MBA
CONSULTING

FLOOD RISK ASSESSMENT

NEW MUSIC AND PERFORMANCE CENTRE,
TRURO SCHOOL,
CORNWALL, UK

SEPTEMBER 2023 | PROJECT REF: 23036

DOCUMENT CONTROL SHEET

To ensure this is the latest issue, a control table can be found below with updates identified.

Document Control				
Client	Job Number			
TRURO SCHOOL	23036			
Version	Date	Description	Prepared By	Checked By
A	21.09.2023	Issued to client.	MP	SH
B	24.11.2023	Issued to client.	MFS	MP

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APPENDICES

PLEASE NOTE: THE THIRD-PARTY REPORTS REFERRED WITHIN THIS DOCUMENT HAVE NOT BEEN INCLUDED DUE TO THEIR FILE SIZE AND COPY RIGHT PROTECTIONS. COPIES ARE AVAILABLE UPON REQUEST

1.0 INTRODUCTION

1.1 MBA Consulting's client is Truro School.

1.2 Truro school would like to build a new Music & Performance Centre to accommodate an exemplary array of high quality facilities for their students and the wider community. The current music centre is located in Epworth House and is one of the biggest and busiest music departments in the South West, however, it does not achieve the standards that Truro School would like to provide. Therefore, Truro School propose to create a new building to house the music department, and refurbish the existing adjacent Assembly Hall to provide an improved performance venue to meet the school's needs.

1.3 The Planning Practice Guidance to the National Planning Policy Framework dated July 2021 states that a Flood Risk Assessment (FRA) is required where a proposed development is greater than 1 ha in size or in an area where the Environment Agency (EA) have indicated there may be drainage problems, i.e. Critical Drainage Areas.

1.4 The proposed site is larger than 1Ha and within a Critical Drainage Area. Accordingly, a Flood Risk Assessment (FRA) has been prepared in support of the planning permission application for this development.

1.5 This report comprises a site-specific flood risk and proposed drainage strategy.

2.0 SITE LOCATION AND DESCRIPTION

2.1 Truro School is located in Truro, Cornwall. It is situated on Trennick Lane 0.5 miles southeast of the centre of Truro at Ordnance Survey Grid Reference (OSGR) SW 83265 44594. Please refer to Figure 1 below.

2.2 The site is currently known as Epworth House and used by the school as their music centre. The site currently consists of buildings, outdoor storage sheds, and tarmac access and parking areas.

2.3 The proposed development site sits at an elevated position above Truro at 49.0m AOD.

2.4 The site area is approximately 0.387ha.

FIGURE 1.0 –SITE LOCATION

3.0 EXISTING HYDROLOGY

3.1 The EA Drainage Guidance for Cornwall v2 Jan 2010 and Cornwall Council's Strategic Flood Risk Assessment –Level 1 (SFRA1) identifies the development to be within a Critical Drainage Area (Truro –Kenwyn, Allen and Tregolls Road). Please refer to Appendix A.

3.2 Cornwall Council's Local Flood Risk Management Strategy identifies Truro as a Priority Community. Truro has been identified as having potential for significant growth, which if not appropriately controlled could increase the frequency of flooding in the city centre from the Kenwyn and Allen catchments, impacting existing properties and transport links. There is a history of flooding at the Tregolls Road culvert, with a large proportion of this catchment being developed it is important to ensure that surface water discharges to this watercourse are not increased.

3.3 In addition to controlling run-off from development there is the need for offsite infrastructure changes. Detailed actions to address the flood risks will be developed in partnership with Cornwall Council through the Strategy. Until this is finalised this drainage advice should be followed.

3.4 In this catchment sustainable drainage systems (SuDS) design should include features to manage water quality to protect the interest features of the River Fal Special Area of Conservation and Shellfishery.

3.5 The site is currently drained to a soakaway located in the carpark serving the site.

4.0 FLOOD RISK ASSESSMENT

4.1 The site has been assessed taking into account the Planning Policy Guidance to the National Planning Policy Framework and the Level 1 Strategic Flood Risk Assessment (SFRA) published in 2009 by Cornwall Council. The individual parameters are set out below.

