	-5.9	-0.348	-0.432	1.0194	

Results for 100 year +30% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	10	19	217.434	0.768	16.1	3.2625	0.0000	FLOOD RISK
15 minute winter	11	194	216.702	0.091	8.5	0.0257	0.0000	OK
15 minute winter	OUTFALL1	195	216.662	0.082	8.5	0.0000	0.0000	OK
15 minute winter	12	53	217.285	0.722	3.0	0.2042	0.0000	SURCHARGED
15 minute winter	OUTFALL2	54	215.605	0.034	1.8	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	10	Hydro-Brake®	11	8.5				
15 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	103.4
15 minute winter	12	5.000	27	-3.0	-0.202	-0.221	0.2066	

Results for 100 year +30% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.47%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	20	219.049	0.339	6.2	0.0959	0.0000	SURCHARGED
30 minute summer	2	21	219.054	0.554	15.2	2.2203	0.0000	SURCHARGED
30 minute summer	3	27	219.019	0.876	20.3	6.8009	0.0000	FLOOD RISK
30 minute summer	4	32	218.433	0.884	37.9	8.7159	0.0000	FLOOD RISK
30 minute summer	5	33	218.427	1.038	33.6	13.1893	0.0000	FLOOD RISK
30 minute summer	6	85	217.935	0.717	29.0	19.7664	0.0000	FLOOD RISK
30 minute summer	7	86	217.930	0.840	24.7	3.7755	0.0000	SURCHARGED
30 minute summer	13	33	219.107	0.443	12.4	0.2988	0.0000	SURCHARGED
30 minute summer	14	33	219.107	0.594	15.8	1.6962	0.0000	SURCHARGED
30 minute summer	20	32	219.106	0.631	2.4	0.1887	0.0000	SURCHARGED
30 minute summer	21	33	219.107	0.716	7.5	1.3185	0.0000	SURCHARGED
30 minute summer	15	33	219.106	0.804	15.0	4.3875	0.0000	SURCHARGED
30 minute summer	16	33	219.104	1.068	11.9	5.2951	0.0000	SURCHARGED
30 minute summer	17	33	219.101	1.281	11.0	6.5259	0.0000	SURCHARGED
30 minute summer	18	21	218.008	0.519	26.1	2.9704	0.0000	SURCHARGED
30 minute summer	19	21	217.977	0.672	25.0	2.6115	0.0000	SURCHARGED
30 minute summer	8	87	217.927	1.080	46.4	19.1674	0.0000	FLOOD RISK
30 minute summer	9	32	217.495	0.740	15.0	1.5993	0.0000	SURCHARGED
30 minute summer	22	24	218.665	0.049	1.1	0.0139	0.0000	OK
30 minute summer	23	25	218.664	0.696	11.4	3.5721	0.0000	FLOOD RISK
30 minute summer	24	20	217.789	0.476	17.3	1.1070	0.0000	SURCHARGED
30 minute summer	25	28	217.588	1.342	31.9	11.5679	0.0000	FLOOD RISK
30 minute summer	28	74	215.638	0.037	1.9	0.0415	0.0000	OK
30 minute summer	26	74	217.410	1.332	19.2	13.7535	0.0000	FLOOD RISK
30 minute summer	27	74	217.411	0.916	7.1	5.4243	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	-6.2	-0.405	-0.428	0.5543	
30 minute summer	2	1.001	3	8.6	0.488	0.444	0.5317	
30 minute summer	3	Orifice	4	4.5				
30 minute summer	4	1.003	5	24.1	0.607	0.701	1.4353	
30 minute summer	5	Orifice	6	7.0				
30 minute summer	6	1.005	7	13.1	0.741	0.379	1.1469	
30 minute summer	7	1.006	8	18.9	0.511	0.370	1.0030	
30 minute summer	13	2.000	14	10.8	0.786	0.743	0.3981	
30 minute summer	14	2.001	15	12.1	0.765	0.836	0.5573	
30 minute summer	20	3.000	21	-1.4	0.217	-0.095	0.2211	
30 minute summer	21	3.001	15	-3.8	0.300	-0.262	0.2363	
30 minute summer	15	2.002	16	7.8	0.623	0.542	0.7028	
30 minute summer	16	2.003	17	4.5	0.323	0.313	0.5717	
30 minute summer	17	Orifice	18	2.2				
30 minute summer	18	2.005	19	17.8	0.849	0.420	1.0970	
30 minute summer	19	2.006	8	22.9	0.575	0.441	1.8341	
30 minute summer	8	Orifice	9	8.3				
30 minute summer	9	1.008	10	12.7	0.456	0.300	0.5293	
30 minute summer	22	4.000	23	-1.1	-0.099	-0.045	0.3600	
30 minute summer	23	Orifice	24	2.1				
30 minute summer	24	4.002	25	12.8	0.794	0.503	0.8546	
30 minute summer	25	Orifice	26	9.2				
30 minute summer	28	4.005	OUTFALL2	1.9	0.472	0.053	0.0258	27.3
30 minute summer	26	Hydro-Brake®	28	1.9				
30 minute summer	27	5.001	26	-5.2	-0.301	-0.383	1.0194	

Results for 100 year +30% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.47%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	10	32	217.491	0.825	16.2	3.9308	0.0000	FLOOD RISK
30 minute summer	11	247	216.702	0.091	8.5	0.0257	0.0000	OK
30 minute summer	OUTFALL1	247	216.662	0.082	8.5	0.0000	0.0000	OK
30 minute summer	12	74	217.411	0.848	2.3	0.2399	0.0000	FLOOD RISK
30 minute summer	OUTFALL2	74	215.606	0.035	1.9	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)
30 minute summer	10	Hydro-Brake®	11	8.5				
30 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	122.6
30 minute summer	12	5.000	27	-2.3	-0.261	-0.169	0.2066	

Results for 100 year +30% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 98.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	22	219.085	0.375	5.5	0.1062	0.0000	SURCHARGED
30 minute winter	2	22	219.078	0.578	12.5	2.3425	0.0000	SURCHARGED
30 minute winter	3	29	219.059	0.916	19.8	8.4097	0.0000	FLOOD RISK
30 minute winter	4	32	218.465	0.916	34.5	10.5396	0.0000	FLOOD RISK
30 minute winter	5	33	218.458	1.069	32.2	14.6992	0.0000	FLOOD RISK
30 minute winter	6	95	217.948	0.730	26.6	25.8625	0.0000	FLOOD RISK
30 minute winter	7	96	217.944	0.854	24.0	3.8452	0.0000	SURCHARGED
30 minute winter	13	30	219.203	0.539	11.2	0.3638	0.0000	SURCHARGED
30 minute winter	14	30	219.201	0.688	14.8	2.0225	0.0000	SURCHARGED
30 minute winter	20	31	219.197	0.722	2.8	0.2159	0.0000	SURCHARGED
30 minute winter	21	31	219.197	0.806	5.0	1.5017	0.0000	SURCHARGED
30 minute winter	15	31	219.197	0.895	14.1	4.9683	0.0000	SURCHARGED
30 minute winter	16	32	219.187	1.151	11.7	5.7764	0.0000	SURCHARGED
30 minute winter	17	34	219.179	1.359	9.7	8.0511	0.0000	FLOOD RISK
30 minute winter	18	21	218.038	0.549	23.8	3.2208	0.0000	SURCHARGED
30 minute winter	19	22	218.005	0.700	25.2	2.7523	0.0000	SURCHARGED
30 minute winter	8	97	217.940	1.093	46.3	20.4495	0.0000	FLOOD RISK
30 minute winter	9	31	217.533	0.778	14.3	1.7016	0.0000	SURCHARGED
30 minute winter	22	26	218.687	0.071	1.0	0.0200	0.0000	OK
30 minute winter	23	27	218.686	0.718	10.3	4.1796	0.0000	FLOOD RISK
30 minute winter	24	21	217.811	0.498	15.8	1.1935	0.0000	SURCHARGED
30 minute winter	25	30	217.641	1.395	30.2	13.8615	0.0000	FLOOD RISK
30 minute winter	28	85	215.638	0.037	1.9	0.0418	0.0000	OK
30 minute winter	26	85	217.453	1.375	18.3	15.2057	0.0000	FLOOD RISK
30 minute winter	27	84	217.453	0.959	6.6	5.8811	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	-5.5	-0.365	-0.384	0.5543	
30 minute winter	2	1.001	3	8.5	0.484	0.441	0.5317	
30 minute winter	3	Orifice	4	4.5				
30 minute winter	4	1.003	5	23.1	0.581	0.671	1.4353	
30 minute winter	5	Orifice	6	7.2				
30 minute winter	6	1.005	7	13.0	0.744	0.377	1.1469	
30 minute winter	7	1.006	8	19.1	0.538	0.374	1.0030	
30 minute winter	13	2.000	14	10.3	0.763	0.715	0.3981	
30 minute winter	14	2.001	15	11.4	0.768	0.792	0.5573	
30 minute winter	20	3.000	21	-2.0	0.206	-0.141	0.2211	
30 minute winter	21	3.001	15	2.4	0.281	0.163	0.2363	
30 minute winter	15	2.002	16	7.6	0.658	0.527	0.7028	
30 minute winter	16	2.003	17	4.8	0.341	0.334	0.5717	
30 minute winter	17	Orifice	18	2.2				
30 minute winter	18	2.005	19	17.7	0.870	0.418	1.0970	
30 minute winter	19	2.006	8	23.3	0.585	0.449	1.8341	
30 minute winter	8	Orifice	9	8.3				
30 minute winter	9	1.008	10	11.6	0.461	0.274	0.5293	
30 minute winter	22	4.000	23	-1.0	-0.094	-0.040	0.4098	
30 minute winter	23	Orifice	24	2.1				
30 minute winter	24	4.002	25	12.3	0.752	0.484	0.8546	
30 minute winter	25	Orifice	26	9.2				
30 minute winter	28	4.005	OUTFALL2	1.9	0.473	0.054	0.0261	28.4
30 minute winter	26	Hydro-Brake®	28	1.9				
30 minute winter	27	5.001	26	-5.0	-0.289	-0.366	1.0194	

Results for 100 year +30% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 98.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	10	31	217.529	0.863	14.9	4.3804	0.0000	FLOOD RISK
30 minute winter	11	14	216.702	0.091	8.5	0.0257	0.0000	OK
30 minute winter	OUTFALL1	14	216.662	0.082	8.5	0.0000	0.0000	OK
30 minute winter	12	85	217.454	0.891	2.4	0.2520	0.0000	FLOOD RISK
30 minute winter	OUTFALL2	85	215.606	0.035	1.9	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)
30 minute winter	10	Hydro-Brake®	11	8.5				
30 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	122.8
30 minute winter	12	5.000	27	-2.4	-0.249	-0.180	0.2066	

Results for 100 year +30% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 98.44%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	38	219.054	0.344	4.8	0.0974	0.0000	SURCHARGED
60 minute summer	2	40	219.050	0.550	11.1	2.1999	0.0000	SURCHARGED
60 minute summer	3	44	219.043	0.900	17.3	7.7382	0.0000	FLOOD RISK
60 minute summer	4	61	218.474	0.925	30.5	11.1746	0.0000	FLOOD RISK
60 minute summer	5	61	218.468	1.079	30.2	15.1638	0.0000	FLOOD RISK
60 minute summer	6	120	217.967	0.749	26.8	34.4430	0.0000	FLOOD RISK
60 minute summer	7	121	217.963	0.873	20.3	3.9438	0.0000	SURCHARGED
60 minute summer	13	60	219.227	0.563	9.8	0.3801	0.0000	SURCHARGED
60 minute summer	14	60	219.226	0.713	12.5	2.1085	0.0000	SURCHARGED
60 minute summer	20	61	219.225	0.750	2.6	0.2241	0.0000	SURCHARGED
60 minute summer	21	61	219.225	0.834	4.2	1.5577	0.0000	SURCHARGED
60 minute summer	15	61	219.225	0.923	9.9	5.1458	0.0000	SURCHARGED
60 minute summer	16	61	219.220	1.184	7.6	5.9719	0.0000	SURCHARGED
60 minute summer	17	63	219.216	1.396	8.4	9.6497	0.0000	FLOOD RISK
60 minute summer	18	36	218.034	0.545	21.0	3.1823	0.0000	SURCHARGED
60 minute summer	19	37	218.004	0.698	23.8	2.7431	0.0000	SURCHARGED
60 minute summer	8	122	217.959	1.112	43.3	22.2428	0.0000	FLOOD RISK
60 minute summer	9	48	217.550	0.794	13.3	1.7456	0.0000	SURCHARGED
60 minute summer	22	44	218.678	0.062	0.8	0.0175	0.0000	OK
60 minute summer	23	43	218.677	0.709	9.0	3.9371	0.0000	FLOOD RISK
60 minute summer	24	36	217.762	0.449	14.0	1.0056	0.0000	SURCHARGED
60 minute summer	25	52	217.642	1.396	27.1	13.9025	0.0000	FLOOD RISK
60 minute summer	28	108	215.638	0.037	2.0	0.0421	0.0000	OK
60 minute summer	26	108	217.501	1.423	16.2	17.7765	0.0000	FLOOD RISK
60 minute summer	27	107	217.501	1.007	5.6	6.3914	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	-4.8	-0.298	-0.335	0.5543	
60 minute summer	2	1.001	3	7.5	0.427	0.389	0.5317	
60 minute summer	3	Orifice	4	4.3				
60 minute summer	4	1.003	5	21.9	0.550	0.635	1.4353	
60 minute summer	5	Orifice	6	7.1				
60 minute summer	6	1.005	7	-10.8	0.694	-0.314	1.1469	
60 minute summer	7	1.006	8	17.5	0.478	0.343	1.0030	
60 minute summer	13	2.000	14	8.4	0.709	0.580	0.3981	
60 minute summer	14	2.001	15	8.2	0.640	0.566	0.5573	
60 minute summer	20	3.000	21	-2.1	0.170	-0.145	0.2211	
60 minute summer	21	3.001	15	-2.3	0.247	-0.163	0.2363	
60 minute summer	15	2.002	16	4.6	0.539	0.321	0.7028	
60 minute summer	16	2.003	17	4.0	0.243	0.279	0.5717	
60 minute summer	17	Orifice	18	2.3				
60 minute summer	18	2.005	19	16.7	0.717	0.395	1.0970	
60 minute summer	19	2.006	8	22.0	0.552	0.424	1.8341	
60 minute summer	8	Orifice	9	8.4				
60 minute summer	9	1.008	10	11.5	0.435	0.271	0.5293	
60 minute summer	22	4.000	23	-0.8	-0.074	-0.033	0.3888	
60 minute summer	23	Orifice	24	2.1				
60 minute summer	24	4.002	25	11.3	0.751	0.444	0.8546	
60 minute summer	25	Orifice	26	8.3				
60 minute summer	28	4.005	OUTFALL2	2.0	0.475	0.055	0.0264	32.4
60 minute summer	26	Hydro-Brake®	28	2.0				
60 minute summer	27	5.001	26	-4.7	-0.269	-0.349	1.0194	

Results for 100 year +30% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 98.44%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	10	48	217.545	0.879	14.5	4.5728	0.0000	FLOOD RISK
60 minute summer	11	27	216.702	0.091	8.5	0.0257	0.0000	OK
60 minute summer	OUTFALL1	27	216.662	0.082	8.5	0.0000	0.0000	OK
60 minute summer	12	108	217.501	0.938	1.2	0.2655	0.0000	FLOOD RISK
60 minute summer	OUTFALL2	108	215.606	0.035	2.0	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)
60 minute summer	10	Hydro-Brake®	11	8.5				
60 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	136.8
60 minute summer	12	5.000	27	-1.2	-0.160	-0.087	0.2066	

Results for 100 year +30% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 98.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	44	219.087	0.377	3.2	0.1067	0.0000	SURCHARGED
60 minute winter	2	46	219.087	0.587	8.5	2.3907	0.0000	SURCHARGED
60 minute winter	3	48	219.081	0.938	15.0	9.2916	0.0000	FLOOD RISK
60 minute winter	4	60	218.509	0.960	25.5	14.0444	0.0000	FLOOD RISK
60 minute winter	5	60	218.502	1.113	26.0	16.8352	0.0000	FLOOD RISK
60 minute winter	6	133	217.985	0.767	30.0	42.6073	0.0000	FLOOD RISK
60 minute winter	7	134	217.981	0.890	17.9	4.0378	0.0000	SURCHARGED
60 minute winter	13	45	219.317	0.653	7.9	0.4404	0.0000	SURCHARGED
60 minute winter	14	45	219.311	0.797	10.2	2.3989	0.0000	SURCHARGED
60 minute winter	20	47	219.297	0.822	1.9	0.2458	0.0000	SURCHARGED
60 minute winter	21	47	219.297	0.906	3.5	1.7047	0.0000	SURCHARGED
60 minute winter	15	47	219.297	0.995	8.6	5.6061	0.0000	SURCHARGED
60 minute winter	16	60	219.288	1.252	7.3	6.3630	0.0000	SURCHARGED
60 minute winter	17	62	219.282	1.462	9.4	12.5316	0.0000	FLOOD RISK
60 minute winter	18	38	218.037	0.548	17.4	3.2097	0.0000	SURCHARGED
60 minute winter	19	38	218.013	0.708	20.8	2.7876	0.0000	SURCHARGED
60 minute winter	8	135	217.977	1.130	37.7	23.9396	0.0000	FLOOD RISK
60 minute winter	9	48	217.599	0.844	12.1	1.8795	0.0000	SURCHARGED
60 minute winter	22	47	218.698	0.082	0.7	0.0232	0.0000	OK
60 minute winter	23	46	218.698	0.730	7.3	4.5121	0.0000	FLOOD RISK
60 minute winter	24	39	217.762	0.449	11.8	1.0049	0.0000	SURCHARGED
60 minute winter	25	51	217.704	1.458	23.4	16.6016	0.3723	FLOOD
60 minute winter	28	115	215.639	0.037	2.0	0.0424	0.0000	OK
60 minute winter	26	114	217.538	1.459	14.3	20.2669	0.0000	FLOOD RISK
60 minute winter	27	114	217.538	1.044	5.9	6.7782	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	-3.2	-0.225	-0.220	0.5543	
60 minute winter	2	1.001	3	6.6	0.375	0.342	0.5317	
60 minute winter	3	Orifice	4	4.3				
60 minute winter	4	1.003	5	19.3	0.485	0.560	1.4353	
60 minute winter	5	Orifice	6	7.3				
60 minute winter	6	1.005	7	-12.0	0.713	-0.348	1.1469	
60 minute winter	7	1.006	8	16.8	0.486	0.329	1.0030	
60 minute winter	13	2.000	14	7.0	0.674	0.482	0.3981	
60 minute winter	14	2.001	15	7.5	0.648	0.517	0.5573	
60 minute winter	20	3.000	21	-1.5	0.173	-0.103	0.2211	
60 minute winter	21	3.001	15	-2.0	0.239	-0.138	0.2363	
60 minute winter	15	2.002	16	5.2	0.580	0.358	0.7028	
60 minute winter	16	2.003	17	6.2	0.353	0.431	0.5717	
60 minute winter	17	Orifice	18	2.3				
60 minute winter	18	2.005	19	14.9	0.740	0.352	1.0970	
60 minute winter	19	2.006	8	19.6	0.494	0.379	1.8341	
60 minute winter	8	Orifice	9	8.5				
60 minute winter	9	1.008	10	10.7	0.442	0.253	0.5293	
60 minute winter	22	4.000	23	-0.7	-0.060	-0.027	0.4374	
60 minute winter	23	Orifice	24	2.2				
60 minute winter	24	4.002	25	10.3	0.761	0.403	0.8546	
60 minute winter	25	Orifice	26	8.1				
60 minute winter	28	4.005	OUTFALL2	2.0	0.477	0.055	0.0266	33.1
60 minute winter	26	Hydro-Brake®	28	2.0				
60 minute winter	27	5.001	26	-4.8	-0.275	-0.357	1.0194	

