

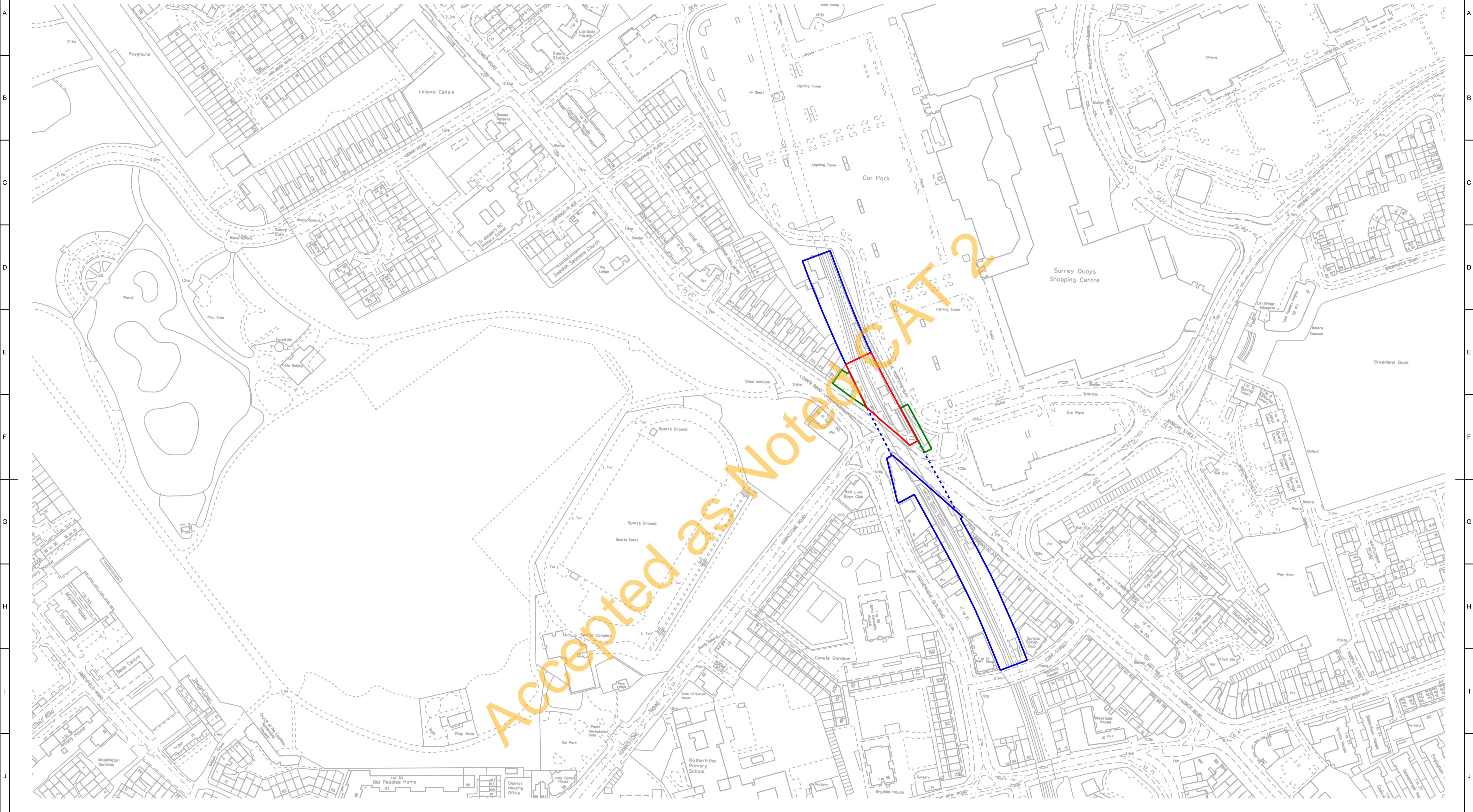
Appendices

Accepted as Noted CAT 2

Appendix A. Development Area

A.1. Surrey Quays Station Area

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Key plan

Notes:

Rev	Date	Purpose / Description	T. Checked	T. Approved	P. Approved	Authorised
P01.1	2023/03/28					

TFL RESTRICTED

Project	SURREY QUAYS STATION UPGRADE
Originator	ATKINS GROUP
Location	SURREY QUAYS
Asset Classification	PREMISES
Lifecycle	
Suitability	S0 NON-VERIFIED DATA

Title	SITE LOCATION PLAN DRAWING SHEET
Location	SURREY QUAYS STATION
	
Drawing Number	LR23-ATK-PRM-E029-DRG-AR-80001
Rev.	P01.1

A.2. Surrey Quays station and adjacent British Landscape area

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

MAINTENANCE/CLEANING

DECOMMISSIONING/DEMOLITION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

- Notes:
- Do not scale from this drawing. Only figured dimensions are to be taken from this drawing. All dimensions to be confirmed on site.
 - All levels are in mAOD unless stated otherwise.
 - All levels are based upon topographical survey coordinates shown are for ordnance survey National grid.
 - Any discrepancies / ambiguities within this drawing or with information given elsewhere must be reported immediately to the landscape architect for clarification.
 - This drawing to be read in conjunction with all other landscape architectural drawings
 - All works to be carried out in accordance with external works specification all implementation of hard and soft landscape elements are expected to be carried out with due regard to applicable British standards, building regulations and all other industry standards relevant to the type of project, construction and materials.
 - Refer to arboriculturist's documents, method statements and drawings before commencing works to ascertain the specific tree protection and working methods required in the vicinity of or close to existing trees on site.
 - An allowance for maintenance for the landscape scheme should be made in the cost plan in accordance with the contract.
 - Samples of all external materials to be submitted to the landscape architect prior to ordering for approval.
 - The paving units listed are subject to clients final approval/sign-off. The depth of units shown is to be confirmed by the project engineers.
 - New recessed inspection covers to be installed. Where possible cover orientation to be adjusted where necessary to align with relative paving joints or perpendicular to the building. Refer to engineer's specification for cover details.
 - Light fitting positions shown on this layout are notional only, for more information refer to lighting engineer's drawings and specification.
 - Carriageway design including drainage, levels, profile & roadmarkings are outside of our scope.
 - Architecture team to confirm the available maintenance access is satisfactory.
 - Non-toxic planting will be used throughout the site.
 - Road line markings are notional and are to be designed by a specialist.
 - Refer to Wayfinding Consultant for final Totem position
 - Refer to MEP drawing for final light poles position

P01.2	01/08/2023	Issue For Comments	KJ	DF	NM
P01.1	28/04/2023	Issue For Comments	KJ	DF	NM
Rev.	Date	Description	By	Chk'd	App'd

Drawing Suitability **For Information** Status **S2**

SNC-LAVALIN
ATKINS
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Client
Transport For London

Project Title
Surrey Quays Station

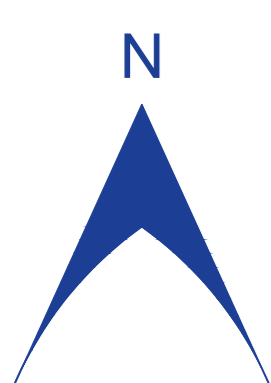
Drawing Title
**Landscape Masterplan
 General Arrangement Plan**

Scale	Designed	Drawn	Checked	Authorised
1:200	KJ	KJ	DF	NM
Original Size	Date	Date	Date	Date
A1	03/04/2022	03/04/2022	03/04/2022	03/04/2022
Drawing Number	Revision			
LR23-ATK-FAE-E029-DRG-LA-00001	P01.2			

Appendix B. Site Survey

B.1. Ground Penetration Radar Survey

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ASSET ABBREVIATIONS

AC	Asbestos Contaminated	IL	Iron Level
AD	Asbestos	IS	Iron Stanchion
AK	Asbestos	IT	Iron Tank
AL	Asbestos	LV	Low Voltage
AM	Asbestos	MA	Manhole
AN	Asbestos	MD	Manhole Depth
AO	Asbestos	MP	Manhole Protection
AP	Asbestos	MS	Manhole
AQ	Asbestos	MT	Manhole Test
AR	Asbestos	NU	No Pipe Under
AS	Asbestos	OC	Overhead Cable
AT	Asbestos	PF	Pipe Flag
AV	Asbestos	PG	Pipe Grout
AW	Asbestos	PIC	Pre-Cast Concrete Chamber
AX	Asbestos	PI	Pipe
AY	Asbestos	PL	Plate
AZ	Asbestos	PLB	Plate Buried
BA	Asbestos	PSC	Pipe Spigot
BB	Asbestos	PS	Pressure
BC	Asbestos	RA	Radiation
BD	Asbestos	RB	Radiation
BE	Asbestos	RC	Radiation
BF	Asbestos	RD	Radiation
BG	Asbestos	RE	Radiation
BH	Asbestos	RF	Radiation
BI	Asbestos	RG	Radiation
BJ	Asbestos	RH	Radiation
BK	Asbestos	RI	Radiation
BL	Asbestos	RJ	Radiation
BM	Asbestos	RK	Radiation
BN	Asbestos	RL	Radiation
BO	Asbestos	RM	Radiation
BP	Asbestos	RN	Radiation
BQ	Asbestos	RO	Radiation
BR	Asbestos	RP	Radiation
BS	Asbestos	RQ	Radiation
BT	Asbestos	RS	Radiation
BV	Asbestos	RT	Radiation
BW	Asbestos	RU	Radiation
BX	Asbestos	RV	Radiation
BY	Asbestos	RW	Radiation
BZ	Asbestos	RY	Radiation

ASSET LEGEND

VOLTAGE UNKNOWN	ENTRANCE	INTERSECT	...
STREET LIGHTING	HIGH VOLTAGE	...	...
TRAFFIC CONTROL	LOW VOLTAGE	...	...
TR	GAS LP	...	...
COMBUSTIBLE AIR	GAS HP	...	...
HEATING	GAS MP	...	...
CONDENSATE	GAS HP	...	...
WATER	PAEL	...	...
WATER RISING MAIN	FIRE MAIN	...	...
BRIERLY TELECOM	CCV	...	...
COLT	DATA	...	...
BT	DATA	...	...
LEVEL 3	INTER ROUTE	...	...
VERISON	BT TELECOM	...	...
BT TELECOM	BT TELECOM	...	...
TELENET	DATA	...	...
GENERAL COMMS	NETS	...	...
COMB	LUMEN	...	...
POOL WATER	HYDRAULICS	...	...
SURFACE WATER	CARRY DUCT	...	...
CHAMBER	UNCOMMON	...	...
GPR DESTRUCTION	GPR	...	...

PAS 128:2022 QUALITY LEVELS

QL1 Asset added from records
QL2 Asset added from site reconnaissance
QL3 Asset added from site reconnaissance
QL4 Asset added from site reconnaissance
QL5 Asset added from site reconnaissance
QL6 Asset added from site reconnaissance
QL7 Asset added from site reconnaissance
QL8 Asset added from site reconnaissance
QL9 Asset added from site reconnaissance
QL10 Asset added from site reconnaissance
QL11 Asset added from site reconnaissance
QL12 Asset added from site reconnaissance
QL13 Asset added from site reconnaissance
QL14 Asset added from site reconnaissance
QL15 Asset added from site reconnaissance
QL16 Asset added from site reconnaissance
QL17 Asset added from site reconnaissance
QL18 Asset added from site reconnaissance
QL19 Asset added from site reconnaissance
QL20 Asset added from site reconnaissance

UNDERGROUND SERVICES SURVEY CAVEATS

The Underground Services Survey is a PAS 128:2022 compliant type B MAP survey.

The user or recipient of the survey data understands and acknowledges that the data provided may contain errors or omissions and the user or recipient assumes full responsibility for any risks or damages resulting from, arising out of or in connection with any use of the captured information.

Multiple methods of detection have been used in the location and identification of underground assets. The results are not infallible due to several factors outside of underground assets. With any uncertainty, it is recommended that further investigations be carried out to confirm exact position and depth. All investigations should be carried out in accordance with the relevant standards and regulations. No warranty is made for the accuracy or completeness of the survey data. The results of the survey are for information only and should not be used to inform design or construction works. No responsibility is accepted for any damage or injury to property or persons arising from the use of the survey data.

GPR anomalies located on site or from post-processed data must be deemed as a false asset unless proven otherwise. GPR data is not able to detect assets at a depth greater than 4.0m. Further information is available in the PAS 128:2022 compliant Underground Utility Survey Report.

LINE LEVEL AND CONDITION SURVEY CAVEATS

Traditional Line and Level Surveys:
All levels are in metres and are above Ordnance Survey Mean Sea Level datum derived by multiple network RTK GPR observations.
The survey grid shown on this drawing is positioned on Ordnance Survey (OS) National Grid, obtained by multiple network RTK GPR observations.
Slender beams
Slender beams have been used in the location of the assets. The results are not infallible and should be viewed in that light. It is normally expected that the optimum accuracy be +/-10% of the depth of the located service.

BACKGROUND TOPOGRAPHIC INFORMATION

The grey-scale linework is the existing topographical survey drawing. It was provided by the client as digital drawing file '15800_Survey_Topographic_Survey_A01 - GPR survey.dwg'.
Plowman Craven cannot accept responsibility for its accuracy.
The grid shown on this drawing was established by reference to the grid contained within the digital drawing file '15800_Survey_Topographic_Survey_A01 - GPR survey.dwg'.
All levels are in metres and are above Ordnance Survey Mean Sea Level datum derived from data contained within the digital drawing file '15800_Survey_Topographic_Survey_A01 - GPR survey.dwg'.
Due to the inherent instability of paper materials, drawings plotted on paper may be stretched and distorted - dimensions scaled from paper plots should therefore be treated with caution.
This drawing has been produced for the purposes of the original commissioning agent. Plowman Craven reserves the right to share the collected data with the associated utility operators.
Plowman Craven Limited will accept no responsibility for details that are subsequently found to be the consequence of undisclosed facts or that were discovered from new data at the time of survey or that have been added since the survey.

SHEET LAYOUT

STATUS CODE & REVISIONS

Stat	Rev	Details	Checked	Date
S3	P01	First Issue - Lower Rd Site & Site Compound	IA	DN 02/02/23

Unless otherwise stated, levels have been taken to finished floor surface. Drains and service diameters are quoted in millimetres all other depths and dimensions are in metres. Drawing units are metres.

CLIENT
Morgan Sindall Construction & Infrastructure Ltd.
Corporation Street
CV21 2DW

PROJECT TITLE
**East London Line
Surrey Quays
SE16 2UE**

2D Underground Services Survey

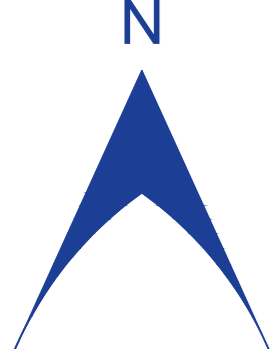
PRESENTATION SCALE: 1:100 @ A0

DATE OF ORIGINAL SURVEY: January 2023

PC PROJECT No: 48150 STATUS & REVISION S3 P01

DRAWING No: 48150-PCL-UT-XX-DR-Y-0001

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ASSET ABBREVIATIONS

AS	Asbestos Contaminated	AS	Asbestos Contaminated
AC	Asbestos Coverings	LI	Low Voltage
BW	Building Work	MI	Mechanical
BA	Barriers	MP	Manhole
BS	Borehole	NS	No Pipe Visible
CD	Control Duct	NV	No Visible Cable
CI	Cast Iron	PCC	Precast Concrete Chamber
CO	Concrete	RG	Rail Gauge
CR	Concrete	SI	Structural Iron
CS	Cast Steel	SR	Street Rail
D	Depth of Service	TC	Through the Cover
DE	Depth of Excavation	TR	Through the Rail
DF	Depth of Foundation	U	Unknown
DG	Depth of Groundwater	V	Vermin
DS	Drainage System	VS	Vermin Signs
EA	Earth Assets	WT	Water Table
EB	Earth Boring	WT	Water Table
ECC	East of Cable Track	X	Unmapped
ECS	East of Service	Y	Unmapped
EG	East of GPR Trace	Z	Unmapped
EI	East of Interference	AA	Asbestos
EM	East of Main	AB	Asbestos
EN	East of Noise	AC	Asbestos
EP	East of Pipe	AD	Asbestos
ES	East of Signal	AE	Asbestos
ET	East of Track	AF	Asbestos
EU	East of Utility	AG	Asbestos
EV	East of Valve	AH	Asbestos
EW	East of Water	AI	Asbestos
EX	East of X	AJ	Asbestos
EY	East of Y	AK	Asbestos
EZ	East of Z	AL	Asbestos
EA	East of A	AM	Asbestos
EB	East of B	AN	Asbestos
EC	East of C	AO	Asbestos
ED	East of D	AP	Asbestos
EE	East of E	AQ	Asbestos
EF	East of F	AR	Asbestos
EG	East of G	AS	Asbestos
EH	East of H	AT	Asbestos
EI	East of I	AU	Asbestos
EJ	East of J	AV	Asbestos
EK	East of K	AW	Asbestos
EL	East of L	AX	Asbestos
EM	East of M	AY	Asbestos
EN	East of N	AZ	Asbestos
EO	East of O	BA	Asbestos
EP	East of P	BB	Asbestos
EQ	East of Q	BC	Asbestos
ER	East of R	BD	Asbestos
ES	East of S	BE	Asbestos
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ED	East of D	BP	Asbestos
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EF	East of F	BR	Asbestos
EG	East of G	BS	Asbestos
EH	East of H	BT	Asbestos
EI	East of I	BV	Asbestos
EJ	East of J	BW	Asbestos
EK	East of K	BX	Asbestos
EL	East of L	BY	Asbestos
EM	East of M	BZ	Asbestos
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EO	East of O	CB	Asbestos
EP	East of P	CC	Asbestos
EQ	East of Q	CD	Asbestos
ER	East of R	CE	Asbestos
ES	East of S	CF	Asbestos
ET	East of T	CG	Asbestos
EU	East of U	CH	Asbestos
EV	East of V	CI	Asbestos
EW	East of W	CJ	Asbestos
EX	East of X	CK	Asbestos
EY	East of Y	CL	Asbestos
EZ	East of Z	CM	Asbestos
EA	East of A	CN	Asbestos
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EU	East of U	DH	Asbestos
EV	East of V	DI	Asbestos
EW	East of W	DJ	Asbestos
EX	East of X	DK	Asbestos
EY	East of Y	DL	Asbestos
EZ	East of Z	DM	Asbestos
EA	East of A	DN	Asbestos
EB	East of B	DO	Asbestos
EC	East of C	DP	Asbestos
ED	East of D	DQ	Asbestos
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EX	East of X	EK	Asbestos
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EU	East of U	EH	Asbestos
EV	East of V	EI	Asbestos
EW	East of W	EJ	Asbestos
EX	East of X	EK	Asbestos
EY	East of Y	EL	Asbestos
EZ	East of Z	EM	Asbestos
EA	East of A	EN	Asbestos
EB	East of B	EO	Asbestos
EC	East of C	EP	Asbestos
ED	East of D	EQ	Asbestos

Appendix C. Greenfield Runoff Calculations

C.1. British Land Greenfiled runoff calculations

Accepted as Noted CAT 2

Rural Runoff Calculator

Micro Drainage

ICP SUDS

ICP SUDS Input (FSR Method)

Return Period (Years): 100

Area (ha): 0.176

SAAR (mm): 600

Soil: 0.300

Growth Curve: (None)

Partly Urbanised Catchment (QBAR)

Urban: 0.000

Region: Region 6

Calculate

Results

QBAR rural (l/s): 0.3

QBAR urban (l/s): 0.3

Return Period Flood

Region	QBAR (l/s)	Q (100yrs) (l/s)	Q (1 yrs) (l/s)	Q (30 yrs) (l/s)	Q (100 yrs) (l/s)
IH 124					
ICP SUDS	0.3	0.7	0.2	0.5	0.7
ADAS 345	0.3	0.6	0.2	0.5	0.6
FEH	0.3	0.7	0.2	0.5	0.7
ReFH2	0.3	1.0	0.2	0.6	1.0
Greenfield Volume	0.3	0.6	0.2	0.5	0.6
Greenfield Volume (ReFH2)	0.3	0.6	0.2	0.5	0.6

OK Cancel Help

Select the required region.

Quick Storage Estimate

Micro Drainage

Variables

FSR Rainfall

Return Period (years): 100

Region: England and Wales

M5-60 (mm): 20.100

Ratio R: 0.447

Cv (Summer): 0.750

Cv (Winter): 0.840

Impermeable Area (ha): 0.170

Maximum Allowable Discharge (l/s): 1.0

Infiltration Coefficient (m/hr): 0.00000

Safety Factor: 2.0

Climate Change (%): 40

Analyse OK Cancel Help

Quick Storage Estimate

Micro Drainage

Results


Global Variables require approximate storage of between 99 m³ and 129 m³.

These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Appendix D. Existing Surface Water Hydraulic Calculation

Accepted as Noted CAT 2

Atkins Global		Page 1
18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...		
Date 13/07/2023 12:38 File EXISTING DRAINAGE 0.3.MDX	Designed by SHAR7062 Checked by	
XP Solutions	Network 2020.1.3	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm


Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	100	Foul Sewage (l/s/ha)	0.000	Maximum Backdrop Height (m)	1.500
M5-60 (mm)	20.000	Volumetric Runoff Coeff.	0.750	Min Design Depth for Optimisation (m)	1.200
Ratio R	0.447	PIMP (%)	100	Min Vel for Auto Design only (m/s)	1.00
Maximum Rainfall (mm/hr)	250	Add Flow / Climate Change (%)	0	Min Slope for Optimisation (1:X)	500
Maximum Time of Concentration (mins)	30	Minimum Backdrop Height (m)	0.200		


Designed with Level Soffits

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	5.493	0.036	154.0	0.003	5.00	0.0	0.600	o	150	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	173.16	5.11	96.240	0.003	0.0	0.0	0.0	0.81	14.3	1.6


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Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.001	19.883	0.081	245.0	0.018	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
1.002	20.615	0.084	245.0	0.014	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
1.003	2.533	0.009	280.7	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
1.004	24.504	0.108	227.6	0.005	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
1.005	15.013	0.059	254.8	0.003	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
1.006	28.784	0.153	188.4	0.002	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
1.007	9.664	0.113	85.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
2.000	29.762	0.120	248.0	0.018	5.00	0.0	0.600	o	300	Pipe/Conduit	👍
2.001	10.546	0.021	500.0	0.005	0.00	0.0	0.600	o	300	Pipe/Conduit	👍

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.001	169.03	5.44	96.054	0.021	0.0	0.0	0.0	1.00	70.7	9.6
1.002	164.99	5.79	95.973	0.035	0.0	0.0	0.0	1.00	70.7	15.6
1.003	164.47	5.83	95.889	0.035	0.0	0.0	0.0	0.93	66.0	15.6
1.004	160.16	6.23	95.880	0.040	0.0	0.0	0.0	1.04	73.3	17.4
1.005	157.51	6.48	95.772	0.043	0.0	0.0	0.0	0.98	69.3	18.2
1.006	153.37	6.90	95.713	0.045	0.0	0.0	0.0	1.14	80.7	18.5
1.007	152.48	7.00	95.561	0.045	0.0	0.0	0.0	1.70	120.3	18.5
2.000	168.37	5.50	96.750	0.018	0.0	0.0	0.0	0.99	70.3	8.1
2.001	165.41	5.75	96.630	0.023	0.0	0.0	0.0	0.70	49.2	10.1

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Network Design Table for Storm


PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
2.002	23.738	0.174	136.4	0.018	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
2.003	17.097	0.070	245.0	0.010	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
1.008	13.615	0.016	827.3	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit	👍

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
2.002	162.11	6.05	96.609	0.040	0.0	0.0	0.0	1.34	95.0	17.6
2.003	159.07	6.33	96.435	0.050	0.0	0.0	0.0	1.00	70.7	21.7
1.008	149.14	7.36	95.373	0.095	0.0	0.0	0.0	0.62	68.7	38.4

Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out			Pipes In			Backdrop (mm)
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)	Diameter (mm)	
DW02	97.968	1.728	Open Manhole	1200	1.000	96.240	150				
AM11	99.202	3.148	Open Manhole	1200 x 750	1.001	96.054	300	1.000	96.204	150	
IA01	97.836	1.863	Open Manhole	1200 x 750	1.002	95.973	300	1.001	95.973	300	
AM03	97.702	1.813	Open Manhole	1040 x 680	1.003	95.889	300	1.002	95.889	300	
AM04	97.710	1.830	Open Manhole	1040 x 680	1.004	95.880	300	1.003	95.880	300	
AM02	97.748	1.976	Open Manhole	850 x 650	1.005	95.772	300	1.004	95.772	300	
M162/0210	97.807	2.094	Open Manhole	1200 x 750	1.006	95.713	300	1.005	95.713	300	
M162/0205	97.662	2.101	Open Manhole	1200 x 750	1.007	95.561	300	1.006	95.561	300	
AM08	98.258	1.508	Open Manhole	1200 x 750	2.000	96.750	300				
IA 06	97.817	1.187	Open Manhole	1200 x 750	2.001	96.630	300	2.000	96.630	300	
IA07	97.729	1.120	Open Manhole	1250 x 710	2.002	96.609	300	2.001	96.609	300	
M162/0237	97.926	1.491	Open Manhole	1200 x 750	2.003	96.435	300	2.002	96.435	300	
Pump-Sump	97.660	2.287	Open Manhole	1200 x 750	1.008	95.373	375	1.007	95.448	300	
								2.003	96.365	300	917
	98.537	3.181	Open Manhole	0		OUTFALL		1.008	95.356	375	


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Manhole Schedules for Storm


MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
DW02	85889.655	33642.849	85889.655	33642.849	Required	
AM11	85885.345	33639.444	85885.345	33639.444	Required	
IA01	85876.338	33657.169	85876.338	33657.169	Required	
AM03	85869.766	33676.709	85869.766	33676.709	Required	
AM04	85869.341	33679.206	85869.341	33679.206	Required	
AM02	85860.471	33702.048	85860.471	33702.048	Required	
M162/0210	85854.850	33715.969	85854.850	33715.969	Required	
M162/0205	85845.471	33743.183	85845.471	33743.183	Required	


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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
AM08	85862.595	33664.330	85862.595	33664.330	Required	
IA 06	85850.593	33691.565	85850.593	33691.565	Required	
IA07	85849.207	33702.020	85849.207	33702.020	Required	
M162/0237	85842.672	33724.840	85842.672	33724.840	Required	
Pump-Sump	85836.147	33740.644	85836.147	33740.644	Required	
	85823.441	33735.751			No Entry	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	150	DW02	97.968	96.240	1.578	Open Manhole	1200
1.001	o	300	AM11	99.202	96.054	2.848	Open Manhole	1200 x 750
1.002	o	300	IA01	97.836	95.973	1.563	Open Manhole	1200 x 750
1.003	o	300	AM03	97.702	95.889	1.513	Open Manhole	1040 x 680
1.004	o	300	AM04	97.710	95.880	1.530	Open Manhole	1040 x 680
1.005	o	300	AM02	97.748	95.772	1.676	Open Manhole	850 x 650
1.006	o	300	M162/0210	97.807	95.713	1.794	Open Manhole	1200 x 750
1.007	o	300	M162/0205	97.662	95.561	1.801	Open Manhole	1200 x 750

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	5.493	154.0	AM11	99.202	96.204	2.848	Open Manhole	1200 x 750
1.001	19.883	245.0	IA01	97.836	95.973	1.563	Open Manhole	1200 x 750
1.002	20.615	245.0	AM03	97.702	95.889	1.513	Open Manhole	1040 x 680
1.003	2.533	280.7	AM04	97.710	95.880	1.530	Open Manhole	1040 x 680
1.004	24.504	227.6	AM02	97.748	95.772	1.676	Open Manhole	850 x 650
1.005	15.013	254.8	M162/0210	97.807	95.713	1.794	Open Manhole	1200 x 750
1.006	28.784	188.4	M162/0205	97.662	95.561	1.801	Open Manhole	1200 x 750
1.007	9.664	85.5	Pump-Sump	97.660	95.448	1.912	Open Manhole	1200 x 750

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
2.000	o	300	AM08	98.258	96.750	1.208	Open Manhole	1200 x 750
2.001	o	300	IA 06	97.817	96.630	0.887	Open Manhole	1200 x 750
2.002	o	300	IA07	97.729	96.609	0.820	Open Manhole	1250 x 710
2.003	o	300	M162/0237	97.926	96.435	1.191	Open Manhole	1200 x 750
1.008	o	375	Pump-Sump	97.660	95.373	1.912	Open Manhole	1200 x 750


Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
2.000	29.762	248.0	IA 06	97.817	96.630	0.887	Open Manhole	1200 x 750
2.001	10.546	500.0	IA07	97.729	96.609	0.820	Open Manhole	1250 x 710
2.002	23.738	136.4	M162/0237	97.926	96.435	1.191	Open Manhole	1200 x 750
2.003	17.097	245.0	Pump-Sump	97.660	96.365	0.995	Open Manhole	1200 x 750
1.008	13.615	827.3		98.537	95.356	2.806	Open Manhole	0

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Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	Classification	Existing SME/ Platfrom	100	0.003	0.003	0.003
1.001	Classification	Green Cess Area	50	0.010	0.005	0.005
	Classification	Existing SME/ Platfrom	100	0.013	0.013	0.018
1.002	Classification	Existing Building	100	0.003	0.003	0.003
	Classification	Green Cess Area	50	0.002	0.001	0.004
	User	-	100	0.010	0.010	0.014
1.003	-	-	100	0.000	0.000	0.000
1.004	User	-	100	0.005	0.005	0.005
1.005	User	-	100	0.003	0.003	0.003
1.006	User	-	100	0.002	0.002	0.002
1.007	-	-	100	0.000	0.000	0.000
2.000	Classification	Green Cess Area	50	0.020	0.010	0.010
	Classification	Green Cess Area	50	0.003	0.002	0.012
	Classification	Existing SME/ Platfrom	100	0.003	0.003	0.014
	Classification	Green Cess Area	50	0.001	0.001	0.015
	Classification	Existing SME/ Platfrom	100	0.003	0.003	0.018
2.001	Classification	Green Cess Area	50	0.010	0.005	0.005
2.002	Classification	Existing Building	100	0.005	0.005	0.005
	Classification	Green Cess Area	50	0.025	0.012	0.018
2.003	Classification	Green Cess Area	50	0.006	0.003	0.003
	Classification	Existing Building	100	0.007	0.007	0.010
1.008	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.133	0.095	0.095


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Network Classifications for Storm

PN	USMH Name	Pipe Dia (mm)	Min Cover Depth (m)	Max Cover Depth (m)	Pipe Type	MH Dia (mm)	MH Width (mm)	MH Ring Depth (m)	MH Type
1.000	DW02	150	1.578	2.848	Unclassified	1200	0	1.578	Unclassified
1.001	AM11	300	1.563	2.848	Unclassified	1200	750	2.848	Unclassified
1.002	IA01	300	1.513	1.563	Unclassified	1200	750	1.563	Unclassified
1.003	AM03	300	1.513	1.530	Unclassified	1040	680	1.513	Unclassified
1.004	AM04	300	1.530	1.676	Unclassified	1040	680	1.530	Unclassified
1.005	AM02	300	1.676	1.794	Unclassified	850	650	1.676	Unclassified
1.006	M162/0210	300	1.794	1.801	Unclassified	1200	750	1.794	Unclassified
1.007	M162/0205	300	1.801	1.912	Unclassified	1200	750	1.801	Unclassified
2.000	AM08	300	0.887	1.208	Unclassified	1200	750	1.208	Unclassified
2.001	IA 06	300	0.820	0.887	Unclassified	1200	750	0.887	Unclassified
2.002	IA07	300	0.820	1.191	Unclassified	1250	710	0.820	Unclassified
2.003	M162/0237	300	0.995	1.191	Unclassified	1200	750	1.191	Unclassified
1.008	Pump-Sump	375	1.912	2.806	Unclassified	1200	750	1.912	Unclassified

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.008		98.537	95.356	0.000	0	0

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Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Manhole Headloss Coeff (Global)	0.500	Inlet Coeffiecient	0.800
Areal Reduction Factor	1.000	Foul Sewage per hectare (l/s)	0.000	Flow per Person per Day (l/per/day)	0.000
Hot Start (mins)	0	Additional Flow - % of Total Flow	0.000	Run Time (mins)	60
Hot Start Level (mm)	0	MADD Factor * 10m ³ /ha Storage	2.000	Output Interval (mins)	1

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 0 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model	FSR	M5-60 (mm)	20.000	Cv (Summer)	0.750
Return Period (years)	100	Ratio R	0.448	Cv (Winter)	0.840
Region	England and Wales	Profile Type	Summer Storm	Duration (mins)	30

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Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	DW02	0.500
1.001	AM11	0.500
1.002	IA01	0.500
1.003	AM03	0.500
1.004	AM04	0.500
1.005	AM02	0.500
1.006	M162/0210	0.500
1.007	M162/0205	0.500
2.000	AM08	0.500
2.001	IA 06	0.500
2.002	IA07	0.500
2.003	M162/0237	0.500
1.008	Pump-Sump	0.500

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 0 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 20.000 Cv (Summer) 0.750
Region England and Wales Ratio R 0.449 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760, 7200, 8640, 10080
Return Period(s) (years) 5, 25, 50, 100
Climate Change (%) 0, 0, 0, 0


PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged	Flooded	Half Drain Time (mins)	Pipe
									Level (m)	Depth (m)	Volume (m ³)		Flow / Overflow Cap. (l/s)
1.000	DW02	15 Winter	100	+0%					96.277	-0.113	0.000	0.13	1.6
1.001	AM11	15 Winter	100	+0%					96.138	-0.217	0.000	0.17	10.2

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Status	Level Exceeded
1.000	DW02	OK	
1.001	AM11	OK	

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Surcharged Flooded			Half Drain Time (mins)	Pipe Flow (l/s)	
									Level (m)	Depth (m)	Volume (m ³)			Flow / Overflow Cap. (l/s)
1.002	IA01	15 Winter	100	+0%					96.080	-0.193	0.000	0.27		16.6
1.003	AM03	15 Winter	100	+0%					96.005	-0.184	0.000	0.32		16.7
1.004	AM04	15 Winter	100	+0%					95.990	-0.190	0.000	0.29		18.8
1.005	AM02	15 Winter	100	+0%					95.893	-0.179	0.000	0.34		19.6
1.006	M162/0210	15 Winter	100	+0%					95.821	-0.193	0.000	0.27		20.1
1.007	M162/0205	15 Winter	100	+0%					95.693	-0.168	0.000	0.25		20.6
2.000	AM08	15 Winter	100	+0%					96.821	-0.229	0.000	0.13		8.0
2.001	IA 06	15 Winter	100	+0%					96.749	-0.181	0.000	0.33		10.0
2.002	IA07	15 Winter	100	+0%					96.703	-0.206	0.000	0.21		17.7
2.003	M162/0237	15 Winter	100	+0%					96.562	-0.172	0.000	0.37		22.5
1.008	Pump-Sump	15 Winter	100	+0%					95.680	-0.068	0.000	1.00		39.6

Accepted as Noted CAT 2

PN	US/MH Name	Status	Level Exceeded
1.002	IA01	OK	
1.003	AM03	OK	
1.004	AM04	OK	
1.005	AM02	OK	
1.006	M162/0210	OK	
1.007	M162/0205	OK	
2.000	AM08	OK	
2.001	IA 06	OK	

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Summary of Critical Results by Maximum Level (Rank 1) for Storm


PN	US/MH Name	Status	Level Exceeded
2.002	IA07	OK	
2.003	M162/0237	OK	
1.008	Pump-Sump	OK	

Accepted as Noted CAT 2

Appendix E. Proposed Surface Water Hydraulic Calculation

E.1. Station Drainage

Accepted as Noted CAT 2

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

	FEH Rainfall Model		
Return Period (years)	100		Volumetric Runoff Coeff. 0.750
			PIMP (%) 100
FEH Rainfall Version	2013		Add Flow / Climate Change (%) 0
Site Location	GB 535589 179023 TQ 35589 79023		Minimum Backdrop Height (m) 0.500
Data Type	Point		Maximum Backdrop Height (m) 1.500
Maximum Rainfall (mm/hr)	250	Min Design Depth for Optimisation (m)	1.200
Maximum Time of Concentration (mins)	30	Min Vel for Auto Design only (m/s)	1.00
Foul Sewage (l/s/ha)	0.000	Min Slope for Optimisation (1:X)	500


Designed with Level Soffits

Network Design Table for Storm









PN	Length	Fall	Slope	I.Area	T.E.	Base	k	HYD	DIA	Section Type	Auto
	(m)	(m)	(1:X)	(ha)	(mins)	Flow (l/s)	(mm)	SECT	(mm)		Design

Network Results Table

PN	Rain	T.C.	US/IL	Σ I.Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow
	(mm/hr)	(mins)	(m)	(ha)	Flow (l/s)	(l/s)	(l/s)	(m/s)	(l/s)	(l/s)


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Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	29.834	0.122	245.0	0.041	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.001	10.094	0.020	500.0	0.021	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.002	8.615	0.035	245.0	0.013	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.003	16.550	0.094	177.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.004	16.076	0.066	245.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
2.000	5.983	0.040	149.6	0.000	5.00	0.0	0.600	o	300	Pipe/Conduit	
2.001	19.883	0.040	500.0	0.009	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.000	4.261	0.025	170.0	0.036	5.00	0.0	0.600	o	225	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	203.70	5.50	96.750	0.041	0.0	0.0	0.0	1.00	70.7	22.6
1.001	200.21	5.74	96.630	0.062	0.0	0.0	0.0	0.70	49.2	33.7
1.002	198.20	5.88	96.610	0.075	0.0	0.0	0.0	1.00	70.7	40.3
1.003	195.02	6.12	96.529	0.075	0.0	0.0	0.0	1.18	83.3	40.3
1.004	191.52	6.38	96.435	0.075	0.0	0.0	0.0	1.00	70.7	40.3
2.000	210.18	5.08	96.240	0.000	0.0	0.0	0.0	1.28	90.7	0.0
2.001	202.87	5.55	96.140	0.009	0.0	0.0	0.0	0.70	49.2	4.9
3.000	210.29	5.07	97.425	0.036	0.0	0.0	0.0	1.00	39.8	20.6


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Network Design Table for Storm


PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
3.001	16.460	0.033	500.0	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	👍
3.002	6.113	0.061	100.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	👍
2.002	20.615	0.041	500.0	0.005	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
2.003	2.566	0.011	233.3	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
2.004	24.457	0.049	500.0	0.004	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
2.005	14.438	0.029	500.0	0.002	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
2.006	29.334	0.059	500.0	0.001	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
2.007	4.967	0.020	248.4	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	👍
2.008	4.967	0.020	245.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	👍

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
3.001	206.79	5.29	96.875	0.036	0.0	0.0	0.0	1.24	549.9	20.6
3.002	205.60	5.37	96.842	0.036	0.0	0.0	0.0	1.31	52.0	20.6
2.002	195.96	6.05	96.100	0.050	0.0	0.0	0.0	0.70	49.2	26.7
2.003	195.40	6.09	96.059	0.050	0.0	0.0	0.0	1.03	72.5	26.7
2.004	187.88	6.67	96.048	0.054	0.0	0.0	0.0	0.70	49.2	27.5
2.005	183.72	7.02	95.999	0.056	0.0	0.0	0.0	0.70	49.2	27.7
2.006	175.85	7.72	95.970	0.057	0.0	0.0	0.0	0.70	49.2	27.7
2.007	174.97	7.80	95.912	0.057	0.0	0.0	0.0	0.99	70.2	27.7
2.008	174.10	7.89	95.892	0.057	0.0	0.0	0.0	1.00	70.7	27.7

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Network Design Table for Storm


PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.005	11.688	0.117	99.9	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.005	172.81	8.01	95.761	0.132	0.0	0.0	0.0	1.57	111.2	61.8


Manhole Schedules for Storm


MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out PN	Invert Level (m)	Diameter (mm)	Pipes In PN	Invert Level (m)	Diameter (mm)	Backdrop (mm)
Ex. AM08	98.258	1.508	Open Manhole	1250 x 850	1.000	96.750	300				
Ex. IA06	97.817	1.189	Open Manhole	1250 x 710	1.001	96.630	300	1.000	96.628	300	
Ex. IA07	97.729	1.119	Open Manhole	1250 x 710	1.002	96.610	300	1.001	96.610	300	
Tank	97.729	1.200	Open Manhole	1200	1.003	96.529	300	1.002	96.575	300	46
Ex. M16/0237	97.904	1.469	Open Manhole	1200 x 750	1.004	96.435	300	1.003	96.435	300	
Ex. DW2	97.968	1.728	Open Manhole	850 x 650	2.000	96.240	300				
Ex. AM11	99.202	3.062	Open Manhole	1200 x 750	2.001	96.140	300	2.000	96.200	300	60
SIC 01 (connection to RWHT)	99.165	1.740	Open Manhole	450 x 450	3.000	97.425	225				
MH01	99.165	2.290	Open Manhole	1800	3.001	96.875	750	3.000	97.400	225	
FC 01	99.165	2.323	Open Manhole	1800	3.002	96.842	225	3.001	96.842	750	
Ex. IA01	99.165	3.065	Open Manhole	600	2.002	96.100	300	2.001	96.100	300	
								3.002	96.781	225	606
Ex. AM03	97.702	1.643	Open Manhole	1040 x 680	2.003	96.059	300	2.002	96.059	300	
Ex. AM04	97.710	1.662	Open Manhole	870 x 750	2.004	96.048	300	2.003	96.048	300	
Ex. AM02	97.748	1.749	Open Manhole	850 x 650	2.005	95.999	300	2.004	95.999	300	
Ex. M162/0210	97.807	1.837	Open Manhole	1200 x 750	2.006	95.970	300	2.005	95.970	300	
Ex. M162/0205	97.662	1.750	Open Manhole	1200 x 750	2.007	95.912	300	2.006	95.912	300	
Ex. M162/0206	97.731	1.839	Open Manhole	1200 x 750	2.008	95.892	300	2.007	95.892	300	
Ex. Pump-Sump	97.800	2.039	Open Manhole	1200	1.005	95.761	300	1.004	96.370	300	609

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Manhole Schedules for Storm


MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out		Pipes In		Backdrop (mm)	
					PN	Invert Level (m)	Diameter (mm)	PN		Invert Level (m)
	97.600	1.956	Open Manhole	0		OUTFALL	2.008	95.871	300	110
							1.005	95.644	300	

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
Ex. AM08	85862.184	33663.673	85862.184	33663.673	Required	
Ex. IA06	85850.284	33691.032	85850.284	33691.032	Required	
Ex. IA07	85847.232	33700.653	85847.232	33700.653	Required	
Tank	85842.291	33707.711	85842.291	33707.711	Required	
Ex. M16/0237	85842.317	33724.261	85842.317	33724.261	Required	







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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
Ex. DW2	85889.127	33643.194	85889.127	33643.194	Required	
Ex. AM11	85884.979	33638.882	85884.979	33638.882	Required	
SIC 01 (connection to RWHT)	85892.101	33637.288	85892.101	33637.288	Required	
MH01	85889.141	33640.353	85889.141	33640.353	Required	
FC 01	85881.962	33655.166	85881.962	33655.166	Required	
Ex. IA01	85876.029	33656.636	85876.029	33656.636	Required	
Ex. AM03	85869.458	33676.176	85869.458	33676.176	Required	
Ex. AM04	85868.864	33678.673	85868.864	33678.673	Required	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
Ex. AM02	85860.126	33701.515	85860.126	33701.515	Required	
Ex. M162/0210	85855.113	33715.055	85855.113	33715.055	Required	
Ex. M162/0205	85845.162	33742.649	85845.162	33742.649	Required	
Ex. M162/0206	85840.541	33740.829	85840.541	33740.829	Required	
Ex. Pump-Sump	85835.919	33739.009	85835.919	33739.009	Required	
	85824.846	33735.269			No Entry	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	300	Ex. AM08	98.258	96.750	1.208	Open Manhole	1250 x 850
1.001	o	300	Ex. IA06	97.817	96.630	0.887	Open Manhole	1250 x 710
1.002	o	300	Ex. IA07	97.729	96.610	0.819	Open Manhole	1250 x 710
1.003	o	300	Tank	97.729	96.529	0.900	Open Manhole	1200
1.004	o	300	Ex. M16/0237	97.904	96.435	1.169	Open Manhole	1200 x 750
2.000	o	300	Ex. DW2	97.968	96.240	1.428	Open Manhole	850 x 650
2.001	o	300	Ex. AM11	99.202	96.140	2.762	Open Manhole	1200 x 750

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	29.834	245.0	Ex. IA06	97.817	96.628	0.889	Open Manhole	1250 x 710
1.001	10.094	500.0	Ex. IA07	97.729	96.610	0.819	Open Manhole	1250 x 710
1.002	8.615	245.0	Tank	97.729	96.575	0.854	Open Manhole	1200
1.003	16.550	177.0	Ex. M16/0237	97.904	96.435	1.169	Open Manhole	1200 x 750
1.004	16.076	245.0	Ex. Pump-Sump	97.800	96.370	1.130	Open Manhole	1200
2.000	5.983	149.6	Ex. AM11	99.202	96.200	2.702	Open Manhole	1200 x 750
2.001	19.883	500.0	Ex. IA01	99.165	96.100	2.765	Open Manhole	600

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
3.000	o	225	SIC 01 (connection to RWHT)	99.165	97.425	1.515	Open Manhole	450 x 450
3.001	o	750	MH01	99.165	96.875	1.540	Open Manhole	1800
3.002	o	225	FC 01	99.165	96.842	2.098	Open Manhole	1800
2.002	o	300	Ex. IA01	99.165	96.100	2.765	Open Manhole	600
2.003	o	300	Ex. AM03	97.702	96.059	1.343	Open Manhole	1040 x 680
2.004	o	300	Ex. AM04	97.710	96.048	1.362	Open Manhole	870 x 750
2.005	o	300	Ex. AM02	97.748	95.999	1.449	Open Manhole	850 x 650
2.006	o	300	Ex. M162/0210	97.807	95.970	1.537	Open Manhole	1200 x 750

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
3.000	4.261	170.0	MH01	99.165	97.400	1.540	Open Manhole	1800
3.001	16.460	500.0	FC 01	99.165	96.842	1.573	Open Manhole	1800
3.002	6.113	100.0	Ex. IA01	99.165	96.781	2.159	Open Manhole	600
2.002	20.615	500.0	Ex. AM03	97.702	96.059	1.343	Open Manhole	1040 x 680
2.003	2.566	233.3	Ex. AM04	97.710	96.048	1.362	Open Manhole	870 x 750
2.004	24.457	500.0	Ex. AM02	97.748	95.999	1.449	Open Manhole	850 x 650
2.005	14.438	500.0	Ex. M162/0210	97.807	95.970	1.537	Open Manhole	1200 x 750
2.006	29.334	500.0	Ex. M162/0205	97.662	95.912	1.450	Open Manhole	1200 x 750

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
2.007	o	300	Ex. M162/0205	97.662	95.912	1.450	Open Manhole	1200 x 750
2.008	o	300	Ex. M162/0206	97.731	95.892	1.539	Open Manhole	1200 x 750
1.005	o	300	Ex. Pump-Sump	97.800	95.761	1.739	Open Manhole	1200


Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
2.007	4.967	248.4	Ex. M162/0206	97.731	95.892	1.539	Open Manhole	1200 x 750
2.008	4.967	245.0	Ex. Pump-Sump	97.800	95.871	1.629	Open Manhole	1200
1.005	11.688	99.9		97.600	95.644	1.656	Open Manhole	0

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Area Summary for Storm


Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	Classification	Green cess area	50	0.023	0.012	0.012
	Classification	Proposed Extension	100	0.002	0.002	0.013
	Classification	Proposed Extension	100	0.006	0.006	0.020
	Classification	Proposed Extension	100	0.003	0.003	0.023
	Classification	Proposed Extension	100	0.018	0.018	0.041
1.001	Classification	Green cess area	50	0.011	0.005	0.005
	Classification	Green cess area	50	0.006	0.003	0.008
	Classification	Existing building	100	0.005	0.005	0.014
	Classification	Existing building	100	0.008	0.008	0.021
1.002	Classification	Green cess area	50	0.026	0.013	0.013
1.003	-	-	100	0.000	0.000	0.000
1.004	-	-	100	0.000	0.000	0.000
2.000	-	-	100	0.000	0.000	0.000
2.001	Classification	Existing SME/ PF	100	0.009	0.009	0.009
3.000	Classification	Proposed Extension	100	0.014	0.014	0.014
	Classification	Proposed Extension	100	0.002	0.002	0.016
	Classification	Proposed Extension	100	0.017	0.017	0.033
	Classification	Footover bridge roof	100	0.003	0.003	0.036
3.001	-	-	100	0.000	0.000	0.000
3.002	-	-	100	0.000	0.000	0.000
2.002	Classification	Proposed Extension	100	0.000	0.000	0.000
	Classification	Green cess area	50	0.010	0.005	0.005
2.003	-	-	100	0.000	0.000	0.000
2.004	Classification	Green cess area	50	0.008	0.004	0.004
2.005	Classification	Green cess area	50	0.003	0.002	0.002
2.006	Classification	Green cess area	50	0.002	0.001	0.001
2.007	-	-	100	0.000	0.000	0.000

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Area Summary for Storm


Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
2.008	-		- 100	0.000	0.000	0.000
1.005	-		- 100	0.000	0.000	0.000
				Total	Total	Total
				0.177	0.132	0.132

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Network Classifications for Storm

PN	USMH Name	Pipe Dia (mm)	Min Cover Depth (m)	Max Cover Depth (m)	Pipe Type	MH Dia (mm)	MH Width (mm)	MH Ring Depth (m)	MH Type
1.000	Ex. AM08	300	0.889	1.208	Unclassified	1250	850	1.208	Unclassified
1.001	Ex. IA06	300	0.819	0.887	Unclassified	1250	710	0.887	Unclassified
1.002	Ex. IA07	300	0.819	0.854	Unclassified	1250	710	0.819	Unclassified
1.003	Tank	300	0.900	1.169	Unclassified	1200	0	0.900	Unclassified
1.004	Ex. M16/0237	300	1.130	1.169	Unclassified	1200	750	1.169	Unclassified
2.000	Ex. DW2	300	1.428	2.702	Unclassified	850	650	1.428	Unclassified
2.001	Ex. AM11	300	2.762	2.765	Unclassified	1200	750	2.762	Unclassified
3.000	SIC 01 (connection to RWHT)	225	1.515	1.540	Unclassified	450	450	1.515	Unclassified
3.001	MH01	750	1.540	1.573	Unclassified	1800	0	1.540	Unclassified
3.002	FC 01	225	2.098	2.159	Unclassified	1800	0	2.098	Unclassified
2.002	Ex. IA01	300	1.343	2.765	Unclassified	600	0	2.765	Unclassified
2.003	Ex. AM03	300	1.343	1.362	Unclassified	1040	680	1.343	Unclassified
2.004	Ex. AM04	300	1.362	1.449	Unclassified	870	750	1.362	Unclassified
2.005	Ex. AM02	300	1.449	1.537	Unclassified	850	650	1.449	Unclassified
2.006	Ex. M162/0210	300	1.450	1.537	Unclassified	1200	750	1.537	Unclassified
2.007	Ex. M162/0205	300	1.450	1.539	Unclassified	1200	750	1.450	Unclassified
2.008	Ex. M162/0206	300	1.539	1.629	Unclassified	1200	750	1.539	Unclassified
1.005	Ex. Pump-Sump	300	1.656	1.739	Unclassified	1200	0	1.739	Unclassified

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Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall C. Level Name (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
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1.005	97.600	95.644	0.000	0	0
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Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Manhole Headloss Coeff (Global)	0.500	Inlet Coeffiecient	0.800
Areal Reduction Factor	1.000	Foul Sewage per hectare (l/s)	0.000	Flow per Person per Day (l/per/day)	0.000
Hot Start (mins)	0	Additional Flow - % of Total Flow	0.000	Run Time (mins)	60
Hot Start Level (mm)	0	MADD Factor * 10m ³ /ha Storage	2.000	Output Interval (mins)	1

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FEH	Summer Storms	Yes
Return Period (years)	100	Winter Storms	No
FEH Rainfall Version	2013	Cv (Summer)	0.750
Site Location	GB 535589 179023 TQ 35589 79023	Cv (Winter)	0.840
Data Type	Point Storm	Point Storm Duration (mins)	30

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Online Controls for Storm


Hydro-Brake® Optimum Manhole: Tank, DS/PN: 1 003, Volume (m³): 1.9

Unit Reference	MD-SHE-0176-1500-0900-1500	Sump Available	Yes
Design Head (m)	0.900	Diameter (mm)	176
Design Flow (l/s)	15.0	Invert Level (m)	96.529
Flush-Flo™	Calculated	Minimum Outlet Pipe Diameter (mm)	225
Objective	Minimise upstream storage	Suggested Manhole Diameter (mm)	1200
Application	Surface		

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.900	15.0	Kick-Flo®	0.648	12.8
Flush-Flo™	0.303	15.0	Mean Flow over Head Range	-	12.6

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	6.2	0.600	13.6	1.600	19.7	2.600	24.9	5.000	34.1	7.500	41.4
0.200	14.6	0.800	14.2	1.800	20.9	3.000	26.6	5.500	35.7	8.000	42.8
0.300	15.0	1.000	15.8	2.000	21.9	3.500	28.7	6.000	37.2	8.500	44.0
0.400	14.8	1.200	17.2	2.200	23.0	4.000	30.6	6.500	38.7	9.000	45.3
0.500	14.4	1.400	18.5	2.400	23.9	4.500	32.4	7.000	40.1	9.500	46.3

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Hydro-Brake® Optimum Manhole: FC 01, DS/PN: 3.002, Volume (m³): 12.4

Unit Reference	MD-SHE-0058-2000-1800-2000	Sump Available	Yes
Design Head (m)	1.800	Diameter (mm)	58
Design Flow (l/s)	2.0	Invert Level (m)	96.842
Flush-Flo™	Calculated	Minimum Outlet Pipe Diameter (mm)	75
Objective	Minimise upstream storage	Suggested Manhole Diameter (mm)	1200
Application	Surface		

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.800	2.0	Kick-Flo®	0.521	1.1
Flush-Flo™	0.257	1.4	Mean Flow over Head Range	-	1.5

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	1.2	0.600	1.2	1.600	1.9	2.600	2.4	5.000	3.2	7.500	3.9
0.200	1.4	0.800	1.4	1.800	2.0	3.000	2.5	5.500	3.3	8.000	4.0
0.300	1.4	1.000	1.5	2.000	2.1	3.500	2.7	6.000	3.5	8.500	4.1
0.400	1.3	1.200	1.7	2.200	2.2	4.000	2.9	6.500	3.6	9.000	4.2
0.500	1.2	1.400	1.8	2.400	2.3	4.500	3.1	7.000	3.7	9.500	4.3

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Storage Structures for Storm

Cellular Storage Manhole: Tank, DS/PN: 1.003

Invert Level (m) 96.529 Infiltration Coefficient Side (m/hr) 0.00000 Porosity 0.95
 Infiltration Coefficient Base (m/hr) 0.00000 Safety Factor 2.0


Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	25.7	0.0	0.450	25.7	0.0	0.451	0.0	0.0

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Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	Ex. AM08	0.500
1.001	Ex. IA06	0.500
1.002	Ex. IA07	0.500
1.003	Tank	0.500
1.004	Ex. M16/0237	0.500
2.000	Ex. DW2	0.500
2.001	Ex. AM11	0.500
3.000	SIC 01 (connection to RWHT)	0.500
3.001	MH01	0.500
3.002	FC 01	0.500
2.002	Ex. IA01	0.500
2.003	Ex. AM03	0.500
2.004	Ex. AM04	0.500
2.005	Ex. AM02	0.500
2.006	Ex. M162/0210	0.500
2.007	Ex. M162/0205	0.500
2.008	Ex. M162/0206	0.500
1.005	Ex. Pump-Sump	0.500