4.2 Truro has been identified as having potential for significant growth. The Catchment Flood Management Plan (CFMP) identifies that there is the need to undertake and implement a Surface Water Management Plan (SWMP) in Truro.

4.3 The CFMP indicates to sustain the current scale of flood risk management in Truro. Because of the potential for development in this catchment, there is the possibility that the cumulative impact of additional surface water discharge may reduce the standard of protection to the town centre. This could result in more frequent surface water flooding in the town, impacting exiting properties and transport links. As climate change is expected to increase rainfall intensity, to help maintain the existing standard of protection the run-off from redevelopment within the existing urban areas which is not currently attenuated should be controlled.

4.4 Flooding from rivers or from the sea

4.5 The Environment Agency has identified majority of the site to be within flood zone 1, at low risk of flooding. This means that each year this area has a chance of flooding of less than 0.1%. Please refer to Appendix B for copies of EA flood mapping.

4.6 The flood risk map from the Cornwall SFRA shows the site sits within flood zone 1.

4.7 The site is significantly elevated above any known watercourses and sea. The risk of flooding from rivers and sea is low.

4.8 Flooding from Land

4.9 The property is bordered on the uphill south eastern boundary the schools all weather sports pitch. The sports pitch is drained using a well maintained drainage system. There have been no reported flooding incidents resulting from exceedance flows from this area. However, its prudent to consider exceedance and how overland flood flows may impact the site. Should surface water exceedance flows develop, the site's external levels fall towards the site entrance on Trennick Lane. Any exceedance flows on Trennick Lane would be directed to existing highway gullies which discharge to a public DN150 vitrified clay surface water on Trennick Lane. This sewer ultimately discharges to the Truro River.

4.10 Design of the surface water disposal systems within the site will be required to comply with the current 'Drainage Guidance for Cornwall' published by the Environment Agency in 2015 (see section 5). This will ensure that the risk to adjacent property resulting from the development of this site is minimal.

4.11 The Environment Agency has identified the property as an area at very low risk of flooding from surface water. This means that each year this area has a chance of flooding of less than 0.1%. Flooding from surface water is difficult to predict as rainfall location and volume are difficult to forecast. In addition, local features can greatly affect the chance and severity of flooding.

4.12 Flooding from Groundwater

4.13 The Cornwall Council Interactive Mapping suggests the site lies within an area deemed susceptible to groundwater flooding. A geotechnical investigation has been completed by Karn Geo (contract: 231231 dated June 20023). Groundwater was not encountered during the investigative works. There have been no reported incidents of flooding from groundwater sources at the site.

4.14 The proposed development does not require significant level changes. Therefore, the risk of flooding from groundwater is low.

4.15 Flooding from Sewers

4.16 The South West Water record is included at Appendix C. This shows there are public sewers below the site. There are no public sewers above the site which could cause potentially flood the site. The public sewers are well maintained by South West Water. The topography of the site serves to prevent these sewers flooding the site.

4.17 Recent changes to the application and charging process introduced by Ofwat mean that SWW no longer review sewer capacity and are obliged to fund any improvements required to the network form the infrastructure charge imposed on any development within their area of operation. Therefore, there is low risk of flooding from sewers as capacity must be made available.

4.18 The private sewers serving the site are well maintained by the school and pose a low risk of flooding the site.

4.19 Flooding from Reservoirs, Canals and Other Artificial Sources

4.20 There are no reservoirs, canals or other artificial sources in the vicinity of the site which might give rise to a risk of flooding.

4.21 Current regulations included in the Reservoirs Act 1975 and Flood Water Management Act requires reservoirs to be inspected and maintained regularly to ensure essential work is complete. These Acts ensure the risk of flood from reservoirs is very low.

5.0 SURFACE WATER DRAINAGE DESIGN STRATEGY

5.1 Design of the development's drainage infrastructure and Sustainable Urban Drainage System (SUDS) is to be carried out in line with best practice and to industry standard design procedures. A number of publications, including statutory instruments, design guidance and best practice guidance will apply to different components of the final infrastructure.

5.2 The sections below provide an overview of the design standards to be used on this project for various aspects of the surface water drainage design.