Results for 100 year +30% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 98.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	10	48	217.595	0.929	13.1	5.1528	0.0000	FLOOD RISK
60 minute winter	11	24	216.702	0.091	8.5	0.0257	0.0000	OK
60 minute winter	OUTFALL1	24	216.662	0.082	8.5	0.0000	0.0000	OK
60 minute winter	12	116	217.538	0.975	1.9	0.2758	0.0000	FLOOD RISK
60 minute winter	OUTFALL2	115	215.606	0.035	2.0	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)
60 minute winter	10	Hydro-Brake®	11	8.5				
60 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	138.4
60 minute winter	12	5.000	27	-1.9	-0.136	-0.138	0.2066	

Results for 100 year +30% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 98.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	78	219.012	0.301	2.3	0.0853	0.0000	SURCHARGED
120 minute summer	2	78	219.010	0.510	6.7	1.9959	0.0000	SURCHARGED
120 minute summer	3	80	219.005	0.862	11.0	6.2258	0.0000	FLOOD RISK
120 minute summer	4	96	218.467	0.918	20.8	10.6952	0.0000	FLOOD RISK
120 minute summer	5	98	218.461	1.072	21.6	14.8415	0.0000	FLOOD RISK
120 minute summer	6	162	217.985	0.767	24.0	42.6195	0.0000	FLOOD RISK
120 minute summer	7	162	217.981	0.891	16.5	4.0384	0.0000	SURCHARGED
120 minute summer	13	108	219.236	0.572	6.2	0.3859	0.0000	SURCHARGED
120 minute summer	14	108	219.235	0.722	8.0	2.1405	0.0000	SURCHARGED
120 minute summer	20	108	219.234	0.759	1.1	0.2270	0.0000	SURCHARGED
120 minute summer	21	108	219.234	0.843	2.2	1.5773	0.0000	SURCHARGED
120 minute summer	15	108	219.234	0.932	6.6	5.2061	0.0000	SURCHARGED
120 minute summer	16	108	219.231	1.195	5.5	6.0356	0.0000	SURCHARGED
120 minute summer	17	110	219.228	1.408	6.3	10.1790	0.0000	FLOOD RISK
120 minute summer	18	68	217.985	0.496	14.0	2.7851	0.0000	SURCHARGED
120 minute summer	19	120	217.978	0.673	16.9	2.6162	0.0000	SURCHARGED
120 minute summer	8	164	217.977	1.130	31.9	23.9577	0.0000	FLOOD RISK
120 minute summer	9	82	217.561	0.806	11.1	1.7783	0.0000	SURCHARGED
120 minute summer	22	76	218.652	0.036	0.3	0.0101	0.0000	OK
120 minute summer	23	78	218.652	0.684	5.7	3.2421	0.0000	FLOOD RISK
120 minute summer	24	84	217.661	0.348	9.6	0.6642	0.0000	SURCHARGED
120 minute summer	25	96	217.643	1.397	18.9	13.9345	0.0000	FLOOD RISK
120 minute summer	28	148	215.639	0.037	2.0	0.0424	0.0000	OK
120 minute summer	26	148	217.543	1.465	12.1	20.6439	0.0000	FLOOD RISK
120 minute summer	27	146	217.543	1.049	5.2	6.8363	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	-2.3	-0.187	-0.157	0.5543	
120 minute summer	2	1.001	3	4.9	0.279	0.254	0.5317	
120 minute summer	3	Orifice	4	4.2				
120 minute summer	4	1.003	5	16.4	0.413	0.476	1.4353	
120 minute summer	5	Orifice	6	7.1				
120 minute summer	6	1.005	7	10.6	0.642	0.308	1.1469	
120 minute summer	7	1.006	8	15.6	0.423	0.306	1.0030	
120 minute summer	13	2.000	14	5.4	0.614	0.375	0.3981	
120 minute summer	14	2.001	15	5.4	0.555	0.371	0.5573	
120 minute summer	20	3.000	21	-0.8	0.158	-0.058	0.2211	
120 minute summer	21	3.001	15	-1.2	0.194	-0.081	0.2363	
120 minute summer	15	2.002	16	3.3	0.467	0.231	0.7028	
120 minute summer	16	2.003	17	4.2	0.239	0.291	0.5717	
120 minute summer	17	Orifice	18	2.2				
120 minute summer	18	2.005	19	12.2	0.651	0.287	1.0970	
120 minute summer	19	2.006	8	15.8	0.397	0.305	1.8341	
120 minute summer	8	Orifice	9	8.5				
120 minute summer	9	1.008	10	10.1	0.409	0.239	0.5293	
120 minute summer	22	4.000	23	-0.3	-0.026	-0.012	0.3315	
120 minute summer	23	Orifice	24	2.1				
120 minute summer	24	4.002	25	8.5	0.764	0.332	0.8546	
120 minute summer	25	Orifice	26	7.1				
120 minute summer	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0266	39.0
120 minute summer	26	Hydro-Brake®	28	2.0				
120 minute summer	27	5.001	26	-4.3	-0.245	-0.318	1.0194	

Results for 100 year +30% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 98.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	10	82	217.557	0.891	12.0	4.7104	0.0000	FLOOD RISK
120 minute summer	11	52	216.702	0.091	8.5	0.0257	0.0000	OK
120 minute summer	OUTFALL1	52	216.662	0.082	8.5	0.0000	0.0000	OK
120 minute summer	12	148	217.543	0.980	0.9	0.2773	0.0000	FLOOD RISK
120 minute summer	OUTFALL2	148	215.606	0.035	2.0	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)
120 minute summer	10	Hydro-Brake®	11	8.5				
120 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	163.3
120 minute summer	12	5.000	27	-0.9	-0.081	-0.067	0.2066	

Results for 100 year +30% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	84	219.032	0.322	1.3	0.0910	0.0000	SURCHARGED
120 minute winter	2	84	219.031	0.531	5.1	2.1044	0.0000	SURCHARGED
120 minute winter	3	86	219.027	0.884	9.1	7.0884	0.0000	FLOOD RISK
120 minute winter	4	100	218.503	0.954	17.0	13.5064	0.0000	FLOOD RISK
120 minute winter	5	102	218.497	1.108	17.7	16.5677	0.0000	FLOOD RISK
120 minute winter	6	174	218.007	0.789	22.6	52.7315	0.0000	FLOOD RISK
120 minute winter	7	174	218.003	0.913	14.4	4.1534	0.0000	SURCHARGED
120 minute winter	13	114	219.312	0.648	4.8	0.4373	0.0000	SURCHARGED
120 minute winter	14	114	219.311	0.798	6.2	2.4018	0.0000	SURCHARGED
120 minute winter	20	116	219.310	0.835	0.8	0.2497	0.0000	SURCHARGED
120 minute winter	21	116	219.310	0.919	1.7	1.7317	0.0000	SURCHARGED
120 minute winter	15	116	219.310	1.008	5.4	5.6941	0.0000	SURCHARGED
120 minute winter	16	116	219.307	1.271	6.3	6.4762	0.0000	SURCHARGED
120 minute winter	17	118	219.303	1.483	8.0	13.4730	0.0000	FLOOD RISK
120 minute winter	18	176	218.000	0.511	11.4	2.9058	0.0000	SURCHARGED
120 minute winter	19	176	218.000	0.695	14.2	2.7248	0.0000	SURCHARGED
120 minute winter	8	176	217.999	1.152	27.3	26.0487	0.0000	FLOOD RISK
120 minute winter	9	84	217.602	0.847	10.4	1.8885	0.0000	SURCHARGED
120 minute winter	22	82	218.659	0.043	0.3	0.0121	0.0000	OK
120 minute winter	23	84	218.659	0.691	4.4	3.4359	0.0000	FLOOD RISK
120 minute winter	24	90	217.731	0.418	7.9	0.8923	0.0000	SURCHARGED
120 minute winter	25	90	217.704	1.458	15.4	16.6016	0.4799	FLOOD
120 minute winter	28	154	215.639	0.038	2.0	0.0427	0.0000	OK
120 minute winter	26	152	217.589	1.511	10.4	23.8534	0.0000	FLOOD RISK
120 minute winter	27	152	217.589	1.095	4.6	7.3245	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	-1.3	-0.122	-0.093	0.5543	
120 minute winter	2	1.001	3	4.1	0.236	0.215	0.5317	
120 minute winter	3	Orifice	4	4.2				
120 minute winter	4	1.003	5	13.7	0.372	0.398	1.4353	
120 minute winter	5	Orifice	6	7.2				
120 minute winter	6	1.005	7	10.0	0.661	0.291	1.1469	
120 minute winter	7	1.006	8	13.7	0.421	0.268	1.0030	
120 minute winter	13	2.000	14	4.2	0.587	0.293	0.3981	
120 minute winter	14	2.001	15	4.5	0.565	0.314	0.5573	
120 minute winter	20	3.000	21	-0.5	0.158	-0.033	0.2211	
120 minute winter	21	3.001	15	0.9	0.186	0.060	0.2363	
120 minute winter	15	2.002	16	4.3	0.503	0.295	0.7028	
120 minute winter	16	2.003	17	5.4	0.309	0.377	0.5717	
120 minute winter	17	Orifice	18	2.3				
120 minute winter	18	2.005	19	10.6	0.662	0.250	1.0970	
120 minute winter	19	2.006	8	13.9	0.348	0.268	1.8341	
120 minute winter	8	Orifice	9	8.4				
120 minute winter	9	1.008	10	9.6	0.413	0.226	0.5293	
120 minute winter	22	4.000	23	-0.3	-0.022	-0.010	0.3464	
120 minute winter	23	Orifice	24	2.1				
120 minute winter	24	4.002	25	7.3	0.781	0.288	0.8546	
120 minute winter	25	Orifice	26	6.6				
120 minute winter	28	4.005	OUTFALL2	2.0	0.478	0.056	0.0269	39.8
120 minute winter	26	Hydro-Brake®	28	2.0				
120 minute winter	27	5.001	26	-3.9	-0.220	-0.285	1.0194	

Results for 100 year +30% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	10	84	217.598	0.932	11.0	5.1912	0.0000	FLOOD RISK
120 minute winter	11	46	216.702	0.091	8.5	0.0257	0.0000	OK
120 minute winter	OUTFALL1	46	216.662	0.082	8.5	0.0000	0.0000	OK
120 minute winter	12	152	217.589	1.026	0.9	0.2903	0.0000	FLOOD RISK
120 minute winter	OUTFALL2	154	215.607	0.036	2.0	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)
120 minute winter	10	Hydro-Brake®	11	8.5				
120 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	165.4
120 minute winter	12	5.000	27	-0.9	-0.075	-0.063	0.2066	

Results for 100 year +30% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 98.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	112	218.977	0.267	1.6	0.0755	0.0000	SURCHARGED
180 minute summer	2	112	218.977	0.477	4.9	1.8236	0.0000	SURCHARGED
180 minute summer	3	112	218.972	0.828	7.7	4.8736	0.0000	FLOOD RISK
180 minute summer	4	128	218.461	0.912	16.4	10.2501	0.0000	FLOOD RISK
180 minute summer	5	132	218.455	1.065	17.2	14.5208	0.0000	FLOOD RISK
180 minute summer	6	208	217.991	0.773	20.2	45.2570	0.0000	FLOOD RISK
180 minute summer	7	208	217.986	0.896	14.0	4.0683	0.0000	SURCHARGED
180 minute summer	13	140	219.231	0.567	4.6	0.3829	0.0000	SURCHARGED
180 minute summer	14	140	219.231	0.718	6.0	2.1241	0.0000	SURCHARGED
180 minute summer	20	140	219.230	0.755	0.5	0.2256	0.0000	SURCHARGED
180 minute summer	21	140	219.230	0.839	1.5	1.5681	0.0000	SURCHARGED
180 minute summer	15	140	219.230	0.928	5.0	5.1786	0.0000	SURCHARGED
180 minute summer	16	140	219.227	1.191	4.4	6.0097	0.0000	SURCHARGED
180 minute summer	17	144	219.223	1.403	5.5	9.9867	0.0000	FLOOD RISK
180 minute summer	18	180	217.985	0.496	11.0	2.7854	0.0000	SURCHARGED
180 minute summer	19	184	217.984	0.679	13.4	2.6474	0.0000	SURCHARGED
180 minute summer	8	184	217.983	1.136	25.2	24.5354	0.0000	FLOOD RISK
180 minute summer	9	116	217.560	0.805	10.3	1.7763	0.0000	SURCHARGED
180 minute summer	22	112	218.630	0.014	0.1	0.0038	0.0000	OK
180 minute summer	23	112	218.629	0.661	4.2	2.6215	0.0000	FLOOD RISK
180 minute summer	24	128	217.657	0.344	7.6	0.6500	0.0000	SURCHARGED
180 minute summer	25	136	217.641	1.395	14.8	13.8718	0.0000	FLOOD RISK
180 minute summer	28	196	215.639	0.038	2.0	0.0425	0.0000	OK
180 minute summer	26	196	217.557	1.479	10.1	21.5967	0.0000	FLOOD RISK
180 minute summer	27	192	217.557	1.062	4.4	6.9799	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	-1.6	-0.116	-0.112	0.5543	
180 minute summer	2	1.001	3	3.5	0.214	0.181	0.5317	
180 minute summer	3	Orifice	4	4.2				
180 minute summer	4	1.003	5	13.3	0.335	0.386	1.4353	
180 minute summer	5	Orifice	6	7.0				
180 minute summer	6	1.005	7	10.0	0.608	0.289	1.1469	
180 minute summer	7	1.006	8	12.4	0.394	0.242	1.0030	
180 minute summer	13	2.000	14	4.1	0.555	0.283	0.3981	
180 minute summer	14	2.001	15	4.1	0.504	0.287	0.5573	
180 minute summer	20	3.000	21	-0.3	0.159	-0.018	0.2211	
180 minute summer	21	3.001	15	0.7	0.178	0.049	0.2363	
180 minute summer	15	2.002	16	3.0	0.413	0.208	0.7028	
180 minute summer	16	2.003	17	3.8	0.217	0.264	0.5717	
180 minute summer	17	Orifice	18	2.2				
180 minute summer	18	2.005	19	9.9	0.638	0.233	1.0970	
180 minute summer	19	2.006	8	12.7	0.318	0.244	1.8341	
180 minute summer	8	Orifice	9	8.4				
180 minute summer	9	1.008	10	9.4	0.404	0.221	0.5293	
180 minute summer	22	4.000	23	0.1	0.008	0.003	0.2928	
180 minute summer	23	Orifice	24	2.1				
180 minute summer	24	4.002	25	7.0	0.729	0.274	0.8546	
180 minute summer	25	Orifice	26	6.4				
180 minute summer	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0267	45.1
180 minute summer	26	Hydro-Brake®	28	2.0				
180 minute summer	27	5.001	26	-3.7	-0.212	-0.275	1.0194	

Results for 100 year +30% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 98.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	10	116	217.556	0.890	10.8	4.7005	0.0000	FLOOD RISK
180 minute summer	11	76	216.702	0.091	8.5	0.0257	0.0000	OK
180 minute summer	OUTFALL1	76	216.662	0.082	8.5	0.0000	0.0000	OK
180 minute summer	12	196	217.557	0.994	0.6	0.2812	0.0000	FLOOD RISK
180 minute summer	OUTFALL2	196	215.607	0.036	2.0	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)
180 minute summer	10	Hydro-Brake®	11	8.5				
180 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.582	0.0479	188.0
180 minute summer	12	5.000	27	-0.6	-0.055	-0.042	0.2066	

Results for 100 year +30% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 98.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	120	218.981	0.271	1.0	0.0767	0.0000	SURCHARGED
180 minute winter	2	120	218.981	0.481	3.8	1.8469	0.0000	SURCHARGED
180 minute winter	3	120	218.976	0.833	6.5	5.0669	0.0000	FLOOD RISK
180 minute winter	4	140	218.493	0.944	13.5	12.6369	0.0000	FLOOD RISK
180 minute winter	5	140	218.487	1.098	14.3	16.0935	0.0000	FLOOD RISK
180 minute winter	6	212	218.018	0.800	17.6	57.9260	0.0000	FLOOD RISK
180 minute winter	7	212	218.014	0.924	11.8	4.2144	0.0000	SURCHARGED
180 minute winter	13	140	219.306	0.642	3.5	0.4333	0.0000	SURCHARGED
180 minute winter	14	144	219.306	0.792	4.6	2.3815	0.0000	SURCHARGED
180 minute winter	20	148	219.304	0.829	0.7	0.2479	0.0000	SURCHARGED
180 minute winter	21	148	219.304	0.913	1.0	1.7198	0.0000	SURCHARGED
180 minute winter	15	148	219.304	1.002	4.3	5.6567	0.0000	SURCHARGED
180 minute winter	16	148	219.301	1.265	5.3	6.4437	0.0000	SURCHARGED
180 minute winter	17	152	219.298	1.478	6.8	13.2379	0.0000	FLOOD RISK
180 minute winter	18	172	218.012	0.523	8.9	3.0020	0.0000	SURCHARGED
180 minute winter	19	216	218.011	0.706	11.2	2.7799	0.0000	SURCHARGED
180 minute winter	8	216	218.010	1.163	21.6	27.1301	0.0000	FLOOD RISK
180 minute winter	9	120	217.592	0.837	9.9	1.8595	0.0000	SURCHARGED
180 minute winter	22	116	218.626	0.010	0.1	0.0028	0.0000	OK
180 minute winter	23	116	218.626	0.658	3.3	2.5376	0.0000	FLOOD RISK
180 minute winter	24	128	217.727	0.413	6.3	0.8772	0.0000	SURCHARGED
180 minute winter	25	132	217.704	1.458	11.9	16.6016	0.4423	FLOOD
180 minute winter	28	180	215.639	0.038	2.0	0.0428	0.0000	OK
180 minute winter	26	180	217.604	1.526	8.8	24.9224	0.0000	FLOOD RISK
180 minute winter	27	172	217.600	1.106	3.7	7.4442	1.7232	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	-1.0	-0.086	-0.071	0.5543	
180 minute winter	2	1.001	3	3.0	0.196	0.155	0.5317	
180 minute winter	3	Orifice	4	4.1				
180 minute winter	4	1.003	5	11.3	0.335	0.327	1.4353	
180 minute winter	5	Orifice	6	7.0				
180 minute winter	6	1.005	7	8.5	0.636	0.247	1.1469	
180 minute winter	7	1.006	8	11.2	0.393	0.220	1.0030	
180 minute winter	13	2.000	14	3.1	0.530	0.215	0.3981	
180 minute winter	14	2.001	15	3.3	0.515	0.231	0.5573	
180 minute winter	20	3.000	21	-0.5	0.153	-0.032	0.2211	
180 minute winter	21	3.001	15	0.6	0.254	0.041	0.2363	
180 minute winter	15	2.002	16	3.7	0.450	0.254	0.7028	
180 minute winter	16	2.003	17	4.7	0.266	0.324	0.5717	
180 minute winter	17	Orifice	18	2.3				
180 minute winter	18	2.005	19	8.5	0.628	0.200	1.0970	
180 minute winter	19	2.006	8	10.9	0.289	0.211	1.8341	
180 minute winter	8	Orifice	9	8.4				
180 minute winter	9	1.008	10	9.0	0.401	0.211	0.5293	
180 minute winter	22	4.000	23	-0.1	-0.005	-0.002	0.2881	
180 minute winter	23	Orifice	24	2.0				
180 minute winter	24	4.002	25	5.9	0.764	0.232	0.8546	
180 minute winter	25	Orifice	26	6.0				
180 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	45.9
180 minute winter	26	Hydro-Brake®	28	2.0				
180 minute winter	27	5.001	26	-3.2	-0.179	-0.232	1.0194	