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CASDeF Controller for Storm

PN	US/MH Name	Level	Not Exceeded	Modify Control	Modify Pipe Size	Max Pipe Diameter	No. Pipe Failures	Add Storage	No. Storage Failures	Use CASDeF
1.000	Ex. AM08	98.258	Yes	No	1025	0	Yes	0	Yes	
1.001	Ex. IA06	97.817	Yes	No	950	0	Yes	0	Yes	
1.002	Ex. IA07	97.729	Yes	No	969	0	Yes	0	Yes	
1.003	Tank	97.729	Yes	No	1050	0	Yes	0	Yes	
1.004	Ex. M16/0237	97.904	Yes	No	1275	0	Yes	0	Yes	
2.000	Ex. DW2	97.968	Yes	No	1578	0	Yes	0	Yes	
2.001	Ex. AM11	99.202	Yes	No	2900	0	Yes	0	Yes	
3.000	SIC 01 (connection to RWHT)	99.165	Yes	No	1590	0	Yes	0	Yes	
3.001	MH01	99.165	Yes	No	2140	0	Yes	0	Yes	
3.002	FC 01	99.165	Yes	No	2173	0	Yes	0	Yes	
2.002	Ex. IA01	99.165	Yes	No	1475	0	Yes	0	Yes	
2.003	Ex. AM03	97.702	Yes	No	1493	0	Yes	0	Yes	
2.004	Ex. AM04	97.710	Yes	No	1512	0	Yes	0	Yes	
2.005	Ex. AM02	97.748	Yes	No	1599	0	Yes	0	Yes	
2.006	Ex. M162/0210	97.807	Yes	No	1600	0	Yes	0	Yes	
2.007	Ex. M162/0205	97.662	Yes	No	1600	0	Yes	0	Yes	
2.008	Ex. M162/0206	97.731	Yes	No	1689	0	Yes	0	Yes	
1.005	Ex. Pump-Sump	97.800	Yes	No	1800	0	Yes	0	Yes	

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Summary Wizard of 15 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	36	96.827	-0.223	0.000	0.14		9.1	OK

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Summary Wizard of 15 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)				
1.001	Ex. IA06	37	96.767	-0.163	0.000	0.42		12.7	OK
1.002	Ex. IA07	41	96.718	-0.192	0.000	0.28		14.9	OK
1.003	Tank	50	96.664	-0.165	0.000	0.14	10	10.0	OK
1.004	Ex. M16/0237	50	96.517	-0.219	0.000	0.17		9.9	OK
2.000	Ex. DW2	13	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	41	96.192	-0.248	0.000	0.04		1.7	OK
3.000	SIC 01 (connection to RWHT)	60	97.509	-0.141	0.000	0.29		8.2	OK
3.001	MH01	86	97.111	-0.514	0.000	0.02		6.7	OK
3.002	FC 01	86	97.111	0.044	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	41	96.168	-0.232	0.000	0.10		3.9	OK
2.003	Ex. AM03	42	96.123	-0.237	0.000	0.07		3.9	OK
2.004	Ex. AM04	42	96.118	-0.230	0.000	0.10		4.4	OK
2.005	Ex. AM02	43	96.077	-0.222	0.000	0.14		4.5	OK
2.006	Ex. M162/0210	43	96.035	-0.235	0.000	0.10		4.6	OK
2.007	Ex. M162/0205	43	95.974	-0.237	0.000	0.10		4.6	OK
2.008	Ex. M162/0206	43	95.954	-0.237	0.000	0.10		4.6	OK
1.005	Ex. Pump Sump	49	95.844	-0.217	0.000	0.17		14.5	OK

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Summary Wizard of 30 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	41	96.821	-0.229	0.000	0.13		8.0	OK

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Summary Wizard of 30 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	42	96.758	-0.172	0.000	0.38		11.4	OK
1.002	Ex. IA07	44	96.712	-0.198	0.000	0.25		13.5	OK
1.003	Tank	49	96.664	-0.165	0.000	0.14	12	10.0	OK
1.004	Ex. M16/0237	49	96.517	-0.218	0.000	0.17		10.0	OK
2.000	Ex. DW2	104	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	43	96.190	-0.250	0.000	0.04		1.5	OK
3.000	SIC 01 (connection to RWHT)	62	97.502	-0.148	0.000	0.26		7.1	OK
3.001	MH01	82	97.121	-0.504	0.000	0.02		5.9	OK
3.002	FC 01	82	97.121	0.054	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	44	96.167	-0.234	0.000	0.10		3.8	OK
2.003	Ex. AM03	44	96.122	-0.237	0.000	0.07		3.7	OK
2.004	Ex. AM04	45	96.117	-0.231	0.000	0.10		4.3	OK
2.005	Ex. AM02	45	96.076	-0.223	0.000	0.14		4.4	OK
2.006	Ex. M162/0210	46	96.035	-0.235	0.000	0.10		4.5	OK
2.007	Ex. M162/0205	46	95.974	-0.238	0.000	0.10		4.5	OK
2.008	Ex. M162/0206	46	95.954	-0.238	0.000	0.10		4.5	OK
1.005	Ex. Pump Sump	50	95.843	-0.218	0.000	0.17		14.5	OK

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Summary Wizard of 60 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	50	96.811	-0.239	0.000	0.09		5.6	OK

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Summary Wizard of 60 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume Flow (m ³) Cap.				
1.001	Ex. IA06	51	96.737	-0.193	0.000	0.28		8.4	OK
1.002	Ex. IA07	51	96.697	-0.213	0.000	0.19		10.0	OK
1.003	Tank	58	96.649	-0.180	0.000	0.12	18	8.4	OK
1.004	Ex. M16/0237	58	96.510	-0.226	0.000	0.14		8.4	OK
2.000	Ex. DW2	105	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	52	96.184	-0.256	0.000	0.03		1.2	OK
3.000	SIC 01 (connection to RWHT)	67	97.490	-0.160	0.000	0.18		5.0	OK
3.001	MH01	87	97.107	-0.518	0.000	0.01		4.2	OK
3.002	FC 01	87	97.107	0.040	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	52	96.162	-0.238	0.000	0.08		3.2	OK
2.003	Ex. AM03	53	96.117	-0.242	0.000	0.06		3.2	OK
2.004	Ex. AM04	53	96.112	-0.236	0.000	0.08		3.6	OK
2.005	Ex. AM02	55	96.071	-0.228	0.000	0.12		3.8	OK
2.006	Ex. M162/0210	55	96.031	-0.240	0.000	0.09		3.9	OK
2.007	Ex. M162/0205	55	95.969	-0.242	0.000	0.08		3.9	OK
2.008	Ex. M162/0206	55	95.949	-0.243	0.000	0.08		3.9	OK
1.005	Ex. Pump Sump	57	95.836	-0.225	0.000	0.14		12.2	OK

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Summary Wizard of 120 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	63	96.799	-0.251	0.000	0.06		4.1	OK

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Summary Wizard of 120 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.001	Ex. IA06	63	96.723	-0.207	0.000	0.21		6.2	OK
1.002	Ex. IA07	63	96.685	-0.225	0.000	0.14		7.5	OK
1.003	Tank	69	96.634	-0.195	0.000	0.10	32	6.9	OK
1.004	Ex. M16/0237	69	96.502	-0.233	0.000	0.11		6.8	OK
2.000	Ex. DW2	106	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	63	96.179	-0.261	0.000	0.02		0.9	OK
3.000	SIC 01 (connection to RWHT)	72	97.479	-0.171	0.000	0.13		3.7	OK
3.001	MH01	88	97.104	-0.521	0.000	0.01		3.2	OK
3.002	FC 01	88	97.104	0.037	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	62	96.158	-0.242	0.000	0.07		2.8	OK
2.003	Ex. AM03	63	96.113	-0.246	0.000	0.05		2.7	OK
2.004	Ex. AM04	63	96.108	-0.240	0.000	0.07		3.1	OK
2.005	Ex. AM02	66	96.066	-0.233	0.000	0.10		3.3	OK
2.006	Ex. M162/0210	66	96.025	-0.245	0.000	0.08		3.4	OK
2.007	Ex. M162/0205	66	95.964	-0.247	0.000	0.07		3.4	OK
2.008	Ex. M162/0206	66	95.944	-0.247	0.000	0.07		3.3	OK
1.005	Ex. Pump Sump	67	95.829	-0.232	0.000	0.12		10.2	OK

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Summary Wizard of 180 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	71	96.794	-0.256	0.000	0.05		3.4	OK

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Summary Wizard of 180 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	71	96.713	-0.217	0.000	0.17		5.0	OK	
1.002	Ex. IA07	72	96.677	-0.232	0.000	0.11		6.0	OK	
1.003	Tank	76	96.624	-0.205	0.000	0.08	36	5.7	OK	
1.004	Ex. M16/0237	76	96.497	-0.238	0.000	0.10		5.7	OK	
2.000	Ex. DW2	107	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	72	96.175	-0.265	0.000	0.02		0.7	OK	
3.000	SIC 01 (connection to RWHT)	75	97.474	-0.176	0.000	0.11		3.0	OK	
3.001	MH01	89	97.080	-0.545	0.000	0.01		2.6	OK	
3.002	FC 01	89	97.080	0.013	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	73	96.154	-0.246	0.000	0.06		2.5	OK	
2.003	Ex. AM03	74	96.108	-0.251	0.000	0.05		2.5	OK	
2.004	Ex. AM04	75	96.104	-0.244	0.000	0.06		2.8	OK	
2.005	Ex. AM02	75	96.062	-0.237	0.000	0.09		2.9	OK	
2.006	Ex. M162/0210	74	96.022	-0.249	0.000	0.07		3.0	OK	
2.007	Ex. M162/0205	75	95.961	-0.251	0.000	0.06		3.0	OK	
2.008	Ex. M162/0206	75	95.941	-0.251	0.000	0.06		3.0	OK	
1.005	Ex. Pump Sump	76	95.824	-0.237	0.000	0.10		8.7	OK	

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Summary Wizard of 240 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	81	96.790	-0.260	0.000	0.04		2.8	OK

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Summary Wizard of 240 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	81	96.705	-0.225	0.000	0.14		4.2	OK
1.002	Ex. IA07	81	96.672	-0.238	0.000	0.09		5.1	OK
1.003	Tank	83	96.615	-0.214	0.000	0.07	44	4.8	OK
1.004	Ex. M16/0237	83	96.492	-0.244	0.000	0.08		4.8	OK
2.000	Ex. DW2	108	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	81	96.173	-0.267	0.000	0.02		0.6	OK
3.000	SIC 01 (connection to RWHT)	82	97.470	-0.180	0.000	0.09		2.5	OK
3.001	MH01	93	97.050	-0.575	0.000	0.01		2.2	OK
3.002	FC 01	93	97.050	-0.017	0.000	0.04		1.4	OK
2.002	Ex. IA01	82	96.152	-0.249	0.000	0.06		2.3	OK
2.003	Ex. AM03	82	96.106	-0.253	0.000	0.04		2.3	OK
2.004	Ex. AM04	82	96.101	-0.247	0.000	0.06		2.5	OK
2.005	Ex. AM02	82	96.060	-0.240	0.000	0.08		2.6	OK
2.006	Ex. M162/0210	83	96.019	-0.252	0.000	0.06		2.7	OK
2.007	Ex. M162/0205	83	95.958	-0.253	0.000	0.06		2.7	OK
2.008	Ex. M162/0206	82	95.938	-0.254	0.000	0.06		2.7	OK
1.005	Ex. Pump-Sump	83	95.821	-0.240	0.000	0.09		7.5	OK

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Summary Wizard of 360 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	93	96.785	-0.265	0.000	0.03		2.1	OK

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Summary Wizard of 360 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	93	96.695	-0.235	0.000	0.10		3.1	OK
1.002	Ex. IA07	93	96.662	-0.248	0.000	0.07		3.8	OK
1.003	Tank	95	96.603	-0.226	0.000	0.05	66	3.6	OK
1.004	Ex. M16/0237	95	96.483	-0.252	0.000	0.06		3.6	OK
2.000	Ex. DW2	109	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	95	96.169	-0.271	0.000	0.01		0.4	OK
3.000	SIC 01 (connection to RWHT)	93	97.462	-0.188	0.000	0.06		1.8	OK
3.001	MH01	99	96.991	-0.634	0.000	0.01		1.7	OK
3.002	FC 01	99	96.991	-0.076	0.000	0.04		1.3	OK
2.002	Ex. IA01	96	96.148	-0.253	0.000	0.05		2.0	OK
2.003	Ex. AM03	96	96.101	-0.258	0.000	0.04		2.0	OK
2.004	Ex. AM04	96	96.096	-0.252	0.000	0.05		2.2	OK
2.005	Ex. AM02	96	96.054	-0.245	0.000	0.07		2.2	OK
2.006	Ex. M162/0210	96	96.015	-0.256	0.000	0.05		2.3	OK
2.007	Ex. M162/0205	96	95.954	-0.257	0.000	0.05		2.3	OK
2.008	Ex. M162/0206	96	95.934	-0.258	0.000	0.05		2.3	OK
1.005	Ex. Pump-Sump	95	95.812	-0.249	0.000	0.07		5.9	OK

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Summary Wizard of 480 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	102	96.782	-0.268	0.000	0.03		1.6	OK

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Summary Wizard of 480 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	102	96.688	-0.242	0.000	0.08		2.5	OK
1.002	Ex. IA07	102	96.655	-0.255	0.000	0.06		3.0	OK
1.003	Tank	102	96.594	-0.235	0.000	0.04	88	2.9	OK
1.004	Ex. M16/0237	102	96.478	-0.258	0.000	0.05		2.9	OK
2.000	Ex. DW2	110	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	102	96.164	-0.276	0.000	0.01		0.4	OK
3.000	SIC 01 (connection to RWHT)	102	97.458	-0.192	0.000	0.05		1.4	OK
3.001	MH01	104	96.953	-0.672	0.000	0.00		1.4	OK
3.002	FC 01	104	96.951	-0.116	0.000	0.04		1.2	OK
2.002	Ex. IA01	103	96.145	-0.256	0.000	0.05		1.8	OK
2.003	Ex. AM03	103	96.099	-0.260	0.000	0.03		1.8	OK
2.004	Ex. AM04	103	96.093	-0.255	0.000	0.04		1.9	OK
2.005	Ex. AM02	103	96.051	-0.248	0.000	0.06		2.0	OK
2.006	Ex. M162/0210	103	96.012	-0.258	0.000	0.05		2.0	OK
2.007	Ex. M162/0205	103	95.952	-0.260	0.000	0.04		2.0	OK
2.008	Ex. M162/0206	103	95.931	-0.260	0.000	0.04		2.0	OK
1.005	Ex. Pump-Sump	103	95.807	-0.254	0.000	0.06		4.9	OK

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Summary Wizard of 600 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	108	96.780	-0.270	0.000	0.02		1.4	OK

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Summary Wizard of 600 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	108	96.682	-0.248	0.000	0.07			2.1	OK
1.002	Ex. IA07	108	96.651	-0.259	0.000	0.05			2.5	OK
1.003	Tank	109	96.588	-0.241	0.000	0.03		110	2.4	OK
1.004	Ex. M16/0237	109	96.474	-0.261	0.000	0.04			2.4	OK
2.000	Ex. DW2	112	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	109	96.160	-0.280	0.000	0.01			0.3	OK
3.000	SIC 01 (connection to RWHT)	108	97.455	-0.195	0.000	0.04			1.2	OK
3.001	MH01	109	96.928	-0.697	0.000	0.00			1.2	OK
3.002	FC 01	109	96.925	-0.142	0.000	0.03			1.1	OK
2.002	Ex. IA01	109	96.142	-0.258	0.000	0.04			1.6	OK
2.003	Ex. AM03	109	96.096	-0.263	0.000	0.03			1.6	OK
2.004	Ex. AM04	109	96.090	-0.258	0.000	0.04			1.7	OK
2.005	Ex. AM02	109	96.047	-0.252	0.000	0.06			1.8	OK
2.006	Ex. M162/0210	109	96.009	-0.261	0.000	0.04			1.8	OK
2.007	Ex. M162/0205	109	95.949	-0.262	0.000	0.04			1.8	OK
2.008	Ex. M162/0206	109	95.929	-0.262	0.000	0.04			1.8	OK
1.005	Ex. Pump-Sump	109	95.803	-0.258	0.000	0.05			4.2	OK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryanan - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 720 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	115	96.776	-0.274	0.000	0.02		1.2	OK

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Summary Wizard of 720 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	115	96.678	-0.252	0.000	0.06		1.8	OK
1.002	Ex. IA07	115	96.648	-0.262	0.000	0.04		2.1	OK
1.003	Tank	115	96.584	-0.245	0.000	0.03	132	2.1	OK
1.004	Ex. M16/0237	115	96.472	-0.264	0.000	0.03		2.1	OK
2.000	Ex. DW2	120	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	115	96.157	-0.283	0.000	0.01		0.3	OK
3.000	SIC 01 (connection to RWHT)	115	97.453	-0.197	0.000	0.04		1.0	OK
3.001	MH01	115	96.917	-0.708	0.000	0.00		1.0	OK
3.002	FC 01	115	96.912	-0.155	0.000	0.03		1.0	OK
2.002	Ex. IA01	115	96.139	-0.261	0.000	0.04		1.4	OK
2.003	Ex. AM03	115	96.093	-0.266	0.000	0.03		1.4	OK
2.004	Ex. AM04	115	96.087	-0.261	0.000	0.03		1.5	OK
2.005	Ex. AM02	115	96.044	-0.255	0.000	0.05		1.5	OK
2.006	Ex. M162/0210	115	96.007	-0.263	0.000	0.03		1.6	OK
2.007	Ex. M162/0205	115	95.947	-0.264	0.000	0.03		1.6	OK
2.008	Ex. M162/0206	115	95.927	-0.265	0.000	0.03		1.5	OK
1.005	Ex. Pump-Sump	115	95.800	-0.261	0.000	0.04		3.6	OK

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Summary Wizard of 960 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	123	96.770	-0.280	0.000	0.01		0.9	OK

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Summary Wizard of 960 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	123	96.673	-0.257	0.000	0.05		1.4	OK
1.002	Ex. IA07	123	96.644	-0.266	0.000	0.03		1.7	OK
1.003	Tank	123	96.577	-0.252	0.000	0.02	176	1.6	OK
1.004	Ex. M16/0237	123	96.468	-0.267	0.000	0.03		1.6	OK
2.000	Ex. DW2	113	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	123	96.154	-0.286	0.000	0.01		0.2	OK
3.000	SIC 01 (connection to RWHT)	122	97.450	-0.200	0.000	0.03		0.8	OK
3.001	MH01	123	96.903	-0.722	0.000	0.00		0.8	OK
3.002	FC 01	123	96.897	-0.170	0.000	0.02		0.8	OK
2.002	Ex. IA01	123	96.136	-0.265	0.000	0.03		1.1	OK
2.003	Ex. AM03	123	96.090	-0.269	0.000	0.02		1.1	OK
2.004	Ex. AM04	123	96.083	-0.265	0.000	0.03		1.2	OK
2.005	Ex. AM02	123	96.039	-0.260	0.000	0.04		1.2	OK
2.006	Ex. M162/0210	123	96.004	-0.267	0.000	0.03		1.2	OK
2.007	Ex. M162/0205	123	95.944	-0.268	0.000	0.03		1.2	OK
2.008	Ex. M162/0206	123	95.924	-0.268	0.000	0.03		1.2	OK
1.005	Ex. Pump-Sump	123	95.796	-0.265	0.000	0.03		2.9	OK

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Summary Wizard of 1440 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	134	96.764	-0.286	0.000	0.01		0.6	OK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 1440 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	134	96.667	-0.263	0.000	0.03			1.0	OK
1.002	Ex. IA07	134	96.640	-0.270	0.000	0.02			1.2	OK
1.003	Tank	134	96.569	-0.260	0.000	0.02		240	1.2	OK
1.004	Ex. M16/0237	134	96.463	-0.272	0.000	0.02			1.2	OK
2.000	Ex. DW2	114	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	134	96.150	-0.290	0.000	0.00			0.1	OK
3.000	SIC 01 (connection to RWHT)	134	97.447	-0.203	0.000	0.02			0.6	OK
3.001	MH01	134	96.892	-0.733	0.000	0.00			0.6	OK
3.002	FC 01	134	96.884	-0.183	0.000	0.02			0.6	OK
2.002	Ex. IA01	134	96.131	-0.269	0.000	0.02			0.8	OK
2.003	Ex. AM03	134	96.085	-0.274	0.000	0.01			0.8	OK
2.004	Ex. AM04	134	96.079	-0.269	0.000	0.02			0.8	OK
2.005	Ex. AM02	134	96.034	-0.265	0.000	0.03			0.9	OK
2.006	Ex. M162/0210	135	95.999	-0.271	0.000	0.02			0.9	OK
2.007	Ex. M162/0205	135	95.938	-0.273	0.000	0.02			0.9	OK
2.008	Ex. M162/0206	134	95.918	-0.273	0.000	0.02			0.9	OK
1.005	Ex. Pump-Sump	135	95.792	-0.269	0.000	0.02			2.0	OK

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Summary Wizard of 2160 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	145	96.760	-0.290	0.000	0.01	0.5	OK	

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Summary Wizard of 2160 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (1/s)	Half Drain Time (mins)	Pipe Flow (1/s)	Status
1.001	Ex. IA06	145	96.662	-0.268	0.000	0.02			0.7	OK
1.002	Ex. IA07	145	96.633	-0.277	0.000	0.02			0.9	OK
1.003	Tank	145	96.563	-0.266	0.000	0.01		360	0.9	OK
1.004	Ex. M16/0237	145	96.456	-0.280	0.000	0.01			0.9	OK
2.000	Ex. DW2	115	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	145	96.146	-0.294	0.000	0.00			0.1	OK
3.000	SIC 01 (connection to RWHT)	145	97.441	-0.209	0.000	0.01			0.4	OK
3.001	MH01	145	96.886	-0.738	0.000	0.00			0.4	OK
3.002	FC 01	145	96.877	-0.190	0.000	0.01			0.4	OK
2.002	Ex. IA01	145	96.124	-0.276	0.000	0.01			0.6	OK
2.003	Ex. AM03	145	96.078	-0.281	0.000	0.01			0.6	OK
2.004	Ex. AM04	145	96.073	-0.275	0.000	0.01			0.6	OK
2.005	Ex. AM02	145	96.030	-0.269	0.000	0.02			0.6	OK
2.006	Ex. M162/0210	145	95.991	-0.279	0.000	0.01			0.6	OK
2.007	Ex. M162/0205	145	95.931	-0.280	0.000	0.01			0.6	OK
2.008	Ex. M162/0206	145	95.911	-0.280	0.000	0.01			0.6	OK
1.005	Ex. Pump-Sump	145	95.786	-0.275	0.000	0.02			1.5	OK

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Summary Wizard of 2880 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	150	96.758	-0.292	0.000	0.01	0.4	OK	

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Summary Wizard of 2880 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	150	96.658	-0.272	0.000	0.02		0.6	OK
1.002	Ex. IA07	150	96.628	-0.282	0.000	0.01		0.7	OK
1.003	Tank	150	96.559	-0.270	0.000	0.01	456	0.7	OK
1.004	Ex. M16/0237	150	96.452	-0.284	0.000	0.01		0.7	OK
2.000	Ex. DW2	116	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	150	96.145	-0.295	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	150	97.438	-0.212	0.000	0.01		0.3	OK
3.001	MH01	150	96.884	-0.741	0.000	0.00		0.3	OK
3.002	FC 01	150	96.872	-0.195	0.000	0.01		0.3	OK
2.002	Ex. IA01	150	96.120	-0.281	0.000	0.01		0.5	OK
2.003	Ex. AM03	150	96.074	-0.285	0.000	0.01		0.5	OK
2.004	Ex. AM04	150	96.068	-0.280	0.000	0.01		0.5	OK
2.005	Ex. AM02	150	96.025	-0.274	0.000	0.02		0.5	OK
2.006	Ex. M162/0210	150	95.987	-0.283	0.000	0.01		0.5	OK
2.007	Ex. M162/0205	150	95.927	-0.284	0.000	0.01		0.5	OK
2.008	Ex. M162/0206	150	95.907	-0.284	0.000	0.01		0.5	OK
1.005	Ex. Pump-Sump	150	95.781	-0.280	0.000	0.01		1.2	OK

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Summary Wizard of 4320 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	155	96.756	-0.294	0.000	0.00		0.3	OK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 4320 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	155	96.651	-0.279	0.000	0.01		0.4	OK
1.002	Ex. IA07	155	96.623	-0.287	0.000	0.01		0.5	OK
1.003	Tank	155	96.555	-0.274	0.000	0.01	672	0.5	OK
1.004	Ex. M16/0237	155	96.447	-0.288	0.000	0.01		0.5	OK
2.000	Ex. DW2	117	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	155	96.143	-0.297	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	155	97.434	-0.216	0.000	0.01		0.2	OK
3.001	MH01	155	96.881	-0.744	0.000	0.00		0.2	OK
3.002	FC 01	155	96.867	-0.200	0.000	0.01		0.2	OK
2.002	Ex. IA01	155	96.115	-0.286	0.000	0.01		0.3	OK
2.003	Ex. AM03	155	96.069	-0.290	0.000	0.01		0.3	OK
2.004	Ex. AM04	155	96.062	-0.286	0.000	0.01		0.4	OK
2.005	Ex. AM02	155	96.018	-0.281	0.000	0.01		0.4	OK
2.006	Ex. M162/0210	155	95.983	-0.287	0.000	0.01		0.4	OK
2.007	Ex. M162/0205	155	95.923	-0.288	0.000	0.01		0.4	OK
2.008	Ex. M162/0206	155	95.903	-0.288	0.000	0.01		0.4	OK
1.005	Ex. Pump-Sump	155	95.776	-0.285	0.000	0.01		0.9	OK

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Summary Wizard of 5760 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	157	96.755	-0.295	0.000	0.00		0.2	OK

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Summary Wizard of 5760 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	157	96.648	-0.282	0.000	0.01		0.3	OK
1.002	Ex. IA07	157	96.621	-0.289	0.000	0.01		0.4	OK
1.003	Tank	157	96.552	-0.277	0.000	0.01	840	0.4	OK
1.004	Ex. M16/0237	157	96.445	-0.290	0.000	0.01		0.4	OK
2.000	Ex. DW2	118	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	157	96.143	-0.297	0.000	0.00		0.0	OK
3.000	SIC 01 (connection to RWHT)	157	97.433	-0.217	0.000	0.01		0.2	OK
3.001	MH01	157	96.879	-0.746	0.000	0.00		0.2	OK
3.002	FC 01	157	96.865	-0.202	0.000	0.01		0.2	OK
2.002	Ex. IA01	157	96.112	-0.288	0.000	0.01		0.3	OK
2.003	Ex. AM03	157	96.067	-0.292	0.000	0.01		0.3	OK
2.004	Ex. AM04	157	96.059	-0.289	0.000	0.01		0.3	OK
2.005	Ex. AM02	157	96.015	-0.284	0.000	0.01		0.3	OK
2.006	Ex. M162/0210	157	95.980	-0.290	0.000	0.01		0.3	OK
2.007	Ex. M162/0205	157	95.921	-0.291	0.000	0.01		0.3	OK
2.008	Ex. M162/0206	157	95.901	-0.291	0.000	0.01		0.3	OK
1.005	Ex. Pump-Sump	157	95.773	-0.288	0.000	0.01		0.7	OK

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Summary Wizard of 15 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	24	96.867	-0.183	0.000	0.24	15.4	OK	

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Summary Wizard of 15 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	24	96.830	-0.100	0.000	0.78		23.2		OK
1.002	Ex. IA07	30	96.765	-0.145	0.000	0.52		27.9		OK
1.003	Tank	31	96.751	-0.078	0.000	0.21	10	14.6		OK
1.004	Ex. M16/0237	30	96.535	-0.200	0.000	0.24		14.6		OK
2.000	Ex. DW2	119	96.240	-0.300	0.000	0.00		0.0		OK
2.001	Ex. AM11	18	96.219	-0.221	0.000	0.10		3.8		OK
3.000	SIC 01 (connection to RWHT)	55	97.538	-0.112	0.000	0.50		13.9		OK
3.001	MH01	71	97.265	-0.360	0.000	0.04		11.6		OK
3.002	FC 01	71	97.265	0.198	0.000	0.04		1.4		SURCHARGED
2.002	Ex. IA01	18	96.194	-0.206	0.000	0.18		7.1		OK
2.003	Ex. AM03	20	96.150	-0.209	0.000	0.13		7.0		OK
2.004	Ex. AM04	20	96.146	-0.202	0.000	0.19		8.1		OK
2.005	Ex. AM02	20	96.105	-0.194	0.000	0.26		8.4		OK
2.006	Ex. M162/0210	20	96.060	-0.211	0.000	0.19		8.4		OK
2.007	Ex. M162/0205	20	95.997	-0.215	0.000	0.18		8.3		OK
2.008	Ex. M162/0206	20	95.977	-0.214	0.000	0.18		8.3		OK
1.005	Ex. Pump Sump	20	95.866	-0.195	0.000	0.27		22.9		OK

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Summary Wizard of 30 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	25	96.856	-0.194	0.000	0.21		13.7	OK	

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Summary Wizard of 30 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	26	96.815	-0.115	0.000	0.68		20.4	OK	
1.002	Ex. IA07	31	96.760	-0.149	0.000	0.45		24.3	OK	
1.003	Tank	30	96.752	-0.077	0.000	0.21	11	14.6	OK	
1.004	Ex. M16/0237	31	96.535	-0.200	0.000	0.24		14.6	OK	
2.000	Ex. DW2	103	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	21	96.213	-0.227	0.000	0.08		3.2	OK	
3.000	SIC 01 (connection to RWHT)	56	97.529	-0.121	0.000	0.44		12.3	OK	
3.001	MH01	63	97.310	-0.315	0.000	0.03		10.4	OK	
3.002	FC 01	63	97.310	0.243	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	21	96.189	-0.211	0.000	0.16		6.3	OK	
2.003	Ex. AM03	21	96.145	-0.214	0.000	0.12		6.2	OK	
2.004	Ex. AM04	21	96.141	-0.207	0.000	0.17		7.4	OK	
2.005	Ex. AM02	21	96.101	-0.198	0.000	0.24		7.6	OK	
2.006	Ex. M162/0210	22	96.055	-0.215	0.000	0.18		7.8	OK	
2.007	Ex. M162/0205	22	95.994	-0.218	0.000	0.17		7.8	OK	
2.008	Ex. M162/0206	23	95.973	-0.218	0.000	0.17		7.8	OK	
1.005	Ex. Pump Sump	25	95.865	-0.196	0.000	0.26		22.3	OK	

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Summary Wizard of 60 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	32	96.833	-0.217	0.000	0.15		9.6	OK	

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Summary Wizard of 60 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
1.001	Ex. IA06	32	96.779	-0.151	0.000	0.49			14.6	OK
1.002	Ex. IA07	37	96.732	-0.178	0.000	0.33			17.5	OK
1.003	Tank	37	96.717	-0.112	0.000	0.19		14	13.2	OK
1.004	Ex. M16/0237	37	96.531	-0.205	0.000	0.22			13.3	OK
2.000	Ex. DW2	102	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	30	96.202	-0.238	0.000	0.06			2.2	OK
3.000	SIC 01 (connection to RWHT)	58	97.511	-0.139	0.000	0.31			8.6	OK
3.001	MH01	67	97.305	-0.319	0.000	0.02			7.2	OK
3.002	FC 01	67	97.306	0.239	0.000	0.04			1.4	SURCHARGED
2.002	Ex. IA01	31	96.177	-0.223	0.000	0.12			4.8	OK
2.003	Ex. AM03	32	96.133	-0.226	0.000	0.09			4.8	OK
2.004	Ex. AM04	32	96.129	-0.219	0.000	0.13			5.7	OK
2.005	Ex. AM02	32	96.089	-0.210	0.000	0.19			6.0	OK
2.006	Ex. M162/0210	32	96.045	-0.225	0.000	0.14			6.1	OK
2.007	Ex. M162/0205	32	95.984	-0.228	0.000	0.13			6.2	OK
2.008	Ex. M162/0206	32	95.963	-0.228	0.000	0.13			6.2	OK
1.005	Ex. Pump Sump	35	95.857	-0.204	0.000	0.22			19.2	OK

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Summary Wizard of 120 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	45	96.814	-0.236	0.000	0.10	6.7	OK	

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Summary Wizard of 120 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	45	96.750	-0.180	0.000	0.33		10.0	OK	
1.002	Ex. IA07	48	96.707	-0.203	0.000	0.23		12.1	OK	
1.003	Tank	45	96.675	-0.154	0.000	0.15	28	10.8	OK	
1.004	Ex. M16/0237	45	96.520	-0.215	0.000	0.18		10.8	OK	
2.000	Ex. DW2	101	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	45	96.189	-0.251	0.000	0.04		1.5	OK	
3.000	SIC 01 (connection to RWHT)	65	97.495	-0.155	0.000	0.21		5.9	OK	
3.001	MH01	68	97.305	-0.320	0.000	0.02		5.1	OK	
3.002	FC 01	68	97.305	0.238	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	43	96.167	-0.233	0.000	0.10		3.7	OK	
2.003	Ex. AM03	43	96.122	-0.237	0.000	0.07		3.7	OK	
2.004	Ex. AM04	43	96.118	-0.230	0.000	0.10		4.3	OK	
2.005	Ex. AM02	42	96.078	-0.221	0.000	0.14		4.5	OK	
2.006	Ex. M162/0210	42	96.036	-0.234	0.000	0.10		4.7	OK	
2.007	Ex. M162/0205	42	95.975	-0.236	0.000	0.10		4.6	OK	
2.008	Ex. M162/0206	42	95.955	-0.236	0.000	0.10		4.7	OK	
1.005	Ex. Pump Sump	45	95.846	-0.215	0.000	0.18		15.5	OK	

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Summary Wizard of 180 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	52	96.808	-0.242	0.000	0.08		5.3	OK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 180 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	52	96.736	-0.194	0.000	0.27		7.9	OK	
1.002	Ex. IA07	53	96.696	-0.214	0.000	0.18		9.6	OK	
1.003	Tank	56	96.656	-0.173	0.000	0.13	33	9.0	OK	
1.004	Ex. M16/0237	56	96.513	-0.222	0.000	0.15		9.0	OK	
2.000	Ex. DW2	100	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	51	96.184	-0.256	0.000	0.03		1.2	OK	
3.000	SIC 01 (connection to RWHT)	68	97.487	-0.163	0.000	0.17		4.7	OK	
3.001	MH01	70	97.276	-0.349	0.000	0.01		4.1	OK	
3.002	FC 01	70	97.276	0.209	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	51	96.163	-0.237	0.000	0.08		3.2	OK	
2.003	Ex. AM03	51	96.118	-0.241	0.000	0.06		3.2	OK	
2.004	Ex. AM04	51	96.113	-0.235	0.000	0.08		3.7	OK	
2.005	Ex. AM02	51	96.072	-0.227	0.000	0.12		3.9	OK	
2.006	Ex. M162/0210	52	96.031	-0.239	0.000	0.09		4.0	OK	
2.007	Ex. M162/0205	52	95.971	-0.241	0.000	0.09		4.0	OK	
2.008	Ex. M162/0206	52	95.951	-0.241	0.000	0.09		4.0	OK	
1.005	Ex. Pump Sump	54	95.839	-0.222	0.000	0.15		13.1	OK	

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryanan - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 240 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	61	96.801	-0.249	0.000	0.07		4.3	OK	

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Summary Wizard of 240 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	61	96.725	-0.205	0.000	0.22		6.5	OK
1.002	Ex. IA07	61	96.686	-0.223	0.000	0.15		7.9	OK
1.003	Tank	63	96.641	-0.188	0.000	0.11	44	7.5	OK
1.004	Ex. M16/0237	63	96.506	-0.230	0.000	0.13		7.6	OK
2.000	Ex. DW2	85	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	61	96.180	-0.260	0.000	0.02		0.9	OK
3.000	SIC 01 (connection to RWHT)	71	97.480	-0.170	0.000	0.14		3.8	OK
3.001	MH01	74	97.233	-0.392	0.000	0.01		3.4	OK
3.002	FC 01	74	97.233	0.166	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	61	96.159	-0.241	0.000	0.07		2.9	OK
2.003	Ex. AM03	61	96.114	-0.245	0.000	0.06		2.9	OK
2.004	Ex. AM04	61	96.109	-0.239	0.000	0.08		3.3	OK
2.005	Ex. AM02	61	96.068	-0.232	0.000	0.11		3.4	OK
2.006	Ex. M162/0210	61	96.027	-0.243	0.000	0.08		3.5	OK
2.007	Ex. M162/0205	61	95.966	-0.245	0.000	0.08		3.5	OK
2.008	Ex. M162/0206	61	95.946	-0.246	0.000	0.08		3.6	OK
1.005	Ex. Pump Sump	62	95.832	-0.229	0.000	0.13		11.1	OK

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Summary Wizard of 360 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	77	96.792	-0.258	0.000	0.05		3.1	OK

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Summary Wizard of 360 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.001	Ex. IA06	77	96.710	-0.220	0.000	0.16		4.8	OK
1.002	Ex. IA07	77	96.675	-0.235	0.000	0.11		5.8	OK
1.003	Tank	77	96.624	-0.205	0.000	0.08	60	5.6	OK
1.004	Ex. M16/0237	77	96.497	-0.238	0.000	0.09		5.5	OK
2.000	Ex. DW2	86	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	76	96.174	-0.266	0.000	0.02		0.7	OK
3.000	SIC 01 (connection to RWHT)	80	97.472	-0.178	0.000	0.10		2.8	OK
3.001	MH01	78	97.150	-0.475	0.000	0.01		2.5	OK
3.002	FC 01	78	97.150	0.083	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	75	96.154	-0.246	0.000	0.06		2.5	OK
2.003	Ex. AM03	76	96.108	-0.251	0.000	0.05		2.5	OK
2.004	Ex. AM04	76	96.104	-0.244	0.000	0.06		2.8	OK
2.005	Ex. AM02	76	96.062	-0.237	0.000	0.09		2.9	OK
2.006	Ex. M162/0210	76	96.021	-0.249	0.000	0.07		3.0	OK
2.007	Ex. M162/0205	76	95.961	-0.251	0.000	0.06		3.0	OK
2.008	Ex. M162/0206	76	95.940	-0.251	0.000	0.06		3.0	OK
1.005	Ex. Pump Sump	77	95.824	-0.237	0.000	0.10		8.5	OK

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Summary Wizard of 480 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	87	96.788	-0.262	0.000	0.04		2.5	OK

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Summary Wizard of 480 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
1.001	Ex. IA06	87	96.701	-0.229	0.000	0.13			3.7	OK
1.002	Ex. IA07	87	96.668	-0.242	0.000	0.08			4.5	OK
1.003	Tank	87	96.612	-0.217	0.000	0.06		80	4.4	OK
1.004	Ex. M16/0237	87	96.489	-0.246	0.000	0.07			4.4	OK
2.000	Ex. DW2	87	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	86	96.171	-0.269	0.000	0.01			0.5	OK
3.000	SIC 01 (connection to RWHT)	87	97.466	-0.184	0.000	0.08			2.2	OK
3.001	MH01	90	97.077	-0.548	0.000	0.01			2.0	OK
3.002	FC 01	90	97.077	0.010	0.000	0.04			1.4	SURCHARGED
2.002	Ex. IA01	86	96.151	-0.250	0.000	0.06			2.2	OK
2.003	Ex. AM03	86	96.105	-0.254	0.000	0.04			2.2	OK
2.004	Ex. AM04	86	96.100	-0.248	0.000	0.06			2.4	OK
2.005	Ex. AM02	86	96.059	-0.241	0.000	0.08			2.5	OK
2.006	Ex. M162/0210	87	96.018	-0.252	0.000	0.06			2.6	OK
2.007	Ex. M162/0205	87	95.957	-0.254	0.000	0.06			2.6	OK
2.008	Ex. M162/0206	87	95.937	-0.254	0.000	0.06			2.6	OK
1.005	Ex. Pump Sump	87	95.818	-0.243	0.000	0.08			7.0	OK

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Summary Wizard of 600 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	95	96.785	-0.265	0.000	0.03		2.0	OK

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Summary Wizard of 600 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	95	96.694	-0.236	0.000	0.10		3.1	OK
1.002	Ex. IA07	95	96.661	-0.248	0.000	0.07		3.7	OK
1.003	Tank	94	96.603	-0.226	0.000	0.05	100	3.7	OK
1.004	Ex. M16/0237	94	96.484	-0.252	0.000	0.06		3.7	OK
2.000	Ex. DW2	88	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	94	96.169	-0.271	0.000	0.01		0.4	OK
3.000	SIC 01 (connection to RWHT)	95	97.462	-0.188	0.000	0.06		1.8	OK
3.001	MH01	96	97.019	-0.606	0.000	0.01		1.7	OK
3.002	FC 01	96	97.019	-0.048	0.000	0.04		1.4	OK
2.002	Ex. IA01	93	96.148	-0.252	0.000	0.05		2.0	OK
2.003	Ex. AM03	93	96.102	-0.257	0.000	0.04		2.0	OK
2.004	Ex. AM04	93	96.097	-0.251	0.000	0.05		2.2	OK
2.005	Ex. AM02	93	96.055	-0.244	0.000	0.07		2.3	OK
2.006	Ex. M162/0210	94	96.015	-0.255	0.000	0.05		2.3	OK
2.007	Ex. M162/0205	94	95.955	-0.257	0.000	0.05		2.3	OK
2.008	Ex. M162/0206	94	95.935	-0.257	0.000	0.05		2.3	OK
1.005	Ex. Pump-Sump	94	95.813	-0.248	0.000	0.07		6.0	OK

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Summary Wizard of 720 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	98	96.783	-0.267	0.000	0.03		1.7	OK

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Summary Wizard of 720 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	98	96.690	-0.240	0.000	0.09		2.6	OK
1.002	Ex. IA07	98	96.657	-0.253	0.000	0.06		3.2	OK
1.003	Tank	98	96.597	-0.232	0.000	0.04	120	3.2	OK
1.004	Ex. M16/0237	98	96.480	-0.256	0.000	0.05		3.2	OK
2.000	Ex. DW2	89	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	99	96.165	-0.275	0.000	0.01		0.4	OK
3.000	SIC 01 (connection to RWHT)	98	97.459	-0.191	0.000	0.06		1.5	OK
3.001	MH01	101	96.978	-0.647	0.000	0.00		1.5	OK
3.002	FC 01	101	96.977	-0.090	0.000	0.04		1.3	OK
2.002	Ex. IA01	100	96.146	-0.254	0.000	0.05		1.9	OK
2.003	Ex. AM03	100	96.100	-0.259	0.000	0.04		1.9	OK
2.004	Ex. AM04	99	96.095	-0.253	0.000	0.05		2.0	OK
2.005	Ex. AM02	100	96.053	-0.247	0.000	0.07		2.1	OK
2.006	Ex. M162/0210	100	96.013	-0.257	0.000	0.05		2.1	OK
2.007	Ex. M162/0205	100	95.953	-0.259	0.000	0.05		2.1	OK
2.008	Ex. M162/0206	100	95.933	-0.259	0.000	0.05		2.1	OK
1.005	Ex. Pump-Sump	99	95.809	-0.252	0.000	0.06		5.3	OK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryanan - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 960 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	109	96.780	-0.270	0.000	0.02		1.4	OK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 960 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	109	96.682	-0.248	0.000	0.07			2.0	OK
1.002	Ex. IA07	109	96.651	-0.259	0.000	0.05			2.5	OK
1.003	Tank	108	96.589	-0.240	0.000	0.03		160	2.4	OK
1.004	Ex. M16/0237	108	96.474	-0.261	0.000	0.04			2.4	OK
2.000	Ex. DW2	90	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	108	96.160	-0.280	0.000	0.01			0.3	OK
3.000	SIC 01 (connection to RWHT)	109	97.455	-0.195	0.000	0.04			1.2	OK
3.001	MH01	108	96.931	-0.694	0.000	0.00			1.2	OK
3.002	FC 01	108	96.927	-0.140	0.000	0.03			1.2	OK
2.002	Ex. IA01	108	96.142	-0.258	0.000	0.04			1.6	OK
2.003	Ex. AM03	108	96.096	-0.263	0.000	0.03			1.6	OK
2.004	Ex. AM04	108	96.090	-0.258	0.000	0.04			1.7	OK
2.005	Ex. AM02	108	96.048	-0.251	0.000	0.06			1.8	OK
2.006	Ex. M162/0210	108	96.009	-0.261	0.000	0.04			1.8	OK
2.007	Ex. M162/0205	108	95.950	-0.262	0.000	0.04			1.8	OK
2.008	Ex. M162/0206	108	95.929	-0.262	0.000	0.04			1.8	OK
1.005	Ex. Pump-Sump	108	95.804	-0.257	0.000	0.05			4.2	OK

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Summary Wizard of 1440 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	121	96.771	-0.279	0.000	0.01		0.9	OK

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Summary Wizard of 1440 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	121	96.674	-0.256	0.000	0.05		1.4	OK
1.002	Ex. IA07	121	96.645	-0.265	0.000	0.03		1.7	OK
1.003	Tank	121	96.578	-0.251	0.000	0.02	240	1.7	OK
1.004	Ex. M16/0237	121	96.469	-0.267	0.000	0.03		1.7	OK
2.000	Ex. DW2	91	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	121	96.154	-0.286	0.000	0.01		0.2	OK
3.000	SIC 01 (connection to RWHT)	121	97.450	-0.200	0.000	0.03		0.8	OK
3.001	MH01	121	96.905	-0.720	0.000	0.00		0.8	OK
3.002	FC 01	121	96.899	-0.168	0.000	0.02		0.8	OK
2.002	Ex. IA01	121	96.136	-0.264	0.000	0.03		1.2	OK
2.003	Ex. AM03	121	96.091	-0.268	0.000	0.02		1.1	OK
2.004	Ex. AM04	121	96.084	-0.264	0.000	0.03		1.2	OK
2.005	Ex. AM02	121	96.040	-0.259	0.000	0.04		1.3	OK
2.006	Ex. M162/0210	121	96.004	-0.266	0.000	0.03		1.3	OK
2.007	Ex. M162/0205	121	95.944	-0.267	0.000	0.03		1.3	OK
2.008	Ex. M162/0206	121	95.924	-0.267	0.000	0.03		1.3	OK
1.005	Ex. Pump-Sump	121	95.797	-0.264	0.000	0.04		3.0	OK

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Summary Wizard of 2160 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	131	96.765	-0.285	0.000	0.01		0.7	OK

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Summary Wizard of 2160 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	131	96.668	-0.262	0.000	0.03			1.0	OK
1.002	Ex. IA07	131	96.641	-0.269	0.000	0.02			1.2	OK
1.003	Tank	131	96.570	-0.259	0.000	0.02		336	1.2	OK
1.004	Ex. M16/0237	131	96.465	-0.270	0.000	0.02			1.2	OK
2.000	Ex. DW2	92	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	131	96.150	-0.290	0.000	0.00			0.1	OK
3.000	SIC 01 (connection to RWHT)	131	97.448	-0.202	0.000	0.02			0.6	OK
3.001	MH01	131	96.894	-0.731	0.000	0.00			0.6	OK
3.002	FC 01	131	96.886	-0.181	0.000	0.02			0.6	OK
2.002	Ex. IA01	131	96.132	-0.268	0.000	0.02			0.8	OK
2.003	Ex. AM03	131	96.086	-0.273	0.000	0.02			0.8	OK
2.004	Ex. AM04	132	96.079	-0.269	0.000	0.02			0.9	OK
2.005	Ex. AM02	131	96.035	-0.264	0.000	0.03			0.9	OK
2.006	Ex. M162/0210	131	96.000	-0.270	0.000	0.02			0.9	OK
2.007	Ex. M162/0205	132	95.940	-0.272	0.000	0.02			0.9	OK
2.008	Ex. M162/0206	131	95.920	-0.272	0.000	0.02			0.9	OK
1.005	Ex. Pump-Sump	133	95.793	-0.268	0.000	0.03			2.2	OK

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Summary Wizard of 2880 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	139	96.762	-0.288	0.000	0.01		0.5	OK

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Summary Wizard of 2880 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	139	96.664	-0.266	0.000	0.03		0.8	OK
1.002	Ex. IA07	139	96.636	-0.274	0.000	0.02		1.0	OK
1.003	Tank	139	96.566	-0.263	0.000	0.01	456	1.0	OK
1.004	Ex. M16/0237	139	96.459	-0.277	0.000	0.02		1.0	OK
2.000	Ex. DW2	93	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	139	96.148	-0.292	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	139	97.443	-0.207	0.000	0.02		0.5	OK
3.001	MH01	139	96.889	-0.736	0.000	0.00		0.5	OK
3.002	FC 01	139	96.880	-0.187	0.000	0.01		0.5	OK
2.002	Ex. IA01	139	96.128	-0.272	0.000	0.02		0.7	OK
2.003	Ex. AM03	139	96.081	-0.278	0.000	0.01		0.7	OK
2.004	Ex. AM04	139	96.076	-0.272	0.000	0.02		0.7	OK
2.005	Ex. AM02	139	96.031	-0.268	0.000	0.02		0.7	OK
2.006	Ex. M162/0210	139	95.994	-0.276	0.000	0.02		0.7	OK
2.007	Ex. M162/0205	139	95.934	-0.277	0.000	0.02		0.7	OK
2.008	Ex. M162/0206	139	95.914	-0.278	0.000	0.02		0.7	OK
1.005	Ex. Pump-Sump	139	95.789	-0.272	0.000	0.02		1.7	OK

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Summary Wizard of 4320 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	149	96.759	-0.291	0.000	0.01		0.4	OK	

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Summary Wizard of 4320 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	149	96.659	-0.271	0.000	0.02		0.6	OK
1.002	Ex. IA07	149	96.628	-0.281	0.000	0.01		0.7	OK
1.003	Tank	149	96.560	-0.269	0.000	0.01	648	0.7	OK
1.004	Ex. M16/0237	149	96.452	-0.283	0.000	0.01		0.7	OK
2.000	Ex. DW2	94	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	149	96.145	-0.295	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	149	97.438	-0.212	0.000	0.01		0.3	OK
3.001	MH01	149	96.884	-0.741	0.000	0.00		0.3	OK
3.002	FC 01	149	96.873	-0.194	0.000	0.01		0.3	OK
2.002	Ex. IA01	149	96.120	-0.280	0.000	0.01		0.5	OK
2.003	Ex. AM03	149	96.074	-0.285	0.000	0.01		0.5	OK
2.004	Ex. AM04	149	96.068	-0.280	0.000	0.01		0.5	OK
2.005	Ex. AM02	149	96.025	-0.274	0.000	0.02		0.5	OK
2.006	Ex. M162/0210	149	95.988	-0.282	0.000	0.01		0.5	OK
2.007	Ex. M162/0205	149	95.928	-0.284	0.000	0.01		0.5	OK
2.008	Ex. M162/0206	149	95.908	-0.284	0.000	0.01		0.5	OK
1.005	Ex. Pump-Sump	149	95.781	-0.280	0.000	0.01		1.2	OK

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Summary Wizard of 5760 minute 25 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	153	96.757	-0.293	0.000	0.00	0.3	OK	

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XP Solutions	Network 2020.1.3	

Summary Wizard of 5760 minute 25 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	153	96.654	-0.276	0.000	0.02		0.5	OK
1.002	Ex. IA07	153	96.625	-0.285	0.000	0.01		0.6	OK
1.003	Tank	153	96.556	-0.273	0.000	0.01	840	0.6	OK
1.004	Ex. M16/0237	153	96.449	-0.287	0.000	0.01		0.6	OK
2.000	Ex. DW2	95	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	153	96.144	-0.296	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	153	97.435	-0.215	0.000	0.01		0.3	OK
3.001	MH01	153	96.882	-0.743	0.000	0.00		0.3	OK
3.002	FC 01	153	96.869	-0.198	0.000	0.01		0.3	OK
2.002	Ex. IA01	153	96.116	-0.284	0.000	0.01		0.4	OK
2.003	Ex. AM03	153	96.071	-0.288	0.000	0.01		0.4	OK
2.004	Ex. AM04	153	96.064	-0.284	0.000	0.01		0.4	OK
2.005	Ex. AM02	153	96.021	-0.279	0.000	0.01		0.4	OK
2.006	Ex. M162/0210	153	95.984	-0.286	0.000	0.01		0.4	OK
2.007	Ex. M162/0205	153	95.925	-0.287	0.000	0.01		0.4	OK
2.008	Ex. M162/0206	153	95.904	-0.287	0.000	0.01		0.4	OK
1.005	Ex. Pump-Sump	153	95.777	-0.284	0.000	0.01		1.0	OK

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Summary Wizard of 15 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	16	96.962	-0.088	0.000	0.39		25.3	OK	

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Summary Wizard of 15 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	18	96.930	0.000	0.000	1.28	38.1	OK	
1.002	Ex. IA07	18	96.911	0.001	0.000	0.84	45.3	SURCHARGED	
1.003	Tank	18	96.902	0.073	0.000	0.21	12	15.0 SURCHARGED	
1.004	Ex. M16/0237	18	96.537	-0.199	0.000	0.25	15.0	OK	
2.000	Ex. DW2	9	96.240	-0.300	0.000	0.00	0.0	OK	
2.001	Ex. AM11	8	96.243	-0.197	0.000	0.16	6.2	OK	
3.000	SIC 01 (connection to RWHT)	51	97.582	-0.068	0.000	0.82	23.0	OK	
3.001	MH01	53	97.513	-0.112	0.000	0.06	19.2	OK	
3.002	FC 01	53	97.513	0.446	0.000	0.04	1.4	SURCHARGED	
2.002	Ex. IA01	9	96.218	-0.182	0.000	0.27	10.7	OK	
2.003	Ex. AM03	9	96.175	-0.184	0.000	0.20	10.5	OK	
2.004	Ex. AM04	9	96.172	-0.176	0.000	0.28	12.3	OK	
2.005	Ex. AM02	9	96.131	-0.168	0.000	0.40	12.8	OK	
2.006	Ex. M162/0210	9	96.081	-0.189	0.000	0.29	12.9	OK	
2.007	Ex. M162/0205	9	96.018	-0.193	0.000	0.27	12.6	OK	
2.008	Ex. M162/0206	9	95.998	-0.194	0.000	0.27	12.7	OK	
1.005	Ex. Pump Sump	9	95.878	-0.183	0.000	0.32	27.7	OK	

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Summary Wizard of 30 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	17	96.956	-0.094	0.000	0.35		22.2	OK

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Summary Wizard of 30 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	17	96.932	0.002	0.000	1.00		30.0	SURCHARGED	
1.002	Ex. IA07	17	96.923	0.013	0.000	0.67		35.8	SURCHARGED	
1.003	Tank	17	96.914	0.085	0.000	0.21	16	15.0	SURCHARGED	
1.004	Ex. M16/0237	17	96.537	-0.199	0.000	0.25		15.0	OK	
2.000	Ex. DW2	96	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	11	96.235	-0.205	0.000	0.14		5.3	OK	
3.000	SIC 01 (connection to RWHT)	45	97.650	0.000	0.000	0.73		20.4	OK	
3.001	MH01	45	97.649	0.024	0.000	0.06		17.3	SURCHARGED	
3.002	FC 01	45	97.649	0.582	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	11	96.210	-0.190	0.000	0.24		9.5	OK	
2.003	Ex. AM03	11	96.168	-0.191	0.000	0.18		9.3	OK	
2.004	Ex. AM04	11	96.164	-0.184	0.000	0.26		11.1	OK	
2.005	Ex. AM02	12	96.125	-0.174	0.000	0.36		11.5	OK	
2.006	Ex. M162/0210	12	96.076	-0.194	0.000	0.26		11.8	OK	
2.007	Ex. M162/0205	12	96.014	-0.197	0.000	0.25		11.8	OK	
2.008	Ex. M162/0206	12	95.993	-0.198	0.000	0.25		11.8	OK	
1.005	Ex. Pump Sump	12	95.876	-0.185	0.000	0.31		26.8	OK	

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Summary Wizard of 60 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	20	96.888	-0.162	0.000	0.25	15.9	OK	