5.3 The design of the surface water drainage is required to follow the 'Drainage Guidance for Cornwall' issued by the Environment Agency (EA) published as part of the Cornwall Council Strategic Flood Risk Assessment (SFRA). These both comply with the Planning Policy Guidance for the National Planning Policy Framework dated July 2021. Compliance is deemed to satisfy the Environment Agency in controlling the risk of flooding of and from the proposed development.

5.4 The site is in an area identified as a Critical Drainage Area in the Cornwall Council SFRA. This requires the drainage system to comply with the 'Cornwall Council Critical Drainage Areas Drainage Standards Guidance - Critical Drainage Area Truro –Kenwyn, Allen and Tregolls Road' included in Appendix A.

5.5 All developments will need to meet the same standards, inclusive of brownfield sites. Infiltration shall be used as far as practicable. If this cannot be met, all off-site surface water discharges from developments should mimic greenfield performance up to a maximum 1 in 10 year discharge rate. On site all surface water should be safely managed up to the 1 in 100 plus climate change conditions. This will require additional water storage areas to be created thereby contributing to a reduction in flooding downstream.

5.6 The surface water drainage design will take into account future climate change as outlined within Technical Guidance for the National Planning Policy Framework. This recommends that a 50% increase in the rainfall intensities be allowed for future climate change over the next 100 years.

5.7 In accordance with Ciria report C753 The SuDs Manual para 24.7.2, to allow for future urban expansion within the development, it is recommended an increase in paved surface area of 10% be applied to soakaway/attenuation calculations. This will not be applied here as there is no additional space for future expansion and the entire site is already impermeable and drains to underground drainage systems (soakaway).

5.8 The existing soakaway currently serving the site needs to be re-located to facilitate the proposed footprint of the new building. It has been necessary to agree the design parameters for soakaway design with the Lead Local Flood Authority (LLFA - Cornwall Council). Available space to place such a feature is limited and it is not possible to apply the full design criteria as stipulated by the LLFA for features within CDA's.

5.9 Soil infiltration testing (please refer to Appendix D for copies of soil infiltration testing results) proved the site was suitable for the use of infiltration discharge features such as soakaways. However, the CDA's design criteria includes designing with a factor of safety of 10 which dictated a soakaways size which wasn't achievable within the confines of the site. Through discussions with the LLFA it has been agreed to use a factor of safety of 2.

5.10 The LLFA stipulated the use of the FeH (Flood Estimation Handbook) Rainfall model method within drainage design software.

5.11 The half drain time of the proposed system is 5.53hrs.

5.12 The relocated proposed soakaway and piped sections have been designed for a minimum of the 100-year storm plus 50% climate change allowance. Please refer to Appendix F for a copy of MBA drawings. Please refer to Appendix E for Microdrainage Calculations.

5.13 The detailed design of the drainage systems will need to be submitted to the LLFA for approval prior to construction. It should include at that stage the following information.

- A description of the foul and surface water drainage systems operation
- Details of the final drainage schemes including calculations and layout
- A Construction Environmental Management Plan
- A Construction Quality Control Procedure
- A plan indicating the provisions for exceedance pathways, overland flow routes and proposed detention features
- A timetable of construction including a plan indicating the phasing of development including the implementation of the drainage systems

- Confirmation of who will maintain the drainage systems and a plan for the future maintenance and management, including responsibilities for the drainage systems and overland flow routes.

6.0 FOUL DRAINAGE ASSESSMENT

6.1 The public sewers maintained by South West Water in the vicinity of the site are shown in Appendix C.

6.2 The proposed building will utilise the existing foul water drainage connections from site the wider school sewer network. This connects to the public foul water sewer in Epworth Close to the north east of the site.

6.3 Recent changes to the application and charging process introduced by Ofwat mean that SWW no longer review sewer capacity and are obliged to fund any improvements required to the network form the infrastructure charge imposed on any development within their area of operation.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 The flood risk has been assessed following the principals of National Planning Policy Framework and the level 1 Strategic Flood risk Assessment for Cornwall. It is concluded that the proposed development of the site does not significantly increase the risk of flooding offsite and the site is not considered to be at significant risk of flooding.