Results for 100 year +30% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 98.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	10	120	217.588	0.922	10.0	5.0689	0.0000	FLOOD RISK
180 minute winter	11	68	216.702	0.091	8.5	0.0257	0.0000	OK
180 minute winter	OUTFALL1	68	216.662	0.082	8.5	0.0000	0.0000	OK
180 minute winter	12	200	217.600	1.037	0.5	0.2935	0.0000	FLOOD RISK
180 minute winter	OUTFALL2	180	215.607	0.036	2.0	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)
180 minute winter	10	Hydro-Brake®	11	8.5				
180 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	191.1
180 minute winter	12	5.000	27	-0.5	-0.053	-0.036	0.2066	

Results for 100 year +30% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 98.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	144	218.949	0.239	1.0	0.0677	0.0000	SURCHARGED
240 minute summer	2	144	218.950	0.450	4.2	1.6861	0.0000	SURCHARGED
240 minute summer	3	144	218.945	0.802	6.1	3.8220	0.0000	FLOOD RISK
240 minute summer	4	164	218.453	0.904	14.4	9.8035	0.0000	FLOOD RISK
240 minute summer	5	164	218.448	1.058	15.0	14.1837	0.0000	FLOOD RISK
240 minute summer	6	248	217.998	0.779	17.2	48.4584	0.0000	FLOOD RISK
240 minute summer	7	244	217.994	0.904	11.7	4.1108	0.0000	SURCHARGED
240 minute summer	13	168	219.223	0.559	3.9	0.3771	0.0000	SURCHARGED
240 minute summer	14	172	219.222	0.709	5.1	2.0952	0.0000	SURCHARGED
240 minute summer	20	172	219.221	0.746	0.6	0.2231	0.0000	SURCHARGED
240 minute summer	21	172	219.221	0.830	1.4	1.5508	0.0000	SURCHARGED
240 minute summer	15	172	219.221	0.919	4.3	5.1230	0.0000	SURCHARGED
240 minute summer	16	172	219.218	1.182	3.8	5.9595	0.0000	SURCHARGED
240 minute summer	17	176	219.215	1.395	4.8	9.6098	0.0000	FLOOD RISK
240 minute summer	18	240	217.994	0.505	9.5	2.8585	0.0000	SURCHARGED
240 minute summer	19	240	217.993	0.688	11.4	2.6907	0.0000	SURCHARGED
240 minute summer	8	244	217.991	1.144	23.0	25.3413	0.0000	FLOOD RISK
240 minute summer	9	148	217.555	0.800	10.0	1.7601	0.0000	SURCHARGED
240 minute summer	22	4	218.616	0.000	0.0	0.0000	0.0000	OK
240 minute summer	23	140	218.610	0.642	3.6	2.1561	0.0000	FLOOD RISK
240 minute summer	24	164	217.650	0.337	6.7	0.6311	0.0000	SURCHARGED
240 minute summer	25	168	217.637	1.391	12.4	13.6685	0.0000	FLOOD RISK
240 minute summer	28	240	215.639	0.038	2.0	0.0426	0.0000	OK
240 minute summer	26	240	217.565	1.487	9.2	22.2143	0.0000	FLOOD RISK
240 minute summer	27	240	217.565	1.071	3.9	7.0744	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	-1.0	-0.066	-0.067	0.5543	
240 minute summer	2	1.001	3	2.7	0.197	0.141	0.5317	
240 minute summer	3	Orifice	4	4.1				
240 minute summer	4	1.003	5	11.7	0.337	0.339	1.4353	
240 minute summer	5	Orifice	6	6.9				
240 minute summer	6	1.005	7	7.9	0.589	0.230	1.1469	
240 minute summer	7	1.006	8	11.1	0.380	0.218	1.0030	
240 minute summer	13	2.000	14	3.5	0.530	0.240	0.3981	
240 minute summer	14	2.001	15	3.6	0.493	0.247	0.5573	
240 minute summer	20	3.000	21	-0.4	0.153	-0.025	0.2211	
240 minute summer	21	3.001	15	-0.8	0.180	-0.054	0.2363	
240 minute summer	15	2.002	16	2.6	0.409	0.180	0.7028	
240 minute summer	16	2.003	17	3.3	0.187	0.228	0.5717	
240 minute summer	17	Orifice	18	2.2				
240 minute summer	18	2.005	19	8.6	0.625	0.204	1.0970	
240 minute summer	19	2.006	8	11.1	0.321	0.215	1.8341	
240 minute summer	8	Orifice	9	8.4				
240 minute summer	9	1.008	10	9.1	0.402	0.214	0.5293	
240 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
240 minute summer	23	Orifice	24	2.0				
240 minute summer	24	4.002	25	6.1	0.700	0.240	0.8546	
240 minute summer	25	Orifice	26	6.1				
240 minute summer	28	4.005	OUTFALL2	2.0	0.478	0.056	0.0268	51.3
240 minute summer	26	Hydro-Brake®	28	2.0				
240 minute summer	27	5.001	26	-3.3	-0.188	-0.243	1.0194	

Results for 100 year +30% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 98.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	10	148	217.551	0.884	10.3	4.6331	0.0000	FLOOD RISK
240 minute summer	11	104	216.702	0.091	8.5	0.0257	0.0000	OK
240 minute summer	OUTFALL1	104	216.662	0.082	8.5	0.0000	0.0000	OK
240 minute summer	12	240	217.565	1.002	0.4	0.2837	0.0000	FLOOD RISK
240 minute summer	OUTFALL2	240	215.607	0.036	2.0	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)
240 minute summer	10	Hydro-Brake®	11	8.5				
240 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	212.0
240 minute summer	12	5.000	27	-0.4	-0.040	-0.031	0.2066	

Results for 100 year +30% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 98.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	156	218.943	0.233	0.7	0.0659	0.0000	SURCHARGED
240 minute winter	2	156	218.943	0.443	3.1	1.6543	0.0000	SURCHARGED
240 minute winter	3	156	218.939	0.796	5.0	3.6336	0.0000	FLOOD RISK
240 minute winter	4	176	218.482	0.933	11.5	11.7531	0.0000	FLOOD RISK
240 minute winter	5	176	218.476	1.087	12.3	15.5648	0.0000	FLOOD RISK
240 minute winter	6	264	218.017	0.799	14.9	57.4933	0.0000	FLOOD RISK
240 minute winter	7	264	218.013	0.923	11.4	4.2096	0.0000	SURCHARGED
240 minute winter	13	180	219.294	0.630	2.9	0.4255	0.0000	SURCHARGED
240 minute winter	14	184	219.294	0.781	3.8	2.3428	0.0000	SURCHARGED
240 minute winter	20	184	219.293	0.818	0.5	0.2446	0.0000	SURCHARGED
240 minute winter	21	184	219.293	0.902	1.2	1.6967	0.0000	SURCHARGED
240 minute winter	15	184	219.293	0.991	3.7	5.5832	0.0000	SURCHARGED
240 minute winter	16	184	219.290	1.254	4.5	6.3775	0.0000	SURCHARGED
240 minute winter	17	188	219.286	1.466	5.9	12.7451	0.0000	FLOOD RISK
240 minute winter	18	236	218.011	0.522	7.7	2.9963	0.0000	SURCHARGED
240 minute winter	19	236	218.011	0.705	9.5	2.7766	0.0000	SURCHARGED
240 minute winter	8	264	218.009	1.162	19.7	27.0486	0.0000	FLOOD RISK
240 minute winter	9	156	217.579	0.823	9.6	1.8249	0.0000	SURCHARGED
240 minute winter	22	4	218.616	0.000	0.0	0.0000	0.0000	OK
240 minute winter	23	148	218.588	0.620	2.7	1.7935	0.0000	FLOOD RISK
240 minute winter	24	172	217.721	0.408	5.4	0.8570	0.0000	SURCHARGED
240 minute winter	25	172	217.704	1.458	10.0	16.6016	0.2517	FLOOD
240 minute winter	28	232	215.639	0.038	2.0	0.0428	0.0000	OK
240 minute winter	26	232	217.604	1.526	7.8	24.9144	0.0000	FLOOD RISK
240 minute winter	27	228	217.600	1.106	3.1	7.4442	2.0421	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	-0.7	-0.063	-0.051	0.5543	
240 minute winter	2	1.001	3	2.3	0.190	0.120	0.5317	
240 minute winter	3	Orifice	4	4.0				
240 minute winter	4	1.003	5	9.9	0.309	0.287	1.4353	
240 minute winter	5	Orifice	6	7.0				
240 minute winter	6	1.005	7	8.9	0.612	0.257	1.1469	
240 minute winter	7	1.006	8	10.7	0.364	0.210	1.0030	
240 minute winter	13	2.000	14	2.6	0.516	0.182	0.3981	
240 minute winter	14	2.001	15	2.9	0.494	0.203	0.5573	
240 minute winter	20	3.000	21	-0.4	0.153	-0.028	0.2211	
240 minute winter	21	3.001	15	-0.7	0.178	-0.049	0.2363	
240 minute winter	15	2.002	16	3.2	0.413	0.221	0.7028	
240 minute winter	16	2.003	17	4.0	0.229	0.280	0.5717	
240 minute winter	17	Orifice	18	2.3				
240 minute winter	18	2.005	19	7.3	0.639	0.173	1.0970	
240 minute winter	19	2.006	8	9.3	0.258	0.180	1.8341	
240 minute winter	8	Orifice	9	8.4				
240 minute winter	9	1.008	10	8.8	0.407	0.207	0.5293	
240 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
240 minute winter	23	Orifice	24	2.0				
240 minute winter	24	4.002	25	5.1	0.716	0.201	0.8546	
240 minute winter	25	Orifice	26	5.5				
240 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	52.1
240 minute winter	26	Hydro-Brake®	28	2.0				
240 minute winter	27	5.001	26	-2.7	-0.154	-0.200	1.0194	

Results for 100 year +30% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 98.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	10	156	217.574	0.908	9.6	4.9131	0.0000	FLOOD RISK
240 minute winter	11	92	216.702	0.091	8.5	0.0257	0.0000	OK
240 minute winter	OUTFALL1	92	216.662	0.082	8.5	0.0000	0.0000	OK
240 minute winter	12	236	217.600	1.037	0.4	0.2935	0.0000	FLOOD RISK
240 minute winter	OUTFALL2	232	215.607	0.036	2.0	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)
240 minute winter	10	Hydro-Brake®	11	8.5				
240 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	216.4
240 minute winter	12	5.000	27	-0.4	-0.048	-0.032	0.2066	

Results for 100 year +30% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.15%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	208	218.861	0.151	0.5	0.0427	0.0000	SURCHARGED
360 minute summer	2	208	218.861	0.361	3.2	1.2320	0.0000	SURCHARGED
360 minute summer	3	208	218.857	0.714	4.9	2.6048	0.0000	SURCHARGED
360 minute summer	4	224	218.431	0.882	11.7	8.5959	0.0000	FLOOD RISK
360 minute summer	5	232	218.425	1.036	12.3	13.1144	0.0000	FLOOD RISK
360 minute summer	6	328	217.998	0.780	13.2	48.6322	0.0000	FLOOD RISK
360 minute summer	7	328	217.995	0.905	11.7	4.1172	0.0000	SURCHARGED
360 minute summer	13	240	219.215	0.551	3.0	0.3718	0.0000	SURCHARGED
360 minute summer	14	240	219.215	0.701	4.0	2.0686	0.0000	SURCHARGED
360 minute summer	20	240	219.213	0.738	0.5	0.2208	0.0000	SURCHARGED
360 minute summer	21	240	219.213	0.822	0.8	1.5350	0.0000	SURCHARGED
360 minute summer	15	240	219.213	0.911	3.5	5.0733	0.0000	SURCHARGED
360 minute summer	16	240	219.211	1.175	3.2	5.9147	0.0000	SURCHARGED
360 minute summer	17	248	219.207	1.387	4.0	9.2814	0.0000	FLOOD RISK
360 minute summer	18	328	217.996	0.506	7.8	2.8692	0.0000	SURCHARGED
360 minute summer	19	328	217.995	0.690	9.3	2.6983	0.0000	SURCHARGED
360 minute summer	8	328	217.993	1.146	19.9	25.4839	0.0000	FLOOD RISK
360 minute summer	9	216	217.544	0.789	9.5	1.7317	0.0000	SURCHARGED
360 minute summer	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
360 minute summer	23	200	218.544	0.576	2.8	1.4966	0.0000	SURCHARGED
360 minute summer	24	232	217.635	0.322	5.4	0.5850	0.0000	SURCHARGED
360 minute summer	25	240	217.625	1.379	9.3	13.1753	0.0000	FLOOD RISK
360 minute summer	28	304	215.639	0.038	2.0	0.0425	0.0000	OK
360 minute summer	26	304	217.562	1.484	8.0	21.9922	0.0000	FLOOD RISK
360 minute summer	27	304	217.562	1.068	3.3	7.0408	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	-0.5	-0.033	-0.035	0.5542	
360 minute summer	2	1.001	3	2.3	0.182	0.117	0.5317	
360 minute summer	3	Orifice	4	3.8				
360 minute summer	4	1.003	5	9.8	0.252	0.283	1.4353	
360 minute summer	5	Orifice	6	6.8				
360 minute summer	6	1.005	7	9.0	0.577	0.260	1.1469	
360 minute summer	7	1.006	8	10.9	0.289	0.213	1.0030	
360 minute summer	13	2.000	14	2.7	0.488	0.187	0.3981	
360 minute summer	14	2.001	15	2.8	0.484	0.196	0.5573	
360 minute summer	20	3.000	21	-0.3	0.153	-0.022	0.2211	
360 minute summer	21	3.001	15	0.5	0.175	0.034	0.2363	
360 minute summer	15	2.002	16	2.2	0.399	0.153	0.7028	
360 minute summer	16	2.003	17	2.9	0.192	0.198	0.5717	
360 minute summer	17	Orifice	18	2.2				
360 minute summer	18	2.005	19	7.0	0.615	0.165	1.0970	
360 minute summer	19	2.006	8	8.8	0.222	0.170	1.8341	
360 minute summer	8	Orifice	9	8.4				
360 minute summer	9	1.008	10	8.8	0.392	0.208	0.5293	
360 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
360 minute summer	23	Orifice	24	1.9				
360 minute summer	24	4.002	25	4.9	0.697	0.191	0.8546	
360 minute summer	25	Orifice	26	5.6				
360 minute summer	28	4.005	OUTFALL2	2.0	0.478	0.056	0.0268	62.3
360 minute summer	26	Hydro-Brake®	28	2.0				
360 minute summer	27	5.001	26	-2.8	-0.157	-0.204	1.0194	

Results for 100 year +30% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.15%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	10	216	217.540	0.874	9.6	4.5057	0.0000	FLOOD RISK
360 minute summer	11	600	216.702	0.091	8.5	0.0257	0.0000	OK
360 minute summer	OUTFALL1	600	216.662	0.082	8.5	0.0000	0.0000	OK
360 minute summer	12	304	217.562	0.999	0.3	0.2828	0.0000	FLOOD RISK
360 minute summer	OUTFALL2	304	215.607	0.036	2.0	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)
360 minute summer	10	Hydro-Brake®	11	8.5				
360 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	257.1
360 minute summer	12	5.000	27	-0.3	-0.037	-0.025	0.2066	

Results for 100 year +30% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.01%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	216	218.803	0.093	0.2	0.0264	0.0000	OK
360 minute winter	2	216	218.803	0.303	2.4	0.9676	0.0000	SURCHARGED
360 minute winter	3	216	218.800	0.657	4.1	2.3268	0.0000	SURCHARGED
360 minute winter	4	240	218.446	0.897	9.3	9.3731	0.0000	FLOOD RISK
360 minute winter	5	248	218.441	1.052	10.0	13.8633	0.0000	FLOOD RISK
360 minute winter	6	352	218.030	0.812	11.5	63.3646	0.0000	FLOOD RISK
360 minute winter	7	352	218.027	0.937	8.8	4.2832	0.0000	SURCHARGED
360 minute winter	13	264	219.275	0.611	2.2	0.4123	0.0000	SURCHARGED
360 minute winter	14	264	219.274	0.761	2.9	2.2752	0.0000	SURCHARGED
360 minute winter	20	264	219.273	0.798	0.3	0.2387	0.0000	SURCHARGED
360 minute winter	21	264	219.273	0.882	0.8	1.6567	0.0000	SURCHARGED
360 minute winter	15	264	219.273	0.971	3.0	5.4572	0.0000	SURCHARGED
360 minute winter	16	264	219.270	1.234	3.6	6.2630	0.0000	SURCHARGED
360 minute winter	17	264	219.267	1.447	4.7	11.8766	0.0000	FLOOD RISK
360 minute winter	18	344	218.027	0.538	6.3	3.1256	0.0000	SURCHARGED
360 minute winter	19	344	218.026	0.721	7.7	2.8560	0.0000	SURCHARGED
360 minute winter	8	352	218.025	1.178	16.1	28.5168	0.0000	FLOOD RISK
360 minute winter	9	232	217.564	0.809	9.2	1.7865	0.0000	SURCHARGED
360 minute winter	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
360 minute winter	23	208	218.455	0.487	2.0	1.1225	0.0000	SURCHARGED
360 minute winter	24	248	217.699	0.386	4.3	0.7849	0.0000	SURCHARGED
360 minute winter	25	256	217.691	1.445	7.8	16.0194	0.0000	FLOOD RISK
360 minute winter	28	280	215.639	0.038	2.0	0.0428	0.0000	OK
360 minute winter	26	280	217.604	1.526	6.5	24.9273	0.0000	FLOOD RISK
360 minute winter	27	272	217.600	1.106	2.4	7.4442	3.9431	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.2	0.020	0.016	0.4584	
360 minute winter	2	1.001	3	2.0	0.161	0.103	0.5317	
360 minute winter	3	Orifice	4	3.5				
360 minute winter	4	1.003	5	8.2	0.255	0.238	1.4353	
360 minute winter	5	Orifice	6	6.7				
360 minute winter	6	1.005	7	6.7	0.568	0.196	1.1469	
360 minute winter	7	1.006	8	8.5	0.287	0.167	1.0030	
360 minute winter	13	2.000	14	2.0	0.472	0.136	0.3981	
360 minute winter	14	2.001	15	2.3	0.446	0.158	0.5573	
360 minute winter	20	3.000	21	-0.2	0.153	-0.014	0.2211	
360 minute winter	21	3.001	15	0.4	0.187	0.030	0.2363	
360 minute winter	15	2.002	16	2.6	0.409	0.179	0.7028	
360 minute winter	16	2.003	17	3.3	0.186	0.226	0.5717	
360 minute winter	17	Orifice	18	2.3				
360 minute winter	18	2.005	19	6.1	0.633	0.143	1.0970	
360 minute winter	19	2.006	8	7.5	0.199	0.145	1.8341	
360 minute winter	8	Orifice	9	8.3				
360 minute winter	9	1.008	10	8.7	0.400	0.205	0.5293	
360 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
360 minute winter	23	Orifice	24	1.8				
360 minute winter	24	4.002	25	4.1	0.678	0.162	0.8546	
360 minute winter	25	Orifice	26	4.8				
360 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	64.0
360 minute winter	26	Hydro-Brake®	28	2.0				
360 minute winter	27	5.001	26	-2.1	-0.122	-0.158	1.0194	