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 60 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	20	96.877	-0.053	0.000	0.76		22.8		OK
1.002	Ex. IA07	20	96.869	-0.041	0.000	0.50		26.8		OK
1.003	Tank	20	96.859	0.030	0.000	0.21	18	15.0		SURCHARGED
1.004	Ex. M16/0237	20	96.537	-0.199	0.000	0.25		15.0		OK
2.000	Ex. DW2	97	96.240	-0.300	0.000	0.00		0.0		OK
2.001	Ex. AM11	16	96.220	-0.220	0.000	0.10		3.7		OK
3.000	SIC 01 (connection to RWHT)	43	97.729	0.079	0.000	0.52		14.4		SURCHARGED
3.001	MH01	43	97.728	0.103	0.000	0.04		12.1		SURCHARGED
3.002	FC 01	43	97.728	0.661	0.000	0.04		1.4		SURCHARGED
2.002	Ex. IA01	16	96.196	-0.205	0.000	0.18		6.9		OK
2.003	Ex. AM03	16	96.152	-0.207	0.000	0.13		7.0		OK
2.004	Ex. AM04	16	96.149	-0.199	0.000	0.20		8.5		OK
2.005	Ex. AM02	16	96.109	-0.190	0.000	0.28		8.9		OK
2.006	Ex. M162/0210	16	96.064	-0.206	0.000	0.21		9.2		OK
2.007	Ex. M162/0205	16	96.002	-0.209	0.000	0.20		9.3		OK
2.008	Ex. M162/0206	16	95.982	-0.210	0.000	0.20		9.3		OK
1.005	Ex. Pump Sump	16	95.869	-0.192	0.000	0.28		24.2		OK

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Summary Wizard of 120 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	28	96.844	-0.206	0.000	0.17		11.0	OK	

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Summary Wizard of 120 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	29	96.804	-0.126	0.000	0.54		16.3		OK
1.002	Ex. IA07	26	96.789	-0.121	0.000	0.36		19.3		OK
1.003	Tank	26	96.780	-0.049	0.000	0.21	20	14.7		OK
1.004	Ex. M16/0237	26	96.536	-0.200	0.000	0.25		14.7		OK
2.000	Ex. DW2	98	96.240	-0.300	0.000	0.00		0.0		OK
2.001	Ex. AM11	27	96.204	-0.236	0.000	0.06		2.4		OK
3.000	SIC 01 (connection to RWHT)	40	97.793	0.143	0.000	0.35		9.8		SURCHARGED
3.001	MH01	40	97.792	0.167	0.000	0.03		8.3		SURCHARGED
3.002	FC 01	40	97.792	0.725	0.000	0.04		1.5		SURCHARGED
2.002	Ex. IA01	27	96.179	-0.221	0.000	0.13		5.1		OK
2.003	Ex. AM03	27	96.136	-0.223	0.000	0.10		5.1		OK
2.004	Ex. AM04	27	96.132	-0.216	0.000	0.14		6.1		OK
2.005	Ex. AM02	27	96.093	-0.206	0.000	0.21		6.5		OK
2.006	Ex. M162/0210	27	96.049	-0.221	0.000	0.15		6.8		OK
2.007	Ex. M162/0205	27	95.988	-0.224	0.000	0.15		6.8		OK
2.008	Ex. M162/0206	27	95.968	-0.224	0.000	0.14		6.7		OK
1.005	Ex. Pump Sump	27	95.862	-0.199	0.000	0.25		21.4		OK

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Summary Wizard of 180 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	35	96.827	-0.223	0.000	0.14		8.8	OK

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Summary Wizard of 180 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	36	96.771	-0.159	0.000	0.44		13.2	OK
1.002	Ex. IA07	34	96.740	-0.170	0.000	0.29		15.7	OK
1.003	Tank	34	96.726	-0.103	0.000	0.20	27	14.0	OK
1.004	Ex. M16/0237	34	96.533	-0.202	0.000	0.23		14.0	OK
2.000	Ex. DW2	99	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	33	96.197	-0.243	0.000	0.05		1.9	OK
3.000	SIC 01 (connection to RWHT)	41	97.751	0.101	0.000	0.28		7.8	SURCHARGED
3.001	MH01	41	97.750	0.125	0.000	0.02		6.7	SURCHARGED
3.002	FC 01	41	97.750	0.683	0.000	0.04		1.5	SURCHARGED
2.002	Ex. IA01	33	96.172	-0.228	0.000	0.11		4.3	OK
2.003	Ex. AM03	33	96.129	-0.230	0.000	0.08		4.3	OK
2.004	Ex. AM04	33	96.125	-0.223	0.000	0.12		5.1	OK
2.005	Ex. AM02	33	96.085	-0.214	0.000	0.17		5.4	OK
2.006	Ex. M162/0210	33	96.042	-0.228	0.000	0.13		5.7	OK
2.007	Ex. M162/0205	33	95.981	-0.231	0.000	0.12		5.7	OK
2.008	Ex. M162/0206	33	95.960	-0.231	0.000	0.12		5.7	OK
1.005	Ex. Pump Sump	34	95.857	-0.204	0.000	0.23		19.5	OK

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Summary Wizard of 240 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	44	96.817	-0.233	0.000	0.11		7.2	OK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 240 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.001	Ex. IA06	43	96.755	-0.175	0.000	0.36		10.8	OK
1.002	Ex. IA07	42	96.716	-0.194	0.000	0.24		13.0	OK
1.003	Tank	40	96.696	-0.133	0.000	0.17	32	12.0	OK
1.004	Ex. M16/0237	40	96.526	-0.209	0.000	0.20		11.9	OK
2.000	Ex. DW2	111	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	42	96.191	-0.249	0.000	0.04		1.6	OK
3.000	SIC 01 (connection to RWHT)	44	97.676	0.026	0.000	0.23		6.3	SURCHARGED
3.001	MH01	44	97.675	0.050	0.000	0.02		5.5	SURCHARGED
3.002	FC 01	44	97.675	0.608	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	42	96.167	-0.233	0.000	0.10		3.8	OK
2.003	Ex. AM03	41	96.123	-0.236	0.000	0.07		3.8	OK
2.004	Ex. AM04	41	96.119	-0.229	0.000	0.10		4.4	OK
2.005	Ex. AM02	41	96.079	-0.221	0.000	0.15		4.7	OK
2.006	Ex. M162/0210	41	96.037	-0.233	0.000	0.11		4.9	OK
2.007	Ex. M162/0205	41	95.976	-0.235	0.000	0.11		4.9	OK
2.008	Ex. M162/0206	41	95.956	-0.235	0.000	0.10		4.9	OK
1.005	Ex. Pump Sump	40	95.850	-0.211	0.000	0.20		16.8	OK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryanan - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 360 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	55	96.807	-0.243	0.000	0.08		5.2	OK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 360 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	55	96.734	-0.196	0.000	0.26		7.9	OK
1.002	Ex. IA07	55	96.695	-0.215	0.000	0.18		9.6	OK
1.003	Tank	52	96.659	-0.170	0.000	0.13	60	9.3	OK
1.004	Ex. M16/0237	52	96.515	-0.221	0.000	0.15		9.2	OK
2.000	Ex. DW2	122	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	55	96.183	-0.257	0.000	0.03		1.1	OK
3.000	SIC 01 (connection to RWHT)	53	97.557	-0.093	0.000	0.17		4.6	OK
3.001	MH01	52	97.556	-0.069	0.000	0.01		4.1	OK
3.002	FC 01	52	97.556	0.489	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	54	96.162	-0.238	0.000	0.08		3.1	OK
2.003	Ex. AM03	54	96.117	-0.242	0.000	0.06		3.1	OK
2.004	Ex. AM04	54	96.112	-0.236	0.000	0.08		3.6	OK
2.005	Ex. AM02	53	96.071	-0.228	0.000	0.12		3.8	OK
2.006	Ex. M162/0210	53	96.031	-0.239	0.000	0.09		4.0	OK
2.007	Ex. M162/0205	53	95.970	-0.241	0.000	0.09		4.0	OK
2.008	Ex. M162/0206	53	95.950	-0.242	0.000	0.08		4.0	OK
1.005	Ex. Pump Sump	52	95.840	-0.221	0.000	0.15		13.1	OK

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Summary Wizard of 480 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	65	96.799	-0.251	0.000	0.06		4.1	OK

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Summary Wizard of 480 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow Cap.				
1.001	Ex. IA06	65	96.722	-0.208	0.000	0.21		6.2	OK	
1.002	Ex. IA07	65	96.684	-0.226	0.000	0.14		7.5	OK	
1.003	Tank	64	96.641	-0.188	0.000	0.10	80	7.4	OK	
1.004	Ex. M16/0237	64	96.506	-0.230	0.000	0.12		7.4	OK	
2.000	Ex. DW2	150	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	64	96.179	-0.261	0.000	0.02		0.9	OK	
3.000	SIC 01 (connection to RWHT)	73	97.479	-0.171	0.000	0.13		3.6	OK	
3.001	MH01	58	97.460	-0.164	0.000	0.01		3.2	OK	
3.002	FC 01	58	97.460	0.393	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	63	96.158	-0.242	0.000	0.07		2.8	OK	
2.003	Ex. AM03	62	96.113	-0.246	0.000	0.05		2.8	OK	
2.004	Ex. AM04	62	96.108	-0.240	0.000	0.07		3.2	OK	
2.005	Ex. AM02	62	96.066	-0.233	0.000	0.10		3.3	OK	
2.006	Ex. M162/0210	62	96.026	-0.244	0.000	0.08		3.4	OK	
2.007	Ex. M162/0205	62	95.965	-0.246	0.000	0.07		3.5	OK	
2.008	Ex. M162/0206	64	95.945	-0.247	0.000	0.07		3.5	OK	
1.005	Ex. Pump Sump	64	95.832	-0.229	0.000	0.13		10.8	OK	

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Summary Wizard of 600 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
1.000	Ex. AM08	72	96.794	-0.256	0.000	0.05	3.4	OK

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Summary Wizard of 600 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow Cap.				
1.001	Ex. IA06	72	96.713	-0.217	0.000	0.17		5.2	OK	
1.002	Ex. IA07	71	96.677	-0.232	0.000	0.12		6.2	OK	
1.003	Tank	71	96.629	-0.200	0.000	0.09	100	6.2	OK	
1.004	Ex. M16/0237	71	96.500	-0.236	0.000	0.10		6.2	OK	
2.000	Ex. DW2	123	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	71	96.176	-0.264	0.000	0.02		0.7	OK	
3.000	SIC 01 (connection to RWHT)	76	97.474	-0.176	0.000	0.11		3.0	OK	
3.001	MH01	62	97.362	-0.263	0.000	0.01		2.7	OK	
3.002	FC 01	62	97.362	0.295	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	70	96.155	-0.245	0.000	0.07		2.6	OK	
2.003	Ex. AM03	70	96.110	-0.249	0.000	0.05		2.6	OK	
2.004	Ex. AM04	70	96.105	-0.243	0.000	0.07		2.9	OK	
2.005	Ex. AM02	71	96.063	-0.236	0.000	0.09		3.0	OK	
2.006	Ex. M162/0210	71	96.023	-0.248	0.000	0.07		3.1	OK	
2.007	Ex. M162/0205	71	95.962	-0.250	0.000	0.07		3.1	OK	
2.008	Ex. M162/0206	71	95.942	-0.250	0.000	0.07		3.1	OK	
1.005	Ex. Pump-Sump	71	95.827	-0.234	0.000	0.11		9.3	OK	

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Summary Wizard of 720 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	80	96.791	-0.259	0.000	0.05		2.9	OK

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Summary Wizard of 720 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.001	Ex. IA06	80	96.706	-0.224	0.000	0.15		4.4	OK
1.002	Ex. IA07	80	96.673	-0.237	0.000	0.10		5.3	OK
1.003	Tank	80	96.620	-0.209	0.000	0.07	120	5.3	OK
1.004	Ex. M16/0237	80	96.496	-0.240	0.000	0.09		5.3	OK
2.000	Ex. DW2	143	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	80	96.173	-0.267	0.000	0.02		0.6	OK
3.000	SIC 01 (connection to RWHT)	81	97.471	-0.179	0.000	0.09		2.6	OK
3.001	MH01	72	97.260	-0.365	0.000	0.01		2.3	OK
3.002	FC 01	72	97.260	0.193	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	78	96.153	-0.248	0.000	0.06		2.4	OK
2.003	Ex. AM03	79	96.107	-0.252	0.000	0.05		2.4	OK
2.004	Ex. AM04	79	96.102	-0.246	0.000	0.06		2.7	OK
2.005	Ex. AM02	80	96.061	-0.238	0.000	0.09		2.8	OK
2.006	Ex. M162/0210	80	96.020	-0.250	0.000	0.06		2.9	OK
2.007	Ex. M162/0205	80	95.960	-0.252	0.000	0.06		2.9	OK
2.008	Ex. M162/0206	80	95.939	-0.252	0.000	0.06		2.9	OK
1.005	Ex. Pump Sump	80	95.823	-0.238	0.000	0.10		8.1	OK

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Summary Wizard of 960 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	90	96.786	-0.264	0.000	0.03		2.2	OK	

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Summary Wizard of 960 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	90	96.697	-0.233	0.000	0.11		3.4	OK
1.002	Ex. IA07	90	96.665	-0.245	0.000	0.08		4.1	OK
1.003	Tank	90	96.608	-0.221	0.000	0.06	160	4.1	OK
1.004	Ex. M16/0237	90	96.487	-0.249	0.000	0.07		4.1	OK
2.000	Ex. DW2	144	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	90	96.170	-0.270	0.000	0.01		0.5	OK
3.000	SIC 01 (connection to RWHT)	90	97.464	-0.186	0.000	0.07		2.0	OK
3.001	MH01	83	97.116	-0.509	0.000	0.01		1.9	OK
3.002	FC 01	83	97.116	0.049	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	90	96.150	-0.251	0.000	0.06		2.2	OK
2.003	Ex. AM03	90	96.104	-0.255	0.000	0.04		2.2	OK
2.004	Ex. AM04	90	96.099	-0.249	0.000	0.05		2.4	OK
2.005	Ex. AM02	90	96.057	-0.242	0.000	0.08		2.5	OK
2.006	Ex. M162/0210	90	96.017	-0.253	0.000	0.06		2.5	OK
2.007	Ex. M162/0205	90	95.956	-0.255	0.000	0.05		2.5	OK
2.008	Ex. M162/0206	90	95.936	-0.255	0.000	0.05		2.5	OK
1.005	Ex. Pump Sump	90	95.816	-0.245	0.000	0.08		6.6	OK

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Summary Wizard of 1440 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	103	96.781	-0.269	0.000	0.02		1.6	OK	

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Summary Wizard of 1440 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	103	96.687	-0.243	0.000	0.08		2.4	OK
1.002	Ex. IA07	103	96.654	-0.256	0.000	0.05		2.9	OK
1.003	Tank	103	96.594	-0.235	0.000	0.04	240	2.9	OK
1.004	Ex. M16/0237	103	96.477	-0.258	0.000	0.05		2.9	OK
2.000	Ex. DW2	145	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	103	96.163	-0.277	0.000	0.01		0.3	OK
3.000	SIC 01 (connection to RWHT)	103	97.457	-0.193	0.000	0.05		1.4	OK
3.001	MH01	102	96.969	-0.656	0.000	0.00		1.4	OK
3.002	FC 01	102	96.968	-0.099	0.000	0.04		1.3	OK
2.002	Ex. IA01	102	96.145	-0.255	0.000	0.05		1.8	OK
2.003	Ex. AM03	102	96.099	-0.260	0.000	0.03		1.8	OK
2.004	Ex. AM04	102	96.093	-0.255	0.000	0.05		2.0	OK
2.005	Ex. AM02	102	96.051	-0.248	0.000	0.06		2.0	OK
2.006	Ex. M162/0210	102	96.012	-0.258	0.000	0.05		2.1	OK
2.007	Ex. M162/0205	102	95.952	-0.260	0.000	0.04		2.0	OK
2.008	Ex. M162/0206	102	95.932	-0.260	0.000	0.04		2.0	OK
1.005	Ex. Pump-Sump	102	95.807	-0.254	0.000	0.06		4.9	OK

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Summary Wizard of 2160 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	116	96.775	-0.275	0.000	0.02		1.1	OK

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Summary Wizard of 2160 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	116	96.677	-0.253	0.000	0.06		1.7	OK
1.002	Ex. IA07	116	96.647	-0.262	0.000	0.04		2.1	OK
1.003	Tank	116	96.583	-0.246	0.000	0.03	336	2.0	OK
1.004	Ex. M16/0237	116	96.471	-0.264	0.000	0.03		2.0	OK
2.000	Ex. DW2	146	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	116	96.157	-0.283	0.000	0.01		0.2	OK
3.000	SIC 01 (connection to RWHT)	116	97.452	-0.198	0.000	0.04		1.0	OK
3.001	MH01	116	96.915	-0.710	0.000	0.00		1.0	OK
3.002	FC 01	116	96.910	-0.157	0.000	0.03		1.0	OK
2.002	Ex. IA01	116	96.139	-0.261	0.000	0.03		1.4	OK
2.003	Ex. AM03	116	96.093	-0.266	0.000	0.03		1.4	OK
2.004	Ex. AM04	116	96.087	-0.261	0.000	0.03		1.5	OK
2.005	Ex. AM02	116	96.044	-0.255	0.000	0.05		1.5	OK
2.006	Ex. M162/0210	116	96.007	-0.264	0.000	0.03		1.5	OK
2.007	Ex. M162/0205	116	95.947	-0.265	0.000	0.03		1.5	OK
2.008	Ex. M162/0206	116	95.927	-0.265	0.000	0.03		1.5	OK
1.005	Ex. Pump-Sump	116	95.800	-0.261	0.000	0.04		3.6	OK

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Summary Wizard of 2880 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	124	96.769	-0.281	0.000	0.01	0.9	OK	

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Summary Wizard of 2880 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	124	96.672	-0.258	0.000	0.04		1.3	OK
1.002	Ex. IA07	124	96.644	-0.266	0.000	0.03		1.6	OK
1.003	Tank	124	96.576	-0.253	0.000	0.02	456	1.6	OK
1.004	Ex. M16/0237	124	96.468	-0.267	0.000	0.03		1.6	OK
2.000	Ex. DW2	147	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	124	96.153	-0.287	0.000	0.01		0.2	OK
3.000	SIC 01 (connection to RWHT)	124	97.450	-0.200	0.000	0.03		0.8	OK
3.001	MH01	124	96.902	-0.723	0.000	0.00		0.8	OK
3.002	FC 01	124	96.895	-0.172	0.000	0.02		0.8	OK
2.002	Ex. IA01	124	96.135	-0.265	0.000	0.03		1.1	OK
2.003	Ex. AM03	124	96.090	-0.269	0.000	0.02		1.1	OK
2.004	Ex. AM04	124	96.083	-0.265	0.000	0.03		1.1	OK
2.005	Ex. AM02	124	96.039	-0.260	0.000	0.04		1.2	OK
2.006	Ex. M162/0210	124	96.003	-0.267	0.000	0.03		1.2	OK
2.007	Ex. M162/0205	125	95.944	-0.268	0.000	0.03		1.2	OK
2.008	Ex. M162/0206	124	95.924	-0.268	0.000	0.03		1.2	OK
1.005	Ex. Pump-Sump	125	95.796	-0.265	0.000	0.03		2.8	OK

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Summary Wizard of 4320 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	137	96.764	-0.286	0.000	0.01		0.6	OK

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Summary Wizard of 4320 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	137	96.666	-0.264	0.000	0.03		0.9	OK
1.002	Ex. IA07	137	96.640	-0.270	0.000	0.02		1.1	OK
1.003	Tank	137	96.569	-0.260	0.000	0.02	648	1.1	OK
1.004	Ex. M16/0237	137	96.463	-0.273	0.000	0.02		1.1	OK
2.000	Ex. DW2	148	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	137	96.149	-0.291	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	137	97.446	-0.204	0.000	0.02		0.5	OK
3.001	MH01	137	96.892	-0.733	0.000	0.00		0.5	OK
3.002	FC 01	137	96.883	-0.184	0.000	0.02		0.5	OK
2.002	Ex. IA01	137	96.131	-0.269	0.000	0.02		0.8	OK
2.003	Ex. AM03	137	96.084	-0.275	0.000	0.01		0.8	OK
2.004	Ex. AM04	137	96.078	-0.270	0.000	0.02		0.8	OK
2.005	Ex. AM02	137	96.033	-0.266	0.000	0.03		0.8	OK
2.006	Ex. M162/0210	137	95.998	-0.272	0.000	0.02		0.9	OK
2.007	Ex. M162/0205	137	95.938	-0.274	0.000	0.02		0.9	OK
2.008	Ex. M162/0206	137	95.918	-0.274	0.000	0.02		0.9	OK
1.005	Ex. Pump-Sump	137	95.792	-0.269	0.000	0.02		2.0	OK

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Summary Wizard of 5760 minute 50 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	142	96.761	-0.289	0.000	0.01		0.5	OK

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Summary Wizard of 5760 minute 50 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	142	96.663	-0.267	0.000	0.02		0.7	OK
1.002	Ex. IA07	142	96.634	-0.276	0.000	0.02		0.9	OK
1.003	Tank	142	96.564	-0.265	0.000	0.01	840	0.9	OK
1.004	Ex. M16/0237	142	96.457	-0.279	0.000	0.02		0.9	OK
2.000	Ex. DW2	149	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	142	96.147	-0.293	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	142	97.442	-0.208	0.000	0.02		0.4	OK
3.001	MH01	142	96.887	-0.738	0.000	0.00		0.4	OK
3.002	FC 01	142	96.878	-0.189	0.000	0.01		0.4	OK
2.002	Ex. IA01	142	96.126	-0.275	0.000	0.02		0.6	OK
2.003	Ex. AM03	142	96.079	-0.280	0.000	0.01		0.6	OK
2.004	Ex. AM04	142	96.074	-0.274	0.000	0.01		0.6	OK
2.005	Ex. AM02	142	96.030	-0.269	0.000	0.02		0.7	OK
2.006	Ex. M162/0210	142	95.993	-0.278	0.000	0.02		0.7	OK
2.007	Ex. M162/0205	142	95.932	-0.279	0.000	0.01		0.7	OK
2.008	Ex. M162/0206	142	95.912	-0.279	0.000	0.01		0.7	OK
1.005	Ex. Pump-Sump	142	95.787	-0.274	0.000	0.02		1.6	OK

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Summary Wizard of 15 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	10	97.024	-0.026	0.000	0.46		29.6	OK	

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Summary Wizard of 15 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)			
1.001	Ex. IA06	10	97.012	0.082	0.000	1.52	45.3	SURCHARGED	
1.002	Ex. IA07	10	97.002	0.092	0.000	1.00	53.4	SURCHARGED	
1.003	Tank	10	96.991	0.162	0.000	0.21	14	15.0 SURCHARGED	
1.004	Ex. M16/0237	8	96.537	-0.199	0.000	0.25	15.0	OK	
2.000	Ex. DW2	5	96.246	-0.294	0.000	0.00	0.0	OK	
2.001	Ex. AM11	4	96.252	-0.188	0.000	0.19	7.3	OK	
3.000	SIC 01 (connection to RWHT)	46	97.636	-0.014	0.000	0.96	26.8	OK	
3.001	MH01	46	97.635	-0.010	0.000	0.07	22.3	SURCHARGED	
3.002	FC 01	46	97.635	0.568	0.000	0.04	1.4	SURCHARGED	
2.002	Ex. IA01	5	96.227	-0.173	0.000	0.31	12.2	OK	
2.003	Ex. AM03	5	96.185	-0.174	0.000	0.23	11.8	OK	
2.004	Ex. AM04	5	96.182	-0.166	0.000	0.32	13.9	OK	
2.005	Ex. AM02	5	96.142	-0.158	0.000	0.46	14.5	OK	
2.006	Ex. M162/0210	5	96.090	-0.180	0.000	0.33	14.7	OK	
2.007	Ex. M162/0205	6	96.026	-0.185	0.000	0.31	14.4	OK	
2.008	Ex. M162/0206	6	96.005	-0.186	0.000	0.31	14.4	OK	
1.005	Ex. Pump Sump	6	95.882	-0.179	0.000	0.34	29.4	OK	

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Summary Wizard of 30 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	9	97.193	0.143	0.000	0.41		26.6	SURCHARGED

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Summary Wizard of 30 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	9	97.183	0.253	0.000	1.36		40.8	SURCHARGED	
1.002	Ex. IA07	9	97.175	0.265	0.000	0.85		45.7	SURCHARGED	
1.003	Tank	9	97.167	0.338	0.000	0.21	18	15.0	SURCHARGED	
1.004	Ex. M16/0237	9	96.537	-0.199	0.000	0.25		15.0	OK	
2.000	Ex. DW2	7	96.241	-0.299	0.000	0.00		0.0	OK	
2.001	Ex. AM11	9	96.243	-0.197	0.000	0.16		6.2	OK	
3.000	SIC 01 (connection to RWHT)	31	97.971	0.321	0.000	0.86		23.9	SURCHARGED	
3.001	MH01	31	97.970	0.345	0.000	0.07		20.2	SURCHARGED	
3.002	FC 01	31	97.970	0.903	0.000	0.05		1.6	SURCHARGED	
2.002	Ex. IA01	8	96.219	-0.181	0.000	0.28		10.8	OK	
2.003	Ex. AM03	8	96.177	-0.182	0.000	0.20		10.5	OK	
2.004	Ex. AM04	8	96.173	-0.175	0.000	0.29		12.7	OK	
2.005	Ex. AM02	7	96.134	-0.165	0.000	0.42		13.2	OK	
2.006	Ex. M162/0210	7	96.084	-0.186	0.000	0.30		13.5	OK	
2.007	Ex. M162/0205	7	96.021	-0.191	0.000	0.29		13.4	OK	
2.008	Ex. M162/0206	7	96.001	-0.191	0.000	0.29		13.3	OK	
1.005	Ex. Pump Sump	7	95.880	-0.181	0.000	0.33		28.2	OK	

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Summary Wizard of 60 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	15	96.974	-0.076	0.000	0.29	18.4	OK		

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Summary Wizard of 60 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	15	96.961	0.031	0.000	0.89		26.5	SURCHARGED	
1.002	Ex. IA07	15	96.951	0.041	0.000	0.57		30.8	SURCHARGED	
1.003	Tank	15	96.941	0.112	0.000	0.21	18	15.0	SURCHARGED	
1.004	Ex. M16/0237	15	96.537	-0.199	0.000	0.25		15.0	OK	
2.000	Ex. DW2	151	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	14	96.227	-0.213	0.000	0.11		4.3	OK	
3.000	SIC 01 (connection to RWHT)	26	98.122	0.472	0.000	0.61		16.9	SURCHARGED	
3.001	MH01	26	98.120	0.495	0.000	0.05		14.1	SURCHARGED	
3.002	FC 01	26	98.121	1.054	0.000	0.05		1.7	SURCHARGED	
2.002	Ex. IA01	14	96.202	-0.198	0.000	0.20		7.9	OK	
2.003	Ex. AM03	14	96.159	-0.200	0.000	0.15		7.9	OK	
2.004	Ex. AM04	14	96.156	-0.192	0.000	0.22		9.6	OK	
2.005	Ex. AM02	14	96.117	-0.182	0.000	0.32		10.1	OK	
2.006	Ex. M162/0210	14	96.070	-0.200	0.000	0.24		10.5	OK	
2.007	Ex. M162/0205	14	96.008	-0.203	0.000	0.23		10.6	OK	
2.008	Ex. M162/0206	14	95.987	-0.204	0.000	0.23		10.6	OK	
1.005	Ex. Pump Sump	14	95.872	-0.189	0.000	0.30		25.5	OK	

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Summary Wizard of 120 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	22	96.880	-0.170	0.000	0.20	12.9	OK	

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Summary Wizard of 120 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
1.001	Ex. IA06	22	96.868	-0.062	0.000	0.61			18.3	OK
1.002	Ex. IA07	22	96.858	-0.052	0.000	0.40			21.6	OK
1.003	Tank	22	96.848	0.019	0.000	0.21		24	15.0	SURCHARGED
1.004	Ex. M16/0237	22	96.537	-0.199	0.000	0.25			15.0	OK
2.000	Ex. DW2	159	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	23	96.209	-0.231	0.000	0.08			2.9	OK
3.000	SIC 01 (connection to RWHT)	20	98.245	0.595	0.000	0.41			11.5	SURCHARGED
3.001	MH01	20	98.244	0.619	0.000	0.03			9.5	SURCHARGED
3.002	FC 01	20	98.244	1.177	0.000	0.05			1.8	SURCHARGED
2.002	Ex. IA01	23	96.186	-0.215	0.000	0.15			5.8	OK
2.003	Ex. AM03	23	96.143	-0.216	0.000	0.11			5.8	OK
2.004	Ex. AM04	23	96.139	-0.209	0.000	0.16			6.9	OK
2.005	Ex. AM02	23	96.100	-0.200	0.000	0.23			7.4	OK
2.006	Ex. M162/0210	23	96.055	-0.215	0.000	0.17			7.7	OK
2.007	Ex. M162/0205	23	95.994	-0.218	0.000	0.17			7.7	OK
2.008	Ex. M162/0206	22	95.973	-0.218	0.000	0.16			7.7	OK
1.005	Ex. Pump Sump	22	95.865	-0.196	0.000	0.26			22.6	OK

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Summary Wizard of 180 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	30	96.839	-0.211	0.000	0.16		10.5	OK	

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Summary Wizard of 180 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
1.001	Ex. IA06	31	96.801	-0.129	0.000	0.52			15.5	OK
1.002	Ex. IA07	27	96.786	-0.124	0.000	0.34			18.4	OK
1.003	Tank	27	96.777	-0.052	0.000	0.21		24	14.7	OK
1.004	Ex. M16/0237	27	96.536	-0.200	0.000	0.25			14.7	OK
2.000	Ex. DW2	152	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	28	96.202	-0.238	0.000	0.06			2.3	OK
3.000	SIC 01 (connection to RWHT)	21	98.232	0.582	0.000	0.33			9.3	SURCHARGED
3.001	MH01	21	98.230	0.605	0.000	0.03			7.8	SURCHARGED
3.002	FC 01	21	98.231	1.164	0.000	0.05			1.8	SURCHARGED
2.002	Ex. IA01	30	96.177	-0.223	0.000	0.12			4.8	OK
2.003	Ex. AM03	30	96.134	-0.225	0.000	0.09			4.8	OK
2.004	Ex. AM04	30	96.130	-0.218	0.000	0.13			5.7	OK
2.005	Ex. AM02	30	96.091	-0.208	0.000	0.19			6.1	OK
2.006	Ex. M162/0210	30	96.047	-0.224	0.000	0.14			6.4	OK
2.007	Ex. M162/0205	30	95.985	-0.226	0.000	0.14			6.4	OK
2.008	Ex. M162/0206	30	95.965	-0.226	0.000	0.14			6.4	OK
1.005	Ex. Pump Sump	30	95.861	-0.200	0.000	0.25			21.0	OK

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Summary Wizard of 240 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	37	96.826	-0.224	0.000	0.13		8.6	OK

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Summary Wizard of 240 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	35	96.771	-0.159	0.000	0.43		12.9	OK
1.002	Ex. IA07	33	96.741	-0.169	0.000	0.29		15.5	OK
1.003	Tank	33	96.729	-0.100	0.000	0.20	28	14.1	OK
1.004	Ex. M16/0237	33	96.534	-0.202	0.000	0.23		14.0	OK
2.000	Ex. DW2	153	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	35	96.196	-0.244	0.000	0.05		1.9	OK
3.000	SIC 01 (connection to RWHT)	25	98.156	0.506	0.000	0.27		7.6	SURCHARGED
3.001	MH01	25	98.154	0.529	0.000	0.02		6.4	SURCHARGED
3.002	FC 01	25	98.155	1.088	0.000	0.05		1.7	SURCHARGED
2.002	Ex. IA01	36	96.171	-0.229	0.000	0.11		4.2	OK
2.003	Ex. AM03	35	96.128	-0.231	0.000	0.08		4.2	OK
2.004	Ex. AM04	35	96.124	-0.224	0.000	0.11		5.0	OK
2.005	Ex. AM02	35	96.084	-0.215	0.000	0.17		5.3	OK
2.006	Ex. M162/0210	35	96.041	-0.229	0.000	0.12		5.5	OK
2.007	Ex. M162/0205	35	95.980	-0.232	0.000	0.12		5.5	OK
2.008	Ex. M162/0206	35	95.960	-0.232	0.000	0.12		5.5	OK
1.005	Ex. Pump Sump	33	95.858	-0.203	0.000	0.23		19.5	OK

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Summary Wizard of 360 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	48	96.813	-0.237	0.000	0.10		6.3	OK	

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Summary Wizard of 360 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow Cap.				
1.001	Ex. IA06	48	96.746	-0.184	0.000	0.32		9.6	OK	
1.002	Ex. IA07	47	96.707	-0.203	0.000	0.22		11.6	OK	
1.003	Tank	43	96.682	-0.147	0.000	0.16	54	11.0	OK	
1.004	Ex. M16/0237	43	96.522	-0.213	0.000	0.18		11.0	OK	
2.000	Ex. DW2	154	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	48	96.187	-0.253	0.000	0.04		1.4	OK	
3.000	SIC 01 (connection to RWHT)	32	97.958	0.308	0.000	0.20		5.6	SURCHARGED	
3.001	MH01	32	97.957	0.332	0.000	0.02		4.8	SURCHARGED	
3.002	FC 01	32	97.957	0.890	0.000	0.05		1.6	SURCHARGED	
2.002	Ex. IA01	50	96.164	-0.236	0.000	0.09		3.4	OK	
2.003	Ex. AM03	49	96.120	-0.239	0.000	0.06		3.4	OK	
2.004	Ex. AM04	49	96.115	-0.233	0.000	0.09		4.0	OK	
2.005	Ex. AM02	48	96.075	-0.224	0.000	0.13		4.2	OK	
2.006	Ex. M162/0210	48	96.034	-0.236	0.000	0.10		4.4	OK	
2.007	Ex. M162/0205	48	95.973	-0.238	0.000	0.09		4.4	OK	
2.008	Ex. M162/0206	48	95.953	-0.238	0.000	0.09		4.4	OK	
1.005	Ex. Pump Sump	44	95.846	-0.215	0.000	0.18		15.4	OK	

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Summary Wizard of 480 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	57	96.805	-0.245	0.000	0.08		5.0	OK	

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Summary Wizard of 480 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow Cap.	Volume (m ³)	Flow (l/s)			
1.001	Ex. IA06	57	96.732	-0.198	0.000	0.25				7.6	OK
1.002	Ex. IA07	57	96.693	-0.217	0.000	0.17				9.2	OK
1.003	Tank	55	96.656	-0.173	0.000	0.13			72	9.0	OK
1.004	Ex. M16/0237	55	96.513	-0.222	0.000	0.15				9.0	OK
2.000	Ex. DW2	155	96.240	-0.300	0.000	0.00				0.0	OK
2.001	Ex. AM11	57	96.182	-0.258	0.000	0.03				1.1	OK
3.000	SIC 01 (connection to RWHT)	42	97.736	0.086	0.000	0.16				4.4	SURCHARGED
3.001	MH01	42	97.735	0.110	0.000	0.01				3.9	SURCHARGED
3.002	FC 01	42	97.735	0.668	0.000	0.04				1.5	SURCHARGED
2.002	Ex. IA01	58	96.161	-0.240	0.000	0.08				3.0	OK
2.003	Ex. AM03	57	96.115	-0.244	0.000	0.06				3.0	OK
2.004	Ex. AM04	57	96.111	-0.237	0.000	0.08				3.4	OK
2.005	Ex. AM02	57	96.070	-0.229	0.000	0.11				3.6	OK
2.006	Ex. M162/0210	56	96.030	-0.240	0.000	0.08				3.8	OK
2.007	Ex. M162/0205	56	95.969	-0.243	0.000	0.08				3.8	OK
2.008	Ex. M162/0206	56	95.948	-0.243	0.000	0.08				3.8	OK
1.005	Ex. Pump Sump	56	95.838	-0.223	0.000	0.15				12.8	OK

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Summary Wizard of 600 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	64	96.799	-0.251	0.000	0.06		4.1	OK

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Summary Wizard of 600 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)			
1.001	Ex. IA06	64	96.723	-0.207	0.000	0.21		6.3	OK
1.002	Ex. IA07	64	96.685	-0.225	0.000	0.14		7.6	OK
1.003	Tank	62	96.642	-0.187	0.000	0.11	90	7.5	OK
1.004	Ex. M16/0237	62	96.506	-0.229	0.000	0.13		7.5	OK
2.000	Ex. DW2	156	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	65	96.179	-0.261	0.000	0.02		0.9	OK
3.000	SIC 01 (connection to RWHT)	50	97.590	-0.060	0.000	0.13		3.6	OK
3.001	MH01	50	97.589	-0.036	0.000	0.01		3.3	OK
3.002	FC 01	50	97.589	0.522	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	65	96.157	-0.243	0.000	0.07		2.8	OK
2.003	Ex. AM03	65	96.112	-0.247	0.000	0.05		2.8	OK
2.004	Ex. AM04	65	96.108	-0.240	0.000	0.07		3.1	OK
2.005	Ex. AM02	63	96.066	-0.233	0.000	0.10		3.3	OK
2.006	Ex. M162/0210	64	96.026	-0.244	0.000	0.08		3.4	OK
2.007	Ex. M162/0205	64	95.965	-0.246	0.000	0.07		3.4	OK
2.008	Ex. M162/0206	63	95.945	-0.247	0.000	0.07		3.4	OK
1.005	Ex. Pump Sump	63	95.832	-0.229	0.000	0.13		10.9	OK

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Summary Wizard of 720 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	70	96.795	-0.255	0.000	0.06		3.5	OK

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Summary Wizard of 720 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	70	96.715	-0.215	0.000	0.18		5.4	OK
1.002	Ex. IA07	70	96.679	-0.231	0.000	0.12		6.5	OK
1.003	Tank	70	96.631	-0.198	0.000	0.09	120	6.5	OK
1.004	Ex. M16/0237	70	96.501	-0.234	0.000	0.11		6.5	OK
2.000	Ex. DW2	157	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	70	96.176	-0.264	0.000	0.02		0.8	OK
3.000	SIC 01 (connection to RWHT)	66	97.494	-0.156	0.000	0.11		3.1	OK
3.001	MH01	55	97.493	-0.132	0.000	0.01		2.8	OK
3.002	FC 01	55	97.493	0.426	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	69	96.155	-0.245	0.000	0.07		2.6	OK
2.003	Ex. AM03	69	96.110	-0.249	0.000	0.05		2.6	OK
2.004	Ex. AM04	69	96.105	-0.243	0.000	0.07		2.9	OK
2.005	Ex. AM02	69	96.064	-0.235	0.000	0.09		3.0	OK
2.006	Ex. M162/0210	69	96.023	-0.247	0.000	0.07		3.1	OK
2.007	Ex. M162/0205	69	95.963	-0.249	0.000	0.07		3.1	OK
2.008	Ex. M162/0206	69	95.942	-0.249	0.000	0.07		3.1	OK
1.005	Ex. Pump Sump	70	95.827	-0.234	0.000	0.11		9.6	OK

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Summary Wizard of 960 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	82	96.790	-0.260	0.000	0.04	2.7	OK	

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Summary Wizard of 960 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow Cap.				
1.001	Ex. IA06	82	96.704	-0.226	0.000	0.14		4.2	OK	
1.002	Ex. IA07	82	96.671	-0.238	0.000	0.09		5.0	OK	
1.003	Tank	81	96.617	-0.212	0.000	0.07	160	5.0	OK	
1.004	Ex. M16/0237	81	96.494	-0.242	0.000	0.08		5.0	OK	
2.000	Ex. DW2	158	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	82	96.173	-0.267	0.000	0.02		0.6	OK	
3.000	SIC 01 (connection to RWHT)	83	97.469	-0.181	0.000	0.09		2.4	OK	
3.001	MH01	69	97.301	-0.324	0.000	0.01		2.2	OK	
3.002	FC 01	69	97.301	0.234	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	81	96.152	-0.248	0.000	0.06		2.3	OK	
2.003	Ex. AM03	81	96.106	-0.253	0.000	0.04		2.3	OK	
2.004	Ex. AM04	81	96.102	-0.246	0.000	0.06		2.6	OK	
2.005	Ex. AM02	81	96.060	-0.239	0.000	0.08		2.7	OK	
2.006	Ex. M162/0210	81	96.019	-0.251	0.000	0.06		2.8	OK	
2.007	Ex. M162/0205	81	95.959	-0.253	0.000	0.06		2.8	OK	
2.008	Ex. M162/0206	81	95.939	-0.253	0.000	0.06		2.8	OK	
1.005	Ex. Pump Sump	81	95.822	-0.239	0.000	0.09		7.8	OK	

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Summary Wizard of 1440 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	96	96.784	-0.266	0.000	0.03		1.9	OK

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Summary Wizard of 1440 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	96	96.693	-0.237	0.000	0.10		2.9	OK
1.002	Ex. IA07	96	96.659	-0.250	0.000	0.07		3.5	OK
1.003	Tank	96	96.601	-0.228	0.000	0.05	240	3.5	OK
1.004	Ex. M16/0237	96	96.482	-0.253	0.000	0.06		3.5	OK
2.000	Ex. DW2	142	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	96	96.168	-0.272	0.000	0.01		0.4	OK
3.000	SIC 01 (connection to RWHT)	96	97.461	-0.189	0.000	0.06		1.7	OK
3.001	MH01	92	97.058	-0.567	0.000	0.01		1.6	OK
3.002	FC 01	92	97.058	-0.009	0.000	0.04		1.4	OK
2.002	Ex. IA01	95	96.148	-0.252	0.000	0.05		2.0	OK
2.003	Ex. AM03	95	96.102	-0.257	0.000	0.04		2.0	OK
2.004	Ex. AM04	95	96.097	-0.251	0.000	0.05		2.2	OK
2.005	Ex. AM02	95	96.055	-0.244	0.000	0.07		2.3	OK
2.006	Ex. M162/0210	95	96.015	-0.255	0.000	0.05		2.3	OK
2.007	Ex. M162/0205	95	95.955	-0.257	0.000	0.05		2.3	OK
2.008	Ex. M162/0206	95	95.935	-0.257	0.000	0.05		2.3	OK
1.005	Ex. Pump-Sump	96	95.812	-0.249	0.000	0.07		5.8	OK

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Summary Wizard of 2160 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	107	96.780	-0.270	0.000	0.02		1.4	OK

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Summary Wizard of 2160 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	107	96.682	-0.248	0.000	0.07		2.1	OK
1.002	Ex. IA07	107	96.651	-0.259	0.000	0.05		2.5	OK
1.003	Tank	107	96.589	-0.240	0.000	0.04	336	2.5	OK
1.004	Ex. M16/0237	107	96.475	-0.261	0.000	0.04		2.5	OK
2.000	Ex. DW2	141	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	107	96.160	-0.280	0.000	0.01		0.3	OK
3.000	SIC 01 (connection to RWHT)	107	97.455	-0.195	0.000	0.04		1.2	OK
3.001	MH01	107	96.934	-0.691	0.000	0.00		1.2	OK
3.002	FC 01	107	96.930	-0.137	0.000	0.03		1.2	OK
2.002	Ex. IA01	107	96.143	-0.258	0.000	0.04		1.6	OK
2.003	Ex. AM03	107	96.097	-0.262	0.000	0.03		1.6	OK
2.004	Ex. AM04	107	96.091	-0.257	0.000	0.04		1.7	OK
2.005	Ex. AM02	107	96.048	-0.251	0.000	0.06		1.8	OK
2.006	Ex. M162/0210	107	96.010	-0.260	0.000	0.04		1.8	OK
2.007	Ex. M162/0205	107	95.950	-0.262	0.000	0.04		1.8	OK
2.008	Ex. M162/0206	107	95.930	-0.262	0.000	0.04		1.8	OK
1.005	Ex. Pump-Sump	107	95.804	-0.257	0.000	0.05		4.3	OK

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Summary Wizard of 2880 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	117	96.773	-0.277	0.000	0.02		1.1	OK

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Summary Wizard of 2880 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	117	96.676	-0.254	0.000	0.05		1.6	OK
1.002	Ex. IA07	117	96.646	-0.263	0.000	0.04		1.9	OK
1.003	Tank	117	96.581	-0.248	0.000	0.03	432	1.9	OK
1.004	Ex. M16/0237	117	96.470	-0.265	0.000	0.03		1.9	OK
2.000	Ex. DW2	140	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	117	96.156	-0.284	0.000	0.01		0.2	OK
3.000	SIC 01 (connection to RWHT)	117	97.452	-0.198	0.000	0.03		0.9	OK
3.001	MH01	117	96.911	-0.714	0.000	0.00		0.9	OK
3.002	FC 01	117	96.906	-0.161	0.000	0.03		0.9	OK
2.002	Ex. IA01	117	96.138	-0.262	0.000	0.03		1.3	OK
2.003	Ex. AM03	117	96.092	-0.267	0.000	0.02		1.3	OK
2.004	Ex. AM04	117	96.086	-0.262	0.000	0.03		1.4	OK
2.005	Ex. AM02	117	96.043	-0.257	0.000	0.04		1.4	OK
2.006	Ex. M162/0210	117	96.006	-0.264	0.000	0.03		1.4	OK
2.007	Ex. M162/0205	117	95.946	-0.266	0.000	0.03		1.4	OK
2.008	Ex. M162/0206	117	95.926	-0.266	0.000	0.03		1.4	OK
1.005	Ex. Pump-Sump	117	95.799	-0.262	0.000	0.04		3.4	OK

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Summary Wizard of 4320 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)					
1.000	Ex. AM08	129	96.766	-0.284	0.000	0.01		0.7	OK	

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Summary Wizard of 4320 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	129	96.669	-0.261	0.000	0.04		1.1	OK
1.002	Ex. IA07	129	96.642	-0.268	0.000	0.03		1.3	OK
1.003	Tank	129	96.572	-0.257	0.000	0.02	648	1.3	OK
1.004	Ex. M16/0237	129	96.466	-0.269	0.000	0.02		1.3	OK
2.000	Ex. DW2	139	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	129	96.151	-0.289	0.000	0.00		0.2	OK
3.000	SIC 01 (connection to RWHT)	129	97.448	-0.202	0.000	0.02		0.6	OK
3.001	MH01	129	96.896	-0.729	0.000	0.00		0.6	OK
3.002	FC 01	129	96.888	-0.179	0.000	0.02		0.6	OK
2.002	Ex. IA01	129	96.133	-0.267	0.000	0.02		0.9	OK
2.003	Ex. AM03	129	96.087	-0.272	0.000	0.02		0.9	OK
2.004	Ex. AM04	129	96.080	-0.268	0.000	0.02		1.0	OK
2.005	Ex. AM02	129	96.036	-0.263	0.000	0.03		1.0	OK
2.006	Ex. M162/0210	129	96.001	-0.269	0.000	0.02		1.0	OK
2.007	Ex. M162/0205	129	95.942	-0.270	0.000	0.02		1.0	OK
2.008	Ex. M162/0206	129	95.922	-0.270	0.000	0.02		1.0	OK
1.005	Ex. Pump-Sump	129	95.794	-0.267	0.000	0.03		2.4	OK

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Summary Wizard of 5760 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	138	96.763	-0.287	0.000	0.01		0.6	OK	

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Summary Wizard of 5760 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	138	96.665	-0.265	0.000	0.03		0.9	OK
1.002	Ex. IA07	138	96.638	-0.272	0.000	0.02		1.0	OK
1.003	Tank	138	96.567	-0.262	0.000	0.01	840	1.0	OK
1.004	Ex. M16/0237	138	96.460	-0.275	0.000	0.02		1.0	OK
2.000	Ex. DW2	124	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	138	96.148	-0.292	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	138	97.444	-0.206	0.000	0.02		0.5	OK
3.001	MH01	138	96.890	-0.735	0.000	0.00		0.5	OK
3.002	FC 01	138	96.881	-0.186	0.000	0.01		0.5	OK
2.002	Ex. IA01	138	96.130	-0.271	0.000	0.02		0.7	OK
2.003	Ex. AM03	138	96.083	-0.276	0.000	0.01		0.7	OK
2.004	Ex. AM04	138	96.077	-0.271	0.000	0.02		0.8	OK
2.005	Ex. AM02	138	96.032	-0.267	0.000	0.02		0.8	OK
2.006	Ex. M162/0210	138	95.996	-0.274	0.000	0.02		0.8	OK
2.007	Ex. M162/0205	138	95.936	-0.276	0.000	0.02		0.8	OK
2.008	Ex. M162/0206	138	95.916	-0.276	0.000	0.02		0.8	OK
1.005	Ex. Pump-Sump	138	95.791	-0.270	0.000	0.02		1.8	OK

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Summary Wizard of 15 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	5	97.628	0.578	0.000	0.53	34.0	SURCHARGED	

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Summary Wizard of 15 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	5	97.616	0.686	0.000	1.70	51.0	FLOOD RISK	
1.002	Ex. IA07	5	97.606	0.697	0.000	1.15	61.5	FLOOD RISK	
1.003	Tank	5	97.597	0.768	0.000	0.23	18	16.1 FLOOD RISK	
1.004	Ex. M16/0237	5	96.541	-0.195	0.000	0.27	16.1	OK	
2.000	Ex. DW2	2	96.256	-0.284	0.000	0.00	0.1	OK	
2.001	Ex. AM11	2	96.262	-0.178	0.000	0.22	8.4	OK	
3.000	SIC 01 (connection to RWHT)	33	97.912	0.262	0.000	1.12	31.2	SURCHARGED	
3.001	MH01	33	97.911	0.286	0.000	0.09	26.0	SURCHARGED	
3.002	FC 01	33	97.911	0.844	0.000	0.05	1.6	SURCHARGED	
2.002	Ex. IA01	2	96.237	-0.163	0.000	0.35	13.8	OK	
2.003	Ex. AM03	2	96.196	-0.163	0.000	0.25	13.3	OK	
2.004	Ex. AM04	2	96.193	-0.155	0.000	0.36	15.8	OK	
2.005	Ex. AM02	2	96.153	-0.146	0.000	0.52	16.6	OK	
2.006	Ex. M162/0210	2	96.099	-0.172	0.000	0.37	16.7	OK	
2.007	Ex. M162/0205	2	96.035	-0.177	0.000	0.35	16.4	OK	
2.008	Ex. M162/0206	2	96.014	-0.177	0.000	0.35	16.5	OK	
1.005	Ex. Pump Sump	2	95.888	-0.173	0.000	0.37	31.9	OK	

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Summary Wizard of 30 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40


WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 30 minute 200 year Summer I+40% for Storm


PN	Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (1/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (1/s)	Overflow (1/s)			

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Summary Wizard of 30 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume Flow (m ³)		Time (mins)	Flow (l/s)	
1.000	Ex. AM08	3	97.760	0.710	0.000	0.47		30.5	SURCHARGED
1.001	Ex. IA06	3	97.742	0.812	0.000	1.51		45.1	FLOOD RISK
1.002	Ex. IA07	3	97.729	0.819	0.423	0.98		52.7	FLOOD
1.003	Tank	2	97.729	0.900	0.033	0.24	20	17.0	FLOOD
1.004	Ex. M16/0237	3	96.544	-0.192	0.000	0.28		17.0	OK
2.000	Ex. DW2	4	96.247	-0.293	0.000	0.00		0.0	OK
2.001	Ex. AM11	5	96.252	-0.188	0.000	0.19		7.2	OK
3.000	SIC 01 (connection to RWHT)	17	98.360	0.710	0.000	1.00		27.8	SURCHARGED
3.001	MH01	17	98.358	0.733	0.000	0.08		23.0	SURCHARGED
3.002	FC 01	17	98.358	1.291	0.000	0.05		1.8	SURCHARGED
2.002	Ex. IA01	3	96.228	-0.172	0.000	0.31		12.3	OK
2.003	Ex. AM03	4	96.186	-0.173	0.000	0.23		12.0	OK
2.004	Ex. AM04	4	96.183	-0.165	0.000	0.33		14.4	OK
2.005	Ex. AM02	3	96.145	-0.154	0.000	0.47		15.1	OK
2.006	Ex. M162/0210	3	96.093	-0.178	0.000	0.34		15.3	OK
2.007	Ex. M162/0205	3	96.029	-0.182	0.000	0.33		15.2	OK
2.008	Ex. M162/0206	3	96.009	-0.182	0.000	0.32		15.2	OK
1.005	Ex. Pump-Sump	3	95.887	-0.174	0.000	0.37		31.7	OK

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Summary Wizard of 60 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)			
1.000	Ex. AM08	7	97.495	0.445	0.000	0.33		21.3	SURCHARGED	

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Summary Wizard of 60 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	7	97.484	0.554	0.000	0.98		29.4	SURCHARGED	
1.002	Ex. IA07	7	97.476	0.566	0.000	0.64		34.4	FLOOD RISK	
1.003	Tank	7	97.467	0.638	0.000	0.21	24	15.1	FLOOD RISK	
1.004	Ex. M16/0237	7	96.538	-0.198	0.000	0.25		15.1	OK	
2.000	Ex. DW2	125	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	12	96.234	-0.206	0.000	0.13		5.1	OK	
3.000	SIC 01 (connection to RWHT)	13	98.574	0.924	0.000	0.71		19.8	SURCHARGED	
3.001	MH01	13	98.573	0.948	0.000	0.05		16.2	SURCHARGED	
3.002	FC 01	13	98.573	1.506	0.000	0.06		2.0	SURCHARGED	
2.002	Ex. IA01	12	96.210	-0.190	0.000	0.23		9.0	OK	
2.003	Ex. AM03	12	96.167	-0.192	0.000	0.17		9.1	OK	
2.004	Ex. AM04	12	96.163	-0.185	0.000	0.25		11.0	OK	
2.005	Ex. AM02	11	96.125	-0.174	0.000	0.36		11.5	OK	
2.006	Ex. M162/0210	11	96.078	-0.193	0.000	0.27		12.0	OK	
2.007	Ex. M162/0205	11	96.015	-0.197	0.000	0.26		12.1	OK	
2.008	Ex. M162/0206	11	95.994	-0.198	0.000	0.26		12.1	OK	
1.005	Ex. Pump Sump	11	95.876	-0.185	0.000	0.31		27.0	OK	

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Summary Wizard of 120 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	11	96.989	-0.061	0.000	0.23		15.1	OK	

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Summary Wizard of 120 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)			
1.001	Ex. IA06	11	96.978	0.048	0.000	0.68	20.3	SURCHARGED	
1.002	Ex. IA07	11	96.969	0.059	0.000	0.45	24.1	SURCHARGED	
1.003	Tank	11	96.960	0.131	0.000	0.21	24	15.0 SURCHARGED	
1.004	Ex. M16/0237	10	96.537	-0.199	0.000	0.25	15.0	OK	
2.000	Ex. DW2	126	96.240	-0.300	0.000	0.00	0.0	OK	
2.001	Ex. AM11	20	96.216	-0.224	0.000	0.09	3.4	OK	
3.000	SIC 01 (connection to RWHT)	7	98.805	1.155	0.000	0.46	12.9	SURCHARGED	
3.001	MH01	7	98.803	1.178	0.000	0.04	10.6	SURCHARGED	
3.002	FC 01	7	98.804	1.737	0.000	0.06	2.1	SURCHARGED	
2.002	Ex. IA01	19	96.193	-0.207	0.000	0.17	6.7	OK	
2.003	Ex. AM03	18	96.151	-0.208	0.000	0.13	6.7	OK	
2.004	Ex. AM04	18	96.147	-0.201	0.000	0.19	8.1	OK	
2.005	Ex. AM02	17	96.108	-0.191	0.000	0.27	8.6	OK	
2.006	Ex. M162/0210	18	96.063	-0.207	0.000	0.20	8.9	OK	
2.007	Ex. M162/0205	17	96.001	-0.210	0.000	0.19	8.9	OK	
2.008	Ex. M162/0206	18	95.981	-0.211	0.000	0.19	9.0	OK	
1.005	Ex. Pump Sump	18	95.869	-0.192	0.000	0.28	24.0	OK	

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Summary Wizard of 180 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	19	96.892	-0.158	0.000	0.19		12.5	OK	

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Summary Wizard of 180 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
1.001	Ex. IA06	19	96.882	-0.048	0.000	0.59			17.6	OK	
1.002	Ex. IA07	19	96.873	-0.037	0.000	0.39			20.8	OK	
1.003	Tank	19	96.864	0.035	0.000	0.21		24	15.0	SURCHARGED	
1.004	Ex. M16/0237	19	96.537	-0.199	0.000	0.25			15.0	OK	
2.000	Ex. DW2	127	96.240	-0.300	0.000	0.00			0.0	OK	
2.001	Ex. AM11	25	96.208	-0.232	0.000	0.07			2.8	OK	
3.000	SIC 01 (connection to RWHT)	6	98.841	1.191	0.000	0.38			10.7	SURCHARGED	
3.001	MH01	6	98.840	1.215	0.000	0.03			8.6	SURCHARGED	
3.002	FC 01	6	98.840	1.773	0.000	0.06			2.1	SURCHARGED	
2.002	Ex. IA01	25	96.185	-0.215	0.000	0.14			5.7	OK	
2.003	Ex. AM03	25	96.142	-0.217	0.000	0.11			5.6	OK	
2.004	Ex. AM04	25	96.138	-0.210	0.000	0.16			6.7	OK	
2.005	Ex. AM02	25	96.098	-0.201	0.000	0.23			7.2	OK	
2.006	Ex. M162/0210	25	96.054	-0.217	0.000	0.17			7.6	OK	
2.007	Ex. M162/0205	25	95.992	-0.220	0.000	0.16			7.5	OK	
2.008	Ex. M162/0206	24	95.972	-0.220	0.000	0.16			7.5	OK	
1.005	Ex. Pump Sump	24	95.865	-0.196	0.000	0.26			22.4	OK	