7.2 It is further concluded that the design of a surface water drainage system using the principles of SUDS and compliant with the requirements of the Cornwall Strategic Flood Risk Assessment is achievable within the confines of the site.

7.3 The foul water discharge from the site can be served by connection to public sewer.

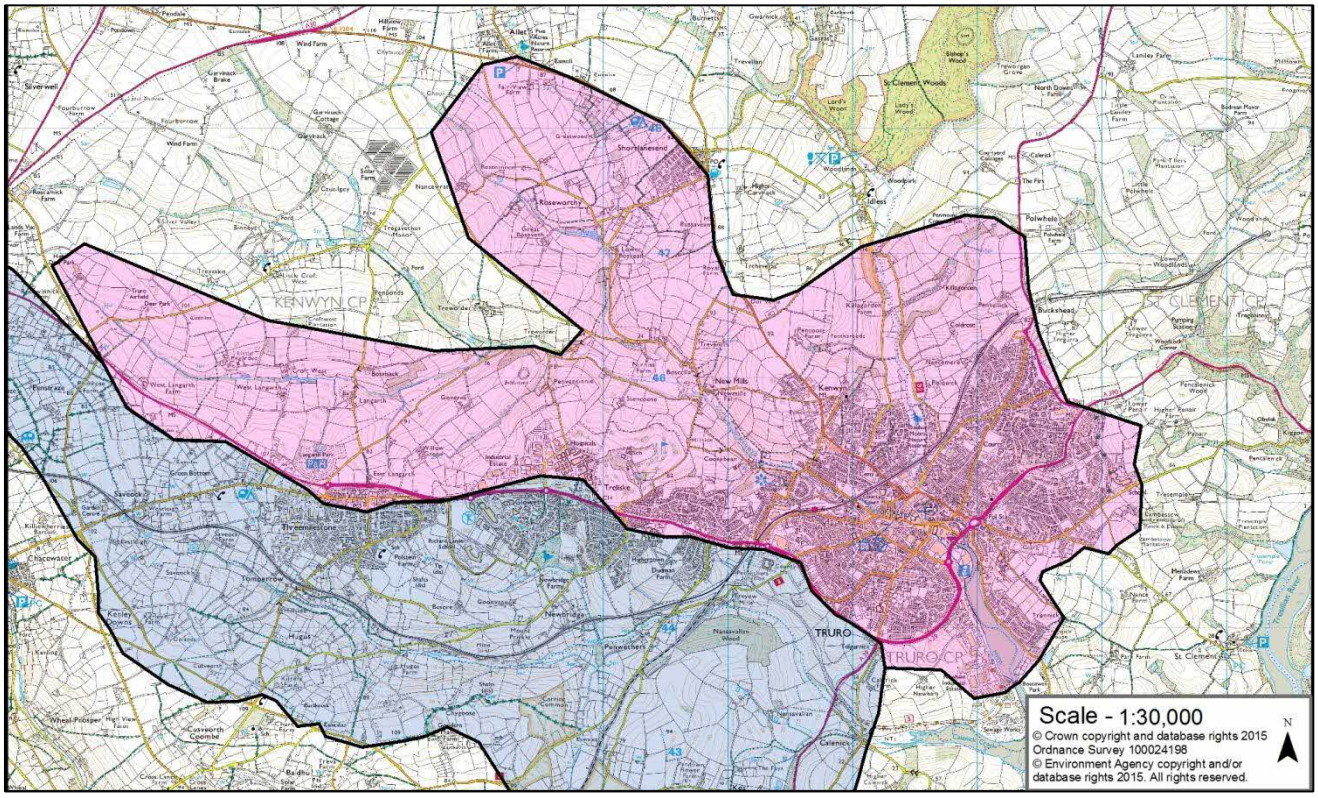
Signed..... Dated: NOVEMBER 2023
MARCUS FYLAN-SMITH BEng
FOR AND ON BEHALF OF
MBA CONSULTING

APPENDIX A

Critical Drainage Area (CDA)

Cornwall – Truro – Kenwyn, Allen and Tregolls Road

May 2015



= Area covered by Truro – Kenwyn, Allen and Tregolls Road CDA

Catchment Drainage / Flooding Issues

Cornwall Council's Local Flood Risk Management Strategy identifies Truro as a Priority Community. Truro has been identified as having potential for significant growth, which if not appropriately controlled could increase the frequency of flooding in the city centre from the Kenwyn and Allen catchments, impacting existing properties and transport links. There is a history of flooding at the Tregolls Road culvert, with a large proportion of this catchment being developed it is important to ensure that surface water discharges to this watercourse are not increased.