Results for 100 year +30% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.01%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	10	232	217.560	0.894	9.2	4.7459	0.0000	FLOOD RISK
360 minute winter	11	144	216.702	0.091	8.5	0.0257	0.0000	OK
360 minute winter	OUTFALL1	144	216.662	0.082	8.5	0.0000	0.0000	OK
360 minute winter	12	312	217.600	1.037	0.3	0.2935	0.0000	FLOOD RISK
360 minute winter	OUTFALL2	280	215.607	0.036	2.0	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)
360 minute winter	10	Hydro-Brake®	11	8.5				
360 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.581	0.0479	264.1
360 minute winter	12	5.000	27	-0.3	-0.047	-0.021	0.2066	

Results for 100 year +30% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	272	218.756	0.045	0.2	0.0129	0.0000	OK
480 minute summer	2	272	218.755	0.255	2.6	0.7544	0.0000	SURCHARGED
480 minute summer	3	272	218.752	0.609	4.3	2.0927	0.0000	SURCHARGED
480 minute summer	4	296	218.405	0.856	9.8	7.5707	0.0000	FLOOD RISK
480 minute summer	5	296	218.400	1.011	10.6	11.8832	0.0000	FLOOD RISK
480 minute summer	6	384	217.996	0.778	10.7	47.8688	0.0000	FLOOD RISK
480 minute summer	7	392	217.994	0.904	10.4	4.1084	0.0000	SURCHARGED
480 minute summer	13	312	219.201	0.537	2.4	0.3627	0.0000	SURCHARGED
480 minute summer	14	312	219.201	0.688	3.1	2.0222	0.0000	SURCHARGED
480 minute summer	20	312	219.200	0.725	0.4	0.2167	0.0000	SURCHARGED
480 minute summer	21	312	219.200	0.809	0.7	1.5075	0.0000	SURCHARGED
480 minute summer	15	312	219.200	0.898	2.8	4.9863	0.0000	SURCHARGED
480 minute summer	16	312	219.197	1.161	2.8	5.8359	0.0000	SURCHARGED
480 minute summer	17	312	219.193	1.373	3.6	8.6781	0.0000	FLOOD RISK
480 minute summer	18	392	217.994	0.505	6.7	2.8570	0.0000	SURCHARGED
480 minute summer	19	392	217.993	0.688	8.1	2.6902	0.0000	SURCHARGED
480 minute summer	8	392	217.991	1.144	17.7	25.3362	0.0000	FLOOD RISK
480 minute summer	9	280	217.538	0.783	9.3	1.7164	0.0000	SURCHARGED
480 minute summer	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
480 minute summer	23	264	218.450	0.482	2.2	1.1023	0.0000	SURCHARGED
480 minute summer	24	304	217.620	0.307	4.6	0.5431	0.0000	SURCHARGED
480 minute summer	25	312	217.612	1.366	8.4	12.5927	0.0000	FLOOD RISK
480 minute summer	28	368	215.639	0.038	2.0	0.0425	0.0000	OK
480 minute summer	26	368	217.558	1.480	7.0	21.7151	0.0000	FLOOD RISK
480 minute summer	27	368	217.558	1.064	2.7	6.9988	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	-0.2	-0.020	-0.016	0.3481	
480 minute summer	2	1.001	3	2.0	0.165	0.106	0.5317	
480 minute summer	3	Orifice	4	3.5				
480 minute summer	4	1.003	5	8.6	0.240	0.249	1.4353	
480 minute summer	5	Orifice	6	6.6				
480 minute summer	6	1.005	7	8.2	0.581	0.237	1.1469	
480 minute summer	7	1.006	8	9.8	0.278	0.193	1.0030	
480 minute summer	13	2.000	14	2.1	0.472	0.146	0.3981	
480 minute summer	14	2.001	15	2.3	0.455	0.159	0.5573	
480 minute summer	20	3.000	21	-0.3	0.153	-0.021	0.2211	
480 minute summer	21	3.001	15	0.4	0.170	0.027	0.2363	
480 minute summer	15	2.002	16	2.0	0.367	0.136	0.7028	
480 minute summer	16	2.003	17	2.5	0.169	0.172	0.5717	
480 minute summer	17	Orifice	18	2.2				
480 minute summer	18	2.005	19	6.3	0.625	0.149	1.0970	
480 minute summer	19	2.006	8	7.8	0.197	0.152	1.8341	
480 minute summer	8	Orifice	9	8.3				
480 minute summer	9	1.008	10	8.7	0.392	0.206	0.5293	
480 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
480 minute summer	23	Orifice	24	1.7				
480 minute summer	24	4.002	25	4.3	0.704	0.167	0.8546	
480 minute summer	25	Orifice	26	5.1				
480 minute summer	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0267	72.7
480 minute summer	26	Hydro-Brake®	28	2.0				
480 minute summer	27	5.001	26	-2.3	-0.132	-0.172	1.0194	

Results for 100 year +30% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	10	280	217.534	0.868	9.3	4.4387	0.0000	FLOOD RISK
480 minute summer	11	680	216.702	0.091	8.5	0.0257	0.0000	OK
480 minute summer	OUTFALL1	680	216.662	0.082	8.5	0.0000	0.0000	OK
480 minute summer	12	368	217.558	0.995	0.4	0.2817	0.0000	FLOOD RISK
480 minute summer	OUTFALL2	368	215.607	0.036	2.0	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 summer	10	Hydro-Brake®	11	8.5				
480 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.582	0.0480	295.4
480 minute summer	12	5.000	27	-0.4	-0.031	-0.030	0.2066	

Results for 100 year +30% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.21%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	8	218.710	0.000	0.0	0.0000	0.0000	OK
480 minute winter	2	288	218.691	0.191	1.9	0.4569	0.0000	SURCHARGED
480 minute winter	3	288	218.688	0.545	3.6	1.7797	0.0000	SURCHARGED
480 minute winter	4	312	218.406	0.857	7.9	7.6081	0.0000	FLOOD RISK
480 minute winter	5	312	218.402	1.013	8.6	11.9515	0.0000	FLOOD RISK
480 minute winter	6	408	218.024	0.806	9.5	60.5360	0.0000	FLOOD RISK
480 minute winter	7	416	218.021	0.931	8.7	4.2524	0.0000	SURCHARGED
480 minute winter	13	336	219.248	0.584	1.8	0.3944	0.0000	SURCHARGED
480 minute winter	14	336	219.248	0.735	2.4	2.1831	0.0000	SURCHARGED
480 minute winter	20	336	219.247	0.772	0.2	0.2308	0.0000	SURCHARGED
480 minute winter	21	336	219.247	0.856	0.5	1.6031	0.0000	SURCHARGED
480 minute winter	15	336	219.247	0.945	2.5	5.2891	0.0000	SURCHARGED
480 minute winter	16	344	219.244	1.208	3.0	6.1100	0.0000	SURCHARGED
480 minute winter	17	344	219.241	1.421	3.9	10.7552	0.0000	FLOOD RISK
480 minute winter	18	416	218.022	0.533	5.5	3.0779	0.0000	SURCHARGED
480 minute winter	19	416	218.021	0.716	6.7	2.8288	0.0000	SURCHARGED
480 minute winter	8	416	218.019	1.172	14.9	27.9692	0.0000	FLOOD RISK
480 minute winter	9	304	217.551	0.796	9.0	1.7494	0.0000	SURCHARGED
480 minute winter	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
480 minute winter	23	264	218.332	0.364	1.6	0.6906	0.0000	SURCHARGED
480 minute winter	24	328	217.669	0.356	3.7	0.6890	0.0000	SURCHARGED
480 minute winter	25	336	217.664	1.418	6.5	14.8494	0.0000	FLOOD RISK
480 minute winter	28	352	215.639	0.038	2.0	0.0428	0.0000	OK
480 minute winter	26	352	217.602	1.524	5.7	24.8038	0.0000	FLOOD RISK
480 minute winter	27	352	217.600	1.106	2.1	7.4442	2.1075	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.0	0.000	0.000	0.2772	
480 minute winter	2	1.001	3	1.8	0.157	0.093	0.5317	
480 minute winter	3	Orifice	4	3.2				
480 minute winter	4	1.003	5	7.1	0.271	0.207	1.4353	
480 minute winter	5	Orifice	6	6.5				
480 minute winter	6	1.005	7	7.1	0.578	0.205	1.1469	
480 minute winter	7	1.006	8	8.3	0.320	0.164	1.0030	
480 minute winter	13	2.000	14	1.6	0.459	0.113	0.3981	
480 minute winter	14	2.001	15	2.0	0.453	0.136	0.5573	
480 minute winter	20	3.000	21	-0.1	0.153	-0.009	0.2211	
480 minute winter	21	3.001	15	0.4	0.165	0.027	0.2363	
480 minute winter	15	2.002	16	2.2	0.367	0.155	0.7028	
480 minute winter	16	2.003	17	2.8	0.159	0.194	0.5717	
480 minute winter	17	Orifice	18	2.2				
480 minute winter	18	2.005	19	5.3	0.606	0.125	1.0970	
480 minute winter	19	2.006	8	6.5	0.183	0.126	1.8341	
480 minute winter	8	Orifice	9	8.3				
480 minute winter	9	1.008	10	8.7	0.393	0.204	0.5293	
480 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
480 minute winter	23	Orifice	24	1.5				
480 minute winter	24	4.002	25	3.5	0.695	0.138	0.8546	
480 minute winter	25	Orifice	26	4.3				
480 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	75.3
480 minute winter	26	Hydro-Brake®	28	2.0				
480 minute winter	27	5.001	26	-1.8	-0.100	-0.129	1.0194	

Results for 100 year +30% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.21%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	10	304	217.547	0.881	9.1	4.5873	0.0000	FLOOD RISK
480 minute winter	11	192	216.702	0.091	8.5	0.0257	0.0000	OK
480 minute winter	OUTFALL1	192	216.662	0.082	8.5	0.0000	0.0000	OK
480 minute winter	12	376	217.600	1.037	0.3	0.2935	0.0000	FLOOD RISK
480 minute winter	OUTFALL2	352	215.607	0.036	2.0	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	10	Hydro-Brake®	11	8.5				
480 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	308.9
480 minute winter	12	5.000	27	-0.3	-0.058	-0.024	0.2066	

Results for 100 year +30% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
600 minute summer	2	330	218.673	0.173	2.1	0.3834	0.0000	SURCHARGED
600 minute summer	3	330	218.670	0.527	3.6	1.6918	0.0000	SURCHARGED
600 minute summer	4	360	218.380	0.831	8.7	6.9563	0.0000	FLOOD RISK
600 minute summer	5	360	218.375	0.986	9.4	10.6804	0.0000	FLOOD RISK
600 minute summer	6	450	217.994	0.776	9.8	46.7440	0.0000	FLOOD RISK
600 minute summer	7	450	217.991	0.901	9.0	4.0956	0.0000	SURCHARGED
600 minute summer	13	375	219.178	0.514	2.0	0.3472	0.0000	SURCHARGED
600 minute summer	14	375	219.178	0.665	2.6	1.9429	0.0000	SURCHARGED
600 minute summer	20	390	219.177	0.702	0.3	0.2099	0.0000	SURCHARGED
600 minute summer	21	390	219.177	0.786	0.5	1.4607	0.0000	SURCHARGED
600 minute summer	15	390	219.177	0.875	2.6	4.8388	0.0000	SURCHARGED
600 minute summer	16	390	219.175	1.139	2.5	5.7072	0.0000	SURCHARGED
600 minute summer	17	390	219.172	1.352	3.0	7.7848	0.0000	FLOOD RISK
600 minute summer	18	450	217.992	0.502	5.9	2.8374	0.0000	SURCHARGED
600 minute summer	19	450	217.991	0.686	7.1	2.6778	0.0000	SURCHARGED
600 minute summer	8	450	217.989	1.142	16.2	25.1082	0.0000	FLOOD RISK
600 minute summer	9	345	217.532	0.777	9.2	1.6996	0.0000	SURCHARGED
600 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
600 minute summer	23	330	218.369	0.401	1.8	0.8077	0.0000	SURCHARGED
600 minute summer	24	375	217.605	0.292	4.0	0.5011	0.0000	SURCHARGED
600 minute summer	25	375	217.598	1.352	7.2	12.0042	0.0000	FLOOD RISK
600 minute summer	28	435	215.639	0.038	2.0	0.0425	0.0000	OK
600 minute summer	26	435	217.555	1.477	6.2	21.4638	0.0000	FLOOD RISK
600 minute summer	27	435	217.555	1.061	2.3	6.9603	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.0	0.000	0.000	0.2772	
600 minute summer	2	1.001	3	1.7	0.155	0.087	0.5317	
600 minute summer	3	Orifice	4	3.3				
600 minute summer	4	1.003	5	7.7	0.239	0.222	1.4353	
600 minute summer	5	Orifice	6	6.4				
600 minute summer	6	1.005	7	6.9	0.587	0.200	1.1469	
600 minute summer	7	1.006	8	8.7	0.236	0.170	1.0030	
600 minute summer	13	2.000	14	1.8	0.455	0.125	0.3981	
600 minute summer	14	2.001	15	2.0	0.437	0.137	0.5573	
600 minute summer	20	3.000	21	-0.2	0.147	-0.011	0.2211	
600 minute summer	21	3.001	15	0.4	0.166	0.027	0.2363	
600 minute summer	15	2.002	16	1.6	0.367	0.114	0.7028	
600 minute summer	16	2.003	17	2.1	0.143	0.145	0.5717	
600 minute summer	17	Orifice	18	2.2				
600 minute summer	18	2.005	19	5.6	0.603	0.132	1.0970	
600 minute summer	19	2.006	8	6.9	0.174	0.133	1.8341	
600 minute summer	8	Orifice	9	8.3				
600 minute summer	9	1.008	10	8.6	0.391	0.203	0.5293	
600 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
600 minute summer	23	Orifice	24	1.6				
600 minute summer	24	4.002	25	3.8	0.698	0.149	0.8546	
600 minute summer	25	Orifice	26	4.6				
600 minute summer	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0267	81.3
600 minute summer	26	Hydro-Brake®	28	2.0				
600 minute summer	27	5.001	26	-2.0	-0.113	-0.147	1.0194	

Results for 100 year +30% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	10	345	217.528	0.862	9.0	4.3702	0.0000	FLOOD RISK
600 minute summer	11	270	216.702	0.091	8.5	0.0257	0.0000	OK
600 minute summer	OUTFALL1	270	216.662	0.082	8.5	0.0000	0.0000	OK
600 minute summer	12	435	217.555	0.992	0.3	0.2806	0.0000	FLOOD RISK
600 minute summer	OUTFALL2	435	215.607	0.036	2.0	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)
600 minute summer	10	Hydro-Brake®	11	8.5				
600 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	316.2
600 minute summer	12	5.000	27	-0.3	-0.015	-0.020	0.2066	

Results for 100 year +30% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
600 minute winter	2	345	218.587	0.087	1.6	0.1315	0.0000	OK
600 minute winter	3	345	218.586	0.443	3.2	1.3110	0.0000	SURCHARGED
600 minute winter	4	375	218.362	0.813	6.9	6.7003	0.0000	SURCHARGED
600 minute winter	5	375	218.358	0.969	7.7	9.8348	0.0000	FLOOD RISK
600 minute winter	6	480	218.020	0.802	8.8	58.5847	0.0000	FLOOD RISK
600 minute winter	7	480	218.017	0.927	8.1	4.2316	0.0000	SURCHARGED
600 minute winter	13	420	219.215	0.551	1.5	0.3720	0.0000	SURCHARGED
600 minute winter	14	420	219.215	0.702	2.0	2.0699	0.0000	SURCHARGED
600 minute winter	20	420	219.214	0.739	0.2	0.2209	0.0000	SURCHARGED
600 minute winter	21	420	219.214	0.823	0.4	1.5359	0.0000	SURCHARGED
600 minute winter	15	420	219.214	0.912	2.0	5.0763	0.0000	SURCHARGED
600 minute winter	16	420	219.212	1.176	2.5	5.9211	0.0000	SURCHARGED
600 minute winter	17	420	219.209	1.389	3.3	9.3434	0.0000	FLOOD RISK
600 minute winter	18	480	218.018	0.528	5.0	3.0455	0.0000	SURCHARGED
600 minute winter	19	480	218.017	0.712	6.0	2.8080	0.0000	SURCHARGED
600 minute winter	8	480	218.015	1.168	13.8	27.5769	0.0000	FLOOD RISK
600 minute winter	9	390	217.543	0.788	8.9	1.7287	0.0000	SURCHARGED
600 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
600 minute winter	23	330	218.258	0.290	1.4	0.4785	0.0000	SURCHARGED
600 minute winter	24	420	217.655	0.342	3.2	0.6454	0.0000	SURCHARGED
600 minute winter	25	420	217.651	1.405	5.7	14.3085	0.0000	FLOOD RISK
600 minute winter	28	435	215.639	0.038	2.0	0.0428	0.0000	OK
600 minute winter	26	435	217.602	1.524	5.1	24.7657	0.0000	FLOOD RISK
600 minute winter	27	435	217.600	1.106	1.7	7.4442	1.6302	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.0	0.000	0.000	0.1673	
600 minute winter	2	1.001	3	1.6	0.155	0.083	0.4263	
600 minute winter	3	Orifice	4	2.9				
600 minute winter	4	1.003	5	6.4	0.239	0.187	1.4353	
600 minute winter	5	Orifice	6	6.2				
600 minute winter	6	1.005	7	6.6	0.583	0.192	1.1469	
600 minute winter	7	1.006	8	7.8	0.261	0.154	1.0030	
600 minute winter	13	2.000	14	1.4	0.440	0.095	0.3981	
600 minute winter	14	2.001	15	1.7	0.420	0.116	0.5573	
600 minute winter	20	3.000	21	0.1	0.153	0.008	0.2211	
600 minute winter	21	3.001	15	0.3	0.170	0.024	0.2363	
600 minute winter	15	2.002	16	1.8	0.367	0.124	0.7028	
600 minute winter	16	2.003	17	2.3	0.169	0.158	0.5717	
600 minute winter	17	Orifice	18	2.2				
600 minute winter	18	2.005	19	4.8	0.605	0.113	1.0970	
600 minute winter	19	2.006	8	5.9	0.148	0.114	1.8341	
600 minute winter	8	Orifice	9	8.2				
600 minute winter	9	1.008	10	8.5	0.391	0.201	0.5293	
600 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
600 minute winter	23	Orifice	24	1.3				
600 minute winter	24	4.002	25	3.1	0.709	0.122	0.8546	
600 minute winter	25	Orifice	26	3.9				
600 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	85.2
600 minute winter	26	Hydro-Brake®	28	2.0				
600 minute winter	27	5.001	26	-1.5	-0.084	-0.109	1.0194	