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Summary Wizard of 240 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	29	96.843	-0.207	0.000	0.16		10.3	OK	

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Summary Wizard of 240 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded Volume Flow (m ³ Cap.)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Level (m)					
1.001	Ex. IA06	27	96.813	-0.117	0.000	0.50		15.1	OK	
1.002	Ex. IA07	24	96.800	-0.110	0.000	0.34		18.0	OK	
1.003	Tank	24	96.791	-0.038	0.000	0.21	24	14.8	OK	
1.004	Ex. M16/0237	24	96.536	-0.199	0.000	0.25		14.8	OK	
2.000	Ex. DW2	128	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	29	96.202	-0.238	0.000	0.06		2.3	OK	
3.000	SIC 01 (connection to RWHT)	8	98.779	1.129	0.000	0.32		8.8	SURCHARGED	
3.001	MH01	8	98.778	1.153	0.000	0.02		7.3	SURCHARGED	
3.002	FC 01	8	98.778	1.711	0.000	0.06		2.1	SURCHARGED	
2.002	Ex. IA01	28	96.178	-0.222	0.000	0.13		4.9	OK	
2.003	Ex. AM03	28	96.135	-0.224	0.000	0.09		4.9	OK	
2.004	Ex. AM04	28	96.131	-0.217	0.000	0.13		5.8	OK	
2.005	Ex. AM02	28	96.091	-0.208	0.000	0.19		6.2	OK	
2.006	Ex. M162/0210	28	96.047	-0.223	0.000	0.14		6.5	OK	
2.007	Ex. M162/0205	28	95.986	-0.226	0.000	0.14		6.5	OK	
2.008	Ex. M162/0206	28	95.966	-0.226	0.000	0.14		6.5	OK	
1.005	Ex. Pump Sump	29	95.862	-0.199	0.000	0.25		21.2	OK	

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Summary Wizard of 360 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	42	96.820	-0.230	0.000	0.12		7.7	OK

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Summary Wizard of 360 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	41	96.762	-0.168	0.000	0.39		11.5	OK
1.002	Ex. IA07	38	96.732	-0.178	0.000	0.26		13.9	OK
1.003	Tank	38	96.716	-0.113	0.000	0.19	48	13.1	OK
1.004	Ex. M16/0237	38	96.531	-0.205	0.000	0.22		13.2	OK
2.000	Ex. DW2	129	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	40	96.193	-0.247	0.000	0.04		1.7	OK
3.000	SIC 01 (connection to RWHT)	12	98.578	0.928	0.000	0.24		6.7	SURCHARGED
3.001	MH01	12	98.577	0.952	0.000	0.02		5.6	SURCHARGED
3.002	FC 01	12	98.577	1.510	0.000	0.06		2.0	SURCHARGED
2.002	Ex. IA01	40	96.170	-0.231	0.000	0.10		4.0	OK
2.003	Ex. AM03	39	96.125	-0.234	0.000	0.08		4.0	OK
2.004	Ex. AM04	39	96.121	-0.227	0.000	0.11		4.7	OK
2.005	Ex. AM02	39	96.081	-0.218	0.000	0.15		4.9	OK
2.006	Ex. M162/0210	39	96.039	-0.231	0.000	0.11		5.1	OK
2.007	Ex. M162/0205	39	95.978	-0.234	0.000	0.11		5.1	OK
2.008	Ex. M162/0206	39	95.958	-0.234	0.000	0.11		5.1	OK
1.005	Ex. Pump Sump	38	95.855	-0.206	0.000	0.21		18.3	OK

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Summary Wizard of 480 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	49	96.812	-0.238	0.000	0.09		6.1	OK

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Summary Wizard of 480 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	49	96.744	-0.186	0.000	0.31		9.2	OK
1.002	Ex. IA07	49	96.704	-0.205	0.000	0.21		11.1	OK
1.003	Tank	44	96.679	-0.150	0.000	0.15	64	10.7	OK
1.004	Ex. M16/0237	44	96.521	-0.214	0.000	0.18		10.7	OK
2.000	Ex. DW2	130	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	49	96.186	-0.254	0.000	0.03		1.3	OK
3.000	SIC 01 (connection to RWHT)	18	98.337	0.687	0.000	0.19		5.3	SURCHARGED
3.001	MH01	18	98.336	0.711	0.000	0.02		4.6	SURCHARGED
3.002	FC 01	18	98.336	1.269	0.000	0.05		1.8	SURCHARGED
2.002	Ex. IA01	49	96.164	-0.236	0.000	0.09		3.4	OK
2.003	Ex. AM03	50	96.120	-0.239	0.000	0.06		3.4	OK
2.004	Ex. AM04	50	96.115	-0.233	0.000	0.09		3.9	OK
2.005	Ex. AM02	50	96.074	-0.225	0.000	0.13		4.1	OK
2.006	Ex. M162/0210	50	96.034	-0.237	0.000	0.10		4.3	OK
2.007	Ex. M162/0205	50	95.973	-0.239	0.000	0.09		4.3	OK
2.008	Ex. M162/0206	50	95.953	-0.239	0.000	0.09		4.3	OK
1.005	Ex. Pump Sump	46	95.846	-0.215	0.000	0.18		15.0	OK

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Summary Wizard of 600 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	56	96.805	-0.245	0.000	0.08		5.0	OK

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Summary Wizard of 600 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
1.001	Ex. IA06	56	96.732	-0.198	0.000	0.26			7.6	OK
1.002	Ex. IA07	56	96.693	-0.217	0.000	0.17			9.2	OK
1.003	Tank	54	96.657	-0.172	0.000	0.13		90	9.2	OK
1.004	Ex. M16/0237	54	96.514	-0.222	0.000	0.15			9.2	OK
2.000	Ex. DW2	131	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	56	96.182	-0.258	0.000	0.03			1.1	OK
3.000	SIC 01 (connection to RWHT)	28	98.102	0.452	0.000	0.16			4.4	SURCHARGED
3.001	MH01	28	98.101	0.476	0.000	0.01			3.9	SURCHARGED
3.002	FC 01	28	98.101	1.034	0.000	0.05			1.7	SURCHARGED
2.002	Ex. IA01	57	96.161	-0.239	0.000	0.08			3.0	OK
2.003	Ex. AM03	56	96.115	-0.244	0.000	0.06			3.0	OK
2.004	Ex. AM04	56	96.111	-0.237	0.000	0.08			3.4	OK
2.005	Ex. AM02	56	96.070	-0.229	0.000	0.11			3.6	OK
2.006	Ex. M162/0210	57	96.030	-0.241	0.000	0.08			3.7	OK
2.007	Ex. M162/0205	57	95.969	-0.243	0.000	0.08			3.7	OK
2.008	Ex. M162/0206	57	95.948	-0.243	0.000	0.08			3.7	OK
1.005	Ex. Pump Sump	55	95.838	-0.223	0.000	0.15			12.9	OK

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Summary Wizard of 720 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	62	96.800	-0.250	0.000	0.07		4.3	OK

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Summary Wizard of 720 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)			
1.001	Ex. IA06	62	96.725	-0.205	0.000	0.22		6.5	OK
1.002	Ex. IA07	62	96.686	-0.224	0.000	0.15		7.9	OK
1.003	Tank	60	96.644	-0.185	0.000	0.11	108	7.9	OK
1.004	Ex. M16/0237	60	96.507	-0.228	0.000	0.13		7.9	OK
2.000	Ex. DW2	132	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	62	96.179	-0.261	0.000	0.02		0.9	OK
3.000	SIC 01 (connection to RWHT)	36	97.884	0.234	0.000	0.14		3.8	SURCHARGED
3.001	MH01	36	97.883	0.258	0.000	0.01		3.4	SURCHARGED
3.002	FC 01	36	97.883	0.816	0.000	0.04		1.6	SURCHARGED
2.002	Ex. IA01	66	96.157	-0.243	0.000	0.07		2.7	OK
2.003	Ex. AM03	66	96.112	-0.247	0.000	0.05		2.7	OK
2.004	Ex. AM04	66	96.108	-0.240	0.000	0.07		3.1	OK
2.005	Ex. AM02	64	96.066	-0.233	0.000	0.10		3.3	OK
2.006	Ex. M162/0210	63	96.026	-0.244	0.000	0.08		3.4	OK
2.007	Ex. M162/0205	63	95.965	-0.246	0.000	0.07		3.4	OK
2.008	Ex. M162/0206	62	95.945	-0.247	0.000	0.07		3.4	OK
1.005	Ex. Pump Sump	61	95.833	-0.228	0.000	0.13		11.2	OK

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Summary Wizard of 960 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	73	96.794	-0.256	0.000	0.05		3.3	OK

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Summary Wizard of 960 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	73	96.712	-0.218	0.000	0.17		5.1	OK
1.002	Ex. IA07	73	96.677	-0.233	0.000	0.11		6.1	OK
1.003	Tank	72	96.628	-0.201	0.000	0.09	144	6.1	OK
1.004	Ex. M16/0237	72	96.499	-0.236	0.000	0.10		6.1	OK
2.000	Ex. DW2	133	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	73	96.175	-0.265	0.000	0.02		0.7	OK
3.000	SIC 01 (connection to RWHT)	52	97.566	-0.084	0.000	0.11		2.9	OK
3.001	MH01	51	97.565	-0.060	0.000	0.01		2.7	OK
3.002	FC 01	51	97.565	0.498	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	76	96.154	-0.246	0.000	0.06		2.5	OK
2.003	Ex. AM03	75	96.108	-0.251	0.000	0.05		2.5	OK
2.004	Ex. AM04	74	96.104	-0.244	0.000	0.06		2.8	OK
2.005	Ex. AM02	73	96.062	-0.237	0.000	0.09		2.9	OK
2.006	Ex. M162/0210	72	96.022	-0.248	0.000	0.07		3.0	OK
2.007	Ex. M162/0205	72	95.961	-0.250	0.000	0.06		3.0	OK
2.008	Ex. M162/0206	72	95.941	-0.250	0.000	0.06		3.0	OK
1.005	Ex. Pump Sump	72	95.826	-0.235	0.000	0.11		9.1	OK

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Summary Wizard of 1440 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	89	96.787	-0.263	0.000	0.04		2.3	OK

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Summary Wizard of 1440 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.001	Ex. IA06	89	96.698	-0.232	0.000	0.12		3.5	OK
1.002	Ex. IA07	89	96.666	-0.244	0.000	0.08		4.2	OK
1.003	Tank	89	96.609	-0.220	0.000	0.06	216	4.2	OK
1.004	Ex. M16/0237	89	96.488	-0.248	0.000	0.07		4.2	OK
2.000	Ex. DW2	134	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	89	96.171	-0.269	0.000	0.01		0.5	OK
3.000	SIC 01 (connection to RWHT)	89	97.465	-0.185	0.000	0.07		2.0	OK
3.001	MH01	75	97.215	-0.410	0.000	0.01		1.9	OK
3.002	FC 01	75	97.215	0.148	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	89	96.150	-0.250	0.000	0.06		2.2	OK
2.003	Ex. AM03	89	96.104	-0.255	0.000	0.04		2.2	OK
2.004	Ex. AM04	89	96.099	-0.249	0.000	0.06		2.4	OK
2.005	Ex. AM02	89	96.058	-0.241	0.000	0.08		2.5	OK
2.006	Ex. M162/0210	89	96.017	-0.253	0.000	0.06		2.6	OK
2.007	Ex. M162/0205	89	95.957	-0.255	0.000	0.06		2.6	OK
2.008	Ex. M162/0206	89	95.937	-0.255	0.000	0.05		2.6	OK
1.005	Ex. Pump Sump	89	95.817	-0.244	0.000	0.08		6.8	OK

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Summary Wizard of 2160 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	101	96.782	-0.268	0.000	0.03		1.6	OK	

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Summary Wizard of 2160 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	101	96.688	-0.242	0.000	0.08		2.5	OK
1.002	Ex. IA07	101	96.655	-0.255	0.000	0.06		3.0	OK
1.003	Tank	101	96.595	-0.234	0.000	0.04	336	3.0	OK
1.004	Ex. M16/0237	101	96.478	-0.257	0.000	0.05		3.0	OK
2.000	Ex. DW2	135	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	101	96.164	-0.276	0.000	0.01		0.4	OK
3.000	SIC 01 (connection to RWHT)	101	97.458	-0.192	0.000	0.05		1.4	OK
3.001	MH01	100	96.985	-0.640	0.000	0.00		1.4	OK
3.002	FC 01	100	96.984	-0.083	0.000	0.04		1.3	OK
2.002	Ex. IA01	101	96.146	-0.254	0.000	0.05		1.9	OK
2.003	Ex. AM03	101	96.100	-0.259	0.000	0.04		1.9	OK
2.004	Ex. AM04	101	96.094	-0.254	0.000	0.05		2.0	OK
2.005	Ex. AM02	101	96.052	-0.247	0.000	0.07		2.1	OK
2.006	Ex. M162/0210	101	96.013	-0.257	0.000	0.05		2.1	OK
2.007	Ex. M162/0205	101	95.953	-0.259	0.000	0.05		2.1	OK
2.008	Ex. M162/0206	101	95.932	-0.259	0.000	0.05		2.1	OK
1.005	Ex. Pump-Sump	101	95.808	-0.253	0.000	0.06		5.1	OK

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Summary Wizard of 2880 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	111	96.778	-0.272	0.000	0.02	1.3	OK	

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Summary Wizard of 2880 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	111	96.680	-0.250	0.000	0.06		1.9	OK
1.002	Ex. IA07	111	96.650	-0.260	0.000	0.04		2.3	OK
1.003	Tank	111	96.586	-0.243	0.000	0.03	432	2.3	OK
1.004	Ex. M16/0237	111	96.473	-0.262	0.000	0.04		2.3	OK
2.000	Ex. DW2	136	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	111	96.159	-0.281	0.000	0.01		0.3	OK
3.000	SIC 01 (connection to RWHT)	111	97.454	-0.196	0.000	0.04		1.1	OK
3.001	MH01	111	96.925	-0.700	0.000	0.00		1.1	OK
3.002	FC 01	111	96.921	-0.146	0.000	0.03		1.1	OK
2.002	Ex. IA01	111	96.141	-0.259	0.000	0.04		1.5	OK
2.003	Ex. AM03	111	96.095	-0.264	0.000	0.03		1.5	OK
2.004	Ex. AM04	111	96.089	-0.259	0.000	0.04		1.6	OK
2.005	Ex. AM02	111	96.047	-0.253	0.000	0.05		1.7	OK
2.006	Ex. M162/0210	111	96.009	-0.262	0.000	0.04		1.7	OK
2.007	Ex. M162/0205	111	95.949	-0.263	0.000	0.04		1.7	OK
2.008	Ex. M162/0206	111	95.929	-0.263	0.000	0.04		1.7	OK
1.005	Ex. Pump-Sump	111	95.802	-0.259	0.000	0.05		4.0	OK

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Summary Wizard of 4320 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	125	96.769	-0.281	0.000	0.01		0.9	OK

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Summary Wizard of 4320 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	125	96.672	-0.258	0.000	0.04		1.3	OK
1.002	Ex. IA07	125	96.644	-0.266	0.000	0.03		1.6	OK
1.003	Tank	125	96.576	-0.253	0.000	0.02	648	1.6	OK
1.004	Ex. M16/0237	125	96.468	-0.268	0.000	0.03		1.6	OK
2.000	Ex. DW2	137	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	125	96.153	-0.287	0.000	0.00		0.2	OK
3.000	SIC 01 (connection to RWHT)	125	97.450	-0.200	0.000	0.03		0.8	OK
3.001	MH01	125	96.901	-0.723	0.000	0.00		0.8	OK
3.002	FC 01	125	96.895	-0.172	0.000	0.02		0.8	OK
2.002	Ex. IA01	125	96.135	-0.265	0.000	0.03		1.1	OK
2.003	Ex. AM03	125	96.090	-0.269	0.000	0.02		1.1	OK
2.004	Ex. AM04	126	96.083	-0.265	0.000	0.03		1.1	OK
2.005	Ex. AM02	125	96.039	-0.260	0.000	0.04		1.2	OK
2.006	Ex. M162/0210	125	96.003	-0.267	0.000	0.03		1.2	OK
2.007	Ex. M162/0205	124	95.944	-0.268	0.000	0.03		1.2	OK
2.008	Ex. M162/0206	125	95.924	-0.268	0.000	0.03		1.2	OK
1.005	Ex. Pump-Sump	124	95.796	-0.265	0.000	0.03		2.8	OK

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Summary Wizard of 5760 minute 200 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	133	96.765	-0.285	0.000	0.01		0.7	OK

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Summary Wizard of 5760 minute 200 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	133	96.668	-0.262	0.000	0.03		1.0	OK
1.002	Ex. IA07	133	96.641	-0.269	0.000	0.02		1.2	OK
1.003	Tank	133	96.570	-0.259	0.000	0.02	816	1.2	OK
1.004	Ex. M16/0237	133	96.465	-0.271	0.000	0.02		1.2	OK
2.000	Ex. DW2	83	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	133	96.150	-0.290	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	133	97.447	-0.203	0.000	0.02		0.6	OK
3.001	MH01	133	96.893	-0.732	0.000	0.00		0.6	OK
3.002	FC 01	133	96.885	-0.182	0.000	0.02		0.6	OK
2.002	Ex. IA01	133	96.132	-0.269	0.000	0.02		0.8	OK
2.003	Ex. AM03	133	96.085	-0.274	0.000	0.02		0.8	OK
2.004	Ex. AM04	133	96.079	-0.269	0.000	0.02		0.9	OK
2.005	Ex. AM02	133	96.035	-0.264	0.000	0.03		0.9	OK
2.006	Ex. M162/0210	133	96.000	-0.270	0.000	0.02		0.9	OK
2.007	Ex. M162/0205	133	95.940	-0.272	0.000	0.02		0.9	OK
2.008	Ex. M162/0206	133	95.920	-0.272	0.000	0.02		0.9	OK
1.005	Ex. Pump-Sump	132	95.793	-0.268	0.000	0.03		2.2	OK

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Summary Wizard of 15 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	33	96.829	-0.221	0.000	0.15		9.5	OK

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Summary Wizard of 15 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume Flow (m ³) Cap.				
1.001	Ex. IA06	34	96.771	-0.159	0.000	0.45		13.3	OK
1.002	Ex. IA07	40	96.722	-0.188	0.000	0.30		15.9	OK
1.003	Tank	46	96.674	-0.155	0.000	0.15	10	10.6	OK
1.004	Ex. M16/0237	46	96.520	-0.215	0.000	0.18		10.6	OK
2.000	Ex. DW2	84	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	37	96.194	-0.246	0.000	0.05		1.8	OK
3.000	SIC 01 (connection to RWHT)	59	97.511	-0.139	0.000	0.31		8.6	OK
3.001	MH01	80	97.139	-0.486	0.000	0.02		7.1	OK
3.002	FC 01	80	97.139	0.072	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	38	96.170	-0.230	0.000	0.11		4.1	OK
2.003	Ex. AM03	40	96.125	-0.234	0.000	0.08		4.1	OK
2.004	Ex. AM04	40	96.121	-0.227	0.000	0.11		4.7	OK
2.005	Ex. AM02	40	96.080	-0.219	0.000	0.15		4.9	OK
2.006	Ex. M162/0210	40	96.037	-0.233	0.000	0.11		5.0	OK
2.007	Ex. M162/0205	40	95.977	-0.235	0.000	0.11		5.0	OK
2.008	Ex. M162/0206	40	95.956	-0.235	0.000	0.11		4.9	OK
1.005	Ex. Pump Sump	43	95.847	-0.214	0.000	0.18		15.5	OK

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Summary Wizard of 30 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	43	96.817	-0.233	0.000	0.11		7.3	OK

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Summary Wizard of 30 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.001	Ex. IA06	44	96.753	-0.177	0.000	0.36		10.6	OK
1.002	Ex. IA07	46	96.709	-0.201	0.000	0.24		12.7	OK
1.003	Tank	48	96.667	-0.162	0.000	0.14	13	10.1	OK
1.004	Ex. M16/0237	48	96.518	-0.218	0.000	0.17		10.1	OK
2.000	Ex. DW2	121	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	44	96.189	-0.251	0.000	0.04		1.5	OK
3.000	SIC 01 (connection to RWHT)	64	97.498	-0.152	0.000	0.23		6.5	OK
3.001	MH01	79	97.150	-0.475	0.000	0.02		5.4	OK
3.002	FC 01	79	97.150	0.083	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	45	96.167	-0.234	0.000	0.09		3.7	OK
2.003	Ex. AM03	45	96.122	-0.237	0.000	0.07		3.7	OK
2.004	Ex. AM04	44	96.117	-0.231	0.000	0.10		4.2	OK
2.005	Ex. AM02	44	96.076	-0.223	0.000	0.14		4.4	OK
2.006	Ex. M162/0210	44	96.035	-0.235	0.000	0.10		4.6	OK
2.007	Ex. M162/0205	44	95.974	-0.237	0.000	0.10		4.5	OK
2.008	Ex. M162/0206	44	95.954	-0.237	0.000	0.10		4.6	OK
1.005	Ex. Pump Sump	47	95.844	-0.217	0.000	0.17		14.7	OK

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Summary Wizard of 60 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	58	96.803	-0.247	0.000	0.07		4.7	OK

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Summary Wizard of 60 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	59	96.728	-0.202	0.000	0.24		7.1	OK
1.002	Ex. IA07	59	96.689	-0.221	0.000	0.16		8.5	OK
1.003	Tank	61	96.643	-0.186	0.000	0.11	24	7.7	OK
1.004	Ex. M16/0237	61	96.507	-0.229	0.000	0.13		7.7	OK
2.000	Ex. DW2	82	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	58	96.181	-0.259	0.000	0.03		1.0	OK
3.000	SIC 01 (connection to RWHT)	70	97.483	-0.167	0.000	0.15		4.1	OK
3.001	MH01	81	97.129	-0.496	0.000	0.01		3.6	OK
3.002	FC 01	81	97.129	0.062	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	59	96.160	-0.240	0.000	0.08		3.0	OK
2.003	Ex. AM03	59	96.114	-0.245	0.000	0.06		3.0	OK
2.004	Ex. AM04	59	96.110	-0.238	0.000	0.08		3.4	OK
2.005	Ex. AM02	59	96.068	-0.231	0.000	0.11		3.5	OK
2.006	Ex. M162/0210	59	96.028	-0.242	0.000	0.08		3.6	OK
2.007	Ex. M162/0205	59	95.967	-0.245	0.000	0.08		3.6	OK
2.008	Ex. M162/0206	59	95.947	-0.245	0.000	0.08		3.6	OK
1.005	Ex. Pump Sump	60	95.833	-0.228	0.000	0.13		11.3	OK

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Summary Wizard of 120 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	74	96.793	-0.257	0.000	0.05		3.3	OK

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Summary Wizard of 120 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.001	Ex. IA06	74	96.711	-0.219	0.000	0.17		4.9	OK
1.002	Ex. IA07	74	96.676	-0.233	0.000	0.11		6.0	OK
1.003	Tank	75	96.624	-0.205	0.000	0.08	36	5.8	OK
1.004	Ex. M16/0237	75	96.498	-0.238	0.000	0.10		5.7	OK
2.000	Ex. DW2	65	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	74	96.175	-0.265	0.000	0.02		0.7	OK
3.000	SIC 01 (connection to RWHT)	77	97.473	-0.177	0.000	0.10		2.9	OK
3.001	MH01	85	97.111	-0.514	0.000	0.01		2.6	OK
3.002	FC 01	85	97.111	0.044	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	72	96.154	-0.246	0.000	0.06		2.5	OK
2.003	Ex. AM03	72	96.109	-0.250	0.000	0.05		2.5	OK
2.004	Ex. AM04	72	96.104	-0.244	0.000	0.06		2.8	OK
2.005	Ex. AM02	74	96.062	-0.237	0.000	0.09		2.9	OK
2.006	Ex. M162/0210	75	96.022	-0.249	0.000	0.07		3.0	OK
2.007	Ex. M162/0205	74	95.961	-0.251	0.000	0.06		3.0	OK
2.008	Ex. M162/0206	74	95.941	-0.251	0.000	0.06		3.0	OK
1.005	Ex. Pump Sump	74	95.825	-0.236	0.000	0.10		8.7	OK

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Summary Wizard of 180 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	84	96.788	-0.262	0.000	0.04		2.5	OK

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Summary Wizard of 180 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.001	Ex. IA06	84	96.702	-0.228	0.000	0.13		3.8	OK
1.002	Ex. IA07	84	96.669	-0.241	0.000	0.09		4.6	OK
1.003	Tank	86	96.612	-0.217	0.000	0.06	51	4.5	OK
1.004	Ex. M16/0237	86	96.490	-0.246	0.000	0.08		4.5	OK
2.000	Ex. DW2	25	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	85	96.172	-0.268	0.000	0.01		0.6	OK
3.000	SIC 01 (connection to RWHT)	85	97.467	-0.183	0.000	0.08		2.2	OK
3.001	MH01	91	97.068	-0.557	0.000	0.01		2.0	OK
3.002	FC 01	91	97.068	0.001	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	85	96.151	-0.250	0.000	0.06		2.2	OK
2.003	Ex. AM03	85	96.105	-0.254	0.000	0.04		2.2	OK
2.004	Ex. AM04	85	96.100	-0.248	0.000	0.06		2.5	OK
2.005	Ex. AM02	85	96.059	-0.240	0.000	0.08		2.6	OK
2.006	Ex. M162/0210	85	96.018	-0.252	0.000	0.06		2.6	OK
2.007	Ex. M162/0205	85	95.957	-0.254	0.000	0.06		2.6	OK
2.008	Ex. M162/0206	86	95.937	-0.254	0.000	0.06		2.6	OK
1.005	Ex. Pump Sump	86	95.819	-0.242	0.000	0.08		7.2	OK

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Summary Wizard of 240 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	92	96.785	-0.265	0.000	0.03		2.1	OK

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Summary Wizard of 240 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	92	96.695	-0.235	0.000	0.11		3.1	OK
1.002	Ex. IA07	92	96.662	-0.248	0.000	0.07		3.8	OK
1.003	Tank	93	96.604	-0.225	0.000	0.05	68	3.7	OK
1.004	Ex. M16/0237	93	96.484	-0.252	0.000	0.06		3.7	OK
2.000	Ex. DW2	26	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	93	96.169	-0.271	0.000	0.01		0.5	OK
3.000	SIC 01 (connection to RWHT)	92	97.462	-0.188	0.000	0.07		1.8	OK
3.001	MH01	95	97.021	-0.604	0.000	0.01		1.7	OK
3.002	FC 01	95	97.021	-0.046	0.000	0.04		1.4	OK
2.002	Ex. IA01	94	96.148	-0.252	0.000	0.05		2.1	OK
2.003	Ex. AM03	94	96.102	-0.257	0.000	0.04		2.0	OK
2.004	Ex. AM04	94	96.097	-0.251	0.000	0.05		2.2	OK
2.005	Ex. AM02	94	96.055	-0.244	0.000	0.07		2.3	OK
2.006	Ex. M162/0210	93	96.015	-0.255	0.000	0.05		2.4	OK
2.007	Ex. M162/0205	93	95.955	-0.257	0.000	0.05		2.4	OK
2.008	Ex. M162/0206	93	95.935	-0.257	0.000	0.05		2.4	OK
1.005	Ex. Pump-Sump	93	95.813	-0.248	0.000	0.07		6.1	OK

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Summary Wizard of 360 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	104	96.781	-0.269	0.000	0.02		1.5	OK

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Summary Wizard of 360 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	104	96.686	-0.244	0.000	0.08			2.3	OK
1.002	Ex. IA07	104	96.654	-0.256	0.000	0.05			2.8	OK
1.003	Tank	105	96.592	-0.237	0.000	0.04		102	2.8	OK
1.004	Ex. M16/0237	104	96.477	-0.259	0.000	0.05			2.8	OK
2.000	Ex. DW2	27	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	104	96.163	-0.277	0.000	0.01			0.3	OK
3.000	SIC 01 (connection to RWHT)	104	97.457	-0.193	0.000	0.05			1.3	OK
3.001	MH01	105	96.951	-0.674	0.000	0.00			1.3	OK
3.002	FC 01	105	96.949	-0.118	0.000	0.04			1.2	OK
2.002	Ex. IA01	105	96.144	-0.256	0.000	0.04			1.8	OK
2.003	Ex. AM03	105	96.098	-0.261	0.000	0.03			1.8	OK
2.004	Ex. AM04	105	96.092	-0.256	0.000	0.04			1.9	OK
2.005	Ex. AM02	105	96.050	-0.249	0.000	0.06			1.9	OK
2.006	Ex. M162/0210	105	96.011	-0.259	0.000	0.04			2.0	OK
2.007	Ex. M162/0205	105	95.951	-0.260	0.000	0.04			2.0	OK
2.008	Ex. M162/0206	105	95.931	-0.261	0.000	0.04			2.0	OK
1.005	Ex. Pump-Sump	105	95.806	-0.255	0.000	0.06			4.7	OK

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Summary Wizard of 480 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	112	96.777	-0.273	0.000	0.02		1.2	OK

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Summary Wizard of 480 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	112	96.679	-0.251	0.000	0.06		1.8	OK
1.002	Ex. IA07	112	96.649	-0.261	0.000	0.04		2.2	OK
1.003	Tank	112	96.585	-0.244	0.000	0.03	128	2.2	OK
1.004	Ex. M16/0237	112	96.473	-0.263	0.000	0.04		2.2	OK
2.000	Ex. DW2	28	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	112	96.158	-0.282	0.000	0.01		0.3	OK
3.000	SIC 01 (connection to RWHT)	112	97.453	-0.197	0.000	0.04		1.1	OK
3.001	MH01	112	96.920	-0.705	0.000	0.00		1.1	OK
3.002	FC 01	112	96.916	-0.151	0.000	0.03		1.1	OK
2.002	Ex. IA01	112	96.140	-0.260	0.000	0.04		1.5	OK
2.003	Ex. AM03	112	96.094	-0.265	0.000	0.03		1.5	OK
2.004	Ex. AM04	112	96.088	-0.260	0.000	0.04		1.6	OK
2.005	Ex. AM02	112	96.045	-0.254	0.000	0.05		1.6	OK
2.006	Ex. M162/0210	112	96.008	-0.262	0.000	0.04		1.7	OK
2.007	Ex. M162/0205	112	95.948	-0.264	0.000	0.04		1.7	OK
2.008	Ex. M162/0206	112	95.928	-0.264	0.000	0.04		1.7	OK
1.005	Ex. Pump-Sump	112	95.802	-0.259	0.000	0.04		3.9	OK

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Summary Wizard of 600 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	118	96.772	-0.278	0.000	0.02		1.0	OK

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XP Solutions	Network 2020.1.3	

Summary Wizard of 600 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	118	96.675	-0.255	0.000	0.05		1.5	OK
1.002	Ex. IA07	118	96.646	-0.264	0.000	0.03		1.8	OK
1.003	Tank	119	96.580	-0.249	0.000	0.03	170	1.8	OK
1.004	Ex. M16/0237	119	96.470	-0.266	0.000	0.03		1.8	OK
2.000	Ex. DW2	29	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	118	96.155	-0.285	0.000	0.01		0.2	OK
3.000	SIC 01 (connection to RWHT)	118	97.451	-0.199	0.000	0.03		0.9	OK
3.001	MH01	119	96.908	-0.717	0.000	0.00		0.9	OK
3.002	FC 01	119	96.903	-0.164	0.000	0.03		0.9	OK
2.002	Ex. IA01	119	96.137	-0.263	0.000	0.03		1.2	OK
2.003	Ex. AM03	118	96.091	-0.268	0.000	0.02		1.2	OK
2.004	Ex. AM04	118	96.085	-0.263	0.000	0.03		1.3	OK
2.005	Ex. AM02	119	96.042	-0.258	0.000	0.04		1.4	OK
2.006	Ex. M162/0210	119	96.005	-0.265	0.000	0.03		1.4	OK
2.007	Ex. M162/0205	119	95.945	-0.266	0.000	0.03		1.4	OK
2.008	Ex. M162/0206	119	95.925	-0.266	0.000	0.03		1.4	OK
1.005	Ex. Pump-Sump	118	95.798	-0.263	0.000	0.04		3.2	OK

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Summary Wizard of 720 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	126	96.769	-0.281	0.000	0.01		0.9	OK	

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Summary Wizard of 720 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	126	96.672	-0.258	0.000	0.04		1.3	OK
1.002	Ex. IA07	126	96.644	-0.266	0.000	0.03		1.6	OK
1.003	Tank	126	96.576	-0.253	0.000	0.02	204	1.6	OK
1.004	Ex. M16/0237	126	96.468	-0.263	0.000	0.03		1.6	OK
2.000	Ex. DW2	30	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	126	96.153	-0.287	0.000	0.00		0.2	OK
3.000	SIC 01 (connection to RWHT)	126	97.450	-0.200	0.000	0.03		0.8	OK
3.001	MH01	126	96.901	-0.724	0.000	0.00		0.8	OK
3.002	FC 01	126	96.895	-0.172	0.000	0.02		0.8	OK
2.002	Ex. IA01	126	96.135	-0.265	0.000	0.03		1.1	OK
2.003	Ex. AM03	126	96.090	-0.269	0.000	0.02		1.1	OK
2.004	Ex. AM04	125	96.083	-0.265	0.000	0.03		1.1	OK
2.005	Ex. AM02	126	96.039	-0.260	0.000	0.04		1.2	OK
2.006	Ex. M162/0210	126	96.003	-0.267	0.000	0.03		1.2	OK
2.007	Ex. M162/0205	126	95.944	-0.268	0.000	0.03		1.2	OK
2.008	Ex. M162/0206	126	95.923	-0.268	0.000	0.03		1.2	OK
1.005	Ex. Pump-Sump	126	95.796	-0.265	0.000	0.03		2.8	OK

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Summary Wizard of 960 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	132	96.765	-0.285	0.000	0.01		0.7	OK	

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Summary Wizard of 960 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	132	96.668	-0.262	0.000	0.03		1.0	OK
1.002	Ex. IA07	132	96.641	-0.269	0.000	0.02		1.2	OK
1.003	Tank	132	96.570	-0.259	0.000	0.02	272	1.2	OK
1.004	Ex. M16/0237	132	96.465	-0.271	0.000	0.02		1.2	OK
2.000	Ex. DW2	31	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	132	96.150	-0.290	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	132	97.448	-0.202	0.000	0.02		0.6	OK
3.001	MH01	132	96.894	-0.731	0.000	0.00		0.6	OK
3.002	FC 01	132	96.886	-0.181	0.000	0.02		0.6	OK
2.002	Ex. IA01	132	96.132	-0.268	0.000	0.02		0.8	OK
2.003	Ex. AM03	132	96.085	-0.274	0.000	0.02		0.8	OK
2.004	Ex. AM04	131	96.079	-0.269	0.000	0.02		0.9	OK
2.005	Ex. AM02	132	96.035	-0.264	0.000	0.03		0.9	OK
2.006	Ex. M162/0210	132	96.000	-0.270	0.000	0.02		0.9	OK
2.007	Ex. M162/0205	131	95.940	-0.271	0.000	0.02		0.9	OK
2.008	Ex. M162/0206	132	95.920	-0.272	0.000	0.02		0.9	OK
1.005	Ex. Pump-Sump	131	95.793	-0.268	0.000	0.03		2.2	OK

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Summary Wizard of 1440 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	144	96.761	-0.289	0.000	0.01		0.5	OK

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Summary Wizard of 1440 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	144	96.662	-0.268	0.000	0.02		0.7	OK
1.002	Ex. IA07	144	96.633	-0.277	0.000	0.02		0.9	OK
1.003	Tank	144	96.564	-0.265	0.000	0.01	384	0.9	OK
1.004	Ex. M16/0237	144	96.456	-0.279	0.000	0.01		0.9	OK
2.000	Ex. DW2	33	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	144	96.147	-0.293	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	144	97.441	-0.209	0.000	0.02		0.4	OK
3.001	MH01	144	96.887	-0.738	0.000	0.00		0.4	OK
3.002	FC 01	144	96.877	-0.190	0.000	0.01		0.4	OK
2.002	Ex. IA01	144	96.125	-0.275	0.000	0.02		0.6	OK
2.003	Ex. AM03	144	96.079	-0.280	0.000	0.01		0.6	OK
2.004	Ex. AM04	144	96.073	-0.275	0.000	0.01		0.6	OK
2.005	Ex. AM02	144	96.030	-0.269	0.000	0.02		0.6	OK
2.006	Ex. M162/0210	144	95.992	-0.278	0.000	0.01		0.7	OK
2.007	Ex. M162/0205	144	95.932	-0.280	0.000	0.01		0.7	OK
2.008	Ex. M162/0206	144	95.912	-0.280	0.000	0.01		0.7	OK
1.005	Ex. Pump-Sump	144	95.786	-0.275	0.000	0.02		1.5	OK

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Summary Wizard of 2160 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	152	96.758	-0.292	0.000	0.01		0.3	OK	

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Summary Wizard of 2160 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	152	96.656	-0.274	0.000	0.02			0.5	OK
1.002	Ex. IA07	152	96.626	-0.283	0.000	0.01			0.6	OK
1.003	Tank	152	96.558	-0.271	0.000	0.01		576	0.6	OK
1.004	Ex. M16/0237	152	96.450	-0.285	0.000	0.01			0.6	OK
2.000	Ex. DW2	41	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	152	96.144	-0.296	0.000	0.00			0.1	OK
3.000	SIC 01 (connection to RWHT)	152	97.437	-0.213	0.000	0.01			0.3	OK
3.001	MH01	152	96.883	-0.742	0.000	0.00			0.3	OK
3.002	FC 01	152	96.871	-0.196	0.000	0.01			0.3	OK
2.002	Ex. IA01	152	96.118	-0.282	0.000	0.01			0.4	OK
2.003	Ex. AM03	152	96.072	-0.287	0.000	0.01			0.4	OK
2.004	Ex. AM04	152	96.066	-0.282	0.000	0.01			0.5	OK
2.005	Ex. AM02	152	96.023	-0.276	0.000	0.01			0.5	OK
2.006	Ex. M162/0210	152	95.986	-0.284	0.000	0.01			0.5	OK
2.007	Ex. M162/0205	152	95.926	-0.286	0.000	0.01			0.5	OK
2.008	Ex. M162/0206	152	95.906	-0.286	0.000	0.01			0.5	OK
1.005	Ex. Pump-Sump	152	95.779	-0.282	0.000	0.01			1.1	OK

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Summary Wizard of 2880 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	156	96.756	-0.294	0.000	0.00		0.3	OK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 2880 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	156	96.651	-0.279	0.000	0.01		0.4	OK
1.002	Ex. IA07	156	96.623	-0.287	0.000	0.01		0.5	OK
1.003	Tank	156	96.555	-0.274	0.000	0.01	744	0.5	OK
1.004	Ex. M16/0237	156	96.447	-0.288	0.000	0.01		0.5	OK
2.000	Ex. DW2	34	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	156	96.143	-0.297	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	156	97.434	-0.216	0.000	0.01		0.2	OK
3.001	MH01	156	96.881	-0.744	0.000	0.00		0.2	OK
3.002	FC 01	156	96.867	-0.200	0.000	0.01		0.2	OK
2.002	Ex. IA01	156	96.114	-0.286	0.000	0.01		0.3	OK
2.003	Ex. AM03	156	96.069	-0.290	0.000	0.01		0.3	OK
2.004	Ex. AM04	156	96.062	-0.286	0.000	0.01		0.4	OK
2.005	Ex. AM02	156	96.018	-0.281	0.000	0.01		0.4	OK
2.006	Ex. M162/0210	156	95.983	-0.288	0.000	0.01		0.4	OK
2.007	Ex. M162/0205	156	95.923	-0.289	0.000	0.01		0.4	OK
2.008	Ex. M162/0206	156	95.903	-0.289	0.000	0.01		0.4	OK
1.005	Ex. Pump-Sump	156	95.775	-0.286	0.000	0.01		0.9	OK

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Summary Wizard of 4320 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	159	96.754	-0.296	0.000	0.00	0.2	OK	

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Summary Wizard of 4320 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	159	96.646	-0.284	0.000	0.01			0.3	OK
1.002	Ex. IA07	159	96.619	-0.290	0.000	0.01			0.4	OK
1.003	Tank	159	96.551	-0.278	0.000	0.01		1104	0.4	OK
1.004	Ex. M16/0237	159	96.444	-0.291	0.000	0.01			0.4	OK
2.000	Ex. DW2	35	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	159	96.142	-0.298	0.000	0.00			0.0	OK
3.000	SIC 01 (connection to RWHT)	159	97.432	-0.218	0.000	0.01			0.2	OK
3.001	MH01	159	96.879	-0.746	0.000	0.00			0.2	OK
3.002	FC 01	159	96.863	-0.204	0.000	0.01			0.2	OK
2.002	Ex. IA01	159	96.111	-0.290	0.000	0.01			0.2	OK
2.003	Ex. AM03	159	96.066	-0.293	0.000	0.00			0.2	OK
2.004	Ex. AM04	159	96.058	-0.290	0.000	0.01			0.3	OK
2.005	Ex. AM02	159	96.013	-0.286	0.000	0.01			0.3	OK
2.006	Ex. M162/0210	159	95.979	-0.291	0.000	0.01			0.3	OK
2.007	Ex. M162/0205	159	95.920	-0.292	0.000	0.01			0.3	OK
2.008	Ex. M162/0206	159	95.900	-0.292	0.000	0.01			0.3	OK
1.005	Ex. Pump-Sump	159	95.772	-0.289	0.000	0.01			0.6	OK

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Summary Wizard of 5760 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	160	96.754	-0.296	0.000	0.00	0.2	OK	

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Summary Wizard of 5760 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	160	96.643	-0.287	0.000	0.01		0.2	OK
1.002	Ex. IA07	160	96.618	-0.292	0.000	0.01		0.3	OK
1.003	Tank	160	96.549	-0.280	0.000	0.00	1440	0.3	OK
1.004	Ex. M16/0237	160	96.442	-0.293	0.000	0.00		0.3	OK
2.000	Ex. DW2	36	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	160	96.142	-0.298	0.000	0.00		0.0	OK
3.000	SIC 01 (connection to RWHT)	160	97.430	-0.220	0.000	0.01		0.1	OK
3.001	MH01	160	96.878	-0.747	0.000	0.00		0.1	OK
3.002	FC 01	160	96.861	-0.206	0.000	0.00		0.1	OK
2.002	Ex. IA01	160	96.109	-0.292	0.000	0.01		0.2	OK
2.003	Ex. AM03	160	96.064	-0.295	0.000	0.00		0.2	OK
2.004	Ex. AM04	160	96.056	-0.292	0.000	0.00		0.2	OK
2.005	Ex. AM02	160	96.011	-0.288	0.000	0.01		0.2	OK
2.006	Ex. M162/0210	160	95.978	-0.293	0.000	0.00		0.2	OK
2.007	Ex. M162/0205	160	95.918	-0.293	0.000	0.00		0.2	OK
2.008	Ex. M162/0206	160	95.898	-0.293	0.000	0.00		0.2	OK
1.005	Ex. Pump-Sump	160	95.770	-0.291	0.000	0.01		0.5	OK

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Summary Wizard of 15 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	23	96.871	-0.179	0.000	0.25		16.1	OK	

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Summary Wizard of 15 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	23	96.835	-0.095	0.000	0.80		24.0	OK	
1.002	Ex. IA07	28	96.779	-0.131	0.000	0.54		28.8	OK	
1.003	Tank	28	96.771	-0.058	0.000	0.21	9	14.7	OK	
1.004	Ex. M16/0237	28	96.536	-0.200	0.000	0.25		14.7	OK	
2.000	Ex. DW2	37	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	17	96.220	-0.220	0.000	0.10		3.8	OK	
3.000	SIC 01 (connection to RWHT)	54	97.541	-0.109	0.000	0.52		14.6	OK	
3.001	MH01	64	97.310	-0.315	0.000	0.04		12.1	OK	
3.002	FC 01	64	97.310	0.243	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	17	96.195	-0.205	0.000	0.18		7.2	OK	
2.003	Ex. AM03	17	96.151	-0.208	0.000	0.14		7.1	OK	
2.004	Ex. AM04	17	96.147	-0.201	0.000	0.19		8.3	OK	
2.005	Ex. AM02	19	96.106	-0.193	0.000	0.27		8.6	OK	
2.006	Ex. M162/0210	19	96.061	-0.209	0.000	0.20		8.8	OK	
2.007	Ex. M162/0205	19	95.999	-0.212	0.000	0.19		8.7	OK	
2.008	Ex. M162/0206	19	95.979	-0.213	0.000	0.19		8.7	OK	
1.005	Ex. Pump Sump	19	95.867	-0.194	0.000	0.27		23.4	OK	

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Summary Wizard of 30 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	26	96.848	-0.202	0.000	0.19		12.5	OK	

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Summary Wizard of 30 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	30	96.803	-0.127	0.000	0.63		18.7		OK
1.002	Ex. IA07	29	96.765	-0.145	0.000	0.42		22.3		OK
1.003	Tank	29	96.757	-0.072	0.000	0.21	12	14.6		OK
1.004	Ex. M16/0237	29	96.536	-0.200	0.000	0.24		14.6		OK
2.000	Ex. DW2	38	96.240	-0.300	0.000	0.00		0.0		OK
2.001	Ex. AM11	24	96.208	-0.232	0.000	0.07		2.8		OK
3.000	SIC 01 (connection to RWHT)	57	97.523	-0.127	0.000	0.40		11.1		OK
3.001	MH01	60	97.372	-0.253	0.000	0.03		9.5		OK
3.002	FC 01	60	97.372	0.305	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	26	96.185	-0.216	0.000	0.15		5.8		OK
2.003	Ex. AM03	26	96.141	-0.218	0.000	0.11		5.7		OK
2.004	Ex. AM04	26	96.138	-0.210	0.000	0.16		6.8		OK
2.005	Ex. AM02	26	96.097	-0.202	0.000	0.22		7.1		OK
2.006	Ex. M162/0210	26	96.053	-0.218	0.000	0.17		7.4		OK
2.007	Ex. M162/0205	26	95.991	-0.220	0.000	0.16		7.4		OK
2.008	Ex. M162/0206	26	95.971	-0.221	0.000	0.16		7.4		OK
1.005	Ex. Pump Sump	26	95.864	-0.197	0.000	0.26		21.9		OK

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Summary Wizard of 60 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	38	96.822	-0.228	0.000	0.12		8.0	OK

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Summary Wizard of 60 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	40	96.763	-0.167	0.000	0.41		12.2		OK
1.002	Ex. IA07	39	96.723	-0.187	0.000	0.27		14.6		OK
1.003	Tank	39	96.704	-0.125	0.000	0.18	16	12.5		OK
1.004	Ex. M16/0237	39	96.528	-0.208	0.000	0.21		12.5		OK
2.000	Ex. DW2	39	96.240	-0.300	0.000	0.00		0.0		OK
2.001	Ex. AM11	36	96.195	-0.245	0.000	0.05		1.8		OK
3.000	SIC 01 (connection to RWHT)	63	97.502	-0.148	0.000	0.25		7.1		OK
3.001	MH01	59	97.373	-0.252	0.000	0.02		6.1		OK
3.002	FC 01	59	97.373	0.306	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	37	96.171	-0.229	0.000	0.11		4.2		OK
2.003	Ex. AM03	37	96.127	-0.232	0.000	0.08		4.2		OK
2.004	Ex. AM04	37	96.123	-0.225	0.000	0.11		4.9		OK
2.005	Ex. AM02	37	96.083	-0.216	0.000	0.16		5.2		OK
2.006	Ex. M162/0210	36	96.040	-0.230	0.000	0.12		5.4		OK
2.007	Ex. M162/0205	37	95.979	-0.232	0.000	0.12		5.4		OK
2.008	Ex. M162/0206	37	95.959	-0.233	0.000	0.12		5.4		OK
1.005	Ex. Pump Sump	39	95.853	-0.208	0.000	0.21		17.8		OK

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Summary Wizard of 120 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	54	96.807	-0.243	0.000	0.08		5.3	OK

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Summary Wizard of 120 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	54	96.735	-0.195	0.000	0.27		8.0	OK
1.002	Ex. IA07	54	96.695	-0.215	0.000	0.18		9.6	OK
1.003	Tank	53	96.657	-0.172	0.000	0.13	36	9.3	OK
1.004	Ex. M16/0237	53	96.514	-0.222	0.000	0.16		9.3	OK
2.000	Ex. DW2	23	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	53	96.184	-0.256	0.000	0.03		1.2	OK
3.000	SIC 01 (connection to RWHT)	69	97.486	-0.164	0.000	0.17		4.6	OK
3.001	MH01	61	97.362	-0.263	0.000	0.01		4.1	OK
3.002	FC 01	61	97.362	0.295	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	53	96.162	-0.238	0.000	0.08		3.2	OK
2.003	Ex. AM03	52	96.117	-0.242	0.000	0.06		3.2	OK
2.004	Ex. AM04	52	96.113	-0.235	0.000	0.09		3.7	OK
2.005	Ex. AM02	52	96.072	-0.227	0.000	0.12		3.9	OK
2.006	Ex. M162/0210	51	96.032	-0.239	0.000	0.09		4.0	OK
2.007	Ex. M162/0205	51	95.971	-0.241	0.000	0.09		4.0	OK
2.008	Ex. M162/0206	51	95.951	-0.241	0.000	0.09		4.0	OK
1.005	Ex. Pump Sump	53	95.839	-0.222	0.000	0.16		13.3	OK

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Summary Wizard of 180 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)		
1.000	Ex. AM08	66	96.798	-0.252	0.000	0.06		4.0	OK

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Summary Wizard of 180 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume Flow (m ³) Cap.				
1.001	Ex. IA06	66	96.721	-0.209	0.000	0.20		6.1	OK
1.002	Ex. IA07	66	96.683	-0.227	0.000	0.14		7.3	OK
1.003	Tank	65	96.638	-0.191	0.000	0.10	51	7.2	OK
1.004	Ex. M16/0237	65	96.504	-0.231	0.000	0.12		7.2	OK
2.000	Ex. DW2	24	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	66	96.178	-0.262	0.000	0.02		0.9	OK
3.000	SIC 01 (connection to RWHT)	74	97.478	-0.172	0.000	0.13		3.5	OK
3.001	MH01	65	97.308	-0.317	0.000	0.01		3.1	OK
3.002	FC 01	65	97.308	0.241	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	64	96.158	-0.242	0.000	0.07		2.8	OK
2.003	Ex. AM03	64	96.112	-0.247	0.000	0.05		2.8	OK
2.004	Ex. AM04	64	96.108	-0.240	0.000	0.07		3.1	OK
2.005	Ex. AM02	65	96.066	-0.233	0.000	0.10		3.3	OK
2.006	Ex. M162/0210	65	96.026	-0.245	0.000	0.08		3.4	OK
2.007	Ex. M162/0205	65	95.965	-0.247	0.000	0.07		3.4	OK
2.008	Ex. M162/0206	65	95.945	-0.247	0.000	0.07		3.4	OK
1.005	Ex. Pump Sump	65	95.831	-0.230	0.000	0.12		10.6	OK

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Summary Wizard of 240 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	75	96.793	-0.257	0.000	0.05		3.2	OK	

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Summary Wizard of 240 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)				
1.001	Ex. IA06	75	96.711	-0.219	0.000	0.16		4.9	OK
1.002	Ex. IA07	75	96.676	-0.234	0.000	0.11		5.9	OK
1.003	Tank	74	96.625	-0.204	0.000	0.08	68	5.8	OK
1.004	Ex. M16/0237	74	96.498	-0.238	0.000	0.10		5.8	OK
2.000	Ex. DW2	32	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	75	96.175	-0.265	0.000	0.02		0.7	OK
3.000	SIC 01 (connection to RWHT)	79	97.473	-0.177	0.000	0.10		2.8	OK
3.001	MH01	73	97.241	-0.384	0.000	0.01		2.6	OK
3.002	FC 01	73	97.241	0.174	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	74	96.154	-0.246	0.000	0.06		2.5	OK
2.003	Ex. AM03	73	96.109	-0.250	0.000	0.05		2.5	OK
2.004	Ex. AM04	73	96.104	-0.244	0.000	0.06		2.8	OK
2.005	Ex. AM02	72	96.062	-0.237	0.000	0.09		2.9	OK
2.006	Ex. M162/0210	73	96.022	-0.248	0.000	0.07		3.0	OK
2.007	Ex. M162/0205	73	95.961	-0.250	0.000	0.07		3.0	OK
2.008	Ex. M162/0206	73	95.941	-0.251	0.000	0.06		3.0	OK
1.005	Ex. Pump Sump	73	95.825	-0.236	0.000	0.10		8.9	OK

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Summary Wizard of 360 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	88	96.787	-0.263	0.000	0.04		2.3	OK

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Summary Wizard of 360 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume Flow (m ³) Cap.				
1.001	Ex. IA06	88	96.699	-0.231	0.000	0.12		3.5	OK
1.002	Ex. IA07	88	96.666	-0.244	0.000	0.08		4.3	OK
1.003	Tank	88	96.609	-0.220	0.000	0.06	96	4.2	OK
1.004	Ex. M16/0237	88	96.488	-0.248	0.000	0.07		4.3	OK
2.000	Ex. DW2	22	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	88	96.171	-0.269	0.000	0.01		0.5	OK
3.000	SIC 01 (connection to RWHT)	88	97.465	-0.185	0.000	0.07		2.1	OK
3.001	MH01	84	97.114	-0.511	0.000	0.01		1.9	OK
3.002	FC 01	84	97.115	0.048	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	88	96.150	-0.250	0.000	0.06		2.2	OK
2.003	Ex. AM03	88	96.104	-0.255	0.000	0.04		2.2	OK
2.004	Ex. AM04	88	96.099	-0.249	0.000	0.06		2.4	OK
2.005	Ex. AM02	88	96.058	-0.241	0.000	0.08		2.5	OK
2.006	Ex. M162/0210	88	96.017	-0.253	0.000	0.06		2.6	OK
2.007	Ex. M162/0205	88	95.957	-0.255	0.000	0.06		2.6	OK
2.008	Ex. M162/0206	88	95.937	-0.255	0.000	0.05		2.6	OK
1.005	Ex. Pump Sump	88	95.817	-0.244	0.000	0.08		6.8	OK

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Summary Wizard of 480 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	97	96.783	-0.267	0.000	0.03		1.8	OK

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Summary Wizard of 480 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	97	96.691	-0.239	0.000	0.09			2.8	OK
1.002	Ex. IA07	97	96.658	-0.251	0.000	0.06			3.4	OK
1.003	Tank	97	96.599	-0.230	0.000	0.05		128	3.3	OK
1.004	Ex. M16/0237	97	96.481	-0.254	0.000	0.06			3.3	OK
2.000	Ex. DW2	15	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	97	96.167	-0.273	0.000	0.01			0.4	OK
3.000	SIC 01 (connection to RWHT)	97	97.460	-0.190	0.000	0.06			1.6	OK
3.001	MH01	97	97.016	-0.609	0.000	0.01			1.6	OK
3.002	FC 01	97	97.016	-0.051	0.000	0.04			1.4	OK
2.002	Ex. IA01	97	96.147	-0.253	0.000	0.05			2.0	OK
2.003	Ex. AM03	97	96.101	-0.258	0.000	0.04			2.0	OK
2.004	Ex. AM04	97	96.096	-0.252	0.000	0.05			2.1	OK
2.005	Ex. AM02	97	96.054	-0.245	0.000	0.07			2.2	OK
2.006	Ex. M162/0210	97	96.014	-0.256	0.000	0.05			2.3	OK
2.007	Ex. M162/0205	97	95.954	-0.258	0.000	0.05			2.3	OK
2.008	Ex. M162/0206	97	95.934	-0.258	0.000	0.05			2.3	OK
1.005	Ex. Pump-Sump	97	95.811	-0.250	0.000	0.07			5.6	OK