In addition to controlling run-off from development there is the need for offsite infrastructure changes. Detailed actions to address the flood risks will be developed in partnership with Cornwall Council through the Strategy. Until this is finalised this drainage advice should be followed.

In this catchment SuDS design should include features to manage water quality to protect the interest features of the River Fal Special Area of Conservation and Shellfishery.

Continued . . . . . .

Minimum Drainage Standards Required

All new developments will have to play their part in reducing current rainfall runoff rates. This requirement also applies to brownfield sites that will have to match the same standards. The surface water drainage hierarchy should be followed by using infiltration as far as is practicable. Further guidance on such systems can be found in the CIRIA SuDS Manual and in Lead Local Flood Authority guidance.

All off-site surface water discharges from developments should mimic greenfield performance up to a maximum 1 in 10 year discharge rate. On site all surface water should be safely managed up to the 1 in 100 plus climate change conditions. This will require additional water storage areas to be created thereby contributing to a reduction in flooding downstream.

Cornwall Council
Critical Drainage Areas - Drainage Standards Guidance

Revised January 2010

This sheet outlines the drainage standards we expect to be achieved. These should be read in conjunction with an individual catchment guidance sheet which provides a map of the Critical Drainage Area and outlines the reasons for considering it as a Critical Drainage Area.

Small Development Sites

Development of 1- 3 dwellings

Following the Building Regulations Drainage hierarchy, surface water should:-

i. Drain to a soakaway or infiltration system designed in accordance with the SUDS Manual - CIRIA C697, using a minimum of a 30-year return period storm.

Where a Flood Risk Assessment demonstrates that infiltration is not possible:-

ii. A sustainable drainage system should be provided discharging at a rate not exceeding 1.5 litres/second per dwelling, with attenuation provided up to the 30-year storm.

(Products exist that allow individual properties to restrict run-off to this rate, using private underground storage tanks. A discharge of 1.5 litres/second is typically achieved on the commercially available systems using a proprietary device on the outlet with an orifice of around 30mm. This is combined with a sediment trap and a filter to prevent blockage. Storage is provided on the property in an underground tank or crate system, operating with a maximum depth of water of approximately 500mm. The size of the tank will need to be based on the impermeable area draining to the system. It should be noted that due to the small orifice size these systems would remain in private ownership as they are unlikely to be adopted.)

The design must take into account the appropriate allowance for increased rainfall from climate change, based on the lifetime of the development, the guidance in Annex B of PPS25 and the PPS25 Practice Guide. This is currently an increase in rainfall intensity of 30%.

Safe and appropriate flow routes from blockage and exceedance of the drainage system must be evaluated. This must demonstrate no property flooding or increase in flood risk either offsite or to third parties.

Previously Developed Sites

Operational development less than 1 hectare

Following the Building Regulations Drainage hierarchy, surface water should:-

i. Drain to a soakaway or infiltration system designed in accordance with the SUDS Manual - CIRIA C697, using a minimum of a 30-year return period storm.

Where a Flood Risk Assessment demonstrates that infiltration is not possible:-

ii. A sustainable drainage system shall be provided ensuring flow attenuation, no adverse impact on water quality and where possible habitat creation.

The total discharge from the site shall be no more than the theoretical greenfield run-off rates from each of the corresponding 1, 10, 30 and 100 year storms. When these values are less than 5 litres/second, a rate of 5 litres/second can be used. Attenuation may not be necessary if the discharge is directly to coastal waters. In these cases the impact on the receiving environment in terms of habitat, erosion and water quality should be assessed.

The design must take into account the appropriate allowance for increased rainfall from climate change. This should be based on the lifetime of the development, the guidance in Annex B of PPS25 and the PPS25 Practice Guide.