Results for 100 year +30% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	10	390	217.539	0.872	8.9	4.4911	0.0000	FLOOD RISK
600 minute winter	11	240	216.702	0.091	8.5	0.0257	0.0000	OK
600 minute winter	OUTFALL1	240	216.662	0.082	8.5	0.0000	0.0000	OK
600 minute winter	12	450	217.600	1.037	0.2	0.2935	0.0000	FLOOD RISK
600 minute winter	OUTFALL2	435	215.607	0.036	2.0	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)
600 minute winter	10	Hydro-Brake®	11	8.5				
600 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.582	0.0480	351.6
600 minute winter	12	5.000	27	-0.2	-0.020	-0.017	0.2066	

Results for 100 year +30% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
720 minute summer	2	390	218.609	0.109	1.9	0.1813	0.0000	OK
720 minute summer	3	390	218.607	0.464	3.8	1.4035	0.0000	SURCHARGED
720 minute summer	4	420	218.350	0.800	8.0	6.5238	0.0000	SURCHARGED
720 minute summer	5	420	218.345	0.956	8.5	9.2034	0.0000	FLOOD RISK
720 minute summer	6	510	217.991	0.772	9.3	45.2364	0.0000	FLOOD RISK
720 minute summer	7	510	217.988	0.898	8.5	4.0775	0.0000	SURCHARGED
720 minute summer	13	450	219.164	0.500	1.8	0.3377	0.0000	SURCHARGED
720 minute summer	14	450	219.164	0.651	2.4	1.8937	0.0000	SURCHARGED
720 minute summer	20	450	219.163	0.688	0.2	0.2057	0.0000	SURCHARGED
720 minute summer	21	450	219.163	0.772	0.5	1.4321	0.0000	SURCHARGED
720 minute summer	15	450	219.163	0.861	2.3	4.7495	0.0000	SURCHARGED
720 minute summer	16	450	219.160	1.124	2.3	5.6205	0.0000	SURCHARGED
720 minute summer	17	450	219.156	1.336	2.9	7.2738	0.0000	FLOOD RISK
720 minute summer	18	510	217.988	0.499	5.4	2.8105	0.0000	SURCHARGED
720 minute summer	19	510	217.987	0.682	6.6	2.6617	0.0000	SURCHARGED
720 minute summer	8	510	217.986	1.139	15.2	24.7985	0.0000	FLOOD RISK
720 minute summer	9	420	217.529	0.774	9.0	1.6911	0.0000	SURCHARGED
720 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
720 minute summer	23	390	218.332	0.364	1.7	0.6900	0.0000	SURCHARGED
720 minute summer	24	450	217.594	0.280	3.7	0.4719	0.0000	SURCHARGED
720 minute summer	25	450	217.589	1.343	6.5	11.6073	0.0000	FLOOD RISK
720 minute summer	28	510	215.639	0.038	2.0	0.0425	0.0000	OK
720 minute summer	26	510	217.550	1.472	5.8	21.1126	0.0000	FLOOD RISK
720 minute summer	27	510	217.550	1.056	2.1	6.9055	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.0	0.000	0.000	0.2164	
720 minute summer	2	1.001	3	1.9	0.155	0.098	0.4734	
720 minute summer	3	Orifice	4	3.2				
720 minute summer	4	1.003	5	7.0	0.239	0.204	1.4353	
720 minute summer	5	Orifice	6	6.2				
720 minute summer	6	1.005	7	6.6	0.584	0.192	1.1469	
720 minute summer	7	1.006	8	8.2	0.230	0.161	1.0030	
720 minute summer	13	2.000	14	1.6	0.440	0.112	0.3981	
720 minute summer	14	2.001	15	1.8	0.440	0.128	0.5573	
720 minute summer	20	3.000	21	0.1	0.153	0.008	0.2211	
720 minute summer	21	3.001	15	0.4	0.170	0.027	0.2363	
720 minute summer	15	2.002	16	1.7	0.367	0.115	0.7028	
720 minute summer	16	2.003	17	1.9	0.143	0.130	0.5717	
720 minute summer	17	Orifice	18	2.2				
720 minute summer	18	2.005	19	5.2	0.617	0.122	1.0970	
720 minute summer	19	2.006	8	6.4	0.161	0.123	1.8341	
720 minute summer	8	Orifice	9	8.2				
720 minute summer	9	1.008	10	8.6	0.391	0.203	0.5293	
720 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
720 minute summer	23	Orifice	24	1.5				
720 minute summer	24	4.002	25	3.5	0.670	0.139	0.8546	
720 minute summer	25	Orifice	26	4.3				
720 minute summer	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0267	90.1
720 minute summer	26	Hydro-Brake®	28	2.0				
720 minute summer	27	5.001	26	-1.8	-0.102	-0.132	1.0194	

Results for 100 year +30% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	10	420	217.525	0.859	9.0	4.3327	0.0000	FLOOD RISK
720 minute summer	11	840	216.702	0.091	8.5	0.0257	0.0000	OK
720 minute summer	OUTFALL1	840	216.662	0.082	8.5	0.0000	0.0000	OK
720 minute summer	12	510	217.550	0.987	0.2	0.2792	0.0000	FLOOD RISK
720 minute summer	OUTFALL2	510	215.607	0.035	2.0	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	10	Hydro-Brake®	11	8.5				
720 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	337.0
720 minute summer	12	5.000	27	-0.2	-0.029	-0.017	0.2066	

Results for 100 year +30% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.56%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
720 minute winter	2	375	218.528	0.028	1.5	0.0310	0.0000	OK
720 minute winter	3	405	218.524	0.381	3.0	1.0491	0.0000	SURCHARGED
720 minute winter	4	435	218.322	0.773	6.3	6.1437	0.0000	SURCHARGED
720 minute winter	5	435	218.318	0.929	7.0	7.8958	0.0000	FLOOD RISK
720 minute winter	6	540	218.013	0.795	8.3	55.5188	0.0000	FLOOD RISK
720 minute winter	7	540	218.011	0.921	7.6	4.1978	0.0000	SURCHARGED
720 minute winter	13	480	219.203	0.539	1.4	0.3637	0.0000	SURCHARGED
720 minute winter	14	480	219.202	0.689	1.9	2.0267	0.0000	SURCHARGED
720 minute winter	20	495	219.201	0.726	0.1	0.2172	0.0000	SURCHARGED
720 minute winter	21	495	219.201	0.810	0.4	1.5105	0.0000	SURCHARGED
720 minute winter	15	495	219.201	0.899	2.0	4.9965	0.0000	SURCHARGED
720 minute winter	16	495	219.199	1.163	2.3	5.8486	0.0000	SURCHARGED
720 minute winter	17	495	219.196	1.376	2.9	8.7988	0.0000	FLOOD RISK
720 minute winter	18	540	218.012	0.523	4.7	2.9979	0.0000	SURCHARGED
720 minute winter	19	540	218.011	0.706	5.5	2.7773	0.0000	SURCHARGED
720 minute winter	8	540	218.009	1.162	13.1	26.9876	0.0000	FLOOD RISK
720 minute winter	9	450	217.532	0.777	8.8	1.6991	0.0000	SURCHARGED
720 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
720 minute winter	23	390	218.222	0.254	1.3	0.3875	0.0000	SURCHARGED
720 minute winter	24	495	217.641	0.327	2.9	0.6018	0.0000	SURCHARGED
720 minute winter	25	495	217.638	1.392	5.1	13.7197	0.0000	FLOOD RISK
720 minute winter	28	525	215.639	0.038	2.0	0.0428	0.0000	OK
720 minute winter	26	525	217.601	1.523	4.7	24.6825	0.0000	FLOOD RISK
720 minute winter	27	525	217.600	1.106	1.5	7.4442	0.6237	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.0	0.000	0.000	0.0362	
720 minute winter	2	1.001	3	1.5	0.155	0.078	0.3005	
720 minute winter	3	Orifice	4	2.7				
720 minute winter	4	1.003	5	5.9	0.241	0.171	1.4353	
720 minute winter	5	Orifice	6	5.9				
720 minute winter	6	1.005	7	6.2	0.589	0.180	1.1469	
720 minute winter	7	1.006	8	7.4	0.230	0.145	1.0030	
720 minute winter	13	2.000	14	1.3	0.419	0.090	0.3981	
720 minute winter	14	2.001	15	1.6	0.420	0.108	0.5573	
720 minute winter	20	3.000	21	0.1	0.153	0.008	0.2211	
720 minute winter	21	3.001	15	0.3	0.170	0.023	0.2363	
720 minute winter	15	2.002	16	1.7	0.402	0.116	0.7028	
720 minute winter	16	2.003	17	2.1	0.150	0.148	0.5717	
720 minute winter	17	Orifice	18	2.2				
720 minute winter	18	2.005	19	4.5	0.603	0.107	1.0970	
720 minute winter	19	2.006	8	5.4	0.161	0.105	1.8341	
720 minute winter	8	Orifice	9	8.2				
720 minute winter	9	1.008	10	8.5	0.391	0.202	0.5293	
720 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
720 minute winter	23	Orifice	24	1.2				
720 minute winter	24	4.002	25	2.8	0.709	0.110	0.8546	
720 minute winter	25	Orifice	26	3.6				
720 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	95.4
720 minute winter	26	Hydro-Brake®	28	2.0				
720 minute winter	27	5.001	26	-1.3	-0.074	-0.096	1.0194	

Results for 100 year +30% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.56%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	10	450	217.528	0.862	8.8	4.3666	0.0000	FLOOD RISK
720 minute winter	11	300	216.702	0.091	8.5	0.0257	0.0000	OK
720 minute winter	OUTFALL1	300	216.662	0.082	8.5	0.0000	0.0000	OK
720 minute winter	12	525	217.600	1.037	0.2	0.2935	0.0000	FLOOD RISK
720 minute winter	OUTFALL2	525	215.607	0.036	2.0	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 winter	10	Hydro-Brake®	11	8.5				
720 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	378.1
720 minute winter	12	5.000	27	-0.2	-0.017	-0.018	0.2066	

Results for 100 year +30% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.74%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
960 minute summer	2	495	218.529	0.029	1.6	0.0322	0.0000	OK
960 minute summer	3	510	218.525	0.382	3.2	1.0535	0.0000	SURCHARGED
960 minute summer	4	540	218.306	0.757	7.0	5.9199	0.0000	SURCHARGED
960 minute summer	5	540	218.302	0.913	7.4	7.1045	0.0000	FLOOD RISK
960 minute summer	6	645	217.983	0.765	8.6	41.8620	0.0000	FLOOD RISK
960 minute summer	7	645	217.981	0.891	8.4	4.0411	0.0000	SURCHARGED
960 minute summer	13	585	219.118	0.454	1.5	0.3061	0.0000	SURCHARGED
960 minute summer	14	585	219.117	0.604	2.0	1.7336	0.0000	SURCHARGED
960 minute summer	20	585	219.116	0.641	0.2	0.1917	0.0000	SURCHARGED
960 minute summer	21	585	219.116	0.725	0.4	1.3374	0.0000	SURCHARGED
960 minute summer	15	585	219.116	0.814	1.9	4.4500	0.0000	SURCHARGED
960 minute summer	16	585	219.114	1.078	2.1	5.3525	0.0000	SURCHARGED
960 minute summer	17	585	219.111	1.291	2.6	6.5822	0.0000	SURCHARGED
960 minute summer	18	630	217.982	0.493	4.9	2.7605	0.0000	SURCHARGED
960 minute summer	19	630	217.981	0.676	5.9	2.6311	0.0000	SURCHARGED
960 minute summer	8	645	217.979	1.132	14.3	24.1625	0.0000	FLOOD RISK
960 minute summer	9	555	217.516	0.761	8.8	1.6562	0.0000	SURCHARGED
960 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
960 minute summer	23	495	218.243	0.275	1.4	0.4394	0.0000	SURCHARGED
960 minute summer	24	600	217.586	0.273	3.2	0.4525	0.0000	SURCHARGED
960 minute summer	25	600	217.583	1.337	5.7	11.3485	0.0000	FLOOD RISK
960 minute summer	28	645	215.639	0.038	2.0	0.0425	0.0000	OK
960 minute summer	26	645	217.551	1.472	5.1	21.1734	0.0000	FLOOD RISK
960 minute summer	27	645	217.551	1.056	1.7	6.9156	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.0	0.000	0.000	0.0378	
960 minute summer	2	1.001	3	1.6	0.155	0.083	0.3021	
960 minute summer	3	Orifice	4	2.9				
960 minute summer	4	1.003	5	6.1	0.239	0.176	1.4353	
960 minute summer	5	Orifice	6	6.0				
960 minute summer	6	1.005	7	6.8	0.582	0.196	1.1469	
960 minute summer	7	1.006	8	8.1	0.210	0.158	1.0030	
960 minute summer	13	2.000	14	1.4	0.440	0.095	0.3981	
960 minute summer	14	2.001	15	1.7	0.420	0.116	0.5573	
960 minute summer	20	3.000	21	0.1	0.153	0.007	0.2211	
960 minute summer	21	3.001	15	0.3	0.170	0.021	0.2363	
960 minute summer	15	2.002	16	1.4	0.367	0.094	0.7028	
960 minute summer	16	2.003	17	1.6	0.140	0.113	0.5717	
960 minute summer	17	Orifice	18	2.1				
960 minute summer	18	2.005	19	4.7	0.608	0.110	1.0970	
960 minute summer	19	2.006	8	5.7	0.155	0.110	1.8341	
960 minute summer	8	Orifice	9	8.2				
960 minute summer	9	1.008	10	8.5	0.392	0.201	0.5293	
960 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
960 minute summer	23	Orifice	24	1.3				
960 minute summer	24	4.002	25	3.1	0.698	0.122	0.8546	
960 minute summer	25	Orifice	26	3.9				
960 minute summer	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0267	107.1
960 minute summer	26	Hydro-Brake®	28	2.0				
960 minute summer	27	5.001	26	-1.5	-0.088	-0.114	1.0194	

Results for 100 year +30% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.74%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	10	555	217.512	0.846	8.9	4.1767	0.0000	FLOOD RISK
960 minute summer	11	990	216.702	0.091	8.5	0.0257	0.0000	OK
960 minute summer	OUTFALL1	990	216.662	0.082	8.5	0.0000	0.0000	OK
960 minute summer	12	645	217.551	0.987	0.2	0.2795	0.0000	FLOOD RISK
960 minute summer	OUTFALL2	645	215.607	0.035	2.0	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)
960 minute summer	10	Hydro-Brake®	11	8.5				
960 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	372.0
960 minute summer	12	5.000	27	-0.2	-0.024	-0.014	0.2066	

Results for 100 year +30% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
960 minute winter	2	480	218.525	0.025	1.2	0.0273	0.0000	OK
960 minute winter	3	540	218.404	0.261	2.4	0.5440	0.0000	SURCHARGED
960 minute winter	4	555	218.259	0.710	5.4	5.3072	0.0000	SURCHARGED
960 minute winter	5	555	218.255	0.866	5.9	5.1233	0.0000	FLOOD RISK
960 minute winter	6	675	217.996	0.778	7.5	47.5715	0.0000	FLOOD RISK
960 minute winter	7	675	217.994	0.904	7.2	4.1083	0.0000	SURCHARGED
960 minute winter	13	630	219.152	0.488	1.1	0.3291	0.0000	SURCHARGED
960 minute winter	14	630	219.151	0.638	1.5	1.8499	0.0000	SURCHARGED
960 minute winter	20	630	219.150	0.675	0.2	0.2019	0.0000	SURCHARGED
960 minute winter	21	630	219.150	0.759	0.3	1.4066	0.0000	SURCHARGED
960 minute winter	15	630	219.150	0.848	1.7	4.6697	0.0000	SURCHARGED
960 minute winter	16	630	219.148	1.112	1.9	5.5509	0.0000	SURCHARGED
960 minute winter	17	630	219.145	1.325	2.4	6.9908	0.0000	FLOOD RISK
960 minute winter	18	660	217.995	0.506	4.2	2.8670	0.0000	SURCHARGED
960 minute winter	19	660	217.994	0.689	4.9	2.6951	0.0000	SURCHARGED
960 minute winter	8	675	217.992	1.145	12.0	25.3733	0.0000	FLOOD RISK
960 minute winter	9	615	217.521	0.766	8.6	1.6696	0.0000	SURCHARGED
960 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
960 minute winter	23	525	218.138	0.170	1.0	0.2131	0.0000	SURCHARGED
960 minute winter	24	660	217.621	0.308	2.4	0.5458	0.0000	SURCHARGED
960 minute winter	25	660	217.619	1.373	4.3	12.8917	0.0000	FLOOD RISK
960 minute winter	28	690	215.639	0.038	2.0	0.0427	0.0000	OK
960 minute winter	26	690	217.589	1.511	4.1	23.8651	0.0000	FLOOD RISK
960 minute winter	27	690	217.589	1.095	1.2	7.3260	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.0	0.000	0.000	0.0309	
960 minute winter	2	1.001	3	1.2	0.155	0.062	0.2955	
960 minute winter	3	Orifice	4	2.4				
960 minute winter	4	1.003	5	5.0	0.239	0.144	1.4353	
960 minute winter	5	Orifice	6	5.5				
960 minute winter	6	1.005	7	6.1	0.589	0.178	1.1469	
960 minute winter	7	1.006	8	7.0	0.220	0.137	1.0030	
960 minute winter	13	2.000	14	1.1	0.419	0.076	0.3981	
960 minute winter	14	2.001	15	1.4	0.420	0.096	0.5573	
960 minute winter	20	3.000	21	0.1	0.153	0.007	0.2211	
960 minute winter	21	3.001	15	0.3	0.170	0.021	0.2363	
960 minute winter	15	2.002	16	1.4	0.379	0.094	0.7028	
960 minute winter	16	2.003	17	1.7	0.128	0.120	0.5717	
960 minute winter	17	Orifice	18	2.2				
960 minute winter	18	2.005	19	4.1	0.599	0.096	1.0970	
960 minute winter	19	2.006	8	4.8	0.152	0.092	1.8341	
960 minute winter	8	Orifice	9	8.1				
960 minute winter	9	1.008	10	8.5	0.390	0.200	0.5293	
960 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
960 minute winter	23	Orifice	24	1.0				
960 minute winter	24	4.002	25	2.4	0.677	0.093	0.8546	
960 minute winter	25	Orifice	26	3.2				
960 minute winter	28	4.005	OUTFALL2	2.0	0.478	0.056	0.0269	114.1
960 minute winter	26	Hydro-Brake®	28	2.0				
960 minute winter	27	5.001	26	-1.0	-0.058	-0.075	1.0194	