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Summary Wizard of 600 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	105	96.781	-0.269	0.000	0.02		1.5	OK

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Summary Wizard of 600 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	105	96.686	-0.244	0.000	0.08		2.3	OK
1.002	Ex. IA07	105	96.654	-0.256	0.000	0.05		2.8	OK
1.003	Tank	104	96.592	-0.237	0.000	0.04	170	2.8	OK
1.004	Ex. M16/0237	105	96.477	-0.259	0.000	0.05		2.8	OK
2.000	Ex. DW2	10	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	105	96.163	-0.277	0.000	0.01		0.3	OK
3.000	SIC 01 (connection to RWHT)	105	97.456	-0.194	0.000	0.05		1.3	OK
3.001	MH01	103	96.957	-0.668	0.000	0.00		1.3	OK
3.002	FC 01	103	96.955	-0.112	0.000	0.04		1.3	OK
2.002	Ex. IA01	104	96.144	-0.256	0.000	0.05		1.8	OK
2.003	Ex. AM03	104	96.098	-0.261	0.000	0.03		1.8	OK
2.004	Ex. AM04	104	96.092	-0.256	0.000	0.04		1.9	OK
2.005	Ex. AM02	104	96.050	-0.249	0.000	0.06		2.0	OK
2.006	Ex. M162/0210	104	96.011	-0.259	0.000	0.04		2.0	OK
2.007	Ex. M162/0205	104	95.951	-0.260	0.000	0.04		2.0	OK
2.008	Ex. M162/0206	104	95.931	-0.260	0.000	0.04		2.0	OK
1.005	Ex. Pump-Sump	104	95.806	-0.255	0.000	0.06		4.8	OK

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Summary Wizard of 720 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	110	96.779	-0.271	0.000	0.02		1.3	OK

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Summary Wizard of 720 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	110	96.681	-0.249	0.000	0.07			2.0	OK
1.002	Ex. IA07	110	96.650	-0.260	0.000	0.04			2.4	OK
1.003	Tank	110	96.587	-0.242	0.000	0.03		204	2.4	OK
1.004	Ex. M16/0237	110	96.474	-0.262	0.000	0.04			2.4	OK
2.000	Ex. DW2	11	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	110	96.160	-0.280	0.000	0.01			0.3	OK
3.000	SIC 01 (connection to RWHT)	110	97.454	-0.196	0.000	0.04			1.1	OK
3.001	MH01	110	96.927	-0.698	0.000	0.00			1.1	OK
3.002	FC 01	110	96.923	-0.144	0.000	0.03			1.1	OK
2.002	Ex. IA01	110	96.142	-0.258	0.000	0.04			1.6	OK
2.003	Ex. AM03	110	96.096	-0.263	0.000	0.03			1.6	OK
2.004	Ex. AM04	110	96.090	-0.258	0.000	0.04			1.7	OK
2.005	Ex. AM02	110	96.047	-0.252	0.000	0.05			1.7	OK
2.006	Ex. M162/0210	110	96.009	-0.261	0.000	0.04			1.8	OK
2.007	Ex. M162/0205	110	95.949	-0.262	0.000	0.04			1.8	OK
2.008	Ex. M162/0206	110	95.929	-0.262	0.000	0.04			1.8	OK
1.005	Ex. Pump-Sump	110	95.803	-0.258	0.000	0.05			4.1	OK

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Summary Wizard of 960 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	119	96.772	-0.278	0.000	0.02		1.0	OK

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Summary Wizard of 960 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	119	96.675	-0.255	0.000	0.05		1.5	OK
1.002	Ex. IA07	119	96.646	-0.264	0.000	0.03		1.8	OK
1.003	Tank	118	96.580	-0.249	0.000	0.03	256	1.8	OK
1.004	Ex. M16/0237	118	96.470	-0.266	0.000	0.03		1.8	OK
2.000	Ex. DW2	12	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	119	96.155	-0.285	0.000	0.01		0.2	OK
3.000	SIC 01 (connection to RWHT)	119	97.451	-0.199	0.000	0.03		0.9	OK
3.001	MH01	118	96.908	-0.717	0.000	0.00		0.9	OK
3.002	FC 01	118	96.903	-0.164	0.000	0.03		0.9	OK
2.002	Ex. IA01	118	96.137	-0.263	0.000	0.03		1.2	OK
2.003	Ex. AM03	119	96.091	-0.268	0.000	0.02		1.2	OK
2.004	Ex. AM04	119	96.085	-0.263	0.000	0.03		1.3	OK
2.005	Ex. AM02	118	96.042	-0.258	0.000	0.04		1.4	OK
2.006	Ex. M162/0210	118	96.005	-0.265	0.000	0.03		1.4	OK
2.007	Ex. M162/0205	118	95.945	-0.266	0.000	0.03		1.4	OK
2.008	Ex. M162/0206	118	95.925	-0.266	0.000	0.03		1.4	OK
1.005	Ex. Pump-Sump	119	95.798	-0.263	0.000	0.04		3.2	OK

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Summary Wizard of 1440 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	130	96.766	-0.284	0.000	0.01		0.7	OK

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Summary Wizard of 1440 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	130	96.668	-0.262	0.000	0.04		1.1	OK
1.002	Ex. IA07	130	96.641	-0.269	0.000	0.02		1.3	OK
1.003	Tank	130	96.571	-0.258	0.000	0.02	384	1.3	OK
1.004	Ex. M16/0237	130	96.466	-0.270	0.000	0.02		1.3	OK
2.000	Ex. DW2	21	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	130	96.151	-0.289	0.000	0.00		0.2	OK
3.000	SIC 01 (connection to RWHT)	130	97.448	-0.202	0.000	0.02		0.6	OK
3.001	MH01	130	96.895	-0.730	0.000	0.00		0.6	OK
3.002	FC 01	130	96.887	-0.180	0.000	0.02		0.6	OK
2.002	Ex. IA01	130	96.132	-0.268	0.000	0.02		0.9	OK
2.003	Ex. AM03	130	96.086	-0.273	0.000	0.02		0.9	OK
2.004	Ex. AM04	130	96.080	-0.268	0.000	0.02		0.9	OK
2.005	Ex. AM02	130	96.035	-0.264	0.000	0.03		1.0	OK
2.006	Ex. M162/0210	130	96.001	-0.269	0.000	0.02		1.0	OK
2.007	Ex. M162/0205	130	95.941	-0.270	0.000	0.02		1.0	OK
2.008	Ex. M162/0206	130	95.921	-0.270	0.000	0.02		1.0	OK
1.005	Ex. Pump-Sump	130	95.793	-0.268	0.000	0.03		2.3	OK

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Summary Wizard of 2160 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	141	96.761	-0.289	0.000	0.01		0.5	OK

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Summary Wizard of 2160 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	141	96.663	-0.267	0.000	0.03		0.8	OK
1.002	Ex. IA07	141	96.634	-0.276	0.000	0.02		0.9	OK
1.003	Tank	141	96.564	-0.265	0.000	0.01	576	0.9	OK
1.004	Ex. M16/0237	141	96.457	-0.273	0.000	0.02		0.9	OK
2.000	Ex. DW2	14	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	141	96.147	-0.293	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	141	97.442	-0.208	0.000	0.02		0.4	OK
3.001	MH01	141	96.887	-0.738	0.000	0.00		0.4	OK
3.002	FC 01	141	96.878	-0.189	0.000	0.01		0.4	OK
2.002	Ex. IA01	141	96.126	-0.274	0.000	0.02		0.6	OK
2.003	Ex. AM03	141	96.079	-0.280	0.000	0.01		0.6	OK
2.004	Ex. AM04	141	96.074	-0.274	0.000	0.02		0.7	OK
2.005	Ex. AM02	141	96.030	-0.269	0.000	0.02		0.7	OK
2.006	Ex. M162/0210	141	95.993	-0.277	0.000	0.02		0.7	OK
2.007	Ex. M162/0205	141	95.932	-0.279	0.000	0.01		0.7	OK
2.008	Ex. M162/0206	141	95.912	-0.279	0.000	0.01		0.7	OK
1.005	Ex. Pump-Sump	141	95.787	-0.274	0.000	0.02		1.6	OK

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Summary Wizard of 2880 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	148	96.759	-0.291	0.000	0.01	0.4	OK	

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Summary Wizard of 2880 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	148	96.659	-0.271	0.000	0.02		0.6	OK
1.002	Ex. IA07	148	96.629	-0.281	0.000	0.01		0.7	OK
1.003	Tank	148	96.560	-0.269	0.000	0.01	744	0.7	OK
1.004	Ex. M16/0237	148	96.452	-0.283	0.000	0.01		0.7	OK
2.000	Ex. DW2	16	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	148	96.145	-0.295	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	148	97.438	-0.212	0.000	0.01		0.3	OK
3.001	MH01	148	96.884	-0.741	0.000	0.00		0.3	OK
3.002	FC 01	148	96.873	-0.194	0.000	0.01		0.3	OK
2.002	Ex. IA01	148	96.120	-0.280	0.000	0.01		0.5	OK
2.003	Ex. AM03	148	96.074	-0.285	0.000	0.01		0.5	OK
2.004	Ex. AM04	148	96.068	-0.280	0.000	0.01		0.5	OK
2.005	Ex. AM02	148	96.026	-0.273	0.000	0.02		0.5	OK
2.006	Ex. M162/0210	148	95.988	-0.282	0.000	0.01		0.5	OK
2.007	Ex. M162/0205	148	95.928	-0.284	0.000	0.01		0.5	OK
2.008	Ex. M162/0206	148	95.908	-0.284	0.000	0.01		0.5	OK
1.005	Ex. Pump-Sump	148	95.782	-0.279	0.000	0.01		1.2	OK

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Summary Wizard of 4320 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	154	96.756	-0.294	0.000	0.00	0.3	OK	

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Summary Wizard of 4320 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	154	96.652	-0.278	0.000	0.01		0.4	OK
1.002	Ex. IA07	154	96.623	-0.287	0.000	0.01		0.5	OK
1.003	Tank	154	96.555	-0.274	0.000	0.01	1104	0.5	OK
1.004	Ex. M16/0237	154	96.448	-0.288	0.000	0.01		0.5	OK
2.000	Ex. DW2	17	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	154	96.143	-0.297	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	154	97.434	-0.216	0.000	0.01		0.2	OK
3.001	MH01	154	96.881	-0.744	0.000	0.00		0.2	OK
3.002	FC 01	154	96.868	-0.199	0.000	0.01		0.2	OK
2.002	Ex. IA01	154	96.115	-0.286	0.000	0.01		0.3	OK
2.003	Ex. AM03	154	96.069	-0.290	0.000	0.01		0.3	OK
2.004	Ex. AM04	154	96.062	-0.286	0.000	0.01		0.4	OK
2.005	Ex. AM02	154	96.019	-0.280	0.000	0.01		0.4	OK
2.006	Ex. M162/0210	154	95.983	-0.287	0.000	0.01		0.4	OK
2.007	Ex. M162/0205	154	95.923	-0.288	0.000	0.01		0.4	OK
2.008	Ex. M162/0206	154	95.903	-0.288	0.000	0.01		0.4	OK
1.005	Ex. Pump-Sump	154	95.776	-0.285	0.000	0.01		0.9	OK

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Summary Wizard of 5760 minute 25 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	158	96.755	-0.295	0.000	0.00		0.2	OK

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Summary Wizard of 5760 minute 25 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	158	96.648	-0.282	0.000	0.01			0.3	OK
1.002	Ex. IA07	158	96.621	-0.289	0.000	0.01			0.4	OK
1.003	Tank	158	96.552	-0.277	0.000	0.01		1416	0.4	OK
1.004	Ex. M16/0237	158	96.445	-0.290	0.000	0.01			0.4	OK
2.000	Ex. DW2	18	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	158	96.143	-0.297	0.000	0.00			0.0	OK
3.000	SIC 01 (connection to RWHT)	158	97.432	-0.218	0.000	0.01			0.2	OK
3.001	MH01	158	96.879	-0.746	0.000	0.00			0.2	OK
3.002	FC 01	158	96.865	-0.202	0.000	0.01			0.2	OK
2.002	Ex. IA01	158	96.112	-0.288	0.000	0.01			0.3	OK
2.003	Ex. AM03	158	96.067	-0.292	0.000	0.01			0.3	OK
2.004	Ex. AM04	158	96.059	-0.289	0.000	0.01			0.3	OK
2.005	Ex. AM02	158	96.015	-0.284	0.000	0.01			0.3	OK
2.006	Ex. M162/0210	158	95.980	-0.290	0.000	0.01			0.3	OK
2.007	Ex. M162/0205	158	95.921	-0.291	0.000	0.01			0.3	OK
2.008	Ex. M162/0206	158	95.901	-0.291	0.000	0.01			0.3	OK
1.005	Ex. Pump-Sump	158	95.773	-0.288	0.000	0.01			0.7	OK

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Summary Wizard of 15 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	12	96.985	-0.065	0.000	0.41		26.5	OK	

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 15 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	13	96.972	0.042	0.000	1.33	39.8	SURCHARGED	
1.002	Ex. IA07	14	96.961	0.052	0.000	0.87	46.6	SURCHARGED	
1.003	Tank	14	96.953	0.124	0.000	0.21	13 15.0	SURCHARGED	
1.004	Ex. M16/0237	12	96.537	-0.199	0.000	0.25	15.0	OK	
2.000	Ex. DW2	8	96.241	-0.299	0.000	0.00	0.0	OK	
2.001	Ex. AM11	7	96.244	-0.196	0.000	0.16	6.3	OK	
3.000	SIC 01 (connection to RWHT)	49	97.601	-0.049	0.000	0.86	24.1	OK	
3.001	MH01	49	97.600	-0.025	0.000	0.07	20.0	OK	
3.002	FC 01	49	97.600	0.533	0.000	0.04	1.4	SURCHARGED	
2.002	Ex. IA01	7	96.219	-0.181	0.000	0.28	10.8	OK	
2.003	Ex. AM03	7	96.177	-0.182	0.000	0.20	10.6	OK	
2.004	Ex. AM04	7	96.173	-0.175	0.000	0.29	12.5	OK	
2.005	Ex. AM02	8	96.133	-0.166	0.000	0.41	13.2	OK	
2.006	Ex. M162/0210	8	96.084	-0.187	0.000	0.30	13.4	OK	
2.007	Ex. M162/0205	8	96.021	-0.191	0.000	0.28	13.2	OK	
2.008	Ex. M162/0206	8	96.000	-0.191	0.000	0.28	13.2	OK	
1.005	Ex. Pump Sump	8	95.879	-0.182	0.000	0.33	28.2	OK	

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Summary Wizard of 30 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	13	96.983	-0.067	0.000	0.32		20.6	OK	

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Summary Wizard of 30 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	14	96.971	0.041	0.000	1.00		29.8	SURCHARGED	
1.002	Ex. IA07	13	96.962	0.052	0.000	0.64		34.1	SURCHARGED	
1.003	Tank	13	96.953	0.124	0.000	0.21	15	15.0	SURCHARGED	
1.004	Ex. M16/0237	13	96.537	-0.199	0.000	0.25		15.0	OK	
2.000	Ex. DW2	19	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	13	96.229	-0.211	0.000	0.12		4.6	OK	
3.000	SIC 01 (connection to RWHT)	37	97.879	0.229	0.000	0.66		18.5	SURCHARGED	
3.001	MH01	37	97.878	0.253	0.000	0.05		15.7	SURCHARGED	
3.002	FC 01	37	97.878	0.811	0.000	0.04		1.6	SURCHARGED	
2.002	Ex. IA01	13	96.204	-0.196	0.000	0.22		8.6	OK	
2.003	Ex. AM03	13	96.162	-0.197	0.000	0.16		8.4	OK	
2.004	Ex. AM04	13	96.159	-0.189	0.000	0.24		10.2	OK	
2.005	Ex. AM02	13	96.120	-0.179	0.000	0.34		10.8	OK	
2.006	Ex. M162/0210	13	96.073	-0.198	0.000	0.25		11.1	OK	
2.007	Ex. M162/0205	13	96.011	-0.201	0.000	0.24		11.2	OK	
2.008	Ex. M162/0206	13	95.990	-0.201	0.000	0.24		11.2	OK	
1.005	Ex. Pump Sump	13	95.874	-0.187	0.000	0.30		26.1	OK	

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Summary Wizard of 60 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	21	96.884	-0.166	0.000	0.21		13.2	OK

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Summary Wizard of 60 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
1.001	Ex. IA06	21	96.873	-0.057	0.000	0.65			19.4	OK	
1.002	Ex. IA07	21	96.864	-0.046	0.000	0.43			22.9	OK	
1.003	Tank	21	96.855	0.026	0.000	0.21		18	15.0	SURCHARGED	
1.004	Ex. M16/0237	21	96.537	-0.199	0.000	0.25			15.0	OK	
2.000	Ex. DW2	20	96.240	-0.300	0.000	0.00			0.0	OK	
2.001	Ex. AM11	22	96.210	-0.230	0.000	0.08			3.0	OK	
3.000	SIC 01 (connection to RWHT)	30	98.025	0.375	0.000	0.43			11.9	SURCHARGED	
3.001	MH01	30	98.024	0.399	0.000	0.03			10.1	SURCHARGED	
3.002	FC 01	30	98.024	0.957	0.000	0.05			1.7	SURCHARGED	
2.002	Ex. IA01	22	96.186	-0.214	0.000	0.15			5.9	OK	
2.003	Ex. AM03	22	96.144	-0.215	0.000	0.11			5.9	OK	
2.004	Ex. AM04	22	96.140	-0.208	0.000	0.16			7.1	OK	
2.005	Ex. AM02	22	96.100	-0.199	0.000	0.24			7.6	OK	
2.006	Ex. M162/0210	21	96.056	-0.214	0.000	0.18			7.9	OK	
2.007	Ex. M162/0205	21	95.995	-0.217	0.000	0.17			8.0	OK	
2.008	Ex. M162/0206	21	95.974	-0.217	0.000	0.17			8.0	OK	
1.005	Ex. Pump Sump	21	95.866	-0.195	0.000	0.27			22.8	OK	

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Summary Wizard of 120 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	34	96.827	-0.223	0.000	0.14		8.7	OK

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Summary Wizard of 120 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
1.001	Ex. IA06	33	96.774	-0.156	0.000	0.44			13.0	OK
1.002	Ex. IA07	32	96.748	-0.162	0.000	0.29			15.6	OK
1.003	Tank	32	96.737	-0.092	0.000	0.20		28	14.5	OK
1.004	Ex. M16/0237	32	96.535	-0.200	0.000	0.24			14.5	OK
2.000	Ex. DW2	40	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	34	96.196	-0.244	0.000	0.05			1.9	OK
3.000	SIC 01 (connection to RWHT)	27	98.104	0.454	0.000	0.28			7.7	SURCHARGED
3.001	MH01	27	98.103	0.478	0.000	0.02			6.5	SURCHARGED
3.002	FC 01	27	98.103	1.036	0.000	0.05			1.7	SURCHARGED
2.002	Ex. IA01	35	96.172	-0.229	0.000	0.11			4.2	OK
2.003	Ex. AM03	34	96.128	-0.231	0.000	0.08			4.2	OK
2.004	Ex. AM04	34	96.124	-0.224	0.000	0.12			5.0	OK
2.005	Ex. AM02	34	96.084	-0.215	0.000	0.17			5.4	OK
2.006	Ex. M162/0210	34	96.041	-0.229	0.000	0.13			5.6	OK
2.007	Ex. M162/0205	34	95.980	-0.231	0.000	0.12			5.6	OK
2.008	Ex. M162/0206	34	95.960	-0.231	0.000	0.12			5.6	OK
1.005	Ex. Pump Sump	32	95.859	-0.202	0.000	0.23			20.0	OK

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Summary Wizard of 180 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	46	96.814	-0.236	0.000	0.10		6.6	OK

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Summary Wizard of 180 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
1.001	Ex. IA06	46	96.750	-0.180	0.000	0.34			10.0	OK
1.002	Ex. IA07	43	96.712	-0.198	0.000	0.23			12.1	OK
1.003	Tank	41	96.691	-0.138	0.000	0.16		39	11.6	OK
1.004	Ex. M16/0237	41	96.525	-0.211	0.000	0.19			11.6	OK
2.000	Ex. DW2	42	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	46	96.188	-0.252	0.000	0.04			1.5	OK
3.000	SIC 01 (connection to RWHT)	29	98.030	0.380	0.000	0.21			5.8	SURCHARGED
3.001	MH01	29	98.029	0.404	0.000	0.02			5.1	SURCHARGED
3.002	FC 01	29	98.029	0.962	0.000	0.05			1.7	SURCHARGED
2.002	Ex. IA01	48	96.165	-0.235	0.000	0.09			3.5	OK
2.003	Ex. AM03	46	96.121	-0.238	0.000	0.07			3.5	OK
2.004	Ex. AM04	46	96.116	-0.232	0.000	0.09			4.1	OK
2.005	Ex. AM02	46	96.076	-0.223	0.000	0.14			4.4	OK
2.006	Ex. M162/0210	45	96.035	-0.235	0.000	0.10			4.6	OK
2.007	Ex. M162/0205	45	95.974	-0.237	0.000	0.10			4.5	OK
2.008	Ex. M162/0206	45	95.954	-0.238	0.000	0.10			4.5	OK
1.005	Ex. Pump Sump	41	95.849	-0.212	0.000	0.19			16.1	OK

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Summary Wizard of 240 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	53	96.808	-0.242	0.000	0.08		5.4	OK

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Summary Wizard of 240 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	53	96.736	-0.194	0.000	0.27		8.1	OK	
1.002	Ex. IA07	52	96.696	-0.214	0.000	0.18		9.8	OK	
1.003	Tank	51	96.661	-0.168	0.000	0.14	64	9.7	OK	
1.004	Ex. M16/0237	51	96.516	-0.220	0.000	0.16		9.7	OK	
2.000	Ex. DW2	62	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	54	96.183	-0.257	0.000	0.03		1.2	OK	
3.000	SIC 01 (connection to RWHT)	35	97.895	0.245	0.000	0.17		4.7	SURCHARGED	
3.001	MH01	35	97.894	0.269	0.000	0.01		4.1	SURCHARGED	
3.002	FC 01	35	97.894	0.827	0.000	0.04		1.6	SURCHARGED	
2.002	Ex. IA01	55	96.161	-0.239	0.000	0.08		3.1	OK	
2.003	Ex. AM03	55	96.116	-0.243	0.000	0.06		3.1	OK	
2.004	Ex. AM04	55	96.112	-0.236	0.000	0.08		3.6	OK	
2.005	Ex. AM02	54	96.071	-0.228	0.000	0.12		3.8	OK	
2.006	Ex. M162/0210	54	96.031	-0.239	0.000	0.09		3.9	OK	
2.007	Ex. M162/0205	54	95.970	-0.242	0.000	0.09		4.0	OK	
2.008	Ex. M162/0206	54	95.950	-0.242	0.000	0.08		4.0	OK	
1.005	Ex. Pump Sump	51	95.840	-0.221	0.000	0.16		13.6	OK	

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XP Solutions	Network 2020.1.3	

Summary Wizard of 360 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	67	96.798	-0.252	0.000	0.06		3.9	OK

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Summary Wizard of 360 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)			
1.001	Ex. IA06	67	96.720	-0.210	0.000	0.20		5.9	OK
1.002	Ex. IA07	67	96.682	-0.228	0.000	0.13		7.1	OK
1.003	Tank	66	96.637	-0.192	0.000	0.10	96	7.1	OK
1.004	Ex. M16/0237	66	96.504	-0.232	0.000	0.12		7.1	OK
2.000	Ex. DW2	44	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	67	96.177	-0.263	0.000	0.02		0.9	OK
3.000	SIC 01 (connection to RWHT)	47	97.623	-0.027	0.000	0.12		3.4	OK
3.001	MH01	47	97.622	-0.003	0.000	0.01		3.1	OK
3.002	FC 01	47	97.622	0.555	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	68	96.156	-0.244	0.000	0.07		2.7	OK
2.003	Ex. AM03	67	96.111	-0.248	0.000	0.05		2.7	OK
2.004	Ex. AM04	67	96.106	-0.242	0.000	0.07		3.0	OK
2.005	Ex. AM02	67	96.065	-0.234	0.000	0.10		3.2	OK
2.006	Ex. M162/0210	67	96.024	-0.246	0.000	0.07		3.3	OK
2.007	Ex. M162/0205	67	95.964	-0.248	0.000	0.07		3.3	OK
2.008	Ex. M162/0206	67	95.943	-0.248	0.000	0.07		3.3	OK
1.005	Ex. Pump Sump	66	95.830	-0.231	0.000	0.12		10.3	OK

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Summary Wizard of 480 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain		Pipe Flow (1/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)		
1.000	Ex. AM08	79	96.792	-0.258	0.000	0.05		3.1	OK

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Summary Wizard of 480 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow Cap.				
1.001	Ex. IA06	79	96.708	-0.222	0.000	0.16		4.6	OK	
1.002	Ex. IA07	79	96.674	-0.236	0.000	0.10		5.6	OK	
1.003	Tank	79	96.623	-0.206	0.000	0.08	128	5.6	OK	
1.004	Ex. M16/0237	79	96.497	-0.239	0.000	0.09		5.6	OK	
2.000	Ex. DW2	43	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	78	96.174	-0.266	0.000	0.02		0.7	OK	
3.000	SIC 01 (connection to RWHT)	78	97.473	-0.177	0.000	0.10		2.7	OK	
3.001	MH01	56	97.470	-0.155	0.000	0.01		2.5	OK	
3.002	FC 01	56	97.470	0.403	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	77	96.153	-0.247	0.000	0.06		2.4	OK	
2.003	Ex. AM03	77	96.108	-0.251	0.000	0.05		2.4	OK	
2.004	Ex. AM04	77	96.103	-0.245	0.000	0.06		2.7	OK	
2.005	Ex. AM02	77	96.062	-0.238	0.000	0.09		2.8	OK	
2.006	Ex. M162/0210	77	96.021	-0.249	0.000	0.07		2.9	OK	
2.007	Ex. M162/0205	77	95.960	-0.251	0.000	0.06		2.9	OK	
2.008	Ex. M162/0206	77	95.940	-0.252	0.000	0.06		2.9	OK	
1.005	Ex. Pump Sump	78	95.824	-0.237	0.000	0.10		8.5	OK	

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Summary Wizard of 600 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow				
1.000	Ex. AM08	85	96.788	-0.262	0.000	0.04		2.5	OK	

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 600 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)			
1.001	Ex. IA06	85	96.702	-0.228	0.000	0.13		3.8	OK
1.002	Ex. IA07	85	96.669	-0.241	0.000	0.09		4.6	OK
1.003	Tank	84	96.613	-0.216	0.000	0.07	160	4.6	OK
1.004	Ex. M16/0237	84	96.491	-0.245	0.000	0.08		4.6	OK
2.000	Ex. DW2	66	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	84	96.172	-0.268	0.000	0.01		0.6	OK
3.000	SIC 01 (connection to RWHT)	86	97.467	-0.183	0.000	0.08		2.2	OK
3.001	MH01	66	97.307	-0.318	0.000	0.01		2.1	OK
3.002	FC 01	66	97.307	0.240	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	84	96.151	-0.249	0.000	0.06		2.3	OK
2.003	Ex. AM03	84	96.105	-0.254	0.000	0.04		2.3	OK
2.004	Ex. AM04	84	96.100	-0.248	0.000	0.06		2.5	OK
2.005	Ex. AM02	84	96.059	-0.240	0.000	0.08		2.6	OK
2.006	Ex. M162/0210	84	96.018	-0.252	0.000	0.06		2.7	OK
2.007	Ex. M162/0205	84	95.958	-0.254	0.000	0.06		2.7	OK
2.008	Ex. M162/0206	84	95.938	-0.254	0.000	0.06		2.7	OK
1.005	Ex. Pump Sump	84	95.820	-0.241	0.000	0.09		7.3	OK

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Summary Wizard of 720 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	91	96.786	-0.264	0.000	0.03		2.2	OK

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Summary Wizard of 720 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	91	96.696	-0.234	0.000	0.11		3.3	OK	
1.002	Ex. IA07	91	96.663	-0.247	0.000	0.07		4.0	OK	
1.003	Tank	91	96.606	-0.223	0.000	0.06	192	4.0	OK	
1.004	Ex. M16/0237	91	96.486	-0.250	0.000	0.07		4.0	OK	
2.000	Ex. DW2	67	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	91	96.170	-0.270	0.000	0.01		0.5	OK	
3.000	SIC 01 (connection to RWHT)	91	97.463	-0.187	0.000	0.07		1.9	OK	
3.001	MH01	76	97.171	-0.454	0.000	0.01		1.8	OK	
3.002	FC 01	76	97.171	0.104	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	91	96.149	-0.251	0.000	0.05		2.1	OK	
2.003	Ex. AM03	91	96.103	-0.256	0.000	0.04		2.1	OK	
2.004	Ex. AM04	91	96.098	-0.250	0.000	0.05		2.3	OK	
2.005	Ex. AM02	91	96.057	-0.242	0.000	0.08		2.4	OK	
2.006	Ex. M162/0210	91	96.016	-0.254	0.000	0.06		2.5	OK	
2.007	Ex. M162/0205	91	95.956	-0.256	0.000	0.05		2.5	OK	
2.008	Ex. M162/0206	91	95.936	-0.256	0.000	0.05		2.5	OK	
1.005	Ex. Pump Sump	91	95.815	-0.246	0.000	0.08		6.4	OK	

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Summary Wizard of 960 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	100	96.782	-0.268	0.000	0.03		1.7	OK

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Summary Wizard of 960 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	100	96.689	-0.241	0.000	0.08		2.5	OK
1.002	Ex. IA07	100	96.656	-0.254	0.000	0.06		3.1	OK
1.003	Tank	100	96.596	-0.233	0.000	0.04	256	3.1	OK
1.004	Ex. M16/0237	100	96.479	-0.257	0.000	0.05		3.1	OK
2.000	Ex. DW2	68	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	100	96.165	-0.275	0.000	0.01		0.4	OK
3.000	SIC 01 (connection to RWHT)	100	97.458	-0.192	0.000	0.05		1.5	OK
3.001	MH01	98	97.005	-0.620	0.000	0.00		1.4	OK
3.002	FC 01	98	97.005	-0.062	0.000	0.04		1.4	OK
2.002	Ex. IA01	99	96.146	-0.254	0.000	0.05		1.9	OK
2.003	Ex. AM03	99	96.100	-0.259	0.000	0.04		1.9	OK
2.004	Ex. AM04	100	96.095	-0.253	0.000	0.05		2.1	OK
2.005	Ex. AM02	99	96.053	-0.246	0.000	0.07		2.1	OK
2.006	Ex. M162/0210	99	96.013	-0.257	0.000	0.05		2.2	OK
2.007	Ex. M162/0205	99	95.953	-0.259	0.000	0.05		2.2	OK
2.008	Ex. M162/0206	99	95.933	-0.259	0.000	0.05		2.2	OK
1.005	Ex. Pump-Sump	100	95.809	-0.252	0.000	0.06		5.2	OK

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Summary Wizard of 1440 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	114	96.776	-0.274	0.000	0.02		1.2	OK

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Summary Wizard of 1440 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	114	96.678	-0.252	0.000	0.06		1.8	OK
1.002	Ex. IA07	114	96.648	-0.262	0.000	0.04		2.1	OK
1.003	Tank	114	96.584	-0.245	0.000	0.03	384	2.1	OK
1.004	Ex. M16/0237	114	96.472	-0.264	0.000	0.04		2.1	OK
2.000	Ex. DW2	69	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	114	96.158	-0.282	0.000	0.01		0.3	OK
3.000	SIC 01 (connection to RWHT)	114	97.453	-0.197	0.000	0.04		1.0	OK
3.001	MH01	114	96.918	-0.707	0.000	0.00		1.0	OK
3.002	FC 01	114	96.914	-0.153	0.000	0.03		1.0	OK
2.002	Ex. IA01	114	96.140	-0.261	0.000	0.04		1.4	OK
2.003	Ex. AM03	114	96.094	-0.265	0.000	0.03		1.4	OK
2.004	Ex. AM04	114	96.088	-0.260	0.000	0.04		1.5	OK
2.005	Ex. AM02	114	96.045	-0.254	0.000	0.05		1.6	OK
2.006	Ex. M162/0210	114	96.007	-0.263	0.000	0.04		1.6	OK
2.007	Ex. M162/0205	114	95.948	-0.264	0.000	0.03		1.6	OK
2.008	Ex. M162/0206	114	95.927	-0.264	0.000	0.03		1.6	OK
1.005	Ex. Pump-Sump	114	95.801	-0.260	0.000	0.04		3.7	OK

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Summary Wizard of 2160 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	127	96.768	-0.282	0.000	0.01	0.8	OK	

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Summary Wizard of 2160 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	127	96.671	-0.259	0.000	0.04		1.2	OK
1.002	Ex. IA07	127	96.643	-0.267	0.000	0.03		1.5	OK
1.003	Tank	127	96.575	-0.254	0.000	0.02	552	1.5	OK
1.004	Ex. M16/0237	127	96.467	-0.268	0.000	0.02		1.5	OK
2.000	Ex. DW2	70	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	127	96.152	-0.288	0.000	0.00		0.2	OK
3.000	SIC 01 (connection to RWHT)	127	97.449	-0.201	0.000	0.03		0.7	OK
3.001	MH01	127	96.899	-0.726	0.000	0.00		0.7	OK
3.002	FC 01	127	96.892	-0.175	0.000	0.02		0.7	OK
2.002	Ex. IA01	127	96.134	-0.266	0.000	0.03		1.0	OK
2.003	Ex. AM03	127	96.089	-0.270	0.000	0.02		1.0	OK
2.004	Ex. AM04	127	96.081	-0.267	0.000	0.02		1.1	OK
2.005	Ex. AM02	127	96.038	-0.261	0.000	0.03		1.1	OK
2.006	Ex. M162/0210	127	96.003	-0.268	0.000	0.03		1.1	OK
2.007	Ex. M162/0205	127	95.943	-0.269	0.000	0.02		1.1	OK
2.008	Ex. M162/0206	127	95.923	-0.269	0.000	0.02		1.1	OK
1.005	Ex. Pump-Sump	127	95.795	-0.266	0.000	0.03		2.6	OK

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Summary Wizard of 2880 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	135	96.764	-0.286	0.000	0.01		0.6	OK

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Summary Wizard of 2880 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	135	96.667	-0.263	0.000	0.03		1.0	OK
1.002	Ex. IA07	135	96.640	-0.270	0.000	0.02		1.2	OK
1.003	Tank	135	96.569	-0.260	0.000	0.02	744	1.2	OK
1.004	Ex. M16/0237	135	96.463	-0.272	0.000	0.02		1.2	OK
2.000	Ex. DW2	71	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	135	96.149	-0.291	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	135	97.446	-0.204	0.000	0.02		0.6	OK
3.001	MH01	135	96.892	-0.733	0.000	0.00		0.6	OK
3.002	FC 01	135	96.884	-0.183	0.000	0.02		0.6	OK
2.002	Ex. IA01	135	96.131	-0.269	0.000	0.02		0.8	OK
2.003	Ex. AM03	135	96.085	-0.274	0.000	0.01		0.8	OK
2.004	Ex. AM04	135	96.079	-0.269	0.000	0.02		0.8	OK
2.005	Ex. AM02	135	96.034	-0.265	0.000	0.03		0.9	OK
2.006	Ex. M162/0210	134	95.999	-0.271	0.000	0.02		0.9	OK
2.007	Ex. M162/0205	134	95.938	-0.273	0.000	0.02		0.9	OK
2.008	Ex. M162/0206	135	95.918	-0.273	0.000	0.02		0.9	OK
1.005	Ex. Pump-Sump	134	95.792	-0.269	0.000	0.02		2.0	OK

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Summary Wizard of 4320 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	146	96.760	-0.290	0.000	0.01	0.4	OK	

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Summary Wizard of 4320 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	146	96.661	-0.269	0.000	0.02		0.7	OK
1.002	Ex. IA07	146	96.632	-0.278	0.000	0.02		0.8	OK
1.003	Tank	146	96.562	-0.267	0.000	0.01	1080	0.8	OK
1.004	Ex. M16/0237	146	96.455	-0.280	0.000	0.01		0.8	OK
2.000	Ex. DW2	73	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	146	96.146	-0.294	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	146	97.440	-0.210	0.000	0.01		0.4	OK
3.001	MH01	146	96.886	-0.739	0.000	0.00		0.4	OK
3.002	FC 01	146	96.876	-0.191	0.000	0.01		0.4	OK
2.002	Ex. IA01	146	96.123	-0.277	0.000	0.01		0.6	OK
2.003	Ex. AM03	146	96.077	-0.282	0.000	0.01		0.6	OK
2.004	Ex. AM04	146	96.072	-0.276	0.000	0.01		0.6	OK
2.005	Ex. AM02	146	96.029	-0.270	0.000	0.02		0.6	OK
2.006	Ex. M162/0210	146	95.991	-0.280	0.000	0.01		0.6	OK
2.007	Ex. M162/0205	146	95.931	-0.281	0.000	0.01		0.6	OK
2.008	Ex. M162/0206	146	95.910	-0.281	0.000	0.01		0.6	OK
1.005	Ex. Pump-Sump	146	95.785	-0.276	0.000	0.02		1.4	OK

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Summary Wizard of 5760 minute 50 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	151	96.758	-0.292	0.000	0.01	0.4	OK	

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Summary Wizard of 5760 minute 50 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	151	96.657	-0.273	0.000	0.02		0.5	OK
1.002	Ex. IA07	151	96.627	-0.283	0.000	0.01		0.7	OK
1.003	Tank	151	96.559	-0.270	0.000	0.01	1416	0.7	OK
1.004	Ex. M16/0237	151	96.451	-0.285	0.000	0.01		0.7	OK
2.000	Ex. DW2	81	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	151	96.144	-0.296	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	151	97.437	-0.213	0.000	0.01		0.3	OK
3.001	MH01	151	96.883	-0.742	0.000	0.00		0.3	OK
3.002	FC 01	151	96.871	-0.196	0.000	0.01		0.3	OK
2.002	Ex. IA01	151	96.119	-0.282	0.000	0.01		0.4	OK
2.003	Ex. AM03	151	96.073	-0.286	0.000	0.01		0.4	OK
2.004	Ex. AM04	151	96.067	-0.281	0.000	0.01		0.5	OK
2.005	Ex. AM02	151	96.024	-0.276	0.000	0.02		0.5	OK
2.006	Ex. M162/0210	151	95.986	-0.284	0.000	0.01		0.5	OK
2.007	Ex. M162/0205	151	95.927	-0.285	0.000	0.01		0.5	OK
2.008	Ex. M162/0206	151	95.906	-0.285	0.000	0.01		0.5	OK
1.005	Ex. Pump-Sump	151	95.780	-0.281	0.000	0.01		1.1	OK

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Summary Wizard of 15 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
1.000	Ex. AM08	8	97.454	0.404	0.000	0.48	30.7	SURCHARGED

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Summary Wizard of 15 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	8	97.443	0.513	0.000	1.55	46.4	SURCHARGED	
1.002	Ex. IA07	8	97.435	0.525	0.000	1.01	54.3	FLOOD RISK	
1.003	Tank	8	97.426	0.597	0.000	0.21	16	15.0 SURCHARGED	
1.004	Ex. M16/0237	14	96.537	-0.199	0.000	0.25	15.0	OK	
2.000	Ex. DW2	3	96.248	-0.292	0.000	0.00	0.0	OK	
2.001	Ex. AM11	3	96.253	-0.187	0.000	0.19	7.3	OK	
3.000	SIC 01 (connection to RWHT)	39	97.832	0.182	0.000	0.99	27.6	SURCHARGED	
3.001	MH01	39	97.831	0.206	0.000	0.08	23.4	SURCHARGED	
3.002	FC 01	39	97.831	0.764	0.000	0.04	1.5	SURCHARGED	
2.002	Ex. IA01	4	96.228	-0.172	0.000	0.31	12.3	OK	
2.003	Ex. AM03	3	96.186	-0.173	0.000	0.23	11.9	OK	
2.004	Ex. AM04	3	96.183	-0.165	0.000	0.33	14.2	OK	
2.005	Ex. AM02	4	96.144	-0.155	0.000	0.47	15.0	OK	
2.006	Ex. M162/0210	4	96.092	-0.178	0.000	0.34	15.3	OK	
2.007	Ex. M162/0205	4	96.029	-0.183	0.000	0.32	15.0	OK	
2.008	Ex. M162/0206	4	96.008	-0.183	0.000	0.32	15.0	OK	
1.005	Ex. Pump Sump	5	95.883	-0.178	0.000	0.35	29.6	OK	

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Summary Wizard of 30 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	6	97.546	0.496	0.000	0.37	23.9	SURCHARGED	

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 30 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.001	Ex. IA06	6	97.535	0.605	0.000	1.20		35.7	FLOOD RISK	
1.002	Ex. IA07	6	97.526	0.616	0.000	0.74		39.5	FLOOD RISK	
1.003	Tank	6	97.516	0.687	0.000	0.22	19	15.5	FLOOD RISK	
1.004	Ex. M16/0237	6	96.539	-0.197	0.000	0.26		15.5	OK	
2.000	Ex. DW2	74	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	10	96.237	-0.203	0.000	0.14		5.4	OK	
3.000	SIC 01 (connection to RWHT)	19	98.271	0.621	0.000	0.78		21.6	SURCHARGED	
3.001	MH01	19	98.270	0.645	0.000	0.06		18.1	SURCHARGED	
3.002	FC 01	19	98.270	1.203	0.000	0.05		1.8	SURCHARGED	
2.002	Ex. IA01	10	96.213	-0.187	0.000	0.25		9.7	OK	
2.003	Ex. AM03	10	96.171	-0.188	0.000	0.18		9.6	OK	
2.004	Ex. AM04	10	96.168	-0.180	0.000	0.27		11.6	OK	
2.005	Ex. AM02	10	96.129	-0.170	0.000	0.39		12.4	OK	
2.006	Ex. M162/0210	10	96.080	-0.190	0.000	0.29		12.8	OK	
2.007	Ex. M162/0205	10	96.018	-0.194	0.000	0.27		12.7	OK	
2.008	Ex. M162/0206	10	95.998	-0.194	0.000	0.27		12.7	OK	
1.005	Ex. Pump Sump	10	95.878	-0.183	0.000	0.32		27.5	OK	

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Summary Wizard of 60 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	14	96.983	-0.067	0.000	0.24		15.4	OK	

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Summary Wizard of 60 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	12	96.972	0.042	0.000	0.71		21.2	SURCHARGED
1.002	Ex. IA07	12	96.964	0.054	0.000	0.47		25.1	SURCHARGED
1.003	Tank	12	96.955	0.126	0.000	0.21	20	15.0	SURCHARGED
1.004	Ex. M16/0237	11	96.537	-0.199	0.000	0.25		15.0	OK
2.000	Ex. DW2	75	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	19	96.217	-0.223	0.000	0.09		3.5	OK
3.000	SIC 01 (connection to RWHT)	15	98.480	0.830	0.000	0.50		13.9	SURCHARGED
3.001	MH01	15	98.479	0.854	0.000	0.04		11.6	SURCHARGED
3.002	FC 01	15	98.479	1.412	0.000	0.05		1.9	SURCHARGED
2.002	Ex. IA01	20	96.193	-0.207	0.000	0.17		6.7	OK
2.003	Ex. AM03	19	96.150	-0.209	0.000	0.13		6.7	OK
2.004	Ex. AM04	19	96.147	-0.201	0.000	0.19		8.2	OK
2.005	Ex. AM02	18	96.108	-0.191	0.000	0.27		8.7	OK
2.006	Ex. M162/0210	17	96.063	-0.207	0.000	0.20		9.1	OK
2.007	Ex. M162/0205	18	96.001	-0.210	0.000	0.20		9.1	OK
2.008	Ex. M162/0206	17	95.981	-0.211	0.000	0.19		9.1	OK
1.005	Ex. Pump Sump	17	95.869	-0.192	0.000	0.28		24.1	OK

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Summary Wizard of 120 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	27	96.848	-0.202	0.000	0.16		10.3	OK

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Summary Wizard of 120 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
1.001	Ex. IA06	25	96.824	-0.106	0.000	0.50			15.0	OK	
1.002	Ex. IA07	23	96.813	-0.096	0.000	0.33			17.8	OK	
1.003	Tank	23	96.804	-0.025	0.000	0.21		24	14.8	OK	
1.004	Ex. M16/0237	23	96.536	-0.199	0.000	0.25			14.8	OK	
2.000	Ex. DW2	76	96.240	-0.300	0.000	0.00			0.0	OK	
2.001	Ex. AM11	31	96.202	-0.238	0.000	0.06			2.3	OK	
3.000	SIC 01 (connection to RWHT)	10	98.632	0.982	0.000	0.32			8.9	SURCHARGED	
3.001	MH01	10	98.631	1.006	0.000	0.02			7.5	SURCHARGED	
3.002	FC 01	10	98.631	1.564	0.000	0.06			2.0	SURCHARGED	
2.002	Ex. IA01	29	96.178	-0.223	0.000	0.12			4.9	OK	
2.003	Ex. AM03	29	96.134	-0.225	0.000	0.09			4.9	OK	
2.004	Ex. AM04	29	96.131	-0.217	0.000	0.13			5.8	OK	
2.005	Ex. AM02	29	96.091	-0.208	0.000	0.19			6.1	OK	
2.006	Ex. M162/0210	29	96.047	-0.223	0.000	0.14			6.4	OK	
2.007	Ex. M162/0205	29	95.986	-0.226	0.000	0.14			6.5	OK	
2.008	Ex. M162/0206	29	95.965	-0.226	0.000	0.14			6.5	OK	
1.005	Ex. Pump Sump	28	95.862	-0.199	0.000	0.25			21.2	OK	

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Summary Wizard of 180 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	39	96.822	-0.228	0.000	0.12		7.9	OK	

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Summary Wizard of 180 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	38	96.765	-0.165	0.000	0.40		11.9	OK
1.002	Ex. IA07	35	96.736	-0.174	0.000	0.27		14.3	OK
1.003	Tank	35	96.723	-0.106	0.000	0.19	36	13.7	OK
1.004	Ex. M16/0237	35	96.532	-0.203	0.000	0.23		13.7	OK
2.000	Ex. DW2	77	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	39	96.193	-0.247	0.000	0.05		1.7	OK
3.000	SIC 01 (connection to RWHT)	11	98.589	0.939	0.000	0.25		6.9	SURCHARGED
3.001	MH01	11	98.588	0.963	0.000	0.02		5.8	SURCHARGED
3.002	FC 01	11	98.588	1.521	0.000	0.06		2.0	SURCHARGED
2.002	Ex. IA01	39	96.170	-0.230	0.000	0.10		4.0	OK
2.003	Ex. AM03	38	96.126	-0.233	0.000	0.08		4.0	OK
2.004	Ex. AM04	38	96.121	-0.227	0.000	0.11		4.7	OK
2.005	Ex. AM02	38	96.081	-0.218	0.000	0.16		5.0	OK
2.006	Ex. M162/0210	38	96.039	-0.231	0.000	0.12		5.3	OK
2.007	Ex. M162/0205	38	95.978	-0.233	0.000	0.11		5.3	OK
2.008	Ex. M162/0206	38	95.958	-0.233	0.000	0.11		5.3	OK
1.005	Ex. Pump Sump	37	95.856	-0.205	0.000	0.22		18.9	OK

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Summary Wizard of 240 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	47	96.813	-0.237	0.000	0.10		6.4	OK	

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Summary Wizard of 240 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
1.001	Ex. IA06	47	96.747	-0.183	0.000	0.33			9.7	OK
1.002	Ex. IA07	45	96.710	-0.200	0.000	0.22			11.7	OK
1.003	Tank	42	96.688	-0.141	0.000	0.16		52	11.4	OK
1.004	Ex. M16/0237	42	96.524	-0.212	0.000	0.19			11.4	OK
2.000	Ex. DW2	78	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	47	96.188	-0.252	0.000	0.04			1.4	OK
3.000	SIC 01 (connection to RWHT)	16	98.468	0.818	0.000	0.20			5.6	SURCHARGED
3.001	MH01	16	98.467	0.842	0.000	0.02			4.8	SURCHARGED
3.002	FC 01	16	98.467	1.400	0.000	0.05			1.9	SURCHARGED
2.002	Ex. IA01	47	96.165	-0.235	0.000	0.09			3.5	OK
2.003	Ex. AM03	47	96.120	-0.239	0.000	0.07			3.5	OK
2.004	Ex. AM04	47	96.116	-0.232	0.000	0.09			4.1	OK
2.005	Ex. AM02	47	96.075	-0.224	0.000	0.14			4.3	OK
2.006	Ex. M162/0210	47	96.034	-0.236	0.000	0.10			4.5	OK
2.007	Ex. M162/0205	47	95.974	-0.238	0.000	0.10			4.5	OK
2.008	Ex. M162/0206	47	95.954	-0.238	0.000	0.10			4.5	OK
1.005	Ex. Pump Sump	42	95.848	-0.213	0.000	0.19			15.9	OK

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Summary Wizard of 360 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	59	96.803	-0.247	0.000	0.07		4.7	OK

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Summary Wizard of 360 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow Cap.				
1.001	Ex. IA06	58	96.729	-0.201	0.000	0.24		7.1	OK	
1.002	Ex. IA07	58	96.690	-0.220	0.000	0.16		8.6	OK	
1.003	Tank	57	96.651	-0.178	0.000	0.12	90	8.6	OK	
1.004	Ex. M16/0237	57	96.511	-0.225	0.000	0.14		8.6	OK	
2.000	Ex. DW2	79	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	59	96.181	-0.259	0.000	0.03		1.0	OK	
3.000	SIC 01 (connection to RWHT)	24	98.168	0.518	0.000	0.15		4.1	SURCHARGED	
3.001	MH01	24	98.166	0.542	0.000	0.01		3.6	SURCHARGED	
3.002	FC 01	24	98.167	1.100	0.000	0.05		1.7	SURCHARGED	
2.002	Ex. IA01	60	96.159	-0.241	0.000	0.07		2.9	OK	
2.003	Ex. AM03	60	96.114	-0.245	0.000	0.05		2.9	OK	
2.004	Ex. AM04	60	96.109	-0.239	0.000	0.08		3.3	OK	
2.005	Ex. AM02	60	96.068	-0.231	0.000	0.11		3.5	OK	
2.006	Ex. M162/0210	60	96.028	-0.243	0.000	0.08		3.6	OK	
2.007	Ex. M162/0205	60	95.967	-0.245	0.000	0.08		3.6	OK	
2.008	Ex. M162/0206	60	95.946	-0.245	0.000	0.08		3.6	OK	
1.005	Ex. Pump Sump	58	95.836	-0.225	0.000	0.14		12.2	OK	

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Summary Wizard of 480 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	69	96.796	-0.254	0.000	0.06		3.7	OK	

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Summary Wizard of 480 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	69	96.718	-0.212	0.000	0.19		5.6	OK
1.002	Ex. IA07	69	96.681	-0.229	0.000	0.13		6.8	OK
1.003	Tank	68	96.635	-0.194	0.000	0.10	120	6.8	OK
1.004	Ex. M16/0237	68	96.503	-0.233	0.000	0.11		6.8	OK
2.000	Ex. DW2	80	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	69	96.176	-0.264	0.000	0.02		0.8	OK
3.000	SIC 01 (connection to RWHT)	38	97.853	0.203	0.000	0.12		3.3	SURCHARGED
3.001	MH01	38	97.852	0.227	0.000	0.01		2.9	SURCHARGED
3.002	FC 01	38	97.852	0.785	0.000	0.04		1.5	SURCHARGED
2.002	Ex. IA01	71	96.155	-0.245	0.000	0.07		2.6	OK
2.003	Ex. AM03	71	96.109	-0.250	0.000	0.05		2.6	OK
2.004	Ex. AM04	71	96.105	-0.243	0.000	0.07		2.9	OK
2.005	Ex. AM02	70	96.063	-0.236	0.000	0.10		3.0	OK
2.006	Ex. M162/0210	70	96.023	-0.247	0.000	0.07		3.1	OK
2.007	Ex. M162/0205	70	95.962	-0.249	0.000	0.07		3.1	OK
2.008	Ex. M162/0206	70	95.942	-0.249	0.000	0.07		3.1	OK
1.005	Ex. Pump Sump	69	95.828	-0.233	0.000	0.12		9.9	OK

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Summary Wizard of 600 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	78	96.792	-0.258	0.000	0.05		3.1	OK	

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Summary Wizard of 600 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.001	Ex. IA06	78	96.709	-0.221	0.000	0.16		4.7	OK
1.002	Ex. IA07	78	96.675	-0.235	0.000	0.11		5.7	OK
1.003	Tank	78	96.623	-0.206	0.000	0.08	150	5.6	OK
1.004	Ex. M16/0237	78	96.497	-0.238	0.000	0.09		5.6	OK
2.000	Ex. DW2	64	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	79	96.174	-0.266	0.000	0.02		0.7	OK
3.000	SIC 01 (connection to RWHT)	48	97.602	-0.048	0.000	0.10		2.7	OK
3.001	MH01	48	97.602	-0.023	0.000	0.01		2.5	OK
3.002	FC 01	48	97.602	0.535	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	79	96.153	-0.248	0.000	0.06		2.4	OK
2.003	Ex. AM03	78	96.107	-0.252	0.000	0.05		2.4	OK
2.004	Ex. AM04	78	96.102	-0.246	0.000	0.06		2.7	OK
2.005	Ex. AM02	78	96.061	-0.238	0.000	0.09		2.8	OK
2.006	Ex. M162/0210	78	96.020	-0.250	0.000	0.06		2.9	OK
2.007	Ex. M162/0205	78	95.960	-0.252	0.000	0.06		2.9	OK
2.008	Ex. M162/0206	78	95.940	-0.252	0.000	0.06		2.9	OK
1.005	Ex. Pump Sump	79	95.824	-0.237	0.000	0.10		8.5	OK

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Summary Wizard of 720 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	83	96.789	-0.261	0.000	0.04		2.6	OK

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Summary Wizard of 720 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow Cap.				
1.001	Ex. IA06	83	96.703	-0.227	0.000	0.13		4.0	OK	
1.002	Ex. IA07	83	96.670	-0.240	0.000	0.09		4.8	OK	
1.003	Tank	82	96.615	-0.214	0.000	0.07	180	4.8	OK	
1.004	Ex. M16/0237	82	96.492	-0.243	0.000	0.08		4.8	OK	
2.000	Ex. DW2	72	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	83	96.172	-0.268	0.000	0.02		0.6	OK	
3.000	SIC 01 (connection to RWHT)	84	97.468	-0.182	0.000	0.08		2.3	OK	
3.001	MH01	57	97.461	-0.164	0.000	0.01		2.2	OK	
3.002	FC 01	57	97.462	0.395	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	83	96.151	-0.249	0.000	0.06		2.3	OK	
2.003	Ex. AM03	83	96.106	-0.253	0.000	0.04		2.3	OK	
2.004	Ex. AM04	83	96.101	-0.247	0.000	0.06		2.5	OK	
2.005	Ex. AM02	83	96.060	-0.240	0.000	0.08		2.6	OK	
2.006	Ex. M162/0210	82	96.019	-0.251	0.000	0.06		2.7	OK	
2.007	Ex. M162/0205	82	95.958	-0.253	0.000	0.06		2.7	OK	
2.008	Ex. M162/0206	83	95.938	-0.254	0.000	0.06		2.7	OK	
1.005	Ex. Pump Sump	82	95.821	-0.240	0.000	0.09		7.5	OK	

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Summary Wizard of 960 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	94	96.785	-0.265	0.000	0.03		2.0	OK