Underground attenuation and piped sections should be designed for a minimum of the 30-year storm. **However total discharge rates from the site must still be controlled from the 100-year storm at the greenfiled run-off rate from the 100 year storm.**. Attenuation of events exceeding the piped system may be achieved by temporary flooding of open spaces or car parks. If surface flooding of open areas is not appropriate, the formal drainage system should be designed to accomodate the 100 year storm.

Safe and appropriate flow routes from blockage and exceedance of the drainage system must be evaluated. This must demonstrate no property flooding or increase in flood risk, either offsite or to third parties.

Operational development equal to or greater than 1 hectare

Meet the standards for a development less than 1 hectare as outlined in C2 above.

Where infiltration is not used, long-term storage must be provided to store the additional volume of run-off caused by any increase in impermeable area. This is in addition to the attenuation storage required to address flow rates, see Appendix F. Alternatively rainwater harvesting can be used to offset this volume.

The long-term storage should discharge at a rate not exceeding 2 litres/second/hectare, as per *Preliminary rainfall run-off management for developments DEFRA / Environment Agency guidance W5-074 Revision D.*

Greenfield Sites

Operational development less than 1 hectare

Following the Building Regulations Drainage hierarchy, surface water should:-

i. Drain to a soakaway or infiltration system designed in accordance with the SUDS Manual - CIRIA C697, using a minimum of a 30-year return period storm.

Where a Flood Risk Assessment demonstrates that infiltration is not possible:-

ii. A sustainable drainage system shall be provided ensuring flow attenuation, no adverse impact on water quality and where possible habitat creation.

The total discharge from the site shall be no more than the theoretical greenfield run-off rates from the corresponding 1 and 10 year storms. **For the 30 and 100 year storms, the total discharge from the site should not increase further but should also be restricted to the run-off rate for the 10 year storm.** When these values are less than 5 litres/second, a rate of 5 litres/second can be used. Attenuation may not be necessary if the discharge is directly to coastal waters. In these cases the impact on the receiving environment in terms of habitat, erosion and water quality should be assessed.

The design must take into account the appropriate allowance for increased rainfall from climate change. This should be based on the lifetime of the development, the guidance in Annex B of PPS25 and the PPS25 Practice Guide.

Underground attenuation and piped sections should be designed for a minimum of the 30-year storm. **However the total discharge rates from the site must still be controlled from the 100-year storm at the greenfield run-off rate from the 10 year storm**. Attenuation of events exceeding the piped system may be achieved by temporary flooding of open spaces or car parks. If surface flooding of open areas is not appropriate, the formal drainage system should be designed to accomodate the 100 year storm.

Safe and appropriate flow routes from blockage and exceedance of the drainage system must be evaluated. This must demonstrate no property flooding or increase in flood risk, either offsite or to third parties.

Operational development equal to or greater than 1 hectare

Meet the standards for a development less than 1 hectare as outlined in C3 above.

Where infiltration is not used, long-term storage must be provided to store the additional volume of run-off caused by any increase in impermeable area. This is in addition to the attenuation storage required to address flow rates, see Appendix F. Alternatively rainwater harvesting can be used to offset this volume.

The long-term storage should discharge at a rate not exceeding 2 litres/second/hectare, as per *Preliminary rainfall run-off management for developments DEFRA/Environment Agency guidance W5-074 Revision D*.

APPENDIX B

Flood map for planning

Your reference	Location (easting/northing)	Created
<Unspecified>	**183280/44564**	**20 Sep 2023 15:36**

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

You will need to do a flood risk assessment if your site is **any of the following:**

- bigger that 1 hectare (ha)
- In an area with critical drainage problems as notified by the Environment Agency
- identified as being at increased flood risk in future by the local authority's strategic flood risk assessment
- at risk from other sources of flooding (such as surface water or reservoirs) and its development would increase the vulnerability of its use (such as constructing an office on an undeveloped site or converting a shop to a dwelling)