Results for 100 year +30% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	10	615	217.517	0.850	8.8	4.2317	0.0000	FLOOD RISK
960 minute winter	11	405	216.702	0.091	8.5	0.0257	0.0000	OK
960 minute winter	OUTFALL1	405	216.662	0.082	8.5	0.0000	0.0000	OK
960 minute winter	12	690	217.589	1.026	0.2	0.2904	0.0000	FLOOD RISK
960 minute winter	OUTFALL2	690	215.607	0.036	2.0	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)
960 minute winter	10	Hydro-Brake®	11	8.5				
960 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	418.6
960 minute winter	12	5.000	27	-0.2	-0.030	-0.015	0.2066	

Results for 100 year +30% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	30	218.710	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	2	750	218.526	0.026	1.3	0.0286	0.0000	OK
1440 minute summer	3	750	218.380	0.237	2.6	0.4624	0.0000	SURCHARGED
1440 minute summer	4	780	218.234	0.685	5.6	5.0046	0.0000	SURCHARGED
1440 minute summer	5	780	218.230	0.841	5.8	4.5435	0.0000	FLOOD RISK
1440 minute summer	6	900	217.966	0.748	7.4	34.1870	0.0000	FLOOD RISK
1440 minute summer	7	900	217.965	0.874	7.0	3.9534	0.0000	SURCHARGED
1440 minute summer	13	840	219.015	0.351	1.2	0.2371	0.0000	SURCHARGED
1440 minute summer	14	840	219.015	0.502	1.7	1.3807	0.0000	SURCHARGED
1440 minute summer	20	840	219.014	0.539	0.2	0.1611	0.0000	SURCHARGED
1440 minute summer	21	840	219.014	0.623	0.3	1.1292	0.0000	SURCHARGED
1440 minute summer	15	840	219.014	0.712	1.7	3.7938	0.0000	SURCHARGED
1440 minute summer	16	840	219.012	0.976	1.9	4.7550	0.0000	SURCHARGED
1440 minute summer	17	840	219.009	1.188	2.3	6.0024	0.0000	SURCHARGED
1440 minute summer	18	900	217.965	0.476	4.2	2.6324	0.0000	SURCHARGED
1440 minute summer	19	900	217.964	0.659	4.9	2.5485	0.0000	SURCHARGED
1440 minute summer	8	900	217.962	1.115	11.9	22.5882	0.0000	FLOOD RISK
1440 minute summer	9	870	217.502	0.747	8.7	1.6191	0.0000	SURCHARGED
1440 minute summer	22	30	218.616	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	23	750	218.165	0.197	1.1	0.2643	0.0000	SURCHARGED
1440 minute summer	24	870	217.554	0.241	2.5	0.3745	0.0000	SURCHARGED
1440 minute summer	25	870	217.552	1.306	4.4	9.9752	0.0000	FLOOD RISK
1440 minute summer	28	930	215.638	0.037	2.0	0.0423	0.0000	OK
1440 minute summer	26	930	217.524	1.446	4.1	19.3289	0.0000	FLOOD RISK
1440 minute summer	27	930	217.524	1.030	1.3	6.6349	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.0	0.000	0.000	0.0327	
1440 minute summer	2	1.001	3	1.3	0.152	0.067	0.2972	
1440 minute summer	3	Orifice	4	2.5				
1440 minute summer	4	1.003	5	4.8	0.237	0.139	1.4353	
1440 minute summer	5	Orifice	6	5.5				
1440 minute summer	6	1.005	7	5.8	0.584	0.169	1.1469	
1440 minute summer	7	1.006	8	6.7	0.203	0.132	1.0030	
1440 minute summer	13	2.000	14	1.2	0.419	0.083	0.3981	
1440 minute summer	14	2.001	15	1.4	0.420	0.096	0.5573	
1440 minute summer	20	3.000	21	0.1	0.153	0.007	0.2211	
1440 minute summer	21	3.001	15	0.3	0.172	0.021	0.2363	
1440 minute summer	15	2.002	16	1.4	0.367	0.094	0.7028	
1440 minute summer	16	2.003	17	1.6	0.118	0.112	0.5717	
1440 minute summer	17	Orifice	18	2.1				
1440 minute summer	18	2.005	19	4.0	0.597	0.094	1.0970	
1440 minute summer	19	2.006	8	4.8	0.152	0.092	1.8341	
1440 minute summer	8	Orifice	9	8.2				
1440 minute summer	9	1.008	10	8.5	0.389	0.200	0.5293	
1440 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
1440 minute summer	23	Orifice	24	1.1				
1440 minute summer	24	4.002	25	2.4	0.672	0.094	0.8546	
1440 minute summer	25	Orifice	26	3.2				
1440 minute summer	28	4.005	OUTFALL2	2.0	0.476	0.055	0.0265	125.5
1440 minute summer	26	Hydro-Brake®	28	2.0				
1440 minute summer	27	5.001	26	-1.1	-0.062	-0.080	1.0194	

Results for 100 year +30% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	10	870	217.498	0.832	8.8	4.0126	0.0000	FLOOD RISK
1440 minute summer	11	690	216.702	0.091	8.4	0.0256	0.0000	OK
1440 minute summer	OUTFALL1	690	216.662	0.082	8.4	0.0000	0.0000	OK
1440 minute summer	12	930	217.524	0.961	0.2	0.2719	0.0000	FLOOD RISK
1440 minute summer	OUTFALL2	930	215.606	0.035	2.0	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)
1440 minute summer	10	Hydro-Brake®	11	8.4				
1440 minute summer	11	1.010	OUTFALL1	8.4	0.808	0.579	0.0478	431.6
1440 minute summer	12	5.000	27	-0.2	-0.013	-0.016	0.2066	

Results for 100 year +30% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	30	218.710	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	2	690	218.522	0.022	0.9	0.0232	0.0000	OK
1440 minute winter	3	780	218.271	0.128	1.8	0.1713	0.0000	OK
1440 minute winter	4	810	218.131	0.582	4.2	3.7251	0.0000	SURCHARGED
1440 minute winter	5	840	218.129	0.740	4.6	3.8190	0.0000	SURCHARGED
1440 minute winter	6	960	217.960	0.742	6.0	31.2449	0.0000	FLOOD RISK
1440 minute winter	7	960	217.958	0.868	6.1	3.9225	0.0000	SURCHARGED
1440 minute winter	13	900	218.962	0.298	0.9	0.2014	0.0000	SURCHARGED
1440 minute winter	14	900	218.962	0.449	1.3	1.1982	0.0000	SURCHARGED
1440 minute winter	20	900	218.961	0.486	0.1	0.1454	0.0000	SURCHARGED
1440 minute winter	21	900	218.961	0.570	0.3	1.0223	0.0000	SURCHARGED
1440 minute winter	15	900	218.961	0.659	1.5	3.4572	0.0000	SURCHARGED
1440 minute winter	16	900	218.960	0.924	1.7	4.4524	0.0000	SURCHARGED
1440 minute winter	17	900	218.957	1.137	2.1	5.7101	0.0000	SURCHARGED
1440 minute winter	18	930	217.959	0.470	3.6	2.5879	0.0000	SURCHARGED
1440 minute winter	19	960	217.958	0.653	4.1	2.5193	0.0000	SURCHARGED
1440 minute winter	8	960	217.957	1.110	10.3	22.0257	0.0000	FLOOD RISK
1440 minute winter	9	930	217.497	0.742	8.6	1.6056	0.0000	SURCHARGED
1440 minute winter	22	30	218.616	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	23	780	218.083	0.115	0.8	0.1260	0.0000	OK
1440 minute winter	24	960	217.577	0.263	1.9	0.4285	0.0000	SURCHARGED
1440 minute winter	25	960	217.574	1.328	3.4	10.9682	0.0000	FLOOD RISK
1440 minute winter	28	990	215.639	0.038	2.0	0.0425	0.0000	OK
1440 minute winter	26	990	217.550	1.472	3.4	21.1341	0.0000	FLOOD RISK
1440 minute winter	27	990	217.550	1.056	0.8	6.9096	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.0	0.000	0.000	0.0252	
1440 minute winter	2	1.001	3	0.9	0.152	0.047	0.2654	
1440 minute winter	3	Orifice	4	1.8				
1440 minute winter	4	1.003	5	3.9	0.238	0.113	1.4353	
1440 minute winter	5	Orifice	6	4.5				
1440 minute winter	6	1.005	7	5.2	0.564	0.151	1.1469	
1440 minute winter	7	1.006	8	5.9	0.203	0.116	1.0030	
1440 minute winter	13	2.000	14	0.9	0.395	0.062	0.3981	
1440 minute winter	14	2.001	15	1.1	0.395	0.076	0.5573	
1440 minute winter	20	3.000	21	0.1	0.150	0.007	0.2211	
1440 minute winter	21	3.001	15	0.3	0.141	0.020	0.2363	
1440 minute winter	15	2.002	16	1.2	0.367	0.086	0.7028	
1440 minute winter	16	2.003	17	1.6	0.121	0.109	0.5717	
1440 minute winter	17	Orifice	18	2.0				
1440 minute winter	18	2.005	19	3.5	0.591	0.083	1.0970	
1440 minute winter	19	2.006	8	4.1	0.144	0.078	1.8341	
1440 minute winter	8	Orifice	9	8.2				
1440 minute winter	9	1.008	10	8.5	0.389	0.200	0.5293	
1440 minute winter	22	4.000	23	0.0	0.000	0.000	0.2314	
1440 minute winter	23	Orifice	24	0.8				
1440 minute winter	24	4.002	25	1.9	0.672	0.074	0.8546	
1440 minute winter	25	Orifice	26	2.7				
1440 minute winter	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0267	143.4
1440 minute winter	26	Hydro-Brake®	28	2.0				
1440 minute winter	27	5.001	26	-0.7	-0.041	-0.053	1.0194	

Results for 100 year +30% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	10	930	217.493	0.827	8.7	3.9546	0.0000	FLOOD RISK
1440 minute winter	11	660	216.702	0.091	8.5	0.0257	0.0000	OK
1440 minute winter	OUTFALL1	660	216.662	0.082	8.5	0.0000	0.0000	OK
1440 minute winter	12	990	217.550	0.987	0.1	0.2793	0.0000	FLOOD RISK
1440 minute winter	OUTFALL2	990	215.607	0.035	2.0	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)
1440 minute winter	10	Hydro-Brake®	11	8.5				
1440 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.581	0.0479	487.9
1440 minute winter	12	5.000	27	-0.1	0.013	-0.010	0.2066	

Results for 100 year +30% CC 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 99.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	2	1140	218.523	0.023	1.0	0.0246	0.0000	OK
2160 minute summer	3	1140	218.295	0.152	2.0	0.2207	0.0000	SURCHARGED
2160 minute summer	4	1200	218.094	0.545	4.4	3.2585	0.0000	SURCHARGED
2160 minute summer	5	1200	218.092	0.703	4.6	3.5845	0.0000	SURCHARGED
2160 minute summer	6	1320	217.933	0.715	5.9	19.0433	0.0000	FLOOD RISK
2160 minute summer	7	1320	217.931	0.841	5.8	3.7803	0.0000	SURCHARGED
2160 minute summer	13	1260	218.843	0.179	0.9	0.1205	0.0000	SURCHARGED
2160 minute summer	14	1260	218.842	0.329	1.3	0.7854	0.0000	SURCHARGED
2160 minute summer	20	1260	218.842	0.367	0.1	0.1097	0.0000	SURCHARGED
2160 minute summer	21	1260	218.842	0.451	0.3	0.7790	0.0000	SURCHARGED
2160 minute summer	15	1260	218.842	0.540	1.4	2.6903	0.0000	SURCHARGED
2160 minute summer	16	1260	218.840	0.804	1.6	3.7561	0.0000	SURCHARGED
2160 minute summer	17	1260	218.838	1.018	2.1	5.0350	0.0000	SURCHARGED
2160 minute summer	18	1320	217.932	0.443	3.5	2.3792	0.0000	SURCHARGED
2160 minute summer	19	1320	217.931	0.626	4.0	2.3820	0.0000	SURCHARGED
2160 minute summer	8	1320	217.929	1.082	10.0	19.4290	0.0000	FLOOD RISK
2160 minute summer	9	1260	217.480	0.725	8.6	1.5592	0.0000	SURCHARGED
2160 minute summer	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	23	1140	218.083	0.115	0.8	0.1258	0.0000	OK
2160 minute summer	24	1320	217.519	0.206	1.9	0.2951	0.0000	SURCHARGED
2160 minute summer	25	1320	217.517	1.271	3.4	8.4784	0.0000	FLOOD RISK
2160 minute summer	28	1320	215.638	0.037	2.0	0.0421	0.0000	OK
2160 minute summer	26	1320	217.493	1.415	3.3	17.2929	0.0000	FLOOD RISK
2160 minute summer	27	1320	217.493	0.999	0.9	6.3077	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	1	1.000	2	0.0	0.000	0.000	0.0272	
2160 minute summer	2	1.001	3	1.0	0.151	0.052	0.2919	
2160 minute summer	3	Orifice	4	2.0				
2160 minute summer	4	1.003	5	3.9	0.231	0.114	1.4353	
2160 minute summer	5	Orifice	6	4.3				
2160 minute summer	6	1.005	7	4.9	0.568	0.142	1.1469	
2160 minute summer	7	1.006	8	5.5	0.199	0.109	1.0030	
2160 minute summer	13	2.000	14	0.9	0.374	0.062	0.3981	
2160 minute summer	14	2.001	15	1.1	0.389	0.073	0.5573	
2160 minute summer	20	3.000	21	0.1	0.152	0.007	0.2211	
2160 minute summer	21	3.001	15	0.3	0.133	0.020	0.2363	
2160 minute summer	15	2.002	16	1.1	0.365	0.079	0.7028	
2160 minute summer	16	2.003	17	1.4	0.117	0.100	0.5717	
2160 minute summer	17	Orifice	18	1.9				
2160 minute summer	18	2.005	19	3.3	0.579	0.078	1.0970	
2160 minute summer	19	2.006	8	3.9	0.150	0.075	1.8341	
2160 minute summer	8	Orifice	9	8.1				
2160 minute summer	9	1.008	10	8.4	0.386	0.197	0.5293	
2160 minute summer	22	4.000	23	0.0	0.000	0.000	0.2311	
2160 minute summer	23	Orifice	24	0.8				
2160 minute summer	24	4.002	25	1.9	0.675	0.073	0.8546	
2160 minute summer	25	Orifice	26	2.6				
2160 minute summer	28	4.005	OUTFALL2	2.0	0.475	0.055	0.0263	150.7
2160 minute summer	26	Hydro-Brake®	28	2.0				
2160 minute summer	27	5.001	26	-0.8	-0.044	-0.057	1.0194	

Results for 100 year +30% CC 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 99.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	10	1260	217.476	0.810	8.7	3.7513	0.0000	FLOOD RISK
2160 minute summer	11	1080	216.701	0.090	8.3	0.0254	0.0000	OK
2160 minute summer	OUTFALL1	1080	216.661	0.081	8.3	0.0000	0.0000	OK
2160 minute summer	12	1320	217.493	0.930	0.1	0.2633	0.0000	FLOOD RISK
2160 minute summer	OUTFALL2	1320	215.606	0.035	2.0	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)
2160 minute summer	10	Hydro-Brake®	11	8.3				
2160 minute summer	11	1.010	OUTFALL1	8.3	0.806	0.573	0.0474	503.5
2160 minute summer	12	5.000	27	-0.1	-0.006	-0.008	0.2066	

Results for 100 year +30% CC 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 99.68%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	2	1080	218.520	0.020	0.7	0.0202	0.0000	OK
2160 minute winter	3	1140	218.231	0.087	1.4	0.1032	0.0000	OK
2160 minute winter	4	1260	217.984	0.435	3.2	2.0507	0.0000	SURCHARGED
2160 minute winter	5	1260	217.983	0.594	3.6	2.8920	0.0000	SURCHARGED
2160 minute winter	6	1380	217.891	0.673	4.6	6.3404	0.0000	FLOOD RISK
2160 minute winter	7	1380	217.889	0.799	5.0	3.5566	0.0000	SURCHARGED
2160 minute winter	13	1260	218.724	0.060	0.7	0.0406	0.0000	OK
2160 minute winter	14	1260	218.724	0.211	1.0	0.4143	0.0000	SURCHARGED
2160 minute winter	20	1260	218.723	0.248	0.1	0.0742	0.0000	SURCHARGED
2160 minute winter	21	1260	218.723	0.332	0.3	0.5382	0.0000	SURCHARGED
2160 minute winter	15	1260	218.723	0.421	1.2	1.9315	0.0000	SURCHARGED
2160 minute winter	16	1260	218.722	0.686	1.5	3.0673	0.0000	SURCHARGED
2160 minute winter	17	1260	218.720	0.900	1.9	4.3671	0.0000	SURCHARGED
2160 minute winter	18	1380	217.889	0.400	3.2	2.0524	0.0000	SURCHARGED
2160 minute winter	19	1380	217.889	0.584	3.5	2.1708	0.0000	SURCHARGED
2160 minute winter	8	1380	217.887	1.040	8.8	15.3867	0.0000	FLOOD RISK
2160 minute winter	9	1320	217.451	0.696	8.5	1.4798	0.0000	SURCHARGED
2160 minute winter	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	23	1200	218.041	0.073	0.6	0.0722	0.0000	OK
2160 minute winter	24	1380	217.514	0.201	1.4	0.2860	0.0000	SURCHARGED
2160 minute winter	25	1380	217.513	1.267	2.6	8.2893	0.0000	FLOOD RISK
2160 minute winter	28	1380	215.638	0.037	2.0	0.0420	0.0000	OK
2160 minute winter	26	1380	217.489	1.411	2.8	17.0244	0.0000	FLOOD RISK
2160 minute winter	27	1380	217.489	0.995	0.6	6.2599	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	1	1.000	2	0.0	0.000	0.000	0.0212	
2160 minute winter	2	1.001	3	0.7	0.151	0.036	0.1813	
2160 minute winter	3	Orifice	4	1.4				
2160 minute winter	4	1.003	5	3.1	0.236	0.089	1.4353	
2160 minute winter	5	Orifice	6	3.4				
2160 minute winter	6	1.005	7	4.3	0.555	0.126	1.1469	
2160 minute winter	7	1.006	8	4.9	0.199	0.096	1.0030	
2160 minute winter	13	2.000	14	0.7	0.367	0.048	0.2737	
2160 minute winter	14	2.001	15	0.9	0.389	0.062	0.5573	
2160 minute winter	20	3.000	21	0.1	0.004	0.005	0.2211	
2160 minute winter	21	3.001	15	0.2	0.135	0.016	0.2363	
2160 minute winter	15	2.002	16	1.1	0.365	0.073	0.7028	
2160 minute winter	16	2.003	17	1.4	0.118	0.098	0.5717	
2160 minute winter	17	Orifice	18	1.9				
2160 minute winter	18	2.005	19	3.0	0.598	0.070	1.0970	
2160 minute winter	19	2.006	8	3.4	0.158	0.066	1.8341	
2160 minute winter	8	Orifice	9	8.1				
2160 minute winter	9	1.008	10	8.4	0.389	0.198	0.5293	
2160 minute winter	22	4.000	23	0.0	0.000	0.000	0.1343	
2160 minute winter	23	Orifice	24	0.6				
2160 minute winter	24	4.002	25	1.4	0.628	0.055	0.8546	
2160 minute winter	25	Orifice	26	2.2				
2160 minute winter	28	4.005	OUTFALL2	2.0	0.475	0.055	0.0263	168.1
2160 minute winter	26	Hydro-Brake®	28	2.0				
2160 minute winter	27	5.001	26	-0.5	-0.026	-0.034	1.0194	