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Summary Wizard of 960 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow Cap.				
1.001	Ex. IA06	94	96.695	-0.235	0.000	0.10		3.1	OK	
1.002	Ex. IA07	94	96.662	-0.248	0.000	0.07		3.8	OK	
1.003	Tank	92	96.604	-0.225	0.000	0.05	240	3.7	OK	
1.004	Ex. M16/0237	92	96.484	-0.252	0.000	0.06		3.7	OK	
2.000	Ex. DW2	63	96.240	-0.300	0.000	0.00		0.0	OK	
2.001	Ex. AM11	92	96.169	-0.271	0.000	0.01		0.4	OK	
3.000	SIC 01 (connection to RWHT)	94	97.462	-0.188	0.000	0.06		1.8	OK	
3.001	MH01	77	97.167	-0.458	0.000	0.01		1.7	OK	
3.002	FC 01	77	97.167	0.100	0.000	0.04		1.4	SURCHARGED	
2.002	Ex. IA01	92	96.149	-0.252	0.000	0.05		2.1	OK	
2.003	Ex. AM03	92	96.103	-0.256	0.000	0.04		2.1	OK	
2.004	Ex. AM04	92	96.098	-0.250	0.000	0.05		2.3	OK	
2.005	Ex. AM02	92	96.056	-0.243	0.000	0.07		2.4	OK	
2.006	Ex. M162/0210	92	96.016	-0.254	0.000	0.05		2.4	OK	
2.007	Ex. M162/0205	92	95.955	-0.256	0.000	0.05		2.4	OK	
2.008	Ex. M162/0206	92	95.935	-0.256	0.000	0.05		2.4	OK	
1.005	Ex. Pump Sump	92	95.814	-0.247	0.000	0.07		6.2	OK	

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Summary Wizard of 1440 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	106	96.780	-0.270	0.000	0.02		1.4	OK

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Summary Wizard of 1440 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	106	96.684	-0.246	0.000	0.07		2.2	OK
1.002	Ex. IA07	106	96.652	-0.258	0.000	0.05		2.6	OK
1.003	Tank	106	96.590	-0.239	0.000	0.04	384	2.6	OK
1.004	Ex. M16/0237	106	96.475	-0.260	0.000	0.04		2.6	OK
2.000	Ex. DW2	52	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	106	96.161	-0.279	0.000	0.01		0.3	OK
3.000	SIC 01 (connection to RWHT)	106	97.455	-0.195	0.000	0.04		1.3	OK
3.001	MH01	106	96.947	-0.678	0.000	0.00		1.2	OK
3.002	FC 01	106	96.944	-0.123	0.000	0.04		1.2	OK
2.002	Ex. IA01	106	96.143	-0.257	0.000	0.04		1.7	OK
2.003	Ex. AM03	106	96.097	-0.262	0.000	0.03		1.7	OK
2.004	Ex. AM04	106	96.091	-0.257	0.000	0.04		1.8	OK
2.005	Ex. AM02	106	96.049	-0.250	0.000	0.06		1.9	OK
2.006	Ex. M162/0210	106	96.011	-0.259	0.000	0.04		1.9	OK
2.007	Ex. M162/0205	106	95.951	-0.261	0.000	0.04		1.9	OK
2.008	Ex. M162/0206	106	95.931	-0.261	0.000	0.04		1.9	OK
1.005	Ex. Pump-Sump	106	95.805	-0.256	0.000	0.05		4.5	OK

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Summary Wizard of 2160 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	120	96.772	-0.278	0.000	0.02		1.0	OK

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Summary Wizard of 2160 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (1/s)	Half Drain Time (mins)	Pipe Flow (1/s)	Status
1.001	Ex. IA06	120	96.675	-0.255	0.000	0.05			1.5	OK
1.002	Ex. IA07	120	96.645	-0.264	0.000	0.03			1.8	OK
1.003	Tank	120	96.579	-0.250	0.000	0.03		552	1.8	OK
1.004	Ex. M16/0237	120	96.470	-0.266	0.000	0.03			1.8	OK
2.000	Ex. DW2	45	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	120	96.155	-0.285	0.000	0.01			0.2	OK
3.000	SIC 01 (connection to RWHT)	120	97.451	-0.199	0.000	0.03			0.9	OK
3.001	MH01	120	96.907	-0.718	0.000	0.00			0.9	OK
3.002	FC 01	120	96.902	-0.165	0.000	0.02			0.9	OK
2.002	Ex. IA01	120	96.137	-0.263	0.000	0.03			1.2	OK
2.003	Ex. AM03	120	96.091	-0.268	0.000	0.02			1.2	OK
2.004	Ex. AM04	120	96.085	-0.263	0.000	0.03			1.3	OK
2.005	Ex. AM02	120	96.041	-0.258	0.000	0.04			1.3	OK
2.006	Ex. M162/0210	120	96.005	-0.265	0.000	0.03			1.4	OK
2.007	Ex. M162/0205	120	95.945	-0.266	0.000	0.03			1.4	OK
2.008	Ex. M162/0206	120	95.925	-0.266	0.000	0.03			1.4	OK
1.005	Ex. Pump-Sump	120	95.798	-0.263	0.000	0.04			3.2	OK

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Summary Wizard of 2880 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	128	96.767	-0.283	0.000	0.01		0.8	OK	

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Summary Wizard of 2880 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	128	96.670	-0.260	0.000	0.04		1.2	OK
1.002	Ex. IA07	128	96.642	-0.268	0.000	0.03		1.4	OK
1.003	Tank	128	96.573	-0.256	0.000	0.02	744	1.4	OK
1.004	Ex. M16/0237	128	96.466	-0.269	0.000	0.02		1.4	OK
2.000	Ex. DW2	46	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	128	96.151	-0.289	0.000	0.00		0.2	OK
3.000	SIC 01 (connection to RWHT)	128	97.448	-0.202	0.000	0.02		0.7	OK
3.001	MH01	128	96.897	-0.728	0.000	0.00		0.7	OK
3.002	FC 01	128	96.889	-0.178	0.000	0.02		0.7	OK
2.002	Ex. IA01	128	96.133	-0.267	0.000	0.02		0.9	OK
2.003	Ex. AM03	128	96.087	-0.272	0.000	0.02		0.9	OK
2.004	Ex. AM04	128	96.081	-0.267	0.000	0.02		1.0	OK
2.005	Ex. AM02	128	96.037	-0.262	0.000	0.03		1.0	OK
2.006	Ex. M162/0210	128	96.002	-0.268	0.000	0.02		1.1	OK
2.007	Ex. M162/0205	128	95.942	-0.269	0.000	0.02		1.1	OK
2.008	Ex. M162/0206	128	95.922	-0.269	0.000	0.02		1.1	OK
1.005	Ex. Pump-Sump	128	95.794	-0.267	0.000	0.03		2.4	OK

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Summary Wizard of 4320 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	140	96.762	-0.288	0.000	0.01	0.5	OK	

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Summary Wizard of 4320 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	140	96.664	-0.266	0.000	0.03		0.8	OK
1.002	Ex. IA07	140	96.636	-0.274	0.000	0.02		1.0	OK
1.003	Tank	140	96.565	-0.264	0.000	0.01	1080	1.0	OK
1.004	Ex. M16/0237	140	96.459	-0.277	0.000	0.02		1.0	OK
2.000	Ex. DW2	47	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	140	96.148	-0.292	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	140	97.443	-0.207	0.000	0.02		0.5	OK
3.001	MH01	140	96.888	-0.736	0.000	0.00		0.5	OK
3.002	FC 01	140	96.879	-0.188	0.000	0.01		0.5	OK
2.002	Ex. IA01	140	96.128	-0.273	0.000	0.02		0.7	OK
2.003	Ex. AM03	140	96.081	-0.278	0.000	0.01		0.7	OK
2.004	Ex. AM04	140	96.075	-0.273	0.000	0.02		0.7	OK
2.005	Ex. AM02	140	96.031	-0.268	0.000	0.02		0.7	OK
2.006	Ex. M162/0210	140	95.994	-0.276	0.000	0.02		0.7	OK
2.007	Ex. M162/0205	140	95.934	-0.278	0.000	0.02		0.7	OK
2.008	Ex. M162/0206	140	95.914	-0.278	0.000	0.02		0.7	OK
1.005	Ex. Pump-Sump	140	95.789	-0.272	0.000	0.02		1.7	OK

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Summary Wizard of 5760 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	147	96.759	-0.291	0.000	0.01		0.4	OK

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Summary Wizard of 5760 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	147	96.660	-0.270	0.000	0.02		0.6	OK
1.002	Ex. IA07	147	96.630	-0.280	0.000	0.01		0.8	OK
1.003	Tank	147	96.561	-0.268	0.000	0.01	1416	0.8	OK
1.004	Ex. M16/0237	147	96.453	-0.282	0.000	0.01		0.8	OK
2.000	Ex. DW2	48	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	147	96.145	-0.295	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	147	97.439	-0.211	0.000	0.01		0.4	OK
3.001	MH01	147	96.885	-0.740	0.000	0.00		0.4	OK
3.002	FC 01	147	96.874	-0.193	0.000	0.01		0.4	OK
2.002	Ex. IA01	147	96.122	-0.279	0.000	0.01		0.5	OK
2.003	Ex. AM03	147	96.076	-0.283	0.000	0.01		0.5	OK
2.004	Ex. AM04	147	96.070	-0.278	0.000	0.01		0.5	OK
2.005	Ex. AM02	147	96.027	-0.272	0.000	0.02		0.6	OK
2.006	Ex. M162/0210	147	95.989	-0.281	0.000	0.01		0.6	OK
2.007	Ex. M162/0205	147	95.929	-0.282	0.000	0.01		0.6	OK
2.008	Ex. M162/0206	147	95.909	-0.283	0.000	0.01		0.6	OK
1.005	Ex. Pump-Sump	147	95.783	-0.278	0.000	0.02		1.3	OK

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Summary Wizard of 15 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40


WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 15 minute 200 year Winter I+40% for Storm


US/MH	Storm	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	Half Drain Time	Pipe Flow	Status
PN Name	Rank	(m)	(m)	(m ³)	Cap. (l/s)	(mins)	(l/s)	

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Summary Wizard of 15 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	Ex. AM08	2	97.776	0.726	0.000	0.55			35.0	SURCHARGED
1.001	Ex. IA06	2	97.750	0.820	0.000	1.77			52.9	FLOOD RISK
1.002	Ex. IA07	2	97.731	0.821	1.872	1.19			64.0	FLOOD
1.003	Tank	3	97.729	0.900	0.033	0.24		20	17.0	FLOOD
1.004	Ex. M16/0237	2	96.544	-0.191	0.000	0.28			17.0	OK
2.000	Ex. DW2	1	96.258	-0.282	0.000	0.00			0.1	OK
2.001	Ex. AM11	1	96.263	-0.177	0.000	0.22			8.5	OK
3.000	SIC 01 (connection to RWHT)	23	98.185	0.535	0.000	1.17			32.7	SURCHARGED
3.001	MH01	23	98.183	0.558	0.000	0.09			27.2	SURCHARGED
3.002	FC 01	23	98.183	1.116	0.000	0.05			1.7	SURCHARGED
2.002	Ex. IA01	1	96.238	-0.162	0.000	0.36			14.0	OK
2.003	Ex. AM03	1	96.198	-0.161	0.000	0.26			13.5	OK
2.004	Ex. AM04	1	96.195	-0.153	0.000	0.37			16.2	OK
2.005	Ex. AM02	1	96.156	-0.143	0.000	0.54			17.1	OK
2.006	Ex. M162/0210	1	96.101	-0.169	0.000	0.39			17.4	OK
2.007	Ex. M162/0205	1	96.038	-0.174	0.000	0.37			17.2	OK
2.008	Ex. M162/0206	1	96.017	-0.174	0.000	0.37			17.2	OK
1.005	Ex. Pump-Sump	1	95.892	-0.169	0.000	0.40			34.1	OK

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Summary Wizard of 30 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40


WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 30 minute 200 year Winter I+40% for Storm


US/MH	Storm	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	Half Drain Time	Pipe Flow	Status
PN Name	Rank	(m)	(m)	(m ³)	Cap. (l/s)	(mins)	(l/s)	

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Summary Wizard of 30 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Time (mins)	Flow (l/s)	
1.000	Ex. AM08	1	97.777	0.727	0.000	0.42			27.2	SURCHARGED
1.001	Ex. IA06	1	97.750	0.820	0.000	1.37			40.8	FLOOD RISK
1.002	Ex. IA07	1	97.732	0.822	2.854	0.87			46.4	FLOOD
1.003	Tank	1	97.729	0.900	0.036	0.24		16	17.0	FLOOD
1.004	Ex. M16/0237	1	96.544	-0.191	0.000	0.28			17.0	OK
2.000	Ex. DW2	6	96.242	-0.298	0.000	0.00			0.0	OK
2.001	Ex. AM11	6	96.245	-0.195	0.000	0.17			6.3	OK
3.000	SIC 01 (connection to RWHT)	9	98.712	1.062	0.000	0.90			25.2	SURCHARGED
3.001	MH01	9	98.710	1.085	0.000	0.07			20.5	SURCHARGED
3.002	FC 01	9	98.710	1.643	0.000	0.06			2.0	SURCHARGED
2.002	Ex. IA01	6	96.222	-0.178	0.000	0.28			11.1	OK
2.003	Ex. AM03	6	96.181	-0.178	0.000	0.21			11.0	OK
2.004	Ex. AM04	6	96.178	-0.170	0.000	0.31			13.3	OK
2.005	Ex. AM02	6	96.139	-0.160	0.000	0.44			14.2	OK
2.006	Ex. M162/0210	6	96.089	-0.181	0.000	0.33			14.6	OK
2.007	Ex. M162/0205	5	96.026	-0.185	0.000	0.31			14.5	OK
2.008	Ex. M162/0206	5	96.006	-0.186	0.000	0.31			14.5	OK
1.005	Ex. Pump-Sump	4	95.887	-0.174	0.000	0.37			31.5	OK

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Summary Wizard of 60 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	4	97.674	0.624	0.000	0.27		17.6	SURCHARGED

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Summary Wizard of 60 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.001	Ex. IA06	4	97.662	0.732	0.000	0.81	24.2	FLOOD RISK	
1.002	Ex. IA07	4	97.653	0.743	0.000	0.54	28.8	FLOOD RISK	
1.003	Tank	4	97.643	0.814	0.000	0.23	26	16.4 FLOOD RISK	
1.004	Ex. M16/0237	4	96.542	-0.194	0.000	0.27	16.4	OK	
2.000	Ex. DW2	49	96.240	-0.300	0.000	0.00	0.0	OK	
2.001	Ex. AM11	15	96.224	-0.216	0.000	0.11	4.1	OK	
3.000	SIC 01 (connection to RWHT)	4	98.999	1.349	0.000	0.57	16.0	FLOOD RISK	
3.001	MH01	4	98.998	1.373	0.000	0.04	12.7	FLOOD RISK	
3.002	FC 01	4	98.998	1.931	0.000	0.06	2.2	FLOOD RISK	
2.002	Ex. IA01	15	96.200	-0.200	0.000	0.20	7.8	OK	
2.003	Ex. AM03	15	96.158	-0.201	0.000	0.15	7.7	OK	
2.004	Ex. AM04	15	96.155	-0.193	0.000	0.22	9.4	OK	
2.005	Ex. AM02	15	96.116	-0.183	0.000	0.31	10.0	OK	
2.006	Ex. M162/0210	15	96.069	-0.201	0.000	0.23	10.5	OK	
2.007	Ex. M162/0205	15	96.008	-0.204	0.000	0.23	10.5	OK	
2.008	Ex. M162/0206	15	95.987	-0.204	0.000	0.22	10.5	OK	
1.005	Ex. Pump Sump	15	95.872	-0.189	0.000	0.30	25.4	OK	

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Summary Wizard of 120 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40


WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 120 minute 200 year Winter I+40% for Storm


PN	Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (1/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (1/s)	Overflow (1/s)			

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Summary Wizard of 120 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
1.000	Ex. AM08	18	96.943	-0.107	0.000	0.19			12.0	OK
1.001	Ex. IA06	16	96.932	0.002	0.000	0.56			16.9	SURCHARGED
1.002	Ex. IA07	16	96.924	0.014	0.000	0.38			20.1	SURCHARGED
1.003	Tank	16	96.915	0.086	0.000	0.21		28	15.0	SURCHARGED
1.004	Ex. M16/0237	16	96.537	-0.199	0.000	0.25			15.0	OK
2.000	Ex. DW2	50	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	26	96.208	-0.232	0.000	0.07			2.7	OK
3.000	SIC 01 (connection to RWHT)	2	99.166	1.516	0.776	0.36			10.1	FLOOD
3.001	MH01	2	99.165	1.540	0.337	0.03			8.0	FLOOD
3.002	FC 01	2	99.165	2.098	1.025	0.06			2.2	FLOOD
2.002	Ex. IA01	24	96.185	-0.215	0.000	0.15			5.7	OK
2.003	Ex. AM03	24	96.142	-0.217	0.000	0.11			5.7	OK
2.004	Ex. AM04	24	96.139	-0.209	0.000	0.16			6.8	OK
2.005	Ex. AM02	24	96.098	-0.201	0.000	0.23			7.3	OK
2.006	Ex. M162/0210	24	96.054	-0.216	0.000	0.17			7.6	OK
2.007	Ex. M162/0205	24	95.992	-0.219	0.000	0.16			7.6	OK
2.008	Ex. M162/0206	25	95.972	-0.220	0.000	0.16			7.6	OK
1.005	Ex. Pump-Sump	23	95.865	-0.196	0.000	0.26			22.6	OK

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Summary Wizard of 180 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40


WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 180 minute 200 year Winter I+40% for Storm


US/MH	Storm	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	Half Drain Time	Pipe Flow	Status
PN Name	Rank	(m)	(m)	(m ³)	Cap. (l/s)	(mins)	(l/s)	

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Summary Wizard of 180 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	Ex. AM08	31	96.839	-0.211	0.000	0.15		9.4	OK
1.001	Ex. IA06	28	96.808	-0.122	0.000	0.47		14.0	OK
1.002	Ex. IA07	25	96.795	-0.115	0.000	0.31		16.7	OK
1.003	Tank	25	96.786	-0.043	0.000	0.21	27	14.7	OK
1.004	Ex. M16/0237	25	96.536	-0.199	0.000	0.25		14.7	OK
2.000	Ex. DW2	51	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	32	96.200	-0.240	0.000	0.05		2.1	OK
3.000	SIC 01 (connection to RWHT)	1	99.166	1.516	0.987	0.28		7.8	FLOOD
3.001	MH01	1	99.165	1.540	0.532	0.02		6.3	FLOOD
3.002	FC 01	1	99.165	2.098	0.499	0.06		2.2	FLOOD
2.002	Ex. IA01	32	96.177	-0.223	0.000	0.12		4.9	OK
2.003	Ex. AM03	31	96.133	-0.226	0.000	0.09		4.9	OK
2.004	Ex. AM04	31	96.129	-0.219	0.000	0.13		5.7	OK
2.005	Ex. AM02	31	96.089	-0.210	0.000	0.19		6.0	OK
2.006	Ex. M162/0210	31	96.046	-0.225	0.000	0.14		6.3	OK
2.007	Ex. M162/0205	31	95.985	-0.227	0.000	0.14		6.3	OK
2.008	Ex. M162/0206	31	95.964	-0.227	0.000	0.13		6.3	OK
1.005	Ex. Pump-Sump	31	95.861	-0.200	0.000	0.25		21.0	OK

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Summary Wizard of 240 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40


WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 240 minute 200 year Winter I+40% for Storm


PN	Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	

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Summary Wizard of 240 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	Ex. AM08	40	96.821	-0.229	0.000	0.12		7.7	OK
1.001	Ex. IA06	39	96.764	-0.166	0.000	0.39		11.6	OK
1.002	Ex. IA07	36	96.736	-0.174	0.000	0.26		14.0	OK
1.003	Tank	36	96.722	-0.107	0.000	0.19	48	13.6	OK
1.004	Ex. M16/0237	36	96.532	-0.203	0.000	0.23		13.7	OK
2.000	Ex. DW2	53	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	38	96.193	-0.247	0.000	0.04		1.7	OK
3.000	SIC 01 (connection to RWHT)	3	99.165	1.515	0.217	0.23		6.4	FLOOD
3.001	MH01	3	99.165	1.540	0.049	0.02		5.3	FLOOD
3.002	FC 01	3	99.165	2.098	0.161	0.06		2.2	FLOOD
2.002	Ex. IA01	34	96.172	-0.228	0.000	0.11		4.3	OK
2.003	Ex. AM03	36	96.127	-0.232	0.000	0.08		4.3	OK
2.004	Ex. AM04	36	96.123	-0.225	0.000	0.11		4.9	OK
2.005	Ex. AM02	36	96.083	-0.216	0.000	0.16		5.2	OK
2.006	Ex. M162/0210	37	96.040	-0.230	0.000	0.12		5.4	OK
2.007	Ex. M162/0205	36	95.979	-0.232	0.000	0.12		5.4	OK
2.008	Ex. M162/0206	36	95.959	-0.232	0.000	0.12		5.4	OK
1.005	Ex. Pump-Sump	36	95.856	-0.205	0.000	0.22		19.1	OK

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Summary Wizard of 360 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	51	96.810	-0.240	0.000	0.09		5.7	OK

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Summary Wizard of 360 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	50	96.740	-0.190	0.000	0.29		8.6	OK
1.002	Ex. IA07	50	96.699	-0.211	0.000	0.19		10.5	OK
1.003	Tank	47	96.670	-0.159	0.000	0.15	84	10.3	OK
1.004	Ex. M16/0237	47	96.519	-0.217	0.000	0.17		10.3	OK
2.000	Ex. DW2	61	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	50	96.186	-0.254	0.000	0.03		1.2	OK
3.000	SIC 01 (connection to RWHT)	5	98.873	1.223	0.000	0.17		4.8	FLOOD RISK
3.001	MH01	5	98.872	1.247	0.000	0.01		4.1	FLOOD RISK
3.002	FC 01	5	98.872	1.805	0.000	0.06		2.1	FLOOD RISK
2.002	Ex. IA01	46	96.166	-0.235	0.000	0.09		3.6	OK
2.003	Ex. AM03	48	96.120	-0.239	0.000	0.07		3.6	OK
2.004	Ex. AM04	48	96.116	-0.232	0.000	0.09		4.0	OK
2.005	Ex. AM02	49	96.075	-0.224	0.000	0.13		4.2	OK
2.006	Ex. M162/0210	49	96.034	-0.236	0.000	0.10		4.4	OK
2.007	Ex. M162/0205	49	95.973	-0.238	0.000	0.09		4.4	OK
2.008	Ex. M162/0206	49	95.953	-0.239	0.000	0.09		4.4	OK
1.005	Ex. Pump Sump	48	95.844	-0.217	0.000	0.17		14.7	OK

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Summary Wizard of 480 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	60	96.802	-0.248	0.000	0.07		4.5	OK	

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Summary Wizard of 480 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.				Overflow (l/s)
1.001	Ex. IA06	60	96.727	-0.203	0.000	0.23		6.9	OK
1.002	Ex. IA07	60	96.688	-0.222	0.000	0.15		8.3	OK
1.003	Tank	59	96.648	-0.181	0.000	0.12	120	8.3	OK
1.004	Ex. M16/0237	59	96.509	-0.226	0.000	0.14		8.3	OK
2.000	Ex. DW2	54	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	60	96.181	-0.259	0.000	0.03		1.0	OK
3.000	SIC 01 (connection to RWHT)	14	98.528	0.878	0.000	0.14		3.9	SURCHARGED
3.001	MH01	14	98.526	0.902	0.000	0.01		3.4	SURCHARGED
3.002	FC 01	14	98.526	1.459	0.000	0.06		1.9	SURCHARGED
2.002	Ex. IA01	56	96.161	-0.239	0.000	0.08		3.1	OK
2.003	Ex. AM03	58	96.115	-0.244	0.000	0.06		3.1	OK
2.004	Ex. AM04	58	96.110	-0.238	0.000	0.08		3.4	OK
2.005	Ex. AM02	58	96.069	-0.230	0.000	0.11		3.6	OK
2.006	Ex. M162/0210	58	96.029	-0.242	0.000	0.08		3.7	OK
2.007	Ex. M162/0205	58	95.967	-0.244	0.000	0.08		3.7	OK
2.008	Ex. M162/0206	58	95.947	-0.244	0.000	0.08		3.7	OK
1.005	Ex. Pump Sump	59	95.835	-0.226	0.000	0.14		11.8	OK

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Summary Wizard of 600 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Overflow (l/s)				
1.000	Ex. AM08	68	96.797	-0.253	0.000	0.06		3.7	OK	

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Summary Wizard of 600 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
1.001	Ex. IA06	68	96.718	-0.212	0.000	0.19			5.7	OK
1.002	Ex. IA07	68	96.681	-0.229	0.000	0.13			6.9	OK
1.003	Tank	67	96.635	-0.194	0.000	0.10		150	6.9	OK
1.004	Ex. M16/0237	67	96.503	-0.233	0.000	0.11			6.9	OK
2.000	Ex. DW2	55	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	68	96.177	-0.263	0.000	0.02			0.8	OK
3.000	SIC 01 (connection to RWHT)	22	98.206	0.556	0.000	0.12			3.3	SURCHARGED
3.001	MH01	22	98.205	0.580	0.000	0.01			2.9	SURCHARGED
3.002	FC 01	22	98.205	1.138	0.000	0.05			1.8	SURCHARGED
2.002	Ex. IA01	67	96.157	-0.244	0.000	0.07			2.7	OK
2.003	Ex. AM03	68	96.111	-0.248	0.000	0.05			2.7	OK
2.004	Ex. AM04	68	96.106	-0.242	0.000	0.07			3.0	OK
2.005	Ex. AM02	68	96.064	-0.235	0.000	0.10			3.1	OK
2.006	Ex. M162/0210	68	96.024	-0.247	0.000	0.07			3.2	OK
2.007	Ex. M162/0205	68	95.963	-0.249	0.000	0.07			3.2	OK
2.008	Ex. M162/0206	68	95.942	-0.249	0.000	0.07			3.2	OK
1.005	Ex. Pump Sump	68	95.829	-0.232	0.000	0.12			10.0	OK

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Summary Wizard of 720 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	76	96.793	-0.257	0.000	0.05	3.2	OK	

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Summary Wizard of 720 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume Flow (m ³) Cap.				
1.001	Ex. IA06	76	96.710	-0.220	0.000	0.16		4.9	OK
1.002	Ex. IA07	76	96.676	-0.234	0.000	0.11		5.9	OK
1.003	Tank	73	96.626	-0.203	0.000	0.08	180	5.9	OK
1.004	Ex. M16/0237	73	96.498	-0.237	0.000	0.10		5.9	OK
2.000	Ex. DW2	56	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	77	96.174	-0.266	0.000	0.02		0.7	OK
3.000	SIC 01 (connection to RWHT)	34	97.910	0.260	0.000	0.10		2.8	SURCHARGED
3.001	MH01	34	97.909	0.284	0.000	0.01		2.6	SURCHARGED
3.002	FC 01	34	97.909	0.842	0.000	0.05		1.6	SURCHARGED
2.002	Ex. IA01	80	96.152	-0.248	0.000	0.06		2.4	OK
2.003	Ex. AM03	80	96.107	-0.252	0.000	0.05		2.4	OK
2.004	Ex. AM04	80	96.102	-0.246	0.000	0.06		2.7	OK
2.005	Ex. AM02	79	96.061	-0.238	0.000	0.09		2.8	OK
2.006	Ex. M162/0210	79	96.020	-0.250	0.000	0.06		2.9	OK
2.007	Ex. M162/0205	79	95.960	-0.252	0.000	0.06		2.9	OK
2.008	Ex. M162/0206	79	95.940	-0.252	0.000	0.06		2.9	OK
1.005	Ex. Pump Sump	75	95.825	-0.236	0.000	0.10		8.7	OK

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Summary Wizard of 960 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	Ex. AM08	86	96.788	-0.262	0.000	0.04		2.5	OK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	Surrey Quays Station Upgrade Station Drainage	
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Summary Wizard of 960 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.001	Ex. IA06	86	96.701	-0.229	0.000	0.13		3.8	OK
1.002	Ex. IA07	86	96.668	-0.242	0.000	0.08		4.6	OK
1.003	Tank	85	96.612	-0.217	0.000	0.06	240	4.6	OK
1.004	Ex. M16/0237	85	96.490	-0.246	0.000	0.08		4.6	OK
2.000	Ex. DW2	57	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	87	96.171	-0.269	0.000	0.01		0.5	OK
3.000	SIC 01 (connection to RWHT)	61	97.505	-0.145	0.000	0.08		2.2	OK
3.001	MH01	54	97.504	-0.121	0.000	0.01		2.1	OK
3.002	FC 01	54	97.504	0.437	0.000	0.04		1.4	SURCHARGED
2.002	Ex. IA01	87	96.150	-0.250	0.000	0.06		2.2	OK
2.003	Ex. AM03	87	96.105	-0.254	0.000	0.04		2.2	OK
2.004	Ex. AM04	87	96.100	-0.248	0.000	0.06		2.5	OK
2.005	Ex. AM02	87	96.059	-0.241	0.000	0.08		2.6	OK
2.006	Ex. M162/0210	86	96.018	-0.252	0.000	0.06		2.6	OK
2.007	Ex. M162/0205	86	95.957	-0.254	0.000	0.06		2.6	OK
2.008	Ex. M162/0206	85	95.937	-0.254	0.000	0.06		2.6	OK
1.005	Ex. Pump Sump	85	95.819	-0.242	0.000	0.08		7.2	OK

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Summary Wizard of 1440 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)		
1.000	Ex. AM08	99	96.783	-0.267	0.000	0.03		1.7	OK

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Summary Wizard of 1440 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	99	96.690	-0.240	0.000	0.09		2.6	OK
1.002	Ex. IA07	99	96.657	-0.253	0.000	0.06		3.2	OK
1.003	Tank	99	96.597	-0.232	0.000	0.04	384	3.2	OK
1.004	Ex. M16/0237	99	96.480	-0.256	0.000	0.05		3.2	OK
2.000	Ex. DW2	58	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	98	96.165	-0.275	0.000	0.01		0.4	OK
3.000	SIC 01 (connection to RWHT)	99	97.459	-0.191	0.000	0.05		1.5	OK
3.001	MH01	94	97.045	-0.580	0.000	0.00		1.5	OK
3.002	FC 01	94	97.045	-0.022	0.000	0.04		1.4	OK
2.002	Ex. IA01	98	96.147	-0.253	0.000	0.05		2.0	OK
2.003	Ex. AM03	98	96.101	-0.258	0.000	0.04		2.0	OK
2.004	Ex. AM04	98	96.095	-0.253	0.000	0.05		2.1	OK
2.005	Ex. AM02	98	96.054	-0.246	0.000	0.07		2.2	OK
2.006	Ex. M162/0210	98	96.014	-0.256	0.000	0.05		2.2	OK
2.007	Ex. M162/0205	98	95.954	-0.258	0.000	0.05		2.2	OK
2.008	Ex. M162/0206	98	95.933	-0.258	0.000	0.05		2.2	OK
1.005	Ex. Pump-Sump	98	95.810	-0.251	0.000	0.06		5.4	OK

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Summary Wizard of 2160 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	113	96.776	-0.274	0.000	0.02		1.2	OK

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Summary Wizard of 2160 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	113	96.679	-0.251	0.000	0.06		1.8	OK
1.002	Ex. IA07	113	96.648	-0.261	0.000	0.04		2.2	OK
1.003	Tank	113	96.585	-0.244	0.000	0.03	552	2.2	OK
1.004	Ex. M16/0237	113	96.472	-0.263	0.000	0.04		2.2	OK
2.000	Ex. DW2	59	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	113	96.158	-0.282	0.000	0.01		0.3	OK
3.000	SIC 01 (connection to RWHT)	113	97.453	-0.197	0.000	0.04		1.0	OK
3.001	MH01	113	96.920	-0.705	0.000	0.00		1.0	OK
3.002	FC 01	113	96.915	-0.152	0.000	0.03		1.0	OK
2.002	Ex. IA01	113	96.140	-0.260	0.000	0.04		1.5	OK
2.003	Ex. AM03	113	96.094	-0.265	0.000	0.03		1.5	OK
2.004	Ex. AM04	113	96.088	-0.260	0.000	0.04		1.6	OK
2.005	Ex. AM02	113	96.045	-0.254	0.000	0.05		1.6	OK
2.006	Ex. M162/0210	113	96.008	-0.262	0.000	0.04		1.6	OK
2.007	Ex. M162/0205	113	95.948	-0.264	0.000	0.04		1.6	OK
2.008	Ex. M162/0206	113	95.928	-0.264	0.000	0.04		1.6	OK
1.005	Ex. Pump-Sump	113	95.801	-0.260	0.000	0.04		3.8	OK

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Summary Wizard of 2880 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	122	96.770	-0.280	0.000	0.01		0.9	OK

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Summary Wizard of 2880 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	122	96.673	-0.257	0.000	0.05		1.4	OK
1.002	Ex. IA07	122	96.644	-0.266	0.000	0.03		1.7	OK
1.003	Tank	122	96.577	-0.252	0.000	0.02	720	1.7	OK
1.004	Ex. M16/0237	122	96.469	-0.267	0.000	0.03		1.7	OK
2.000	Ex. DW2	60	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	122	96.154	-0.286	0.000	0.01		0.2	OK
3.000	SIC 01 (connection to RWHT)	123	97.450	-0.200	0.000	0.03		0.8	OK
3.001	MH01	122	96.903	-0.721	0.000	0.00		0.8	OK
3.002	FC 01	122	96.897	-0.170	0.000	0.02		0.8	OK
2.002	Ex. IA01	122	96.136	-0.265	0.000	0.03		1.1	OK
2.003	Ex. AM03	122	96.090	-0.269	0.000	0.02		1.1	OK
2.004	Ex. AM04	122	96.083	-0.265	0.000	0.03		1.2	OK
2.005	Ex. AM02	122	96.040	-0.259	0.000	0.04		1.2	OK
2.006	Ex. M162/0210	122	96.004	-0.266	0.000	0.03		1.3	OK
2.007	Ex. M162/0205	122	95.944	-0.267	0.000	0.03		1.3	OK
2.008	Ex. M162/0206	122	95.924	-0.267	0.000	0.03		1.3	OK
1.005	Ex. Pump-Sump	122	95.797	-0.264	0.000	0.03		2.9	OK

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Summary Wizard of 4320 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	Ex. AM08	136	96.764	-0.286	0.000	0.01		0.6	OK

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Summary Wizard of 4320 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	136	96.667	-0.263	0.000	0.03		1.0	OK
1.002	Ex. IA07	136	96.640	-0.270	0.000	0.02		1.2	OK
1.003	Tank	136	96.569	-0.260	0.000	0.02	1080	1.2	OK
1.004	Ex. M16/0237	136	96.463	-0.273	0.000	0.02		1.2	OK
2.000	Ex. DW2	138	96.240	-0.300	0.000	0.00		0.0	OK
2.001	Ex. AM11	136	96.149	-0.291	0.000	0.00		0.1	OK
3.000	SIC 01 (connection to RWHT)	136	97.446	-0.204	0.000	0.02		0.6	OK
3.001	MH01	136	96.892	-0.733	0.000	0.00		0.6	OK
3.002	FC 01	136	96.884	-0.183	0.000	0.02		0.6	OK
2.002	Ex. IA01	136	96.131	-0.269	0.000	0.02		0.8	OK
2.003	Ex. AM03	136	96.084	-0.275	0.000	0.01		0.8	OK
2.004	Ex. AM04	136	96.079	-0.269	0.000	0.02		0.8	OK
2.005	Ex. AM02	136	96.034	-0.265	0.000	0.03		0.9	OK
2.006	Ex. M162/0210	136	95.999	-0.271	0.000	0.02		0.9	OK
2.007	Ex. M162/0205	136	95.938	-0.273	0.000	0.02		0.9	OK
2.008	Ex. M162/0206	136	95.918	-0.274	0.000	0.02		0.9	OK
1.005	Ex. Pump-Sump	136	95.792	-0.269	0.000	0.02		2.0	OK

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Summary Wizard of 5760 minute 200 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 5, 25, 50, 100, 200
Climate Change (%) 0, 0, 40, 40, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
1.000	Ex. AM08	143	96.761	-0.289	0.000	0.01	0.5	OK	


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Summary Wizard of 5760 minute 200 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Ex. IA06	143	96.662	-0.268	0.000	0.02			0.7	OK
1.002	Ex. IA07	143	96.633	-0.276	0.000	0.02			0.9	OK
1.003	Tank	143	96.564	-0.265	0.000	0.01		1416	0.9	OK
1.004	Ex. M16/0237	143	96.457	-0.279	0.000	0.01			0.9	OK
2.000	Ex. DW2	160	96.240	-0.300	0.000	0.00			0.0	OK
2.001	Ex. AM11	143	96.147	-0.293	0.000	0.00			0.1	OK
3.000	SIC 01 (connection to RWHT)	143	97.441	-0.209	0.000	0.02			0.4	OK
3.001	MH01	143	96.887	-0.738	0.000	0.00			0.4	OK
3.002	FC 01	143	96.877	-0.190	0.000	0.01			0.4	OK
2.002	Ex. IA01	143	96.125	-0.275	0.000	0.02			0.6	OK
2.003	Ex. AM03	143	96.079	-0.280	0.000	0.01			0.6	OK
2.004	Ex. AM04	143	96.073	-0.275	0.000	0.01			0.6	OK
2.005	Ex. AM02	143	96.030	-0.269	0.000	0.02			0.7	OK
2.006	Ex. M162/0210	143	95.992	-0.278	0.000	0.02			0.7	OK
2.007	Ex. M162/0205	143	95.932	-0.279	0.000	0.01			0.7	OK
2.008	Ex. M162/0206	143	95.912	-0.280	0.000	0.01			0.7	OK
1.005	Ex. Pump-Sump	143	95.787	-0.274	0.000	0.02			1.6	OK

E.2. British Land

Accepted as Noted CAT 2

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FEH Rainfall Model

Return Period (years)	2	Volumetric Runoff Coeff.	0.750
		PIMP (%)	100
FEH Rainfall Version	2013	Add Flow / Climate Change (%)	0
Site Location	GB 535589 179023 TQ 35589 79023	Minimum Backdrop Height (m)	0.200
Data Type	Point	Maximum Backdrop Height (m)	1.500
Maximum Rainfall (mm/hr)	250	Min Design Depth for Optimisation (m)	1.200
Maximum Time of Concentration (mins)	30	Min Vel for Auto Design only (m/s)	1.00
Foul Sewage (l/s/ha)	0.000	Min Slope for Optimisation (1:X)	500


Designed with Level Soffits

Network Design Table for Storm







PN	Length	Fall	Slope	I.Area	T.E.	Base	k	n	HYD	DIA	Section Type	Auto
(m)	(m)	(1:X)	(ha)	(mins)	Flow (l/s)	(mm)	SECT	(mm)				Design

Network Results Table

PN	Rain	T.C.	US/IL	Σ I.Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow
(mm/hr)	(mins)	(m)	(ha)	Flow (l/s)	(l/s)	(l/s)	(l/s)	(m/s)	(l/s)	(l/s)


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Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
S1.000	32.615	0.065	501.8	0.033	5.00	0.0		0.045	\/	-2	Pipe/Conduit	
S1.001	4.904	0.010	490.4	0.015	0.00	0.0	0.600		o	150	Pipe/Conduit	
S1.002	17.004	0.034	500.1	0.012	0.00	0.0		0.045	\/	-1	Pipe/Conduit	
S1.003	5.316	0.035	151.9	0.011	0.00	0.0	0.600		o	150	Pipe/Conduit	
S1.004	10.004	0.050	200.1	0.011	0.00	0.0	0.600		o	225	Pipe/Conduit	
S1.005	10.276	0.121	85.0	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
S1.000	56.59	7.33	103.770	0.033	0.0	0.0	0.0	0.23	272.8	5.0
S1.001	55.86	7.52	103.705	0.048	0.0	0.0	0.0	0.45	7.9	7.2
S1.002	51.51	8.72	103.695	0.060	0.0	0.0	0.0	0.24	297.7	8.3
S1.003	51.15	8.82	103.661	0.071	0.0	0.0	0.0	0.81	14.4	9.8
S1.004	50.57	9.01	103.080	0.082	0.0	0.0	0.0	0.92	36.6	11.2
S1.005	50.07	9.16	103.030	0.082	0.0	0.0	0.0	1.09	19.3	11.2

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Conduit Sections for Storm

NOTE: Diameters less than 66 refer to section numbers of hydraulic conduits. These conduits are marked by the symbols:- [] box culvert, \ / open channel, oo dual pipe, ooo triple pipe, O egg.

Section numbers < 0 are taken from user conduit table

Section Number	Conduit Type	Major Dimn. (mm)	Minor Dimn. (mm)	Side Slope (Deg)	Corner Splay (mm)	4*Hyd Radius (m)	XSect Area (m ²)
-1	\ /	3000	300	14.0		0.463	1.261
-2	\ /	2700	300	14.0		0.455	1.171


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Manhole Schedules for Storm


MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
SDummy-1	104.070	0.300	Open Manhole	150	S1.000	103.770	-2				
SDummy-2	104.070	0.365	Open Manhole	150	S1.001	103.705	150	S1.000	103.705	-2	
SDummy-3	104.070	0.375	Open Manhole	150	S1.002	103.695	-1	S1.001	103.695	150	
SDummy-4	104.070	0.409	Open Manhole	150	S1.003	103.661	150	S1.002	103.661	-1	
SSMH-05	104.070	0.990	Open Manhole	1200	S1.004	103.080	225	S1.003	103.626	150	471
SFC-03	103.919	0.889	Open Manhole	1200	S1.005	103.030	150	S1.004	103.030	225	
S (EX MH SW-01)	103.660	0.751	Open Manhole	0		OUTFALL		S1.005	102.909	150	

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
SDummy-1	85885.137	33666.408	85885.137	33666.408	Required	
SDummy-2	85901.193	33638.019	85901.193	33638.019	Required	
SDummy-3	85903.414	33633.648	85903.414	33633.648	Required	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
SDummy-4	85912.449	33619.243	85912.449	33619.243	Required	
SSMH-05	85916.631	33615.960	85916.631	33615.960	Required	
SFC-03	85921.731	33607.354	85921.731	33607.354	Required	
S(EX MH SW-01)	85922.408	33597.100			No Entry	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S1.000	\/	-2	SDummy-1	104.070	103.770	0.000	Open Manhole	150
S1.001	o	150	SDummy-2	104.070	103.705	0.215	Open Manhole	150
S1.002	\/	-1	SDummy-3	104.070	103.695	0.075	Open Manhole	150
S1.003	o	150	SDummy-4	104.070	103.661	0.259	Open Manhole	150
S1.004	o	225	SSMH-05	104.070	103.080	0.765	Open Manhole	1200
S1.005	o	150	SFC-03	103.919	103.030	0.739	Open Manhole	1200


Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S1.000	32.615	501.8	SDummy-2	104.070	103.705	0.065	Open Manhole	150
S1.001	4.904	490.4	SDummy-3	104.070	103.695	0.225	Open Manhole	150
S1.002	17.004	500.1	SDummy-4	104.070	103.661	0.109	Open Manhole	150
S1.003	5.316	151.9	SSMH-05	104.070	103.626	0.294	Open Manhole	1200
S1.004	10.004	200.1	SFC-03	103.919	103.030	0.664	Open Manhole	1200
S1.005	10.276	85.0	S(EX MH SW-01)	103.660	102.909	0.601	Open Manhole	0

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Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	Classification	Green area	20	0.006	0.001	0.001
	Classification	Paving	100	0.020	0.020	0.021
	Classification	Green area	20	0.058	0.012	0.033
1.001	Classification	Paving	100	0.009	0.009	0.009
	Classification	Paving	100	0.003	0.003	0.012
	Classification	Green area	20	0.015	0.003	0.015
1.002	Classification	Green area	20	0.016	0.003	0.003
	Classification	Paving	100	0.009	0.009	0.012
1.003	Classification	Paving	100	0.011	0.011	0.011
1.004	Classification	Paving	100	0.006	0.006	0.006
	Classification	Green area	20	0.014	0.003	0.009
	Classification	Green area	20	0.009	0.002	0.011
1.005	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.177	0.082	0.082


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Network Classifications for Storm

PN	USMH Name	Pipe Dia (mm)	Min Cover Depth (m)	Max Cover Depth (m)	Pipe Type	MH Dia (mm)	MH Width (mm)	MH Ring Depth (m)	MH Type
S1.000	SDummy-1	-2	0.000	0.065	Unclassified	150	0	0.000	Unclassified
S1.001	SDummy-2	150	0.215	0.225	Unclassified	150	0	0.215	Unclassified
S1.002	SDummy-3	-1	0.075	0.109	Unclassified	150	0	0.075	Unclassified
S1.003	SDummy-4	150	0.259	0.294	Unclassified	150	0	0.259	Unclassified
S1.004	SSMH-05	225	0.664	0.765	Unclassified	1200	0	0.765	Unclassified
S1.005	SFC-03	150	0.601	0.739	Unclassified	1200	0	0.739	Unclassified

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
S1.005	S(EX MH SW-01)	103.660	102.909	0.000	0	0

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Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Manhole Headloss Coeff (Global)	0.500	Inlet Coefficient	0.800
Areal Reduction Factor	1.000	Foul Sewage per hectare (l/s)	0.000	Flow per Person per Day (l/per/day)	0.000
Hot Start (mins)	0	Additional Flow - % of Total Flow	0.000	Run Time (mins)	60
Hot Start Level (mm)	0	MADD Factor * 10m ³ /ha Storage	2.000	Output Interval (mins)	1

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FEH	Summer Storms	Yes
Return Period (years)	2	Winter Storms	Yes
FEH Rainfall Version	2013	Cv (Summer)	0.750
Site Location	GB 535589 179023 TQ 35589 79023	Cv (Winter)	0.840
Data Type	Point	Storm Duration (mins)	30

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Online Controls for Storm


Hydro-Brake® Optimum Manhole: SFC-03, DS/PN: S1.005, Volume (m³): 1.4

Unit Reference	MD-SHE-0071-2000-0730-2000	Sump Available	Yes
Design Head (m)	0.730	Diameter (mm)	71
Design Flow (l/s)	2.0	Invert Level (m)	103.030
Flush-Flo™	Calculated	Minimum Outlet Pipe Diameter (mm)	100
Objective	Minimise upstream storage	Suggested Manhole Diameter (mm)	1200
Application	Surface		

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.730	2.0	Kick-Flo®	0.469	1.6
Flush-Flo™	0.219	2.0	Mean Flow over Head Range	-	1.7

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated


Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	1.8	0.600	1.8	1.600	2.9	2.600	3.6	5.000	4.9	7.500	5.9
0.200	2.0	0.800	2.1	1.800	3.0	3.000	3.8	5.500	5.1	8.000	6.1
0.300	2.0	1.000	2.3	2.000	3.2	3.500	4.1	6.000	5.3	8.500	6.3
0.400	1.9	1.200	2.5	2.200	3.3	4.000	4.4	6.500	5.5	9.000	6.4
0.500	1.7	1.400	2.7	2.400	3.5	4.500	4.6	7.000	5.7	9.500	6.6

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Manhole Headloss for Storm


PN	US/MH Name	US/MH Headloss
S1.000	SDummy-1	0.500
S1.001	SDummy-2	0.500
S1.002	SDummy-3	0.500
S1.003	SDummy-4	0.500
S1.004	SSMH-05	0.500
S1.005	SFC-03	0.500

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CASDeF Controller for Storm

PN	US/MH Name	Level Exceeded	Not Control	Modify Control	Modify Pipe Size	Max Pipe Diameter	No. Pipe Failures	Add Storage	No. Storage Failures	Use CASDeF
S1.000	SDummy-1	104.070		Yes	No	300	0	Yes	0	Yes
S1.001	SDummy-2	104.070		Yes	No	215	0	Yes	0	Yes
S1.002	SDummy-3	104.070		Yes	No	300	0	Yes	0	Yes
S1.003	SDummy-4	104.070		Yes	No	259	0	Yes	0	Yes
S1.004	SSMH-05	104.070		Yes	No	725	0	Yes	0	Yes
S1.005	SFC-03	103.919		Yes	No	600	0	Yes	0	Yes

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Summary Wizard of 15 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	35	103.791	-0.279	0.000	0.02	5.1	FLOOD RISK

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Summary Wizard of 15 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (1/s)	Half Drain Time (mins)	Pipe Flow (1/s)	Status
S1.001	SDummy-2	52	103.748	-0.107	0.000	0.18		1.7	OK
S1.002	SDummy-3	54	103.713	-0.282	0.000	0.01		2.5	OK
S1.003	SDummy-4	57	103.703	-0.108	0.000	0.17		2.0	OK
S1.004	SSMH-05	63	103.171	-0.134	0.000	0.07		2.3	OK
S1.005	SFC-03	63	103.169	-0.011	0.000	0.11		1.9	OK

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Summary Wizard of 30 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	37	103.789	-0.281	0.000	0.02	4.4	FLOOD RISK

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Summary Wizard of 30 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	48	103.752	-0.103	0.000	0.21			1.9	OK	
S1.002	SDummy-3	52	103.715	-0.280	0.000	0.01			2.7	OK	
S1.003	SDummy-4	51	103.707	-0.104	0.000	0.21			2.4	OK	
S1.004	SSMH-05	55	103.275	-0.030	0.000	0.08			2.5	OK	
S1.005	SFC-03	55	103.272	0.092	0.000	0.12			2.0	SURCHARGED	

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Summary Wizard of 60 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	41	103.785	-0.285	0.000	0.01	3.1	FLOOD RISK

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Summary Wizard of 60 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	46	103.752	-0.103	0.000	0.22			2.0	OK	
S1.002	SDummy-3	49	103.717	-0.278	0.000	0.01			2.6	OK	
S1.003	SDummy-4	50	103.709	-0.102	0.000	0.22			2.6	OK	
S1.004	SSMH-05	54	103.435	0.130	0.000	0.09			2.6	SURCHARGED	
S1.005	SFC-03	54	103.433	0.253	0.000	0.12			2.0	SURCHARGED	

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Summary Wizard of 120 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	42	103.783	-0.287	0.000	0.01	2.4	FLOOD RISK

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Summary Wizard of 120 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	40	103.755	-0.100	0.000	0.24			2.2	OK	
S1.002	SDummy-3	45	103.721	-0.274	0.000	0.01			2.8	OK	
S1.003	SDummy-4	46	103.713	-0.098	0.000	0.26			3.1	OK	
S1.004	SSMH-05	46	103.706	0.401	0.000	0.09			2.8	SURCHARGED	
S1.005	SFC-03	46	103.704	0.524	0.000	0.12			2.0	FLOOD RISK	

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Summary Wizard of 180 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	45	103.781	-0.289	0.000	0.01	2.0	FLOOD RISK

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Summary Wizard of 180 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	43	103.753	-0.102	0.000	0.23			2.1		OK
S1.002	SDummy-3	48	103.719	-0.276	0.000	0.01			2.6		OK
S1.003	SDummy-4	45	103.714	-0.097	0.000	0.25			2.9		OK
S1.004	SSMH-05	45	103.708	0.403	0.000	0.09			2.7		SURCHARGED
S1.005	SFC-03	45	103.706	0.526	0.000	0.12			2.0		FLOOD RISK

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Summary Wizard of 240 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	47	103.779	-0.291	0.000	0.01	1.7	FLOOD RISK

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Summary Wizard of 240 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	50	103.751	-0.104	0.000	0.20			1.8		OK
S1.002	SDummy-3	50	103.717	-0.278	0.000	0.01			2.3		OK
S1.003	SDummy-4	49	103.709	-0.102	0.000	0.23			2.7		OK
S1.004	SSMH-05	48	103.699	0.394	0.000	0.09			2.6		SURCHARGED
S1.005	SFC-03	48	103.697	0.517	0.000	0.12			2.0		FLOOD RISK

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Summary Wizard of 360 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	53	103.777	-0.293	0.000	0.00	1.3	FLOOD RISK

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Summary Wizard of 360 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	55	103.746	-0.109	0.000	0.17			1.5	OK	
S1.002	SDummy-3	56	103.713	-0.282	0.000	0.01			1.9	OK	
S1.003	SDummy-4	55	103.705	-0.106	0.000	0.19			2.2	OK	
S1.004	SSMH-05	53	103.461	0.156	0.000	0.08			2.3	SURCHARGED	
S1.005	SFC-03	53	103.458	0.278	0.000	0.12			2.0	SURCHARGED	

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Summary Wizard of 480 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	57	103.775	-0.295	0.000	0.00	1.0	FLOOD RISK

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Summary Wizard of 480 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	59	103.742	-0.113	0.000	0.14			1.3	OK	
S1.002	SDummy-3	59	103.709	-0.286	0.000	0.01			1.6	OK	
S1.003	SDummy-4	59	103.701	-0.110	0.000	0.16			1.9	OK	
S1.004	SSMH-05	59	103.194	-0.111	0.000	0.07			2.1	OK	
S1.005	SFC-03	59	103.192	0.012	0.000	0.11			2.0	SURCHARGED	

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Summary Wizard of 600 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	62	103.774	-0.296	0.000	0.00	0.8	FLOOD RISK

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Summary Wizard of 600 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.001	SDummy-2	64	103.740	-0.115	0.000	0.12			1.1	OK
S1.002	SDummy-3	64	103.707	-0.288	0.000	0.01			1.4	OK
S1.003	SDummy-4	64	103.698	-0.113	0.000	0.14			1.6	OK
S1.004	SSMH-05	64	103.136	-0.169	0.000	0.06			1.8	OK
S1.005	SFC-03	64	103.130	-0.050	0.000	0.11			1.8	OK

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Summary Wizard of 720 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	66	103.774	-0.296	0.000	0.00	0.7	FLOOD RISK

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Summary Wizard of 720 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.001	SDummy-2	66	103.738	-0.117	0.000	0.11			1.0	OK
S1.002	SDummy-3	66	103.705	-0.290	0.000	0.00			1.2	OK
S1.003	SDummy-4	66	103.695	-0.116	0.000	0.12			1.4	OK
S1.004	SSMH-05	66	103.125	-0.180	0.000	0.05			1.6	OK
S1.005	SFC-03	66	103.113	-0.067	0.000	0.09			1.6	OK

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Summary Wizard of 960 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	72	103.773	-0.297	0.000	0.00	0.6	FLOOD RISK

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Summary Wizard of 960 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	72	103.734	-0.121	0.000	0.08		0.8	OK
S1.002	SDummy-3	72	103.703	-0.292	0.000	0.00		0.9	OK
S1.003	SDummy-4	73	103.692	-0.119	0.000	0.10		1.1	OK
S1.004	SSMH-05	73	103.114	-0.191	0.000	0.04		1.3	OK
S1.005	SFC-03	73	103.095	-0.085	0.000	0.07		1.3	OK

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Summary Wizard of 1440 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins) (l/s)	
S1.000	SDummy-1	79	103.772	-0.298	0.000	0.00	0.4	FLOOD RISK

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Summary Wizard of 1440 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	79	103.729	-0.126	0.000	0.06		0.6	OK
S1.002	SDummy-3	79	103.700	-0.295	0.000	0.00		0.7	OK
S1.003	SDummy-4	79	103.687	-0.124	0.000	0.07		0.8	OK
S1.004	SSMH-05	79	103.107	-0.198	0.000	0.03		0.9	OK
S1.005	SFC-03	79	103.082	-0.098	0.000	0.06		0.9	OK

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Summary Wizard of 2160 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	84	103.771	-0.299	0.000	0.00	0.3	FLOOD RISK

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Summary Wizard of 2160 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
S1.001	SDummy-2	84	103.726	-0.129	0.000	0.05			0.4	OK
S1.002	SDummy-3	84	103.698	-0.297	0.000	0.00			0.5	OK
S1.003	SDummy-4	84	103.683	-0.128	0.000	0.05			0.6	OK
S1.004	SSMH-05	84	103.104	-0.201	0.000	0.02			0.7	OK
S1.005	SFC-03	84	103.073	-0.107	0.000	0.04			0.7	OK

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Summary Wizard of 2880 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins) (l/s)	
S1.000	SDummy-1	88	103.771	-0.299	0.000	0.00	0.2	FLOOD RISK

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Summary Wizard of 2880 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	87	103.724	-0.131	0.000	0.04		0.3	OK
S1.002	SDummy-3	87	103.698	-0.297	0.000	0.00		0.4	OK
S1.003	SDummy-4	87	103.681	-0.130	0.000	0.04		0.5	OK
S1.004	SSMH-05	87	103.101	-0.204	0.000	0.02		0.6	OK
S1.005	SFC-03	87	103.068	-0.112	0.000	0.03		0.6	OK

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Summary Wizard of 4320 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	91	103.771	-0.299	0.000	0.00	0.2	FLOOD RISK