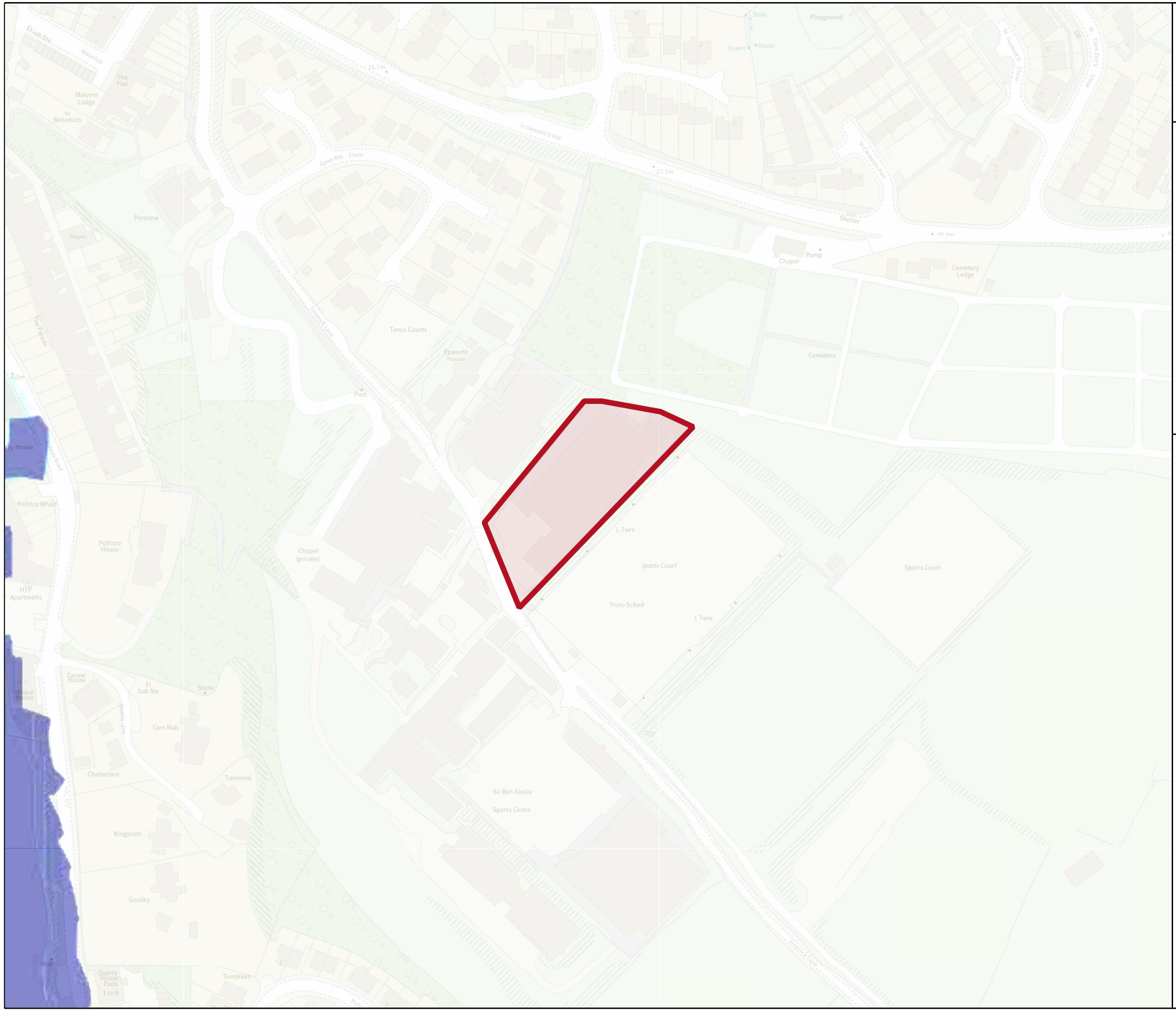
Notes

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

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

Flood risk data is covered by the Open Government Licence **which** sets out the terms and conditions for using government data. https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2022 OS 100024198. https://flood-map-for-planning.service.gov.uk/os-terms



Environment Agency

Flood map for planning

Your reference
<Unspecified>

Location (easting/northing)
183280/44564

Scale
1:2500

Created
20 Sep 2023 15:36

- Selected area
- Flood zone 3
- Flood zone 2
- Flood zone 1
- Flood defence
- Main river
- Water storage area

0 20 40 60m

Back

Learn more about this area's flood risk