Results for 100 year +30% CC 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 99.68%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	10	1320	217.447	0.781	8.6	3.4112	0.0000	FLOOD RISK
2160 minute winter	11	1080	216.702	0.091	8.5	0.0257	0.0000	OK
2160 minute winter	OUTFALL1	1080	216.662	0.082	8.5	0.0000	0.0000	OK
2160 minute winter	12	1380	217.489	0.926	0.1	0.2620	0.0000	FLOOD RISK
2160 minute winter	OUTFALL2	1380	215.606	0.035	2.0	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)
2160 minute winter	10	Hydro-Brake®	11	8.5				
2160 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.581	0.0479	562.5
2160 minute winter	12	5.000	27	-0.1	-0.005	-0.007	0.2066	

Results for 100 year +30% CC 2880 minute summer. 3120 minute analysis at 60 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute summer	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	2	1500	218.521	0.021	0.8	0.0217	0.0000	OK
2880 minute summer	3	1500	218.249	0.106	1.6	0.1332	0.0000	OK
2880 minute summer	4	1620	217.986	0.437	3.6	2.0728	0.0000	SURCHARGED
2880 minute summer	5	1620	217.985	0.596	3.8	2.9071	0.0000	SURCHARGED
2880 minute summer	6	1680	217.890	0.672	4.9	6.1958	0.0000	FLOOD RISK
2880 minute summer	7	1680	217.888	0.798	5.3	3.5517	0.0000	SURCHARGED
2880 minute summer	13	1620	218.704	0.040	0.8	0.0269	0.0000	OK
2880 minute summer	14	1620	218.704	0.191	1.1	0.3540	0.0000	SURCHARGED
2880 minute summer	20	1620	218.703	0.228	0.1	0.0682	0.0000	SURCHARGED
2880 minute summer	21	1620	218.703	0.312	0.3	0.4968	0.0000	SURCHARGED
2880 minute summer	15	1620	218.703	0.401	1.3	1.8015	0.0000	SURCHARGED
2880 minute summer	16	1620	218.702	0.666	1.5	2.9489	0.0000	SURCHARGED
2880 minute summer	17	1620	218.699	0.879	2.0	4.2524	0.0000	SURCHARGED
2880 minute summer	18	1680	217.888	0.399	3.3	2.0443	0.0000	SURCHARGED
2880 minute summer	19	1680	217.888	0.583	3.5	2.1660	0.0000	SURCHARGED
2880 minute summer	8	1680	217.886	1.039	8.9	15.2961	0.0000	FLOOD RISK
2880 minute summer	9	1620	217.448	0.693	8.6	1.4715	0.0000	SURCHARGED
2880 minute summer	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	23	1500	218.060	0.092	0.7	0.0960	0.0000	OK
2880 minute summer	24	1680	217.468	0.155	1.6	0.1959	0.0000	SURCHARGED
2880 minute summer	25	1680	217.466	1.220	2.9	6.4814	0.0000	FLOOD RISK
2880 minute summer	28	1680	215.638	0.037	1.9	0.0417	0.0000	OK
2880 minute summer	26	1680	217.443	1.365	3.0	14.7796	0.0000	FLOOD RISK
2880 minute summer	27	1680	217.443	0.949	0.6	5.7711	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	1	1.000	2	0.0	0.000	0.000	0.0232	
2880 minute summer	2	1.001	3	0.8	0.151	0.041	0.2239	
2880 minute summer	3	Orifice	4	1.6				
2880 minute summer	4	1.003	5	3.2	0.236	0.094	1.4353	
2880 minute summer	5	Orifice	6	3.5				
2880 minute summer	6	1.005	7	4.5	0.549	0.132	1.1469	
2880 minute summer	7	1.006	8	5.1	0.199	0.100	1.0030	
2880 minute summer	13	2.000	14	0.8	0.395	0.055	0.2414	
2880 minute summer	14	2.001	15	1.1	0.389	0.076	0.5573	
2880 minute summer	20	3.000	21	0.1	0.004	0.005	0.2211	
2880 minute summer	21	3.001	15	0.2	0.133	0.014	0.2363	
2880 minute summer	15	2.002	16	1.0	0.365	0.072	0.7028	
2880 minute summer	16	2.003	17	1.4	0.117	0.097	0.5717	
2880 minute summer	17	Orifice	18	1.8				
2880 minute summer	18	2.005	19	2.9	0.577	0.069	1.0970	
2880 minute summer	19	2.006	8	3.3	0.153	0.064	1.8341	
2880 minute summer	8	Orifice	9	8.2				
2880 minute summer	9	1.008	10	8.5	0.391	0.200	0.5293	
2880 minute summer	22	4.000	23	0.0	0.000	0.000	0.1812	
2880 minute summer	23	Orifice	24	0.7				
2880 minute summer	24	4.002	25	1.6	0.628	0.063	0.8546	
2880 minute summer	25	Orifice	26	2.4				
2880 minute summer	28	4.005	OUTFALL2	1.9	0.473	0.054	0.0260	169.5
2880 minute summer	26	Hydro-Brake®	28	1.9				
2880 minute summer	27	5.001	26	-0.5	-0.030	-0.040	1.0194	

Results for 100 year +30% CC 2880 minute summer. 3120 minute analysis at 60 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute summer	10	1620	217.444	0.778	8.7	3.3740	0.0000	FLOOD RISK
2880 minute summer	11	1440	216.702	0.091	8.5	0.0257	0.0000	OK
2880 minute summer	OUTFALL1	1440	216.662	0.082	8.5	0.0000	0.0000	OK
2880 minute summer	12	1680	217.443	0.880	0.1	0.2490	0.0000	FLOOD RISK
2880 minute summer	OUTFALL2	1680	215.606	0.035	1.9	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)
2880 minute summer	10	Hydro-Brake®	11	8.5				
2880 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	562.1
2880 minute summer	12	5.000	27	-0.1	-0.005	-0.007	0.2066	

Results for 100 year +30% CC 2880 minute winter. 3120 minute analysis at 60 minute timestep. Mass balance: 99.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute winter	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	2	1380	218.518	0.018	0.6	0.0185	0.0000	OK
2880 minute winter	3	1440	218.214	0.071	1.2	0.0796	0.0000	OK
2880 minute winter	4	1440	217.591	0.042	2.7	0.0646	0.0000	OK
2880 minute winter	5	1620	217.576	0.187	3.2	0.5262	0.0000	OK
2880 minute winter	6	1620	217.482	0.264	4.2	1.1009	0.0000	SURCHARGED
2880 minute winter	7	1620	217.480	0.390	4.7	1.4102	0.0000	SURCHARGED
2880 minute winter	13	1440	218.685	0.021	0.6	0.0140	0.0000	OK
2880 minute winter	14	1440	218.537	0.024	0.8	0.0143	0.0000	OK
2880 minute winter	20	1560	218.529	0.054	0.0	0.0161	0.0000	OK
2880 minute winter	21	1560	218.529	0.138	0.2	0.1665	0.0000	OK
2880 minute winter	15	1560	218.529	0.227	1.0	0.7656	0.0000	SURCHARGED
2880 minute winter	16	1560	218.527	0.491	1.3	1.9344	0.0000	SURCHARGED
2880 minute winter	17	1560	218.526	0.705	1.7	3.2689	0.0000	SURCHARGED
2880 minute winter	18	1560	217.528	0.039	2.8	0.0707	0.0000	OK
2880 minute winter	19	1620	217.479	0.174	3.2	0.3366	0.0000	OK
2880 minute winter	8	1620	217.477	0.630	8.1	4.5040	0.0000	SURCHARGED
2880 minute winter	9	1680	216.961	0.206	8.3	0.2974	0.0000	OK
2880 minute winter	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	23	1440	218.024	0.056	0.5	0.0534	0.0000	OK
2880 minute winter	24	1800	217.395	0.082	1.2	0.0893	0.0000	OK
2880 minute winter	25	1800	217.394	1.148	2.2	5.2231	0.0000	SURCHARGED
2880 minute winter	28	1800	215.638	0.036	1.9	0.0412	0.0000	OK
2880 minute winter	26	1800	217.374	1.296	2.4	13.2517	0.0000	SURCHARGED
2880 minute winter	27	1800	217.374	0.880	0.4	5.0307	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute winter	1	1.000	2	0.0	0.000	0.000	0.0190	
2880 minute winter	2	1.001	3	0.6	0.151	0.031	0.1426	
2880 minute winter	3	Orifice	4	1.2				
2880 minute winter	4	1.003	5	2.7	0.236	0.078	0.7274	
2880 minute winter	5	Orifice	6	3.2				
2880 minute winter	6	1.005	7	4.1	0.551	0.119	1.1469	
2880 minute winter	7	1.006	8	4.7	0.229	0.091	1.0030	
2880 minute winter	13	2.000	14	0.6	0.367	0.041	0.0371	
2880 minute winter	14	2.001	15	0.8	0.389	0.055	0.3072	
2880 minute winter	20	3.000	21	0.0	-0.004	-0.002	0.1420	
2880 minute winter	21	3.001	15	0.1	0.134	0.010	0.2318	
2880 minute winter	15	2.002	16	1.0	0.366	0.068	0.7028	
2880 minute winter	16	2.003	17	1.3	0.144	0.089	0.5717	
2880 minute winter	17	Orifice	18	1.7				
2880 minute winter	18	2.005	19	2.8	0.591	0.065	0.5152	
2880 minute winter	19	2.006	8	3.1	0.149	0.060	1.6761	
2880 minute winter	8	Orifice	9	8.0				
2880 minute winter	9	1.008	10	8.3	0.388	0.196	0.5186	
2880 minute winter	22	4.000	23	0.0	0.000	0.000	0.0948	
2880 minute winter	23	Orifice	24	0.5				
2880 minute winter	24	4.002	25	1.2	0.628	0.047	0.6675	
2880 minute winter	25	Orifice	26	1.9				
2880 minute winter	28	4.005	OUTFALL2	1.9	0.470	0.053	0.0255	186.8
2880 minute winter	26	Hydro-Brake®	28	1.9				
2880 minute winter	27	5.001	26	0.3	0.020	0.025	1.0194	

Results for 100 year +30% CC 2880 minute winter. 3120 minute analysis at 60 minute timestep. Mass balance: 99.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute winter	10	1680	216.957	0.291	8.5	0.7408	0.0000	SURCHARGED
2880 minute winter	11	1620	216.702	0.091	8.5	0.0257	0.0000	OK
2880 minute winter	OUTFALL1	1680	216.662	0.082	8.5	0.0000	0.0000	OK
2880 minute winter	12	1800	217.374	0.811	0.1	0.2294	0.0000	FLOOD RISK
2880 minute winter	OUTFALL2	1800	215.605	0.034	1.9	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)
2880 minute winter	10	Hydro-Brake®	11	8.5				
2880 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.582	0.0480	634.1
2880 minute winter	12	5.000	27	0.1	0.006	0.005	0.2066	

Results for 100 year +30% CC 4320 minute summer. 4560 minute analysis at 60 minute timestep. Mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute summer	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	2	2160	218.518	0.018	0.6	0.0185	0.0000	OK
4320 minute summer	3	2220	218.214	0.071	1.2	0.0796	0.0000	OK
4320 minute summer	4	2340	217.596	0.047	2.8	0.0719	0.0000	OK
4320 minute summer	5	2340	217.595	0.206	3.3	0.6143	0.0000	OK
4320 minute summer	6	2340	217.503	0.285	4.4	1.2304	0.0000	SURCHARGED
4320 minute summer	7	2340	217.501	0.411	4.8	1.5220	0.0000	SURCHARGED
4320 minute summer	13	2220	218.685	0.021	0.6	0.0140	0.0000	OK
4320 minute summer	14	2220	218.538	0.025	0.9	0.0154	0.0000	OK
4320 minute summer	20	2280	218.523	0.048	0.0	0.0144	0.0000	OK
4320 minute summer	21	2280	218.523	0.132	0.2	0.1577	0.0000	OK
4320 minute summer	15	2280	218.523	0.221	1.2	0.7326	0.0000	SURCHARGED
4320 minute summer	16	2280	218.522	0.486	1.4	1.9030	0.0000	SURCHARGED
4320 minute summer	17	2280	218.520	0.700	1.7	3.2384	0.0000	SURCHARGED
4320 minute summer	18	2220	217.528	0.039	2.8	0.0715	0.0000	OK
4320 minute summer	19	2340	217.500	0.195	3.3	0.4166	0.0000	OK
4320 minute summer	8	2340	217.499	0.652	8.2	4.7307	0.0000	SURCHARGED
4320 minute summer	9	2340	216.978	0.223	8.3	0.3225	0.0000	OK
4320 minute summer	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	23	2220	218.041	0.073	0.6	0.0722	0.0000	OK
4320 minute summer	24	2220	217.336	0.023	1.3	0.0219	0.0000	OK
4320 minute summer	25	2460	217.272	1.026	2.3	4.2596	0.0000	SURCHARGED
4320 minute summer	28	2460	215.637	0.036	1.8	0.0403	0.0000	OK
4320 minute summer	26	2460	217.255	1.177	2.5	11.7726	0.0000	SURCHARGED
4320 minute summer	27	2460	217.255	0.761	0.4	3.7632	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	1	1.000	2	0.0	0.000	0.000	0.0190	
4320 minute summer	2	1.001	3	0.6	0.151	0.031	0.1426	
4320 minute summer	3	Orifice	4	1.2				
4320 minute summer	4	1.003	5	2.8	0.236	0.081	0.7962	
4320 minute summer	5	Orifice	6	3.3				
4320 minute summer	6	1.005	7	4.2	0.563	0.122	1.1469	
4320 minute summer	7	1.006	8	4.7	0.227	0.092	1.0030	
4320 minute summer	13	2.000	14	0.6	0.351	0.041	0.0388	
4320 minute summer	14	2.001	15	0.9	0.389	0.062	0.3097	
4320 minute summer	20	3.000	21	0.0	-0.006	-0.003	0.1340	
4320 minute summer	21	3.001	15	0.2	0.135	0.012	0.2285	
4320 minute summer	15	2.002	16	1.0	0.365	0.066	0.7028	
4320 minute summer	16	2.003	17	1.3	0.141	0.088	0.5717	
4320 minute summer	17	Orifice	18	1.7				
4320 minute summer	18	2.005	19	2.8	0.595	0.067	0.5662	
4320 minute summer	19	2.006	8	3.2	0.150	0.061	1.7612	
4320 minute summer	8	Orifice	9	8.0				
4320 minute summer	9	1.008	10	8.3	0.391	0.196	0.5288	
4320 minute summer	22	4.000	23	0.0	0.000	0.000	0.1343	
4320 minute summer	23	Orifice	24	0.6				
4320 minute summer	24	4.002	25	1.3	0.653	0.051	0.4688	
4320 minute summer	25	Orifice	26	2.0				
4320 minute summer	28	4.005	OUTFALL2	1.8	0.465	0.050	0.0247	196.5
4320 minute summer	26	Hydro-Brake®	28	1.8				
4320 minute summer	27	5.001	26	-0.3	-0.020	-0.026	1.0194	

Results for 100 year +30% CC 4320 minute summer. 4560 minute analysis at 60 minute timestep. Mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute summer	10	2340	216.973	0.307	8.5	0.7925	0.0000	SURCHARGED
4320 minute summer	11	2340	216.702	0.091	8.5	0.0257	0.0000	OK
4320 minute summer	OUTFALL1	2340	216.662	0.082	8.5	0.0000	0.0000	OK
4320 minute summer	12	2460	217.255	0.692	0.1	0.1957	0.0000	SURCHARGED
4320 minute summer	OUTFALL2	2460	215.605	0.034	1.8	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)
4320 minute summer	10	Hydro-Brake®	11	8.5				
4320 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	648.6
4320 minute summer	12	5.000	27	-0.1	-0.006	-0.007	0.2066	