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Summary Wizard of 4320 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	91	103.722	-0.133	0.000	0.03		0.3	OK
S1.002	SDummy-3	93	103.697	-0.298	0.000	0.00		0.3	OK
S1.003	SDummy-4	91	103.679	-0.132	0.000	0.03		0.4	OK
S1.004	SSMH-05	91	103.096	-0.209	0.000	0.01		0.4	OK
S1.005	SFC-03	91	103.063	-0.117	0.000	0.03		0.4	OK

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Summary Wizard of 5760 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins) (l/s)	
S1.000	SDummy-1	93	103.771	-0.299	0.000	0.00	0.1	FLOOD RISK

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Summary Wizard of 5760 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	94	103.721	-0.134	0.000	0.02		0.2	OK
S1.002	SDummy-3	94	103.697	-0.298	0.000	0.00		0.3	OK
S1.003	SDummy-4	94	103.677	-0.134	0.000	0.03		0.3	OK
S1.004	SSMH-05	94	103.093	-0.212	0.000	0.01		0.4	OK
S1.005	SFC-03	94	103.059	-0.121	0.000	0.02		0.4	OK

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Summary Wizard of 15 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	25	103.804	-0.266	0.000	0.03	8.7	FLOOD RISK

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Summary Wizard of 15 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	36	103.772	-0.083	0.000	0.41			3.8	FLOOD RISK	
S1.002	SDummy-3	41	103.733	-0.262	0.000	0.02			5.2	OK	
S1.003	SDummy-4	41	103.732	-0.079	0.000	0.40			4.6	OK	
S1.004	SSMH-05	42	103.729	0.424	0.000	0.12			3.7	SURCHARGED	
S1.005	SFC-03	42	103.726	0.546	0.000	0.12			2.0	FLOOD RISK	

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Summary Wizard of 30 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	26	103.803	-0.267	0.000	0.03	7.5	FLOOD RISK

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Summary Wizard of 30 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	34	103.776	-0.079	0.000	0.46			4.2	FLOOD RISK	
S1.002	SDummy-3	36	103.760	-0.235	0.000	0.02			5.6	OK	
S1.003	SDummy-4	36	103.760	-0.051	0.000	0.45			5.2	OK	
S1.004	SSMH-05	39	103.756	0.451	0.000	0.13			3.9	SURCHARGED	
S1.005	SFC-03	39	103.754	0.574	0.000	0.12			2.0	FLOOD RISK	

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Summary Wizard of 60 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	29	103.799	-0.271	0.000	0.02	5.3	FLOOD RISK

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Summary Wizard of 60 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	35	103.775	-0.080	0.000	0.45			4.1	FLOOD RISK	
S1.002	SDummy-3	33	103.767	-0.228	0.000	0.02			5.2	OK	
S1.003	SDummy-4	33	103.767	-0.044	0.000	0.42			5.0	OK	
S1.004	SSMH-05	37	103.764	0.459	0.000	0.12			3.7	SURCHARGED	
S1.005	SFC-03	37	103.761	0.581	0.000	0.12			2.0	FLOOD RISK	

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Summary Wizard of 120 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins) (l/s)	
S1.000	SDummy-1	31	103.795	-0.275	0.000	0.01	3.9	FLOOD RISK

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Summary Wizard of 120 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Time (mins)	
S1.001	SDummy-2	29	103.781	-0.074	0.000	0.42		3.8	FLOOD RISK
S1.002	SDummy-3	28	103.779	-0.216	0.000	0.02		4.9	FLOOD RISK
S1.003	SDummy-4	28	103.779	-0.032	0.000	0.35		4.1	FLOOD RISK
S1.004	SSMH-05	30	103.787	0.482	0.000	0.11		3.4	FLOOD RISK
S1.005	SFC-03	31	103.786	0.606	0.000	0.12		2.0	FLOOD RISK

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Summary Wizard of 180 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	36	103.790	-0.280	0.000	0.01	3.2	FLOOD RISK

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Summary Wizard of 180 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow					
S1.001	SDummy-2	30	103.781	-0.074	0.000	0.38			3.5	FLOOD RISK	
S1.002	SDummy-3	29	103.779	-0.216	0.000	0.02			4.4	FLOOD RISK	
S1.003	SDummy-4	29	103.779	-0.032	0.000	0.32			3.7	FLOOD RISK	
S1.004	SSMH-05	28	103.793	0.488	0.000	0.10			3.1	FLOOD RISK	
S1.005	SFC-03	28	103.792	0.612	0.000	0.12			2.0	FLOOD RISK	

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Summary Wizard of 240 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	39	103.787	-0.283	0.000	0.01	2.6	FLOOD RISK

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Summary Wizard of 240 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow					
S1.001	SDummy-2	33	103.777	-0.078	0.000	0.33			3.0	FLOOD RISK	
S1.002	SDummy-3	31	103.775	-0.220	0.000	0.02			3.8	FLOOD RISK	
S1.003	SDummy-4	31	103.775	-0.036	0.000	0.31			3.7	FLOOD RISK	
S1.004	SSMH-05	34	103.781	0.476	0.000	0.10			3.0	FLOOD RISK	
S1.005	SFC-03	35	103.780	0.600	0.000	0.12			2.0	FLOOD RISK	

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Summary Wizard of 360 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins) (l/s)	
S1.000	SDummy-1	44	103.782	-0.288	0.000	0.01	2.0	FLOOD RISK

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Summary Wizard of 360 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
S1.001	SDummy-2	37	103.764	-0.091	0.000	0.27		2.5	OK
S1.002	SDummy-3	34	103.763	-0.232	0.000	0.01		3.1	OK
S1.003	SDummy-4	34	103.763	-0.048	0.000	0.27		3.2	OK
S1.004	SSMH-05	31	103.787	0.482	0.000	0.09		2.7	FLOOD RISK
S1.005	SFC-03	30	103.787	0.607	0.000	0.12		2.0	FLOOD RISK

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Summary Wizard of 480 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	48	103.779	-0.291	0.000	0.01	1.5	FLOOD RISK

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Summary Wizard of 480 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	44	103.753	-0.102	0.000	0.22			2.0	OK	
S1.002	SDummy-3	39	103.745	-0.250	0.000	0.01			2.5	OK	
S1.003	SDummy-4	39	103.745	-0.066	0.000	0.24			2.8	OK	
S1.004	SSMH-05	35	103.781	0.476	0.000	0.08			2.5	FLOOD RISK	
S1.005	SFC-03	33	103.782	0.602	0.000	0.12			2.0	FLOOD RISK	

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Summary Wizard of 600 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins) (l/s)	
S1.000	SDummy-1	51	103.777	-0.293	0.000	0.00	1.3	FLOOD RISK

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Summary Wizard of 600 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	51	103.749	-0.106	0.000	0.19			1.7		OK
S1.002	SDummy-3	42	103.727	-0.268	0.000	0.01			2.1		OK
S1.003	SDummy-4	42	103.726	-0.085	0.000	0.21			2.5		OK
S1.004	SSMH-05	41	103.730	0.425	0.000	0.08			2.4		SURCHARGED
S1.005	SFC-03	41	103.729	0.549	0.000	0.11			2.0		FLOOD RISK

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Summary Wizard of 720 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins) (l/s)	
S1.000	SDummy-1	55	103.776	-0.294	0.000	0.00	1.1	FLOOD RISK

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Summary Wizard of 720 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	56	103.746	-0.109	0.000	0.16			1.5		OK
S1.002	SDummy-3	55	103.713	-0.282	0.000	0.01			1.9		OK
S1.003	SDummy-4	54	103.705	-0.106	0.000	0.19			2.2		OK
S1.004	SSMH-05	49	103.691	0.386	0.000	0.08			2.3		SURCHARGED
S1.005	SFC-03	49	103.688	0.508	0.000	0.11			2.0		FLOOD RISK

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Summary Wizard of 960 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins) (l/s)	
S1.000	SDummy-1	60	103.775	-0.295	0.000	0.00	0.9	FLOOD RISK

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Summary Wizard of 960 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Time (mins)	
S1.001	SDummy-2	60	103.741	-0.114	0.000	0.13		1.2	OK
S1.002	SDummy-3	60	103.709	-0.286	0.000	0.01		1.5	OK
S1.003	SDummy-4	61	103.700	-0.111	0.000	0.15		1.8	OK
S1.004	SSMH-05	61	103.184	-0.121	0.000	0.07		2.0	OK
S1.005	SFC-03	61	103.181	0.001	0.000	0.11		1.9	SURCHARGED

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Summary Wizard of 1440 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	69	103.773	-0.297	0.000	0.00	0.6	FLOOD RISK

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Summary Wizard of 1440 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	70	103.736	-0.119	0.000	0.09		0.9	OK
S1.002	SDummy-3	70	103.704	-0.291	0.000	0.00		1.1	OK
S1.003	SDummy-4	70	103.694	-0.117	0.000	0.11		1.3	OK
S1.004	SSMH-05	70	103.120	-0.185	0.000	0.05		1.4	OK
S1.005	SFC-03	70	103.105	-0.075	0.000	0.08		1.5	OK

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Summary Wizard of 2160 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	76	103.772	-0.298	0.000	0.00	0.4	FLOOD RISK

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Summary Wizard of 2160 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	76	103.731	-0.124	0.000	0.07		0.6	OK
S1.002	SDummy-3	77	103.701	-0.294	0.000	0.00		0.8	OK
S1.003	SDummy-4	76	103.689	-0.122	0.000	0.08		0.9	OK
S1.004	SSMH-05	76	103.109	-0.196	0.000	0.03		1.1	OK
S1.005	SFC-03	76	103.086	-0.094	0.000	0.06		1.1	OK

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Summary Wizard of 2880 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	80	103.772	-0.298	0.000	0.00	0.4	FLOOD RISK

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Summary Wizard of 2880 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.001	SDummy-2	80	103.728	-0.127	0.000	0.06		0.5	OK
S1.002	SDummy-3	80	103.699	-0.296	0.000	0.00		0.6	OK
S1.003	SDummy-4	80	103.686	-0.125	0.000	0.06		0.8	OK
S1.004	SSMH-05	80	103.106	-0.199	0.000	0.03		0.9	OK
S1.005	SFC-03	80	103.079	-0.101	0.000	0.05		0.9	OK

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Summary Wizard of 4320 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	86	103.771	-0.299	0.000	0.00	0.3	FLOOD RISK

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Summary Wizard of 4320 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	85	103.725	-0.130	0.000	0.04		0.4	OK
S1.002	SDummy-3	86	103.698	-0.297	0.000	0.00		0.5	OK
S1.003	SDummy-4	85	103.682	-0.129	0.000	0.05		0.6	OK
S1.004	SSMH-05	85	103.103	-0.202	0.000	0.02		0.6	OK
S1.005	SFC-03	85	103.071	-0.109	0.000	0.04		0.6	OK

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Summary Wizard of 5760 minute 5 year Summer I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	89	103.771	-0.299	0.000	0.00	0.2	FLOOD RISK

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Summary Wizard of 5760 minute 5 year Summer I+20% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	89	103.723	-0.132	0.000	0.03		0.3	OK
S1.002	SDummy-3	88	103.697	-0.298	0.000	0.00		0.4	OK
S1.003	SDummy-4	89	103.680	-0.131	0.000	0.04		0.5	OK
S1.004	SSMH-05	89	103.099	-0.206	0.000	0.02		0.5	OK
S1.005	SFC-03	89	103.066	-0.114	0.000	0.03		0.5	OK

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Summary Wizard of 15 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	22	103.854	-0.216	0.000	0.09	23.2	FLOOD RISK

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Summary Wizard of 15 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow					
S1.001	SDummy-2	22	103.854	-0.001	0.000	0.99			9.0	FLOOD RISK	
S1.002	SDummy-3	22	103.850	-0.145	0.000	0.07			16.0	FLOOD RISK	
S1.003	SDummy-4	22	103.851	0.040	0.000	0.44			5.2	FLOOD RISK	
S1.004	SSMH-05	24	103.849	0.544	0.000	0.24			7.2	FLOOD RISK	
S1.005	SFC-03	24	103.847	0.667	0.000	0.12			2.1	FLOOD RISK	

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Summary Wizard of 30 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	17	103.885	-0.185	0.000	0.08	20.9	FLOOD RISK

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Summary Wizard of 30 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow					
S1.001	SDummy-2	17	103.885	0.030	0.000	0.94			8.6	FLOOD RISK	
S1.002	SDummy-3	17	103.882	-0.113	0.000	0.07			15.9	FLOOD RISK	
S1.003	SDummy-4	17	103.882	0.071	0.000	0.57			6.6	FLOOD RISK	
S1.004	SSMH-05	21	103.880	0.575	0.000	0.22			6.7	FLOOD RISK	
S1.005	SFC-03	22	103.877	0.697	0.000	0.12			2.1	FLOOD RISK	

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Summary Wizard of 60 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	13	103.907	-0.163	0.000	0.05	14.6	FLOOD RISK

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Summary Wizard of 60 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	13	103.907	0.052	0.000	0.69			6.3	FLOOD RISK	
S1.002	SDummy-3	13	103.904	-0.091	0.000	0.05			11.6	FLOOD RISK	
S1.003	SDummy-4	13	103.904	0.093	0.000	0.41			4.8	FLOOD RISK	
S1.004	SSMH-05	19	103.904	0.599	0.000	0.15			4.5	FLOOD RISK	
S1.005	SFC-03	20	103.903	0.723	0.000	0.13			2.2	FLOOD RISK	

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Summary Wizard of 120 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	9	103.926	-0.144	0.000	0.04	10.1	FLOOD RISK

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Summary Wizard of 120 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
S1.001	SDummy-2	9	103.926	0.071	0.000	0.42	3.8	FLOOD RISK	
S1.002	SDummy-3	8	103.924	-0.071	0.000	0.03	6.4	FLOOD RISK	
S1.003	SDummy-4	8	103.924	0.113	0.000	0.33	3.9	FLOOD RISK	
S1.004	SSMH-05	5	103.923	0.618	0.000	0.11	3.2	FLOOD RISK	
S1.005	SFC-03	8	103.916	0.736	0.000	0.13	2.2	FLOOD RISK	

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Summary Wizard of 180 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40


WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 180 minute 100 year Summer I+40% for Storm


PN	Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (1/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (1/s)	Overflow (1/s)			

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Summary Wizard of 180 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Time (mins)	
S1.000	SDummy-1	5	103.929	-0.141	0.000	0.03		8.1	FLOOD RISK
S1.001	SDummy-2	5	103.929	0.074	0.000	0.37		3.4	FLOOD RISK
S1.002	SDummy-3	5	103.926	-0.069	0.000	0.02		4.9	FLOOD RISK
S1.003	SDummy-4	5	103.926	0.115	0.000	0.51		6.0	FLOOD RISK
S1.004	SSMH-05	6	103.922	0.617	0.000	0.14		4.1	FLOOD RISK
S1.005	SFC-03	5	103.919	0.739	0.398	0.13		2.2	FLOOD

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Summary Wizard of 240 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	7	103.928	-0.142	0.000	0.02	6.6	FLOOD RISK

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Summary Wizard of 240 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
S1.001	SDummy-2	7	103.928	0.073	0.000	0.44	4.0	FLOOD RISK	
S1.002	SDummy-3	7	103.926	-0.069	0.000	0.02	4.1	FLOOD RISK	
S1.003	SDummy-4	7	103.926	0.115	0.000	0.55	6.5	FLOOD RISK	
S1.004	SSMH-05	8	103.922	0.617	0.000	0.13	4.0	FLOOD RISK	
S1.005	SFC-03	7	103.919	0.739	0.000	0.13	2.2	FLOOD RISK	

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Summary Wizard of 360 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	10	103.922	-0.148	0.000	0.02	4.9	FLOOD RISK

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Summary Wizard of 360 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	10	103.922	0.067	0.000	0.30			2.8	FLOOD RISK	
S1.002	SDummy-3	10	103.919	-0.076	0.000	0.02			3.7	FLOOD RISK	
S1.003	SDummy-4	10	103.920	0.109	0.000	0.33			3.9	FLOOD RISK	
S1.004	SSMH-05	11	103.917	0.612	0.000	0.11			3.5	FLOOD RISK	
S1.005	SFC-03	10	103.913	0.733	0.000	0.13			2.2	FLOOD RISK	

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Summary Wizard of 480 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	11	103.914	-0.156	0.000	0.01	3.9	FLOOD RISK

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Summary Wizard of 480 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow					
S1.001	SDummy-2	11	103.914	0.059	0.000	0.27			2.4	FLOOD RISK	
S1.002	SDummy-3	12	103.911	-0.084	0.000	0.01			3.2	FLOOD RISK	
S1.003	SDummy-4	12	103.911	0.100	0.000	0.31			3.6	FLOOD RISK	
S1.004	SSMH-05	9	103.920	0.615	0.000	0.09			2.9	FLOOD RISK	
S1.005	SFC-03	11	103.913	0.733	0.000	0.13			2.2	FLOOD RISK	

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Summary Wizard of 600 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	15	103.895	-0.175	0.000	0.01	3.2	FLOOD RISK

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Summary Wizard of 600 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Time (mins)	
S1.001	SDummy-2	15	103.895	0.040	0.000	0.25		2.3	FLOOD RISK
S1.002	SDummy-3	15	103.893	-0.102	0.000	0.01		3.0	FLOOD RISK
S1.003	SDummy-4	15	103.893	0.082	0.000	0.22		2.5	FLOOD RISK
S1.004	SSMH-05	15	103.914	0.609	0.000	0.08		2.5	FLOOD RISK
S1.005	SFC-03	16	103.911	0.731	0.000	0.13		2.2	FLOOD RISK

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Summary Wizard of 720 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	18	103.881	-0.189	0.000	0.01	2.7	FLOOD RISK

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Summary Wizard of 720 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	18	103.881	0.026	0.000	0.24			2.2	FLOOD RISK	
S1.002	SDummy-3	18	103.876	-0.119	0.000	0.01			2.8	FLOOD RISK	
S1.003	SDummy-4	18	103.876	0.065	0.000	0.23			2.6	FLOOD RISK	
S1.004	SSMH-05	14	103.915	0.610	0.000	0.08			2.4	FLOOD RISK	
S1.005	SFC-03	15	103.911	0.731	0.000	0.12			2.1	FLOOD RISK	

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Summary Wizard of 960 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	20	103.858	-0.212	0.000	0.01	2.1	FLOOD RISK

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Summary Wizard of 960 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow					
S1.001	SDummy-2	20	103.858	0.003	0.000	0.22			2.0	FLOOD RISK	
S1.002	SDummy-3	20	103.856	-0.139	0.000	0.01			2.5	FLOOD RISK	
S1.003	SDummy-4	20	103.856	0.045	0.000	0.21			2.5	FLOOD RISK	
S1.004	SSMH-05	18	103.909	0.604	0.000	0.08			2.3	FLOOD RISK	
S1.005	SFC-03	12	103.912	0.732	0.000	0.12			2.1	FLOOD RISK	

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Summary Wizard of 1440 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	23	103.815	-0.255	0.000	0.01	1.5	FLOOD RISK

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Summary Wizard of 1440 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
S1.001	SDummy-2	23	103.815	-0.040	0.000	0.19	1.7	FLOOD RISK	
S1.002	SDummy-3	23	103.811	-0.184	0.000	0.01	2.2	FLOOD RISK	
S1.003	SDummy-4	23	103.811	0.000	0.000	0.20	2.3	FLOOD RISK	
S1.004	SSMH-05	16	103.913	0.608	0.000	0.07	2.2	FLOOD RISK	
S1.005	SFC-03	19	103.910	0.730	0.000	0.12	2.0	FLOOD RISK	

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Summary Wizard of 2160 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	56	103.776	-0.294	0.000	0.00	1.1	FLOOD RISK

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Summary Wizard of 2160 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
S1.001	SDummy-2	47	103.752	-0.103	0.000	0.17		1.6	OK
S1.002	SDummy-3	38	103.747	-0.248	0.000	0.01		1.9	OK
S1.003	SDummy-4	38	103.747	-0.064	0.000	0.18		2.2	OK
S1.004	SSMH-05	26	103.804	0.499	0.000	0.07		2.2	FLOOD RISK
S1.005	SFC-03	26	103.804	0.624	0.000	0.12		2.0	FLOOD RISK

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Summary Wizard of 2880 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	61	103.774	-0.296	0.000	0.00	0.8	FLOOD RISK

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Summary Wizard of 2880 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)					
S1.001	SDummy-2	61	103.741	-0.114	0.000	0.13		1.2	OK	
S1.002	SDummy-3	61	103.709	-0.286	0.000	0.01		1.5	OK	
S1.003	SDummy-4	60	103.700	-0.111	0.000	0.15		1.8	OK	
S1.004	SSMH-05	58	103.217	-0.088	0.000	0.07		2.0	OK	
S1.005	SFC-03	58	103.214	0.034	0.000	0.12		2.0	SURCHARGED	

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Summary Wizard of 4320 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	71	103.773	-0.297	0.000	0.00	0.6	FLOOD RISK

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Summary Wizard of 4320 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.001	SDummy-2	71	103.736	-0.119	0.000	0.09			0.9	OK
S1.002	SDummy-3	71	103.703	-0.292	0.000	0.00			1.1	OK
S1.003	SDummy-4	71	103.694	-0.117	0.000	0.11			1.3	OK
S1.004	SSMH-05	71	103.119	-0.186	0.000	0.05			1.4	OK
S1.005	SFC-03	71	103.104	-0.076	0.000	0.08			1.4	OK

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Summary Wizard of 5760 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	75	103.772	-0.298	0.000	0.00	0.5	FLOOD RISK

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Summary Wizard of 5760 minute 100 year Summer I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.001	SDummy-2	74	103.732	-0.123	0.000	0.07			0.7	OK
S1.002	SDummy-3	75	103.701	-0.294	0.000	0.00			0.8	OK
S1.003	SDummy-4	74	103.690	-0.121	0.000	0.08			1.0	OK
S1.004	SSMH-05	74	103.111	-0.194	0.000	0.04			1.1	OK
S1.005	SFC-03	74	103.089	-0.091	0.000	0.07			1.1	OK

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Summary Wizard of 15 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	33	103.792	-0.278	0.000	0.02	5.3	FLOOD RISK

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Summary Wizard of 15 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	45	103.753	-0.102	0.000	0.22			2.0	OK	
S1.002	SDummy-3	51	103.716	-0.279	0.000	0.01			2.8	OK	
S1.003	SDummy-4	52	103.707	-0.104	0.000	0.20			2.4	OK	
S1.004	SSMH-05	56	103.230	-0.075	0.000	0.08			2.5	OK	
S1.005	SFC-03	56	103.227	0.047	0.000	0.12			2.0	SURCHARGED	

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Summary Wizard of 30 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	38	103.788	-0.282	0.000	0.01	4.0	FLOOD RISK

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Summary Wizard of 30 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	39	103.755	-0.100	0.000	0.25			2.2	OK	
S1.002	SDummy-3	47	103.719	-0.276	0.000	0.01			3.0	OK	
S1.003	SDummy-4	48	103.711	-0.100	0.000	0.25			2.9	OK	
S1.004	SSMH-05	52	103.511	0.206	0.000	0.09			2.8	SURCHARGED	
S1.005	SFC-03	52	103.509	0.329	0.000	0.12			2.0	SURCHARGED	

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Summary Wizard of 60 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	43	103.783	-0.287	0.000	0.01	2.6	FLOOD RISK

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Summary Wizard of 60 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	42	103.754	-0.101	0.000	0.23			2.1	OK	
S1.002	SDummy-3	46	103.719	-0.276	0.000	0.01			2.7	OK	
S1.003	SDummy-4	47	103.712	-0.099	0.000	0.25			2.9	OK	
S1.004	SSMH-05	51	103.674	0.369	0.000	0.09			2.8	SURCHARGED	
S1.005	SFC-03	51	103.672	0.492	0.000	0.12			2.0	FLOOD RISK	

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Summary Wizard of 120 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	46	103.781	-0.289	0.000	0.01	1.9	FLOOD RISK

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Summary Wizard of 120 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	41	103.754	-0.101	0.000	0.24			2.1	OK	
S1.002	SDummy-3	43	103.725	-0.270	0.000	0.01			2.7	OK	
S1.003	SDummy-4	43	103.723	-0.088	0.000	0.26			3.1	OK	
S1.004	SSMH-05	43	103.722	0.417	0.000	0.09			2.7	SURCHARGED	
S1.005	SFC-03	43	103.720	0.540	0.000	0.12			2.0	FLOOD RISK	

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Summary Wizard of 180 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	50	103.779	-0.291	0.000	0.01	1.5	FLOOD RISK

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Summary Wizard of 180 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	49	103.751	-0.104	0.000	0.21			1.9		OK
S1.002	SDummy-3	44	103.723	-0.272	0.000	0.01			2.4		OK
S1.003	SDummy-4	44	103.721	-0.090	0.000	0.23			2.7		OK
S1.004	SSMH-05	44	103.718	0.413	0.000	0.08			2.6		SURCHARGED
S1.005	SFC-03	44	103.717	0.537	0.000	0.12			2.0		FLOOD RISK

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Summary Wizard of 240 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	52	103.777	-0.293	0.000	0.00	1.3	FLOOD RISK

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Summary Wizard of 240 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	53	103.748	-0.107	0.000	0.18			1.6		OK
S1.002	SDummy-3	53	103.714	-0.281	0.000	0.01			2.1		OK
S1.003	SDummy-4	53	103.707	-0.104	0.000	0.20			2.4		OK
S1.004	SSMH-05	47	103.700	0.395	0.000	0.08			2.4		SURCHARGED
S1.005	SFC-03	47	103.699	0.519	0.000	0.12			2.0		FLOOD RISK

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Summary Wizard of 360 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	59	103.775	-0.295	0.000	0.00	0.9	FLOOD RISK

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Summary Wizard of 360 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	58	103.742	-0.113	0.000	0.14			1.3	OK	
S1.002	SDummy-3	58	103.709	-0.286	0.000	0.01			1.6	OK	
S1.003	SDummy-4	58	103.701	-0.110	0.000	0.16			1.9	OK	
S1.004	SSMH-05	57	103.226	-0.079	0.000	0.07			2.1	OK	
S1.005	SFC-03	57	103.223	0.043	0.000	0.12			2.0	SURCHARGED	

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Summary Wizard of 480 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	65	103.774	-0.296	0.000	0.00	0.8	FLOOD RISK

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Summary Wizard of 480 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
S1.001	SDummy-2	65	103.739	-0.116	0.000	0.12		1.1	OK	
S1.002	SDummy-3	65	103.706	-0.289	0.000	0.01		1.3	OK	
S1.003	SDummy-4	65	103.697	-0.114	0.000	0.13		1.5	OK	
S1.004	SSMH-05	65	103.130	-0.175	0.000	0.06		1.8	OK	
S1.005	SFC-03	65	103.122	-0.058	0.000	0.10		1.8	OK	

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Summary Wizard of 600 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	68	103.773	-0.297	0.000	0.00	0.6	FLOOD RISK

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Summary Wizard of 600 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	69	103.736	-0.119	0.000	0.10		0.9	OK
S1.002	SDummy-3	68	103.704	-0.291	0.000	0.00		1.1	OK
S1.003	SDummy-4	69	103.694	-0.117	0.000	0.11		1.3	OK
S1.004	SSMH-05	69	103.120	-0.185	0.000	0.05		1.5	OK
S1.005	SFC-03	69	103.106	-0.074	0.000	0.09		1.5	OK

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Summary Wizard of 720 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	73	103.773	-0.297	0.000	0.00	0.5	FLOOD RISK

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Summary Wizard of 720 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	73	103.734	-0.121	0.000	0.08		0.8	OK
S1.002	SDummy-3	73	103.702	-0.293	0.000	0.00		1.0	OK
S1.003	SDummy-4	72	103.692	-0.119	0.000	0.10		1.1	OK
S1.004	SSMH-05	72	103.114	-0.191	0.000	0.04		1.3	OK
S1.005	SFC-03	72	103.096	-0.084	0.000	0.08		1.3	OK

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Summary Wizard of 960 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	77	103.772	-0.298	0.000	0.00	0.4	FLOOD RISK

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Summary Wizard of 960 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
S1.001	SDummy-2	78	103.730	-0.125	0.000	0.07			0.6	OK
S1.002	SDummy-3	76	103.701	-0.294	0.000	0.00			0.8	OK
S1.003	SDummy-4	78	103.688	-0.123	0.000	0.08			0.9	OK
S1.004	SSMH-05	78	103.109	-0.196	0.000	0.03			1.0	OK
S1.005	SFC-03	78	103.085	-0.095	0.000	0.06			1.0	OK

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Summary Wizard of 1440 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	83	103.771	-0.299	0.000	0.00	0.3	FLOOD RISK

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Summary Wizard of 1440 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	83	103.726	-0.129	0.000	0.05		0.4	OK
S1.002	SDummy-3	83	103.699	-0.296	0.000	0.00		0.6	OK
S1.003	SDummy-4	83	103.684	-0.127	0.000	0.06		0.7	OK
S1.004	SSMH-05	83	103.104	-0.201	0.000	0.02		0.7	OK
S1.005	SFC-03	83	103.075	-0.105	0.000	0.04		0.7	OK

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Summary Wizard of 2160 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	87	103.771	-0.299	0.000	0.00	0.2	FLOOD RISK

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Summary Wizard of 2160 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	88	103.723	-0.132	0.000	0.04		0.3	OK
S1.002	SDummy-3	90	103.697	-0.298	0.000	0.00		0.4	OK
S1.003	SDummy-4	88	103.680	-0.131	0.000	0.04		0.5	OK
S1.004	SSMH-05	88	103.099	-0.206	0.000	0.02		0.5	OK
S1.005	SFC-03	88	103.067	-0.113	0.000	0.03		0.5	OK

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Summary Wizard of 2880 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	92	103.771	-0.299	0.000	0.00	0.2	FLOOD RISK

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Summary Wizard of 2880 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	92	103.722	-0.133	0.000	0.03		0.3	OK
S1.002	SDummy-3	91	103.697	-0.298	0.000	0.00		0.3	OK
S1.003	SDummy-4	92	103.678	-0.133	0.000	0.03		0.4	OK
S1.004	SSMH-05	92	103.095	-0.210	0.000	0.01		0.4	OK
S1.005	SFC-03	92	103.062	-0.118	0.000	0.03		0.4	OK

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Summary Wizard of 4320 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	96	103.771	-0.299	0.000	0.00	0.1	FLOOD RISK

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Summary Wizard of 4320 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	95	103.720	-0.135	0.000	0.02		0.2	OK
S1.002	SDummy-3	95	103.696	-0.299	0.000	0.00		0.2	OK
S1.003	SDummy-4	95	103.677	-0.134	0.000	0.02		0.3	OK
S1.004	SSMH-05	95	103.091	-0.214	0.000	0.01		0.3	OK
S1.005	SFC-03	95	103.057	-0.123	0.000	0.02		0.3	OK

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Summary Wizard of 5760 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins) (l/s)	
S1.000	SDummy-1	95	103.771	-0.299	0.000	0.00	0.1	FLOOD RISK

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Summary Wizard of 5760 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	96	103.717	-0.138	0.000	0.02		0.2	OK
S1.002	SDummy-3	96	103.696	-0.299	0.000	0.00		0.2	OK
S1.003	SDummy-4	96	103.675	-0.136	0.000	0.02		0.2	OK
S1.004	SSMH-05	96	103.089	-0.216	0.000	0.01		0.3	OK
S1.005	SFC-03	96	103.055	-0.125	0.000	0.02		0.3	OK

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Summary Wizard of 15 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	24	103.805	-0.265	0.000	0.03	9.0	FLOOD RISK

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Summary Wizard of 15 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	32	103.778	-0.077	0.000	0.48			4.3	FLOOD RISK	
S1.002	SDummy-3	37	103.750	-0.245	0.000	0.02			5.9	OK	
S1.003	SDummy-4	37	103.749	-0.062	0.000	0.46			5.4	OK	
S1.004	SSMH-05	40	103.746	0.441	0.000	0.13			4.0	SURCHARGED	
S1.005	SFC-03	40	103.744	0.564	0.000	0.12			2.0	FLOOD RISK	

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Summary Wizard of 30 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	27	103.803	-0.267	0.000	0.03	6.9	FLOOD RISK

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Summary Wizard of 30 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Storm Level (m)	Depth (m)	Volume (m ³)					
S1.001	SDummy-2	28	103.781	-0.074	0.000	0.51		4.7	FLOOD RISK	
S1.002	SDummy-3	32	103.772	-0.223	0.000	0.03		6.1	FLOOD RISK	
S1.003	SDummy-4	32	103.772	-0.039	0.000	0.47		5.5	FLOOD RISK	
S1.004	SSMH-05	36	103.769	0.464	0.000	0.13		4.0	SURCHARGED	
S1.005	SFC-03	36	103.766	0.586	0.000	0.12		2.0	FLOOD RISK	

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Summary Wizard of 60 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	30	103.796	-0.274	0.000	0.02	4.4	FLOOD RISK

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Summary Wizard of 60 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Storm Level (m)	Depth (m)	Volume (m ³)					
S1.001	SDummy-2	31	103.780	-0.075	0.000	0.46		4.2	FLOOD RISK	
S1.002	SDummy-3	30	103.779	-0.216	0.000	0.02		5.3	FLOOD RISK	
S1.003	SDummy-4	30	103.779	-0.032	0.000	0.39		4.5	FLOOD RISK	
S1.004	SSMH-05	32	103.783	0.478	0.000	0.12		3.6	FLOOD RISK	
S1.005	SFC-03	34	103.781	0.601	0.000	0.12		2.0	FLOOD RISK	

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Summary Wizard of 120 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	32	103.793	-0.277	0.000	0.01	3.1	FLOOD RISK

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Summary Wizard of 120 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Time (mins)	
S1.001	SDummy-2	25	103.792	-0.063	0.000	0.38		3.5	FLOOD RISK
S1.002	SDummy-3	25	103.789	-0.206	0.000	0.02		4.5	FLOOD RISK
S1.003	SDummy-4	25	103.789	-0.022	0.000	0.30		3.6	FLOOD RISK
S1.004	SSMH-05	27	103.800	0.495	0.000	0.10		3.1	FLOOD RISK
S1.005	SFC-03	27	103.799	0.619	0.000	0.12		2.0	FLOOD RISK

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Summary Wizard of 180 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins) (l/s)	
S1.000	SDummy-1	34	103.791	-0.279	0.000	0.01	2.4	FLOOD RISK

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Summary Wizard of 180 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow					
S1.001	SDummy-2	26	103.790	-0.065	0.000	0.32			2.9	FLOOD RISK	
S1.002	SDummy-3	26	103.788	-0.207	0.000	0.02			3.7	FLOOD RISK	
S1.003	SDummy-4	26	103.788	-0.023	0.000	0.30			3.5	FLOOD RISK	
S1.004	SSMH-05	25	103.817	0.512	0.000	0.09			2.9	FLOOD RISK	
S1.005	SFC-03	25	103.818	0.638	0.000	0.12			2.0	FLOOD RISK	

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Summary Wizard of 240 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	40	103.786	-0.284	0.000	0.01	2.0	FLOOD RISK

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Summary Wizard of 240 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Time (mins)	
S1.001	SDummy-2	27	103.783	-0.072	0.000	0.27		2.5	FLOOD RISK
S1.002	SDummy-3	27	103.781	-0.214	0.000	0.01		3.2	FLOOD RISK
S1.003	SDummy-4	27	103.781	-0.030	0.000	0.26		3.0	FLOOD RISK
S1.004	SSMH-05	29	103.788	0.483	0.000	0.09		2.6	FLOOD RISK
S1.005	SFC-03	29	103.787	0.607	0.000	0.12		2.0	FLOOD RISK

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Summary Wizard of 360 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	49	103.779	-0.291	0.000	0.01	1.5	FLOOD RISK

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Summary Wizard of 360 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
S1.001	SDummy-2	38	103.764	-0.091	0.000	0.22		2.0	OK
S1.002	SDummy-3	35	103.762	-0.233	0.000	0.01		2.5	OK
S1.003	SDummy-4	35	103.762	-0.049	0.000	0.23		2.7	OK
S1.004	SSMH-05	33	103.782	0.477	0.000	0.08		2.4	FLOOD RISK
S1.005	SFC-03	32	103.783	0.603	0.000	0.12		2.0	FLOOD RISK

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Summary Wizard of 480 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins) (l/s)	
S1.000	SDummy-1	54	103.777	-0.293	0.000	0.00	1.2	FLOOD RISK

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Summary Wizard of 480 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	54	103.748	-0.107	0.000	0.18			1.6	OK	
S1.002	SDummy-3	40	103.735	-0.260	0.000	0.01			2.0	OK	
S1.003	SDummy-4	40	103.734	-0.077	0.000	0.20			2.3	OK	
S1.004	SSMH-05	38	103.759	0.454	0.000	0.08			2.3	SURCHARGED	
S1.005	SFC-03	38	103.758	0.578	0.000	0.12			2.0	FLOOD RISK	

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Summary Wizard of 600 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	58	103.775	-0.295	0.000	0.00	1.0	FLOOD RISK

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Summary Wizard of 600 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	57	103.744	-0.111	0.000	0.15			1.4		OK
S1.002	SDummy-3	57	103.711	-0.284	0.000	0.01			1.7		OK
S1.003	SDummy-4	56	103.703	-0.108	0.000	0.17			2.0		OK
S1.004	SSMH-05	50	103.685	0.380	0.000	0.07			2.2		SURCHARGED
S1.005	SFC-03	50	103.682	0.502	0.000	0.12			2.0		FLOOD RISK

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Summary Wizard of 720 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	63	103.774	-0.296	0.000	0.00	0.8	FLOOD RISK

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Summary Wizard of 720 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	62	103.741	-0.114	0.000	0.13			1.2	OK	
S1.002	SDummy-3	62	103.708	-0.287	0.000	0.01			1.5	OK	
S1.003	SDummy-4	62	103.699	-0.112	0.000	0.15			1.8	OK	
S1.004	SSMH-05	60	103.185	-0.120	0.000	0.07			2.0	OK	
S1.005	SFC-03	60	103.182	0.002	0.000	0.11			2.0	SURCHARGED	

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Summary Wizard of 960 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins) (l/s)	
S1.000	SDummy-1	67	103.773	-0.297	0.000	0.00	0.6	FLOOD RISK

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Summary Wizard of 960 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	67	103.737	-0.118	0.000	0.10		0.9	OK
S1.002	SDummy-3	67	103.705	-0.290	0.000	0.00		1.2	OK
S1.003	SDummy-4	67	103.695	-0.116	0.000	0.12		1.4	OK
S1.004	SSMH-05	67	103.124	-0.181	0.000	0.05		1.6	OK
S1.005	SFC-03	67	103.111	-0.069	0.000	0.09		1.6	OK

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Summary Wizard of 1440 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	74	103.772	-0.298	0.000	0.00	0.5	FLOOD RISK

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Summary Wizard of 1440 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
S1.001	SDummy-2	75	103.731	-0.124	0.000	0.07			0.7	OK
S1.002	SDummy-3	74	103.701	-0.294	0.000	0.00			0.8	OK
S1.003	SDummy-4	75	103.690	-0.121	0.000	0.08			1.0	OK
S1.004	SSMH-05	75	103.111	-0.194	0.000	0.04			1.1	OK
S1.005	SFC-03	75	103.089	-0.091	0.000	0.07			1.1	OK

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Summary Wizard of 2160 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	82	103.772	-0.298	0.000	0.00	0.3	FLOOD RISK

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Summary Wizard of 2160 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.001	SDummy-2	82	103.727	-0.128	0.000	0.05			0.5	OK
S1.002	SDummy-3	82	103.699	-0.296	0.000	0.00			0.6	OK
S1.003	SDummy-4	82	103.685	-0.126	0.000	0.06			0.7	OK
S1.004	SSMH-05	82	103.105	-0.200	0.000	0.03			0.8	OK
S1.005	SFC-03	82	103.077	-0.103	0.000	0.05			0.8	OK

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Summary Wizard of 2880 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	85	103.771	-0.299	0.000	0.00	0.3	FLOOD RISK

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Summary Wizard of 2880 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	86	103.725	-0.130	0.000	0.04		0.4	OK
S1.002	SDummy-3	85	103.698	-0.297	0.000	0.00		0.5	OK
S1.003	SDummy-4	86	103.682	-0.129	0.000	0.05		0.6	OK
S1.004	SSMH-05	86	103.103	-0.202	0.000	0.02		0.6	OK
S1.005	SFC-03	86	103.071	-0.109	0.000	0.04		0.6	OK

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Summary Wizard of 4320 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	90	103.771	-0.299	0.000	0.00	0.2	FLOOD RISK

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Summary Wizard of 4320 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe	Status
									Flow (l/s)	
S1.001	SDummy-2	90	103.722	-0.133	0.000	0.03			0.3	OK
S1.002	SDummy-3	89	103.697	-0.298	0.000	0.00			0.3	OK
S1.003	SDummy-4	90	103.679	-0.132	0.000	0.04			0.4	OK
S1.004	SSMH-05	90	103.097	-0.208	0.000	0.02			0.5	OK
S1.005	SFC-03	90	103.064	-0.116	0.000	0.03			0.5	OK

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Summary Wizard of 5760 minute 5 year Winter I+20% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	94	103.771	-0.299	0.000	0.00	0.2	FLOOD RISK

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Summary Wizard of 5760 minute 5 year Winter I+20% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (1/s)	Time (mins)	
S1.001	SDummy-2	93	103.721	-0.134	0.000	0.02		0.2	OK
S1.002	SDummy-3	92	103.697	-0.298	0.000	0.00		0.3	OK
S1.003	SDummy-4	93	103.678	-0.133	0.000	0.03		0.3	OK
S1.004	SSMH-05	93	103.093	-0.212	0.000	0.01		0.4	OK
S1.005	SFC-03	93	103.060	-0.120	0.000	0.02		0.4	OK

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Summary Wizard of 15 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	19	103.870	-0.200	0.000	0.09	24.3	FLOOD RISK

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Summary Wizard of 15 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	19	103.870	0.015	0.000	0.96			8.8	FLOOD RISK	
S1.002	SDummy-3	19	103.866	-0.129	0.000	0.07			16.8	FLOOD RISK	
S1.003	SDummy-4	19	103.866	0.055	0.000	0.51			6.0	FLOOD RISK	
S1.004	SSMH-05	22	103.865	0.560	0.000	0.24			7.3	FLOOD RISK	
S1.005	SFC-03	23	103.863	0.683	0.000	0.12			2.1	FLOOD RISK	

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Summary Wizard of 30 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	14	103.905	-0.165	0.000	0.07	19.0	FLOOD RISK

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Summary Wizard of 30 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	14	103.905	0.050	0.000	0.90			8.2	FLOOD RISK	
S1.002	SDummy-3	14	103.901	-0.094	0.000	0.06			14.9	FLOOD RISK	
S1.003	SDummy-4	14	103.901	0.090	0.000	0.56			6.6	FLOOD RISK	
S1.004	SSMH-05	20	103.900	0.595	0.000	0.20			6.1	FLOOD RISK	
S1.005	SFC-03	21	103.898	0.718	0.000	0.13			2.2	FLOOD RISK	

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Summary Wizard of 60 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	8	103.926	-0.144	0.000	0.05	12.2	FLOOD RISK

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Summary Wizard of 60 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow					
S1.001	SDummy-2	8	103.926	0.071	0.000	0.69			6.3	FLOOD RISK	
S1.002	SDummy-3	9	103.923	-0.072	0.000	0.04			10.1	FLOOD RISK	
S1.003	SDummy-4	9	103.923	0.112	0.000	0.39			4.6	FLOOD RISK	
S1.004	SSMH-05	10	103.918	0.613	0.000	0.14			4.2	FLOOD RISK	
S1.005	SFC-03	9	103.915	0.735	0.000	0.13			2.2	FLOOD RISK	

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Summary Wizard of 120 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40


WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 120 minute 100 year Winter I+40% for Storm


PN	Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (1/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (1/s)	Overflow (1/s)			

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Summary Wizard of 120 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.000	SDummy-1	3	103.940	-0.130	0.000	0.03			7.9	FLOOD RISK	
S1.001	SDummy-2	3	103.940	0.085	0.000	0.45			4.1	FLOOD RISK	
S1.002	SDummy-3	3	103.935	-0.060	0.000	0.02			5.9	FLOOD RISK	
S1.003	SDummy-4	3	103.935	0.124	0.000	0.32			3.7	FLOOD RISK	
S1.004	SSMH-05	3	103.928	0.623	0.000	0.14			4.3	FLOOD RISK	
S1.005	SFC-03	3	103.924	0.744	4.692	0.13			2.2	FLOOD	

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Summary Wizard of 180 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40


WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 180 minute 100 year Winter I+40% for Storm


PN	Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (1/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (1/s)	Overflow (1/s)			

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Summary Wizard of 180 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Time (mins)	
S1.000	SDummy-1	1	103.942	-0.128	0.000	0.02		6.1	FLOOD RISK
S1.001	SDummy-2	1	103.942	0.087	0.000	0.37		3.3	FLOOD RISK
S1.002	SDummy-3	1	103.937	-0.058	0.000	0.02		4.6	FLOOD RISK
S1.003	SDummy-4	1	103.937	0.126	0.000	0.37		4.3	FLOOD RISK
S1.004	SSMH-05	1	103.929	0.624	0.000	0.17		5.2	FLOOD RISK
S1.005	SFC-03	1	103.925	0.745	6.344	0.13		2.2	FLOOD

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Summary Wizard of 240 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40


WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 240 minute 100 year Winter I+40% for Storm


PN	Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (1/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (1/s)	Overflow (1/s)			

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Summary Wizard of 240 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Time (mins)	
S1.000	SDummy-1	2	103.942	-0.128	0.000	0.02		4.9	FLOOD RISK
S1.001	SDummy-2	2	103.942	0.087	0.000	0.32		2.9	FLOOD RISK
S1.002	SDummy-3	2	103.937	-0.058	0.000	0.02		3.8	FLOOD RISK
S1.003	SDummy-4	2	103.936	0.125	0.000	0.33		3.9	FLOOD RISK
S1.004	SSMH-05	2	103.929	0.624	0.000	0.15		4.5	FLOOD RISK
S1.005	SFC-03	2	103.925	0.745	6.288	0.13		2.2	FLOOD

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Summary Wizard of 360 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40


WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 360 minute 100 year Winter I+40% for Storm


PN	Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (1/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (1/s)	Overflow (1/s)			

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Summary Wizard of 360 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Time (mins)	
S1.000	SDummy-1	4	103.936	-0.134	0.000	0.01		3.6	FLOOD RISK
S1.001	SDummy-2	4	103.936	0.081	0.000	0.27		2.5	FLOOD RISK
S1.002	SDummy-3	4	103.932	-0.063	0.000	0.01		3.3	FLOOD RISK
S1.003	SDummy-4	4	103.932	0.121	0.000	0.29		3.5	FLOOD RISK
S1.004	SSMH-05	4	103.926	0.621	0.000	0.11		3.5	FLOOD RISK
S1.005	SFC-03	4	103.923	0.743	3.812	0.13		2.2	FLOOD

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Summary Wizard of 480 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40


WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 480 minute 100 year Winter I+40% for Storm


PN	Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	

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Summary Wizard of 480 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.000	SDummy-1	6	103.929	-0.141	0.000	0.01			2.9	FLOOD RISK	
S1.001	SDummy-2	6	103.929	0.074	0.000	0.38			3.5	FLOOD RISK	
S1.002	SDummy-3	6	103.926	-0.069	0.000	0.02			4.1	FLOOD RISK	
S1.003	SDummy-4	6	103.926	0.115	0.000	0.42			4.9	FLOOD RISK	
S1.004	SSMH-05	7	103.922	0.617	0.000	0.13			4.0	FLOOD RISK	
S1.005	SFC-03	6	103.919	0.739	0.450	0.13			2.2	FLOOD	

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Summary Wizard of 600 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	12	103.914	-0.156	0.000	0.01	2.4	FLOOD RISK

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Summary Wizard of 600 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	12	103.914	0.059	0.000	0.23			2.1	FLOOD RISK	
S1.002	SDummy-3	11	103.911	-0.084	0.000	0.01			2.7	FLOOD RISK	
S1.003	SDummy-4	11	103.911	0.100	0.000	0.22			2.6	FLOOD RISK	
S1.004	SSMH-05	13	103.916	0.611	0.000	0.08			2.4	FLOOD RISK	
S1.005	SFC-03	17	103.911	0.731	0.000	0.13			2.2	FLOOD RISK	

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Summary Wizard of 720 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	16	103.892	-0.178	0.000	0.01	2.0	FLOOD RISK

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Summary Wizard of 720 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)				
S1.001	SDummy-2	16	103.892	0.037	0.000	0.21			1.9	FLOOD RISK	
S1.002	SDummy-3	16	103.891	-0.104	0.000	0.01			2.5	FLOOD RISK	
S1.003	SDummy-4	16	103.891	0.080	0.000	0.22			2.5	FLOOD RISK	
S1.004	SSMH-05	12	103.917	0.612	0.000	0.08			2.3	FLOOD RISK	
S1.005	SFC-03	14	103.911	0.731	0.000	0.13			2.2	FLOOD RISK	

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Summary Wizard of 960 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	21	103.856	-0.214	0.000	0.01	1.6	FLOOD RISK

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Summary Wizard of 960 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.001	SDummy-2	21	103.856	0.001	0.000	0.20			1.8	FLOOD RISK
S1.002	SDummy-3	21	103.854	-0.141	0.000	0.01			2.2	FLOOD RISK
S1.003	SDummy-4	21	103.855	0.044	0.000	0.21			2.5	FLOOD RISK
S1.004	SSMH-05	17	103.913	0.608	0.000	0.08			2.3	FLOOD RISK
S1.005	SFC-03	13	103.911	0.731	0.000	0.12			2.1	FLOOD RISK

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Summary Wizard of 1440 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Time (mins)	
S1.000	SDummy-1	28	103.802	-0.268	0.000	0.00	1.1	FLOOD RISK

Atkins Global		Page 202
18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	British Land Interim Surrey Quays	
Date 04/08/2023 File BRITISH LAND INTERIM_V2.MDX	Designed by AK Checked by PS	
XP Solutions	Network 2020.1.3	

Summary Wizard of 1440 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)			
S1.001	SDummy-2	24	103.801	-0.054	0.000	0.17	1.5	FLOOD RISK	
S1.002	SDummy-3	24	103.810	-0.185	0.000	0.01	1.9	FLOOD RISK	
S1.003	SDummy-4	24	103.810	-0.001	0.000	0.17	2.0	FLOOD RISK	
S1.004	SSMH-05	23	103.865	0.560	0.000	0.07	2.1	FLOOD RISK	
S1.005	SFC-03	18	103.911	0.731	0.000	0.12	2.0	FLOOD RISK	

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	British Land Interim Surrey Quays	
Date 04/08/2023 File BRITISH LAND INTERIM_V2.MDX	Designed by AK Checked by PS	
XP Solutions	Network 2020.1.3	

Summary Wizard of 2160 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40


PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	64	103.774	-0.296	0.000	0.00	0.8	FLOOD RISK

Atkins Global		Page 204
18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	British Land Interim Surrey Quays	
Date 04/08/2023 File BRITISH LAND INTERIM_V2.MDX	Designed by AK Checked by PS	
XP Solutions	Network 2020.1.3	

Summary Wizard of 2160 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.001	SDummy-2	63	103.740	-0.115	0.000	0.13			1.1	OK
S1.002	SDummy-3	63	103.708	-0.287	0.000	0.01			1.4	OK
S1.003	SDummy-4	63	103.699	-0.112	0.000	0.15			1.7	OK
S1.004	SSMH-05	62	103.177	-0.128	0.000	0.06			1.9	OK
S1.005	SFC-03	62	103.174	-0.006	0.000	0.11			1.9	OK

Accepted as Noted CAT 2

Atkins Global		Page 205
18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	British Land Interim Surrey Quays	
Date 04/08/2023 File BRITISH LAND INTERIM_V2.MDX	Designed by AK Checked by PS	
XP Solutions	Network 2020.1.3	

Summary Wizard of 2880 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	70	103.773	-0.297	0.000	0.00	0.6	FLOOD RISK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryanan - 122 002, India / Tel. +911...	British Land Interim Surrey Quays	
Date 04/08/2023 File BRITISH LAND INTERIM_V2.MDX	Designed by AK Checked by PS	
XP Solutions	Network 2020.1.3	

Summary Wizard of 2880 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.001	SDummy-2	68	103.736	-0.119	0.000	0.10			0.9	OK
S1.002	SDummy-3	69	103.704	-0.291	0.000	0.00			1.1	OK
S1.003	SDummy-4	68	103.694	-0.117	0.000	0.11			1.3	OK
S1.004	SSMH-05	68	103.121	-0.184	0.000	0.05			1.5	OK
S1.005	SFC-03	68	103.107	-0.073	0.000	0.09			1.5	OK

Atkins Global		Page 207
18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	British Land Interim Surrey Quays	
Date 04/08/2023 File BRITISH LAND INTERIM_V2.MDX	Designed by AK Checked by PS	
XP Solutions	Network 2020.1.3	

Summary Wizard of 4320 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	78	103.772	-0.298	0.000	0.00	0.4	FLOOD RISK

Atkins Global		Page 208
18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	British Land Interim Surrey Quays	
Date 04/08/2023 File BRITISH LAND INTERIM_V2.MDX	Designed by AK Checked by PS	
XP Solutions	Network 2020.1.3	

Summary Wizard of 4320 minute 100 year Winter I+40% for Storm

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.001	SDummy-2	77	103.730	-0.125	0.000	0.07			0.6	OK
S1.002	SDummy-3	78	103.700	-0.295	0.000	0.00			0.8	OK
S1.003	SDummy-4	77	103.689	-0.122	0.000	0.08			0.9	OK
S1.004	SSMH-05	77	103.109	-0.196	0.000	0.03			1.1	OK
S1.005	SFC-03	77	103.086	-0.094	0.000	0.06			1.1	OK

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18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryana - 122 002, India / Tel. +911...	British Land Interim Surrey Quays	
Date 04/08/2023 File BRITISH LAND INTERIM_V2.MDX	Designed by AK Checked by PS	
XP Solutions	Network 2020.1.3	

Summary Wizard of 5760 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 535589 179023 TQ 35589 79023 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DTS Status ON Inertia Status OFF
Analysis Timestep Fine DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,
4320, 5760
Return Period(s) (years) 2, 5, 100
Climate Change (%) 0, 20, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time Flow (mins)	
S1.000	SDummy-1	81	103.772	-0.298	0.000	0.00	0.3	FLOOD RISK

Atkins Global		Page 210
18th Fl, Tower C, Cyber Green Building DLF Cyber City, DLF Phase - III Gurgaon, Haryanan - 122 002, India / Tel. +911...	British Land Interim Surrey Quays	
Date 04/08/2023 File BRITISH LAND INTERIM_V2.MDX	Designed by AK Checked by PS	
XP Solutions	Network 2020.1.3	

Summary Wizard of 5760 minute 100 year Winter I+40% for Storm

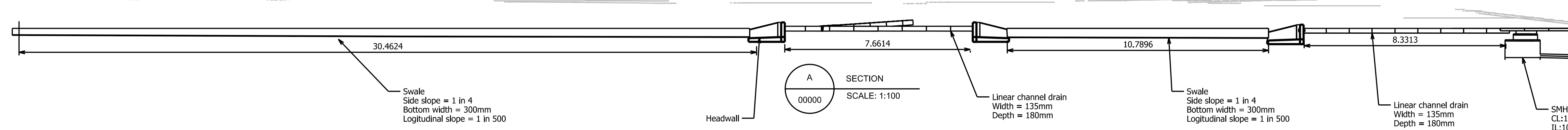
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.001	SDummy-2	81	103.727	-0.128	0.000	0.05			0.5	OK
S1.002	SDummy-3	81	103.699	-0.296	0.000	0.00			0.6	OK
S1.003	SDummy-4	81	103.685	-0.126	0.000	0.06			0.7	OK
S1.004	SSMH-05	81	103.105	-0.200	0.000	0.03			0.8	OK
S1.005	SFC-03	81	103.077	-0.103	0.000	0.05			0.8	OK

Accepted as Noted CAT 2

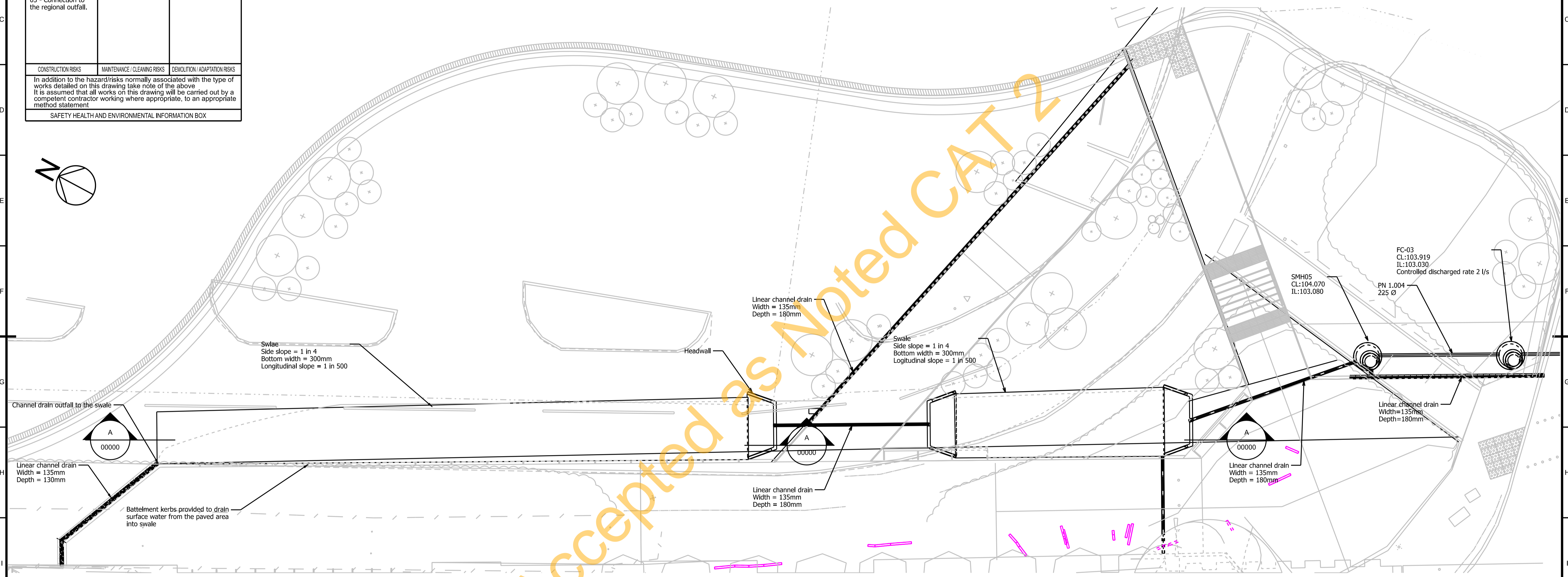
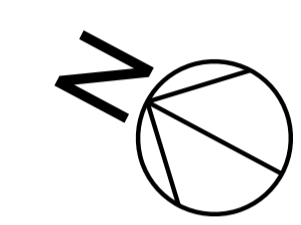
Appendix F. Proposed Drainage Layout

Accepted as Noted CAT 2

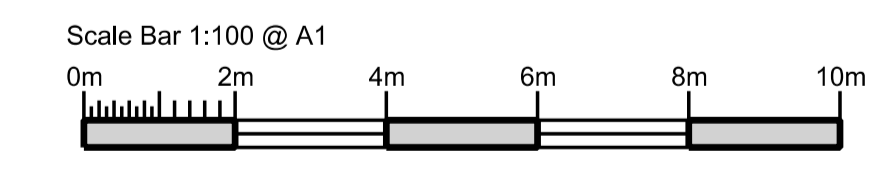
© Atkins Limited except where stated otherwise



01 - Excavating in proximity to paved areas. 02 - Head wall and pipe connection. 03 - Connection to the regional outfall.	01 - Channel drain placed to collect surface water from landscaped area. 02 - Head wall pipe connection.	
CONSTRUCTION RISKS	MAINTENANCE / CLEANING RISKS	DEMOLITION / ADAPTATION RISKS
In addition to the hazard/risks normally associated with the type of works detailed on this drawing take note of the above. It is assumed that all works on this drawing will be carried out by a competent contractor working where appropriate, to an appropriate method statement.		
SAFETY HEALTH AND ENVIRONMENTAL INFORMATION BOX		



A PLAN
00000 SCALE: 1:100



Key plan

Notes:

- All dimensions are in millimeters unless mentioned. All levels are in meters.
- Drainage strategy is dependent on confirmation from lead local flood authority.
- The design is proposed with the confirmation that landscape design will provide provisions for SUDS options.
- For proposed linear channel and slotted drains contractor to use aco road drains or equivalent.
- Battlement kerbs are provided to collect surface water directly from paved area along the swale.
- The headwall pipe connection acts as both collection and conveyance system.