Results for 100 year +30% CC 4320 minute winter. 4560 minute analysis at 60 minute timestep. Mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute winter	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	2	2100	218.517	0.017	0.5	0.0168	0.0000	OK
4320 minute winter	3	2100	218.200	0.057	1.0	0.0611	0.0000	OK
4320 minute winter	4	2160	217.587	0.038	2.2	0.0585	0.0000	OK
4320 minute winter	5	2220	217.492	0.103	2.6	0.1957	0.0000	OK
4320 minute winter	6	2220	217.265	0.047	3.4	0.0906	0.0000	OK
4320 minute winter	7	2280	217.261	0.171	3.9	0.4437	0.0000	OK
4320 minute winter	13	1920	218.681	0.017	0.4	0.0116	0.0000	OK
4320 minute winter	14	1920	218.534	0.021	0.6	0.0119	0.0000	OK
4320 minute winter	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	21	1500	218.400	0.009	0.1	0.0038	0.0000	OK
4320 minute winter	15	2340	218.356	0.054	0.8	0.0621	0.0000	OK
4320 minute winter	16	2340	218.355	0.319	1.1	1.0012	0.0000	SURCHARGED
4320 minute winter	17	2340	218.353	0.533	1.5	2.2942	0.0000	SURCHARGED
4320 minute winter	18	2280	217.525	0.036	2.3	0.0657	0.0000	OK
4320 minute winter	19	2280	217.339	0.034	2.6	0.0325	0.0000	OK
4320 minute winter	8	2280	217.260	0.413	6.8	2.2317	0.0000	SURCHARGED
4320 minute winter	9	2340	216.828	0.073	7.0	0.0783	0.0000	OK
4320 minute winter	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	23	2040	218.010	0.042	0.4	0.0389	0.0000	OK
4320 minute winter	24	2040	217.332	0.019	0.9	0.0182	0.0000	OK
4320 minute winter	25	2580	217.064	0.818	1.7	2.7500	0.0000	SURCHARGED
4320 minute winter	28	2580	215.635	0.034	1.6	0.0386	0.0000	OK
4320 minute winter	26	2580	217.050	0.972	1.9	9.2303	0.0000	SURCHARGED
4320 minute winter	27	2580	217.050	0.556	0.2	1.5840	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute winter	1	1.000	2	0.0	0.000	0.000	0.0168	
4320 minute winter	2	1.001	3	0.5	0.151	0.026	0.1096	
4320 minute winter	3	Orifice	4	1.0				
4320 minute winter	4	1.003	5	2.2	0.236	0.064	0.3997	
4320 minute winter	5	Orifice	6	2.6				
4320 minute winter	6	1.005	7	3.4	0.565	0.099	0.5547	
4320 minute winter	7	1.006	8	3.9	0.234	0.076	0.9102	
4320 minute winter	13	2.000	14	0.4	0.311	0.028	0.0292	
4320 minute winter	14	2.001	15	0.6	0.367	0.042	0.1127	
4320 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
4320 minute winter	21	3.001	15	0.1	0.135	0.007	0.0408	
4320 minute winter	15	2.002	16	0.9	0.367	0.059	0.4641	
4320 minute winter	16	2.003	17	1.1	0.144	0.076	0.5717	
4320 minute winter	17	Orifice	18	1.4				
4320 minute winter	18	2.005	19	2.3	0.588	0.055	0.1099	
4320 minute winter	19	2.006	8	2.6	0.151	0.051	1.0051	
4320 minute winter	8	Orifice	9	6.8				
4320 minute winter	9	1.008	10	7.0	0.391	0.166	0.2749	
4320 minute winter	22	4.000	23	0.0	0.000	0.000	0.0641	
4320 minute winter	23	Orifice	24	0.4				
4320 minute winter	24	4.002	25	0.9	0.628	0.035	0.4594	
4320 minute winter	25	Orifice	26	1.5				
4320 minute winter	28	4.005	OUTFALL2	1.6	0.454	0.046	0.0232	217.2
4320 minute winter	26	Hydro-Brake®	28	1.6				
4320 minute winter	27	5.001	26	0.2	0.016	0.014	1.0194	

Results for 100 year +30% CC 4320 minute winter. 4560 minute analysis at 60 minute timestep. Mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute winter	10	2340	216.826	0.160	7.1	0.3690	0.0000	SURCHARGED
4320 minute winter	11	2340	216.692	0.081	7.1	0.0229	0.0000	OK
4320 minute winter	OUTFALL1	2340	216.654	0.074	7.1	0.0000	0.0000	OK
4320 minute winter	12	2580	217.050	0.487	0.1	0.1378	0.0000	SURCHARGED
4320 minute winter	OUTFALL2	2580	215.603	0.032	1.6	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)
4320 minute winter	10	Hydro-Brake®	11	7.1				
4320 minute winter	11	1.010	OUTFALL1	7.1	0.778	0.489	0.0419	740.2
4320 minute winter	12	5.000	27	-0.1	-0.009	-0.004	0.2066	

DESIGNER'S RISK ASSESSMENT

Project: Ladycross Plantation Holiday Park, Edgton
Client: Ladycross Plantation Holiday Park
Project No: 14491

NYMNPA
17/01/2023

DRA Revision: A
Rev Date: 13/01/2023

						Initial RR						Revised RR				
Haz Ref	**Risk Area**	**Activity**	**Hazard**	**Affected Parties**	**Possible Consequences for Affected Parties**	**S**	**L**	**R**	**Designer's Measures**	**Contractor/Owner/Maintainer Measures**	**S**	**L**	**R**	**Residual Risks**	**PI**
H4.1	Existing Services	Excavation works	Presence of existing services unknown, risk of service strikes	Contractor	Risk of explosion, electrocution resulting in injury, death	5	2	10	Line searches undertaken, design reflects results. Hazards indentified on DWG 14491-2200.	Contractor to conduct own services checks/trial pits prior to commencement of works on site	5	1	5	Hazard remains, risk reduced.	☐
H6.1	Near Waterbody / flood risk	Installation of precast concrete headwall into pond/drainage ditch embankment.	Potentially soft/unstable ground conditions.	Contractor	Risk of slips/trips/falls resulting in injury, drowning, death.	5	3	15	Hazards indentified on DWG 14491-2200.	Contractor to provide SSoW prior to commencement of works	5	1	5	Hazard remains, risk reduced.	☐
H11.1	Confined Space Working	Manual working at base of deep excavations.	Risk of ground collapse.	Contractor	Serious injury, asphyxiation, death.	5	3	15	Hazards indentified on DWG 14491-2200.	Contractors personnel required to enter any confined spaces must have received the required training and be competent to work in that environment. Adequate temporary ground supports to be installed.	5	1	5	Hazard remains, risk reduced.	☐
H12.1	Maintenance Considerations	Pumping station requires ongoing maintenance	Routine electrical and mechanical maintenance required	Contractor, Site Operator/maintenance Staff	Effluent flooding in event of pump failure. Effluent material entering local ditches/watercourse	3	3	9	Hazards indentified on DWG 14491-2200.	Routine maintenance of pumping chamber to be undertaken.	3	1	3	Hazard remains, risk reduced.	☐
H12.2	Maintenance Considerations	Orifice plates included in design to restrict surface water flows.	Blockages of small diameter orifice's.	Site Operator/maintenance Staff	Shallow surface water flooding on-site, potential increase in run-off rates to receiving watercourses.	2	3	6	Hazards indentified on DWG 14491-2200.	Routine maintenance/visual inpsection of orifice plates to be undertaken to identify blockages.	2	1	2	Hazard remains, risk reduced.	☐
H12.3	Maintenance Considerations	Hydro Brake included in design to restrict surface water flows.	Blockage of vortext flow control device.	Site Operator/maintenance Staff	Shallow surface water flooding on-site, potential increase in run-off rates to receiving watercourses.	2	3	6	Hazards indentified on DWG 14491-2200. Emergency by-pass pull handle included in design should blockage occur.	Routine maintenance/visual inpsection of hydrobrake chambers to be undertaken to identify blockages.	2	1	2	Hazard remains, risk reduced.	☐

Operation and Maintenance Requirements for Permeable Paving

Maintenance Schedule	Required Action	Typical Frequency
Regular maintenance	Brushing and vacuuming (standard cosmetic sweep over whole surface)	Once a year, after autumn leaf fall, or reduced frequency as required, based on site-specific observations of clogging or manufacturer's recommendations – pay particular attention to areas where water runs onto pervious surface from adjacent impermeable areas as this area is most likely to collect the most sediment
Occasional maintenance	Stabilise and move contributing and adjacent areas	As required
	Removal of weeds or management using glyphospate applied directly into the weeds by an applicator rather than spraying	As required – once per year on less frequently used pavements
Remedial actions	Remediate any landscaping which, through vegetation maintenance or soil slip, has been raised to within 50mm of the level or the paving	As required
	Rehabilitation of surface and upper substructure by remedial sweeping	Every 10 to 15 years or as required (if infiltration performance is reduced due to significant clogging)
Monitoring	Inspect for evidence of poor operation and / or weed growth – if required, take remedial action	Three-monthly, 48hr after large storms in first six months
	Inspect silt accumulation rates and establish appropriate brushing frequencies	Annually
	Monitor inspection chambers	Annually

Ref. Table 20.15, CIRIA C753 'The SuDS Manual'

The maintenance requirements detailed above are to be undertaken by the site owner.

Name :

Position :

Date :

Signed on behalf of the site owner :

AMENDED

NYMNPA

17/01/2023

Technical Specification

Control Point	Head (m)	Flow (l/s)
Primary Design	1.500	2.000
Flush-Flo™	0.269	1.557
Kick-Flo®	0.545	1.268
Mean Flow		1.550

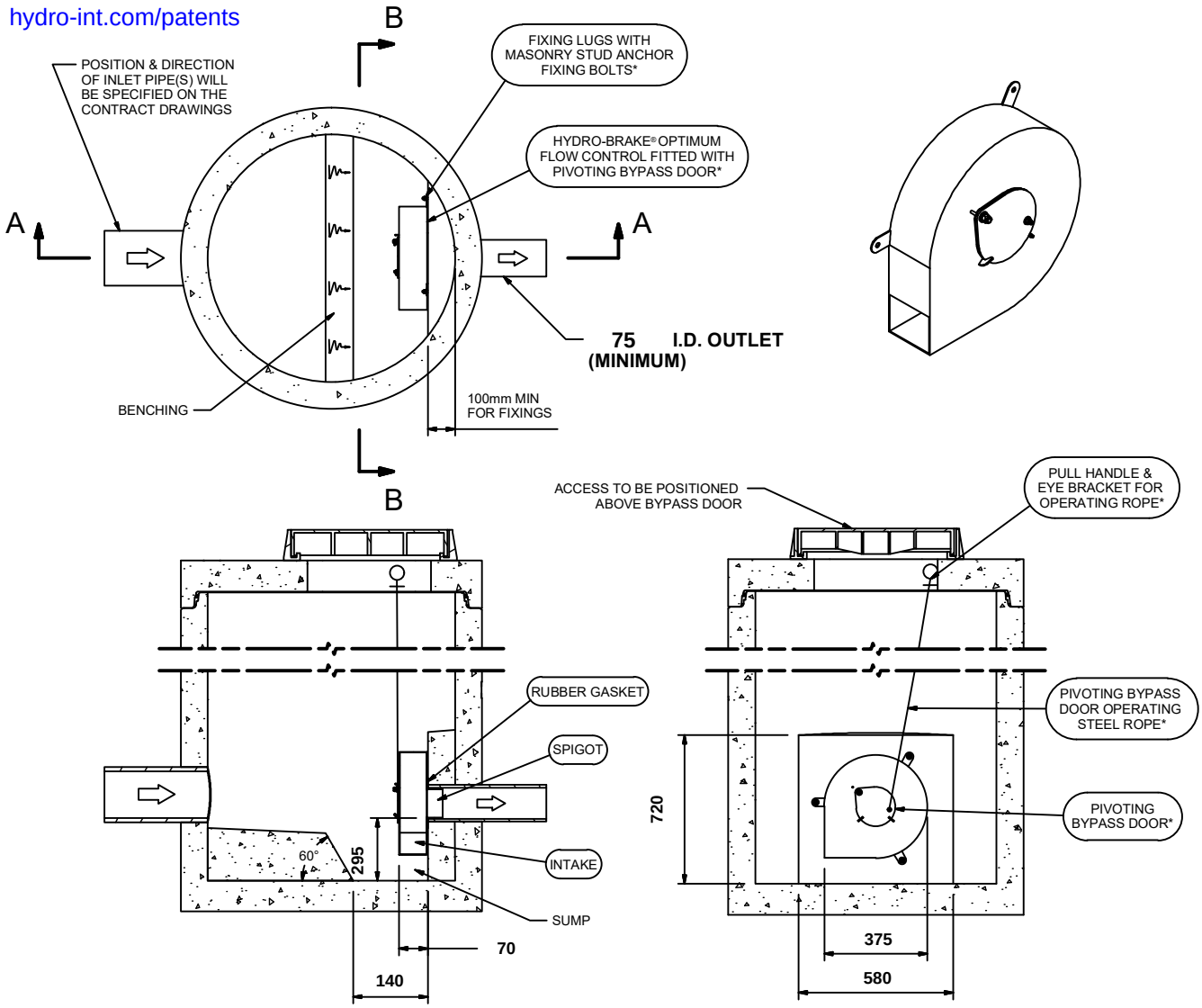
Hydro-Brake® Optimum Flow Control including:

- 3 mm grade 304L stainless steel
- Integral stainless steel pivoting by-pass door allowing clear line of sight through to outlet, c/w stainless steel operating rope
- Beed blasted finish to maximise corrosion resistance
- Stainless steel fixings
- Rubber gasket to seal outlet
- Indicative Weight: 8 kg

BBA APPROVAL INSPECTION TESTING CERTIFICATION CERTIFICATE 08/4596

WRc Approved PT/329/0412

hydro-int.com/patents



SECTION A-A

SECTION B-B

IMPORTANT:

LIMIT OF HYDRO INTERNATIONAL SUPPLY
THE DEVICE WILL BE HANDED TO SUIT SITE CONDITIONS
FOR SITE SPECIFIC DETAILS AND MINIMUM CHAMBER SIZE REFER TO HYDRO INTERNATIONAL
ALL CIVIL AND INSTALLATION WORK BY OTHERS
* WHERE SUPPLIED
HYDRO-BRAKE® FLOW CONTROL & HYDRO-BRAKE® OPTIMUM FLOW CONTROL ARE REGISTERED TRADEMARKS FOR FLOW CONTROLS DESIGNED AND MANUFACTURED EXCLUSIVELY BY HYDRO INTERNATIONAL

THIS DESIGN LAYOUT IS FOR ILLUSTRATIVE PURPOSES ONLY. NOT TO SCALE.

DESIGN ADVICE

The head/flow characteristics of this SHE-0061-2000-1500-2000 Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modelling evaluates the full head/flow characteristic curve.
The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

Hydro International®

DATE	06/01/2023 12:29
SITE	Ladycross
DESIGNER	Colin Freeman
REF	MH26

SHE-0061-2000-1500-2000

Hydro-Brake® Optimum

colin.freeman@waterco.co.uk

Technical Specification

Control Point	Head (m)	Flow (l/s)
Primary Design	0.900	8.500
Flush-Flo™	0.278	8.498
Kick-Flo®	0.616	7.123
Mean Flow		7.283

Hydro-Brake® Optimum Flow Control including:

- 3 mm grade 304L stainless steel
- Integral stainless steel pivoting by-pass door allowing clear line of sight through to outlet, c/w stainless steel operating rope
- Beed blasted finish to maximise corrosion resistance
- Stainless steel fixings
- Rubber gasket to seal outlet
- Indicative Weight: 17 kg

BBA APPROVAL INSPECTION TESTING CERTIFICATION CERTIFICATE 08/4596

WRc Approved PT/329/0412

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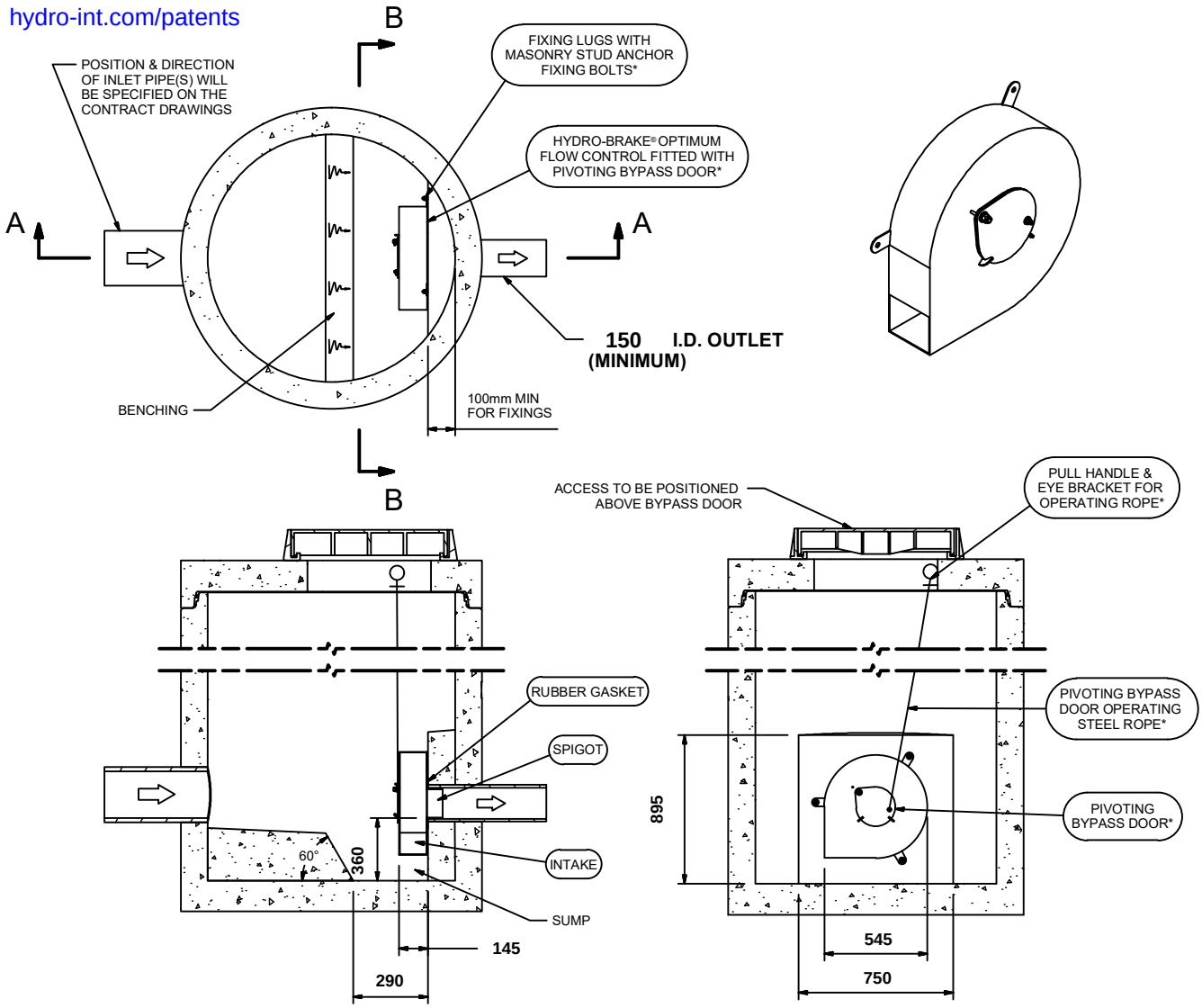

SECTION A-A

SECTION B-B

IMPORTANT: ⬭ LIMIT OF HYDRO INTERNATIONAL SUPPLY
THE DEVICE WILL BE HANDED TO SUIT SITE CONDITIONS
FOR SITE SPECIFIC DETAILS AND MINIMUM CHAMBER SIZE REFER TO HYDRO INTERNATIONAL
ALL CIVIL AND INSTALLATION WORK BY OTHERS
* WHERE SUPPLIED
HYDRO-BRAKE® FLOW CONTROL & HYDRO-BRAKE® OPTIMUM FLOW CONTROL ARE REGISTERED TRADEMARKS FOR FLOW CONTROLS DESIGNED AND MANUFACTURED EXCLUSIVELY BY HYDRO INTERNATIONAL

THIS DESIGN LAYOUT IS FOR ILLUSTRATIVE PURPOSES ONLY. NOT TO SCALE.

DESIGN ADVICE

The head/flow characteristics of this SHE-0137-8500-0900-8500 Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modelling evaluates the full head/flow characteristic curve.
The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

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SITE	Ladycross
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SHE-0137-8500-0900-8500
Hydro-Brake® Optimum

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