This drawing is to be read in conjunction with:

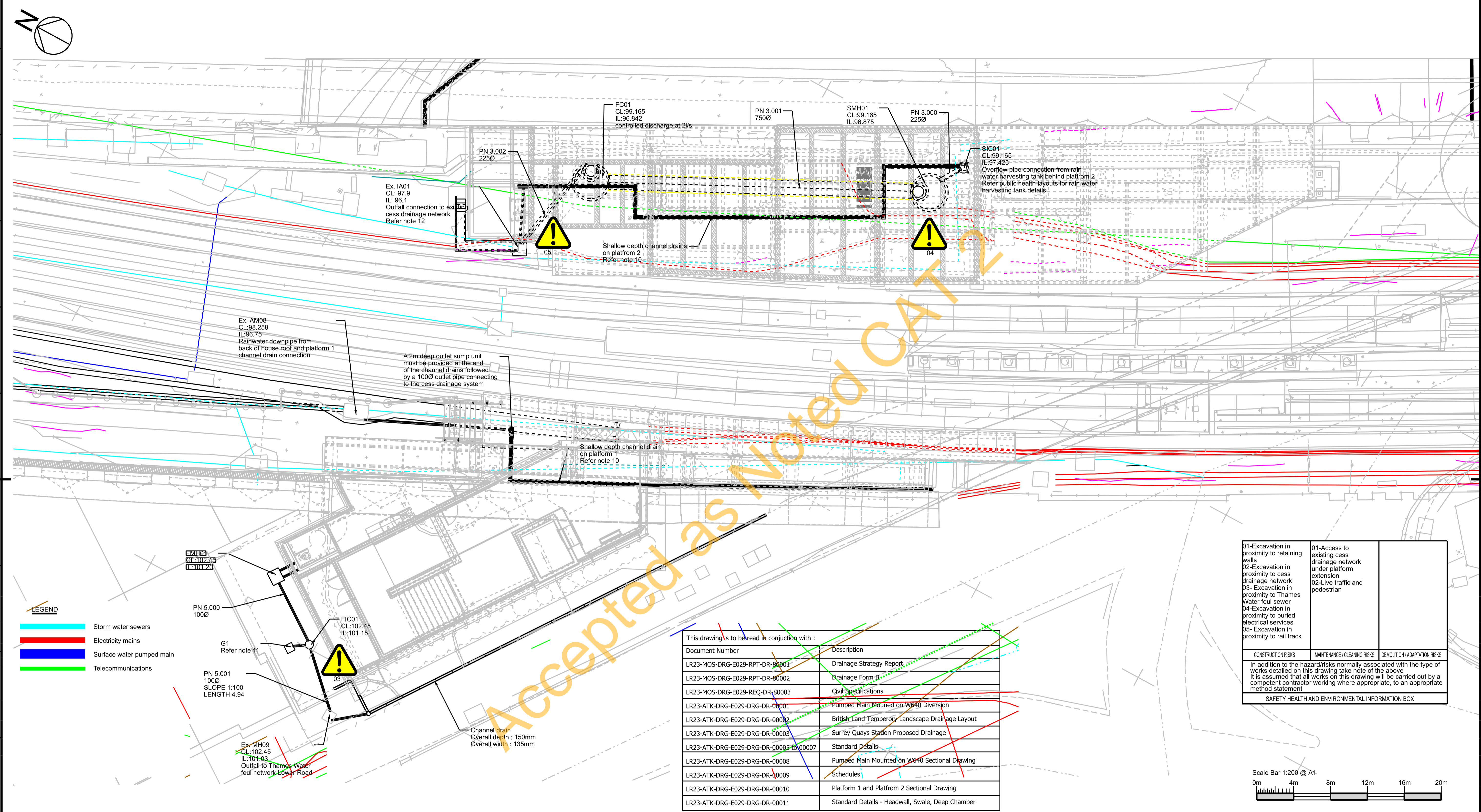
Document Number	Description
LR23-MOS-DRG-E029-RPT-DR-80001	Drainage strategy report
LR23-MOS-DRG-E029-RPT-DR-80002	Drainage Form B
LR23-MOS-DRG-E029-REQ-DR-80003	Civil Specifications
LR23-ATK-DRG-E029-DRG-DR-00001	Pumped Main mounted on W640 general plan
LR23-ATK-DRG-E029-DRG-DR-00003 to 00004	Station Drainage
LR23-ATK-DRG-E029-DRG-DR-00005 to 00007	Standard Details
LR23-ATK-DRG-E029-DRG-DR-00008	Pumped main mounted on W640 sectional drawing
LR23-ATK-DRG-E029-DRG-DR-00009	Schedules
LR23-ATK-DRG-E029-DRG-DR-00010	Platform 1 and Platform 2 sectional drawing
LR23-ATK-DRG-E029-DRG-DR-00011	Standard details - Headwall, Swale, deep chamber

TFL RESTRICTED

Rev	Date	Purpose / Description	T. Checked	T. Approved	P. Approved	Authorised
P01.1	2023/09/20					

Project	SURREY QUAYS STATION UPGRADE
Originator	ATKINS GROUP
Location	SURREY QUAYS
Asset Classification	DRAINAGE
Lifecycle	
Suitability	S0 NON-VERIFIED DATA

Title	
BRITISH LAND TEMPORARY LANDSCAPE DRAINAGE LAYOUT	
LR23-ATK-DRG-E029-DRG-DR-00002	Rev. P01.1



LEGEND

	Storm water sewers
	Electricity mains
	Surface water pumped main
	Telecommunications

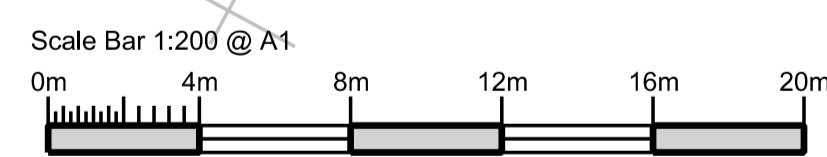
This drawing is to be read in conjunction with:

Document Number	Description
LR23-MOS-DRG-E029-RPT-DR-0001	Drainage Strategy Report
LR23-MOS-DRG-E029-RPT-DR-0002	Drainage Form B
LR23-MOS-DRG-E029-REQ-DR-0003	Civil Specifications
LR23-ATK-DRG-E029-DRG-DR-0001	Pumped Main Mounted on W640 Diversion
LR23-ATK-DRG-E029-DRG-DR-0002	British Land Temporary Landscape Drainage Layout
LR23-ATK-DRG-E029-DRG-DR-0003	Surrey Quays Station Proposed Drainage
LR23-ATK-DRG-E029-DRG-DR-0005 to 0007	Standard Details
LR23-ATK-DRG-E029-DRG-DR-0008	Pumped Main Mounted on W640 Sectional Drawing
LR23-ATK-DRG-E029-DRG-DR-0009	Schedules
LR23-ATK-DRG-E029-DRG-DR-00010	Platform 1 and Platform 2 Sectional Drawing
LR23-ATK-DRG-E029-DRG-DR-00011	Standard Details - Headwall, Swale, Deep Chamber

01-Excavation in proximity to retaining walls	01-Access to existing cess drainage network under platform extension	
02-Excavation in proximity to cess drainage network	02-Live traffic and pedestrian	
03-Excavation in proximity to Thames Water foul sewer		
04-Excavation in proximity to buried electrical services		
05-Excavation in proximity to rail track		

In addition to the hazard/risks normally associated with the type of works detailed on this drawing take note of the above. It is assumed that all works on this drawing will be carried out by a competent contractor working where appropriate, to an appropriate method statement.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION BOX



Key plan

Notes:

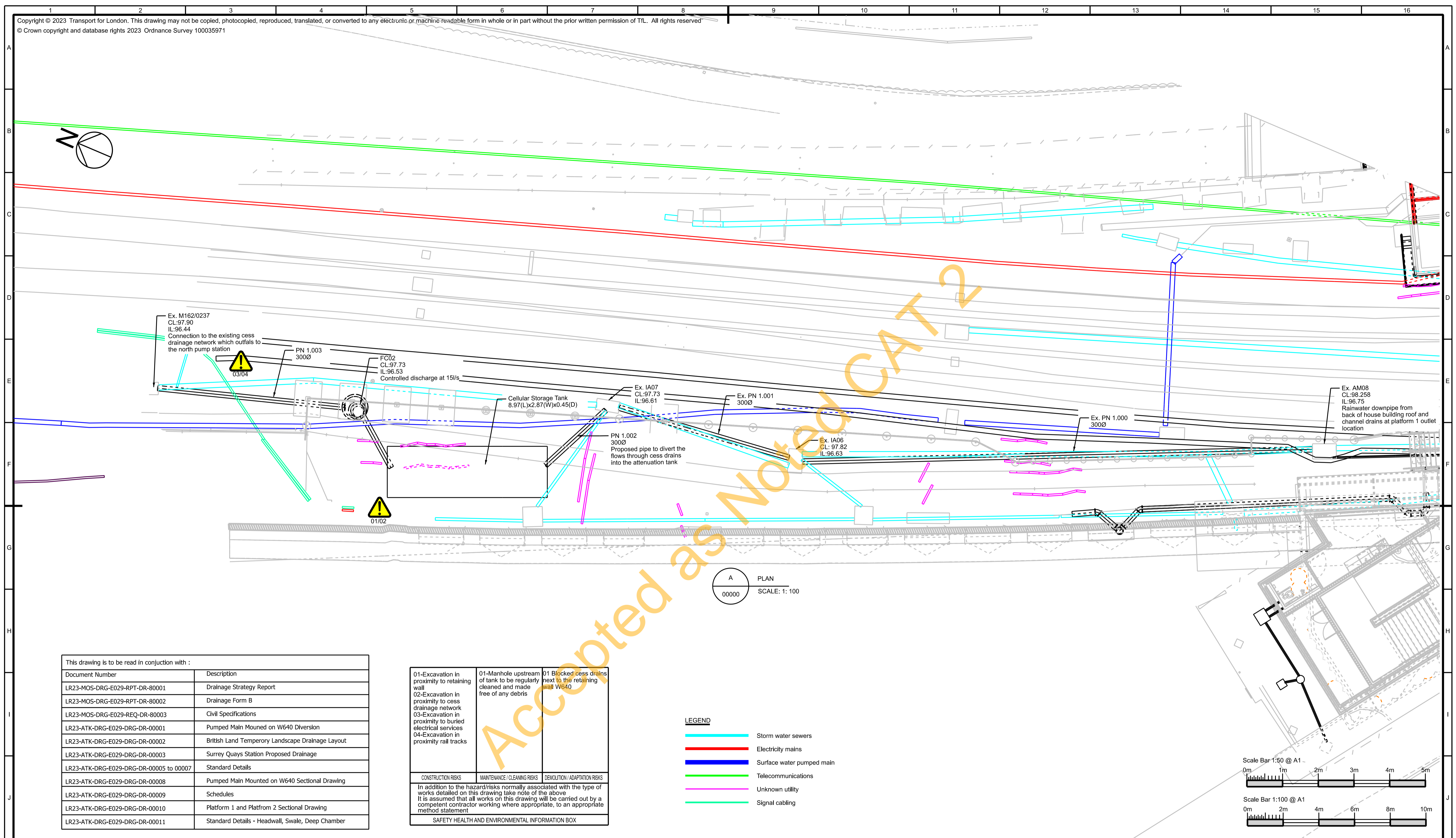
- All dimensions are in millimetres unless otherwise stated and all levels in meters above ordnance datum
- All ground levels, pipe levels and existing levels to be confirmed by trial pits prior to construction
- Jetting and resurvey is to be carried out for the pipes where survey is abandoned
- Existing cess drainage details are taken from the ground penetration radar survey (Ref:48150-pcl-ut-bx-dr-y-10002, January 2023) which may be inaccurate. All details location, alignment, levels, chamber details and connection must be confirmed prior to construction to prevent damage to existing assets
- Sleeves are to be provided at necessary locations for foul water and surface water drainage pipes to cross the wall
- Location of the rainwater pipes and foul connections to be read from public health drawings as applicable
- The runoff from platforms is collected using channel drains which is finally diverted to outfall into the cess drainage network at MH AM08 for platform 1 and MH IA01 for platform 2
- Runoff from the ticket hall roof is collected in the rainwater harvesting tank located at the back of platform 2. Overflow from the rainwater harvesting tank is directed to the surface water oversize attenuation pipe under platform 2
- Existing cess drainage network and the north pump station is assumed to have the capacity to receive additional flows from the proposed extension works.
- ACO multidrain MD channel m150d no.0100 or similar to be used as surface water channel drains on platform surface. ACO universal gully or similar product to be provided for outlet unit.
- Gully is proposed in the wandle car park area to collect waste water and leachate from the bin store area.
- Existing brick manhole ref. IA01 to be replaced by a similar concrete or hdpe manhole such that the cover level of the manhole increases to the platform level (99.165m aod)
- Existing Thames water network is assumed to have the capacity to allow the increased discharge
- The grating for the channel drains on platforms must be ACO heelguard 6mm rail intercept grates or similar.

TFL RESTRICTED

Rev	Date	Purpose / Description	Drawn	T. Checked	T. Approved	P. Approved	Authorised
P01.1	2023/09/22						

Project	SURREY QUAYS STATION UPGRADE
Originator	ATKINS GROUP
Location	SURREY QUAYS
Asset Classification	DRAINAGE
Lifecycle	
Suitability	S0 NON-VERIFIED DATA

Title	PROPOSED STATION DRAINAGE
GENERAL ARRANGEMENT	
SHEET 1 OF 2	
Drawing Number	LR23-ATK-DRG-E029-DRG-DR-00003
Rev.	P01.1



A PLAN
 00000 SCALE: 1: 100

This drawing is to be read in conjunction with :

Document Number	Description
LR23-MOS-DRG-E029-RPT-DR-80001	Drainage Strategy Report
LR23-MOS-DRG-E029-RPT-DR-80002	Drainage Form B
LR23-MOS-DRG-E029-REQ-DR-80003	Civil Specifications
LR23-ATK-DRG-E029-DRG-DR-00001	Pumped Main Mounded on W640 Diversion
LR23-ATK-DRG-E029-DRG-DR-00002	British Land Temporary Landscape Drainage Layout
LR23-ATK-DRG-E029-DRG-DR-00003	Surrey Quays Station Proposed Drainage
LR23-ATK-DRG-E029-DRG-DR-00005 to 00007	Standard Details
LR23-ATK-DRG-E029-DRG-DR-00008	Pumped Main Mounted on W640 Sectional Drawing
LR23-ATK-DRG-E029-DRG-DR-00009	Schedules
LR23-ATK-DRG-E029-DRG-DR-00010	Platform 1 and Platform 2 Sectional Drawing
LR23-ATK-DRG-E029-DRG-DR-00011	Standard Details - Headwall, Swale, Deep Chamber

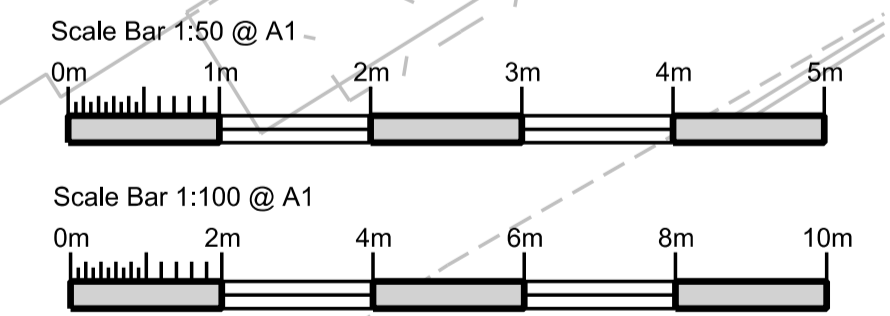
CONSTRUCTION RISKS	MAINTENANCE / CLEANING RISKS	DEMOLITION / ADAPTATION RISKS
01-Excavation in proximity to retaining wall	01-Manhole upstream of tank to be regularly cleaned and made free of any debris	01 Blocked cess drains next to the retaining wall W640
02-Excavation in proximity to cess drainage network		
03-Excavation in proximity to buried electrical services		
04-Excavation in proximity rail tracks		

In addition to the hazard/risks normally associated with the type of works detailed on this drawing take note of the above. It is assumed that all works on this drawing will be carried out by a competent contractor working where appropriate, to an appropriate method statement.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION BOX

LEGEND

	Storm water sewers
	Electricity mains
	Surface water pumped main
	Telecommunications
	Unknown utility
	Signal cabling



Key plan

Notes:

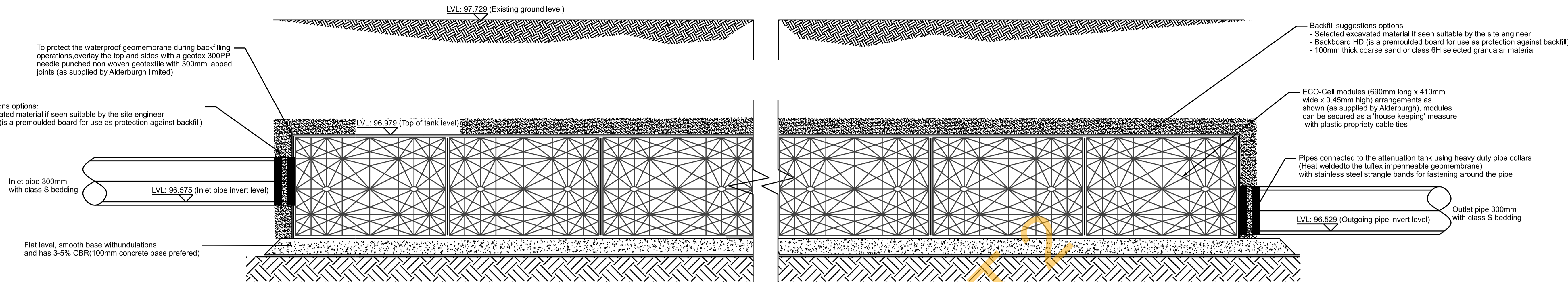
- All dimensions are in millimetres unless otherwise stated and all levels in meters above ordnance datum
- All ground levels, pipe levels and existing levels to be confirmed by trail pits prior to construction
- Jetting and resurvey is to be carried out for the pipes where survey is abandoned
- Existing cess drainage details are taken from the Ground Penetration Radar (GPR) survey (ref:48150-PCL-UT-TXX-DR-Y-10002, January 2023). The details missing in the GPR survey are taken from Central Section Drainage Surrey Quays General Arrangement (ref:Z-E029-DC-000-20077).
- All details, location, alignment levels, chamber details and connection must be confirmed prior to construction. Contractor to prevent damage to existing assets.
- Sleeves are to be provided at necessary locations for foul water and surface water drainage pipes to cross the wall.
- Location of the rainwater pipes to be read from public health drawings as applicable
- Existing cess drainage network and the north pump station is assumed to have the capacity to receive additional flows from the proposed extension works.
- ACO multidrain md channel m150d no.0100 or similar to be used as surface water channel drains on platform surface. ACO universal gully or similar product to be provided for outlet unit.
- For bedding and backfill details refer to drawing number LR23-ATK-DRG-E029-DRG-DR-000006
- For pipe cover levels, dimensions and slope refer schedules LR23-ATK-DRG-E029-DRG-DR-000009
- The proposed drainage network continuation is shown in drawing number LR23-ATK-DRG-E029-DRG-DR-000003

TFL RESTRICTED

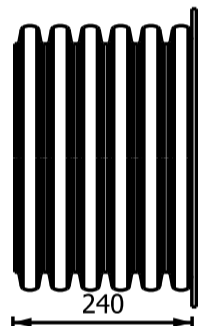
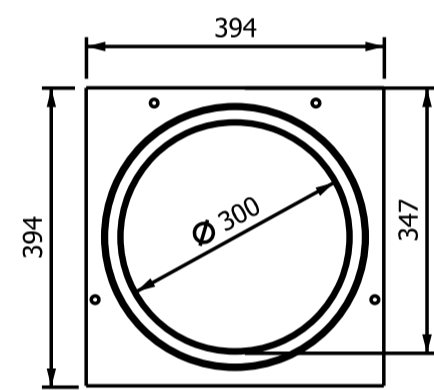
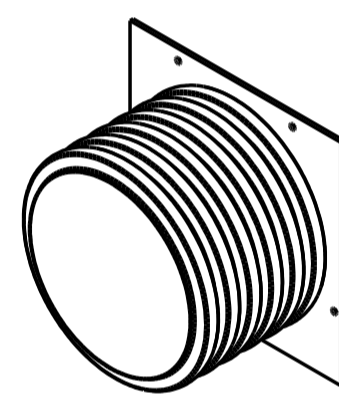
Rev	Date	Purpose / Description	Drawn	T. Checked	T. Approved	P. Approved	Authorised
P01.1	2023/07/26						

Project	SURREY QUAYS STATION UPGRADE
Originator	ATKINS GROUP
Location	SURREY QUAYS
Asset Classification	DRAINAGE
Lifecycle	
Suitability	S0 NON-VERIFIED DATA

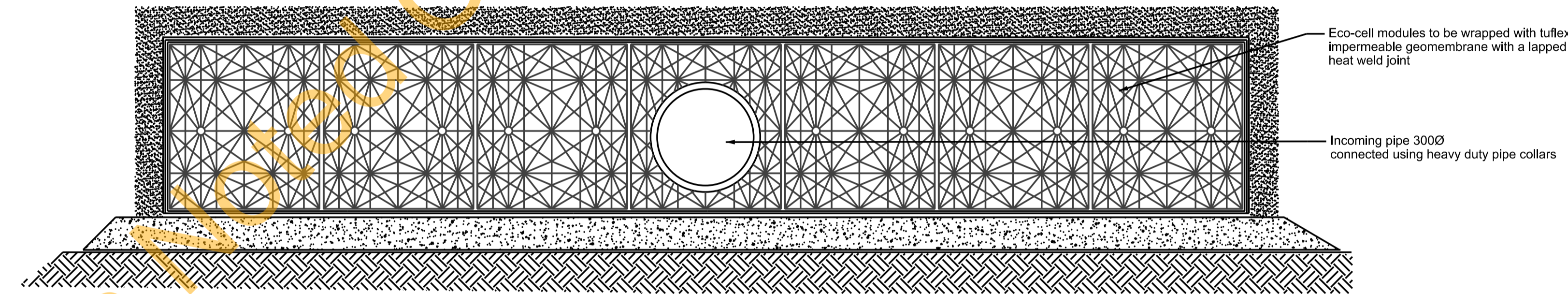
Title	SURREY QUAYS STATION PROPOSED DRAINAGE GENERAL ARRANGEMENT SHEET 2 OF 2
Drawing Number	LR23-ATK-DRG-E029-DRG-DR-00004
Rev.	P01.1



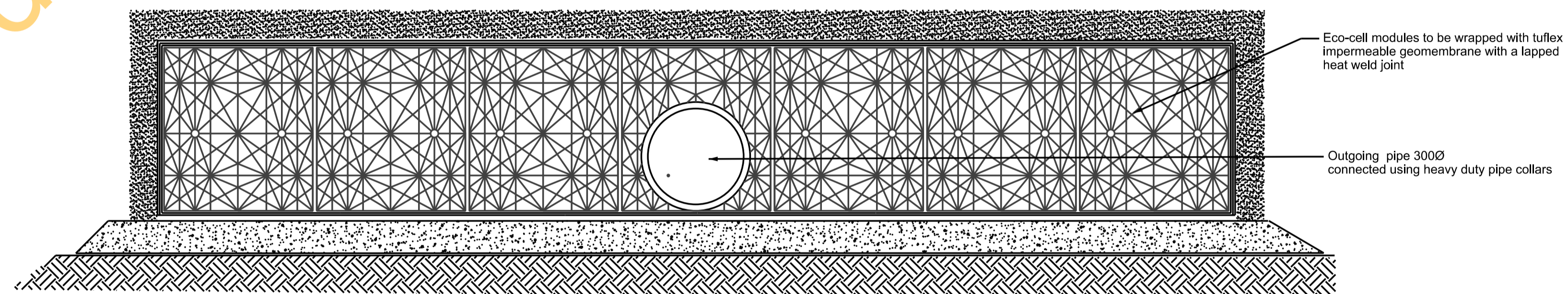
A
 Typical details of attenuation tank using geocell modular units (Side View)
 SCALE: 1 : 10



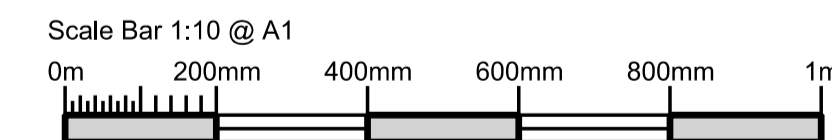
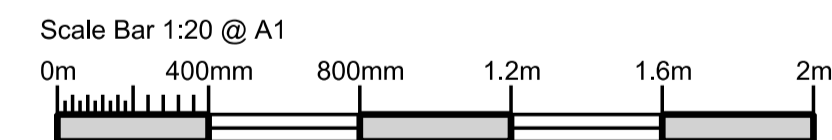
A
 300Ø Pipe connector
 SCALE: 1 : 10



A
 Typical details of attenuation tank using geocell modular units (View at Inlet)
 SCALE: 1 : 20



A
 Typical details of attenuation tank using geocell modular units (View at outlet)
 SCALE: 1 : 20



This drawing is to be read in conjunction with :

Document Number	Description
LR23-MOS-DRG-E029-RPT-DR-80001	Drainage strategy report
LR23-MOS-DRG-E029-RPT-DR-80002	Drainage Form B
LR23-MOS-DRG-E029-REQ-DR-80003	Civil Specifications
LR23-ATK-DRG-E029-DRG-DR-00001	Pumped Main mounted on W640 general plan
LR23-ATK-DRG-E029-DRG-DR-00002	British Land temporary landscape drainage layout
LR23-ATK-DRG-E029-DRG-DR-00003 to 00004	Station Drainage
LR23-ATK-DRG-E029-DRG-DR-00005 to 00007	Standard Details
LR23-ATK-DRG-E029-DRG-DR-00008	Pumped main mounted on W640 sectional drawing
LR23-ATK-DRG-E029-DRG-DR-00009	Schedules
LR23-ATK-DRG-E029-DRG-DR-00010	Platform 1 and Platform 2 sectional drawing
LR23-ATK-DRG-E029-DRG-DR-00011	Standard details - Headwall, Swale, deep chamber

Key plan

Notes:

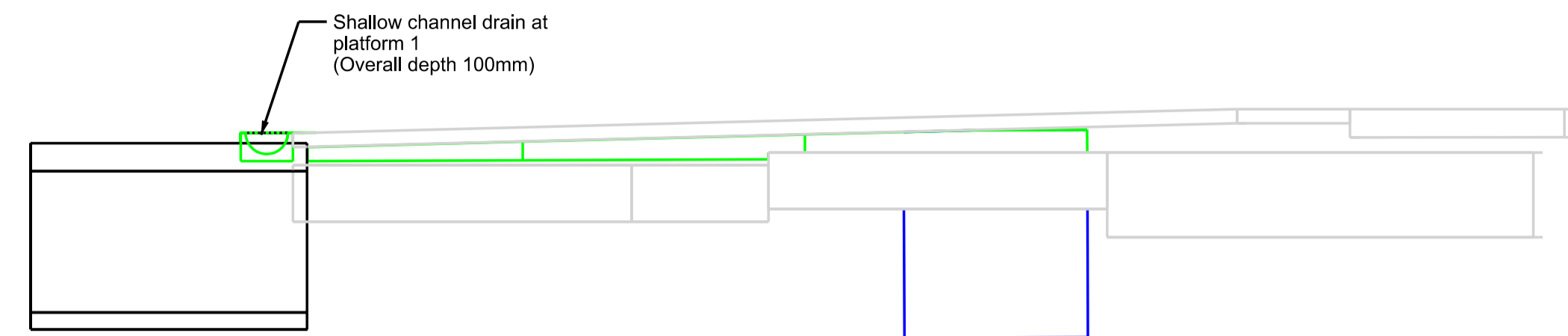
- All dimensions are in millimeters and all levels are in meters unless otherwise stated.
- Inlet/outlet pipes must be supported with concrete to protect it during backfilling.
- The contractor shall prohibit the movement of construction plant across the storage tank and where necessary provide additional support and protection to the structure. Particularly post construction. Temporary fencing can be used to prohibit trade stocks, Piling materials, Heavy plants etc.
- Details shown are for "ESS ECOCELL". Contractor to use the same material/manufacturer, or one that has equivalent performance. If the manufacturer is different, the detailed drawing for the new tank is to be procured before construction begins.
- A 3-5% CBR has been assumed at sub-base level should the CBR be tested and found to be less than 3% then the engineer shall be notified. Also, any soft spots found at sub-base level shall be reported to the engineer.
- This drawing is to be read in conjunction with specification document, relevant drainage layout drawings, relevant pipe and chamber schedules and standard detail

TFL RESTRICTED

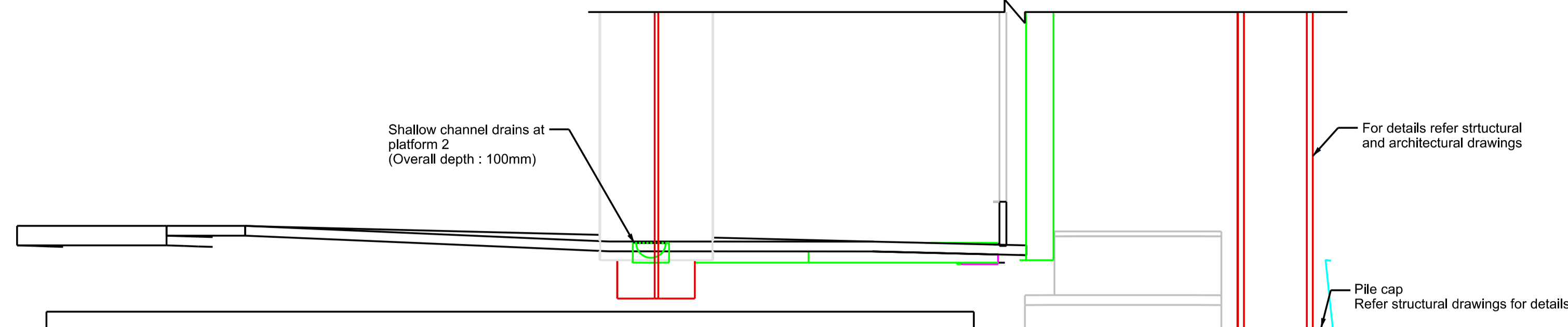
Rev	Date	Purpose / Description	T. Checked	T. Approved	P. Approved	Authorised
P01.1	2023/08/10					

Project	SURREY QUAYS STATION UPGRADE
Originator	ATKINS GROUP
Location	SURREY QUAYS
Asset Classification	DRAINAGE
Lifecycle	
Suitability	S0 | NON-VERIFIED DATA

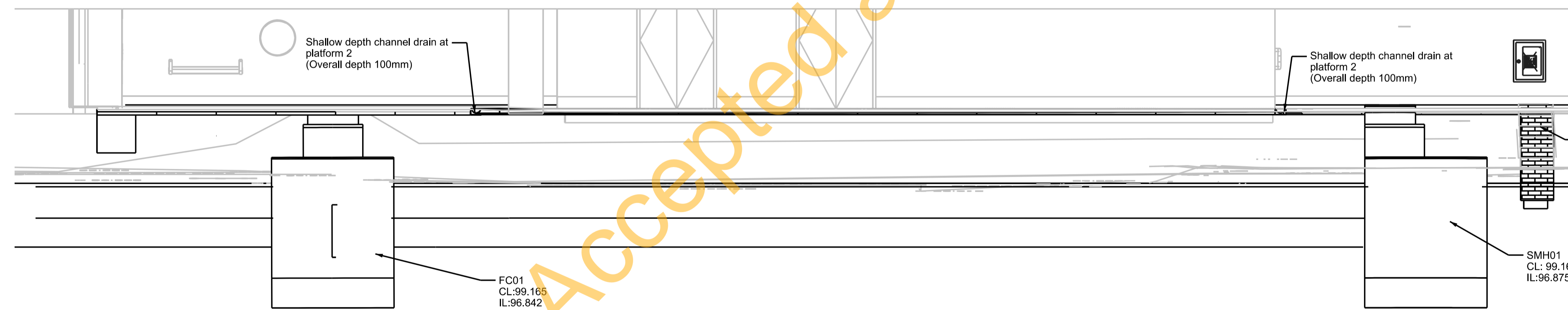
Title	SURREY QUAYS STATION DRAINAGE PACKAGE
Location	TYPICAL DETAILS
Sheet	SHEET 3
Drawing Number	LR23-ATK-DRG-E029-DRG-DR-00007
Rev.	P01.1



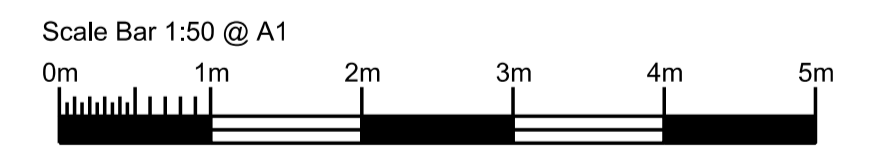
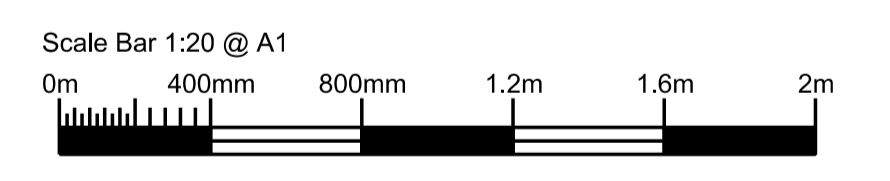
A SECTION
00000 SCALE: 1:20



A SECTION
00000 SCALE: 1:20



A SECTION
00000 SCALE: 1:50

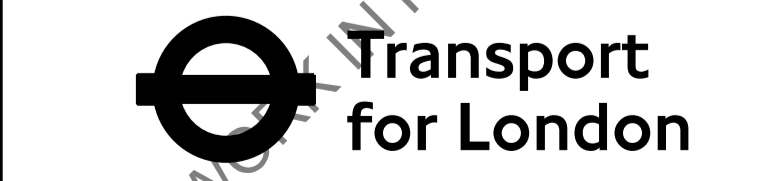


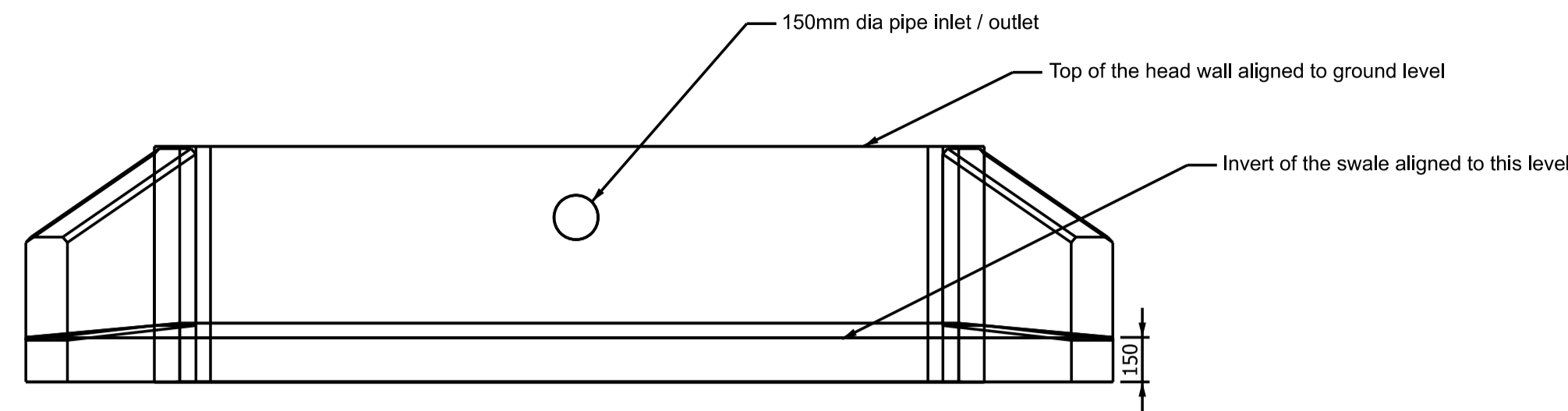
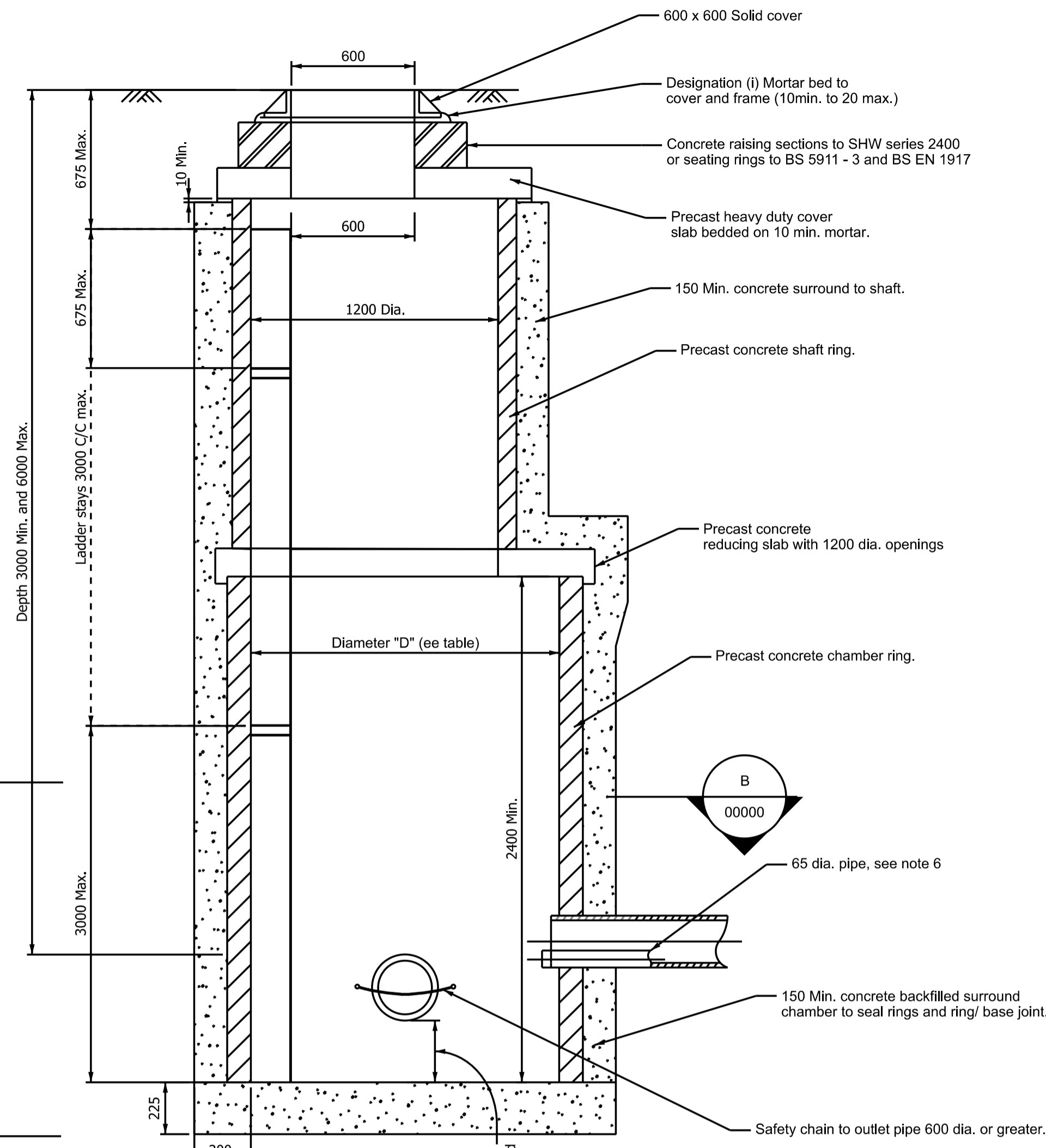
Key plan

Notes:

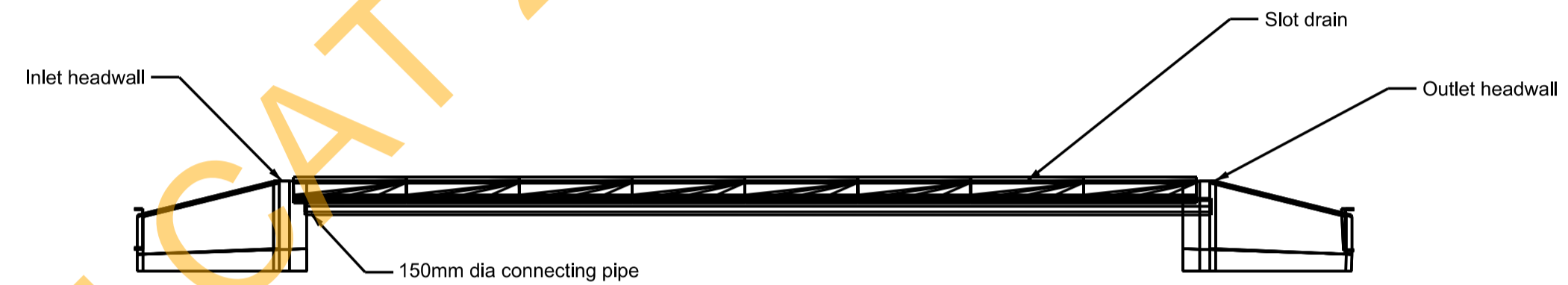
TFL RESTRICTED	Project	SURREY QUAYS STATION UPGRADE	
	Originator	ATKINS GROUP	
	Location	SURREY QUAYS	
	Asset Classification	DRAINAGE	
	Lifecycle		
	Suitability	S0 NON-VERIFIED DATA	
	Rev	Date	Purpose / Description
			Drawn | T. Checked | T. Approved | P. Approved | Authorised

Title	SURREY QUAYS STATION DRAINAGE PACKAGE
Typical Details	TYPICAL DETAILS SHEET 4
Drawing Number	LR23-ATK-DRG-E029-DRG-00010
Rev.	P01.1

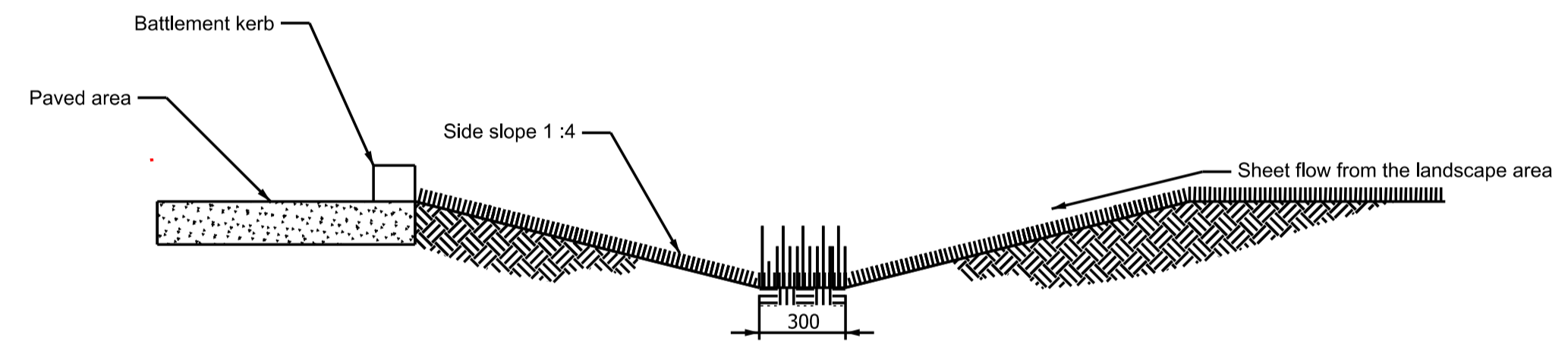




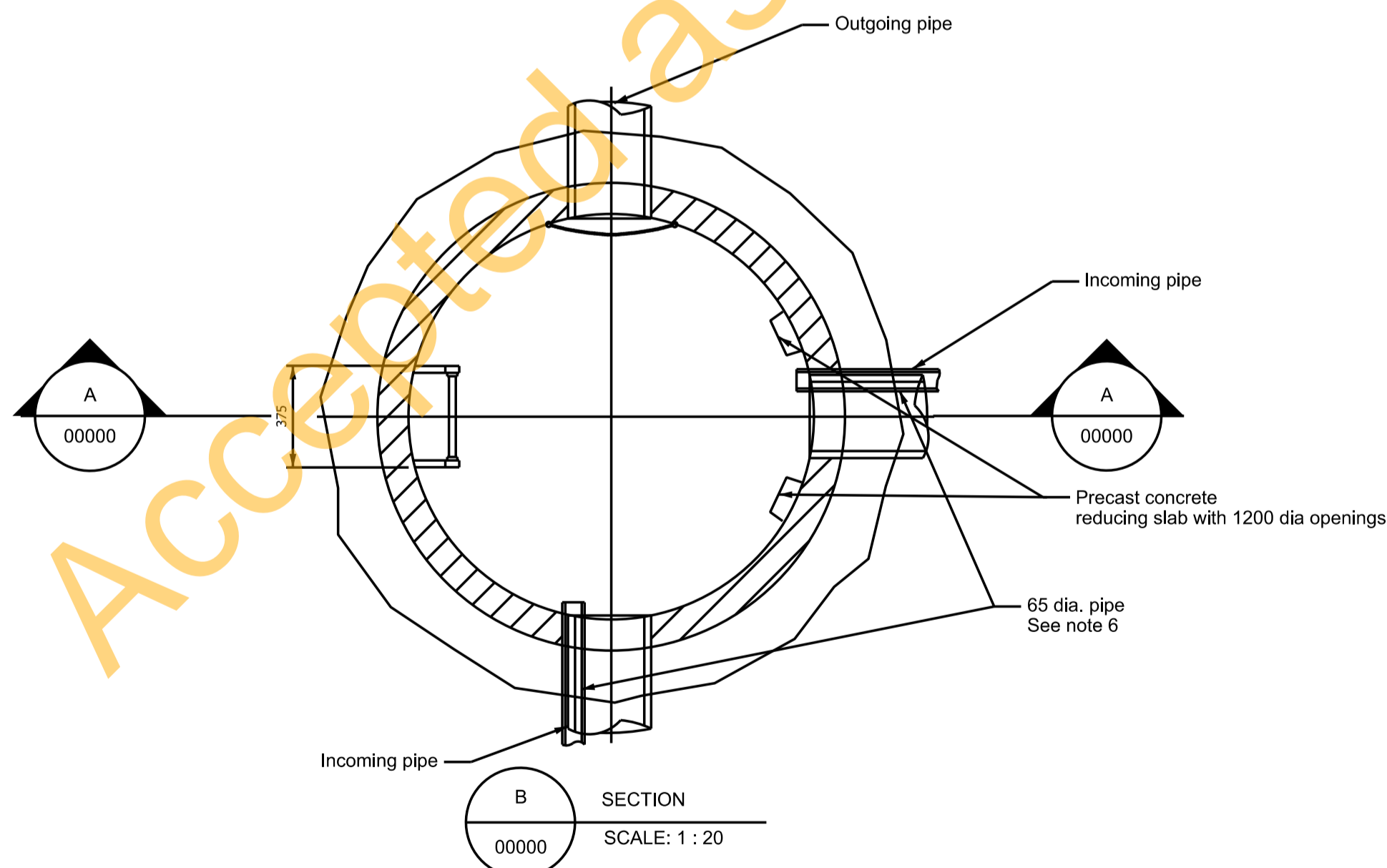
A Head wall elevation
00000 SCALE: 1:20



A Head wall - Pipe - Head wall connection
00000 SCALE: 1:50



A Swale Section
00000 SCALE: 1 in 20



A SECTION
00000 SCALE: 1:20

B SECTION
00000 SCALE: 1:20

Chamber type 12 sub - types (In accordance with BS EN 752)		
Chamber type	Diameter "D"	Maximum pipe Diameter
12A	2100	900
12B	2400	1200

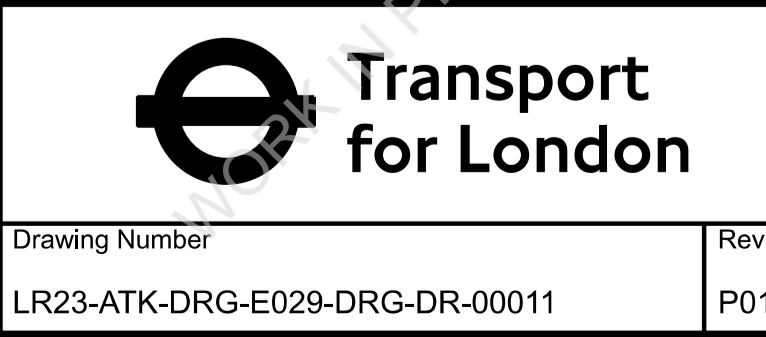
This drawing is to be read in conjunction with :	
Document Number	Description
LR23-MOS-DRG-E029-RPT-DR-80001	Drainage strategy report
LR23-MOS-DRG-E029-RPT-DR-80002	Drainage Form B
LR23-MOS-DRG-E029-REQ-DR-80003	Civil Specifications
LR23-ATK-DRG-E029-DRG-DR-00002	British Land Temporary Landscape Drainage Layout
LR23-ATK-DRG-E029-DRG-DR-00003 to 00004	Station Drainage
LR23-ATK-DRG-E029-DRG-DR-00005 to 00007	Standard Details
LR23-ATK-DRG-E029-DRG-DR-00008	Pumped main mounted on W640 sectional drawing
LR23-ATK-DRG-E029-DRG-DR-00009	Schedules
LR23-ATK-DRG-E029-DRG-DR-00010	Platform 1 and Platform 2 sectional drawing
LR23-ATK-DRG-E029-DRG-DR-00001	Pumped main mounted on W640 General arrangement

Key plan

Notes:
 1. All dimensions are in millimetres unless otherwise noted.
 2. Precast concrete chamber rings to be BS 5911 - 3 and BS EN 1917.
 3. For pipe invert details, number of branches and type of cover and frame see schedules.
 4. Mortar to be as designation (I) to SHW 2400 series, table 24/1.
 5. Pipes to be built into the chamber with mortar.
 6. Pipes and joints adjacent to chamber to be in accordance with SHW CI 507.17.
 7. Notwithstanding the tolerances given in the SHW the contractor shall ensure that the invert level of the outlet pipe is below the lowest of all incoming pipes.
 8. Opening in headwall cast to suit outside diameter of the pipe.
 9. Headwall to be bedded on minimum 150mm thick well compacted Class 6N or 6K (MCHW, series 600) well graded granular material with 50mm topping of fine material to ensure units are level and stable.
 10. Head wall wingwalls to be sloped and shall maintain a minimum height of 150mm above adjacent backfill level.
 11. All headwalls shall be backfilled with class 6N1, 6N2 or 6P backfill material headwalls 75mm layer of s2 blinding concrete, details of the sub-base layer to be confirmed based on site conditions.
 12. Swale is proposed with 1 in 500 longitudinal slope. The top width and depth of the swale varies accordingly.

TFL RESTRICTED	Project	SURREY QUAYS STATION UPGRADE	
	Originator	ATKINS GROUP	
	Location	SURREY QUAYS	
	Asset Classification	DRAINAGE	
	Lifecycle		
	Suitability	S0 NON-VERIFIED DATA	
	Rev	Date	Purpose / Description

Project	SURREY QUAYS STATION UPGRADE	Title	SURREY QUAYS STATION
Originator	ATKINS GROUP	Location	DRAINAGE PACKAGE
Asset Classification	DRAINAGE	Asset Classification	TYPICAL DETAILS
Lifecycle		Lifecycle	SHEET 5
Suitability	S0 NON-VERIFIED DATA	Drawing Number	LR23-ATK-DRG-E029-DRG-DR-00011
		Rev.	P01.1



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Accepted as Noted CAT 2

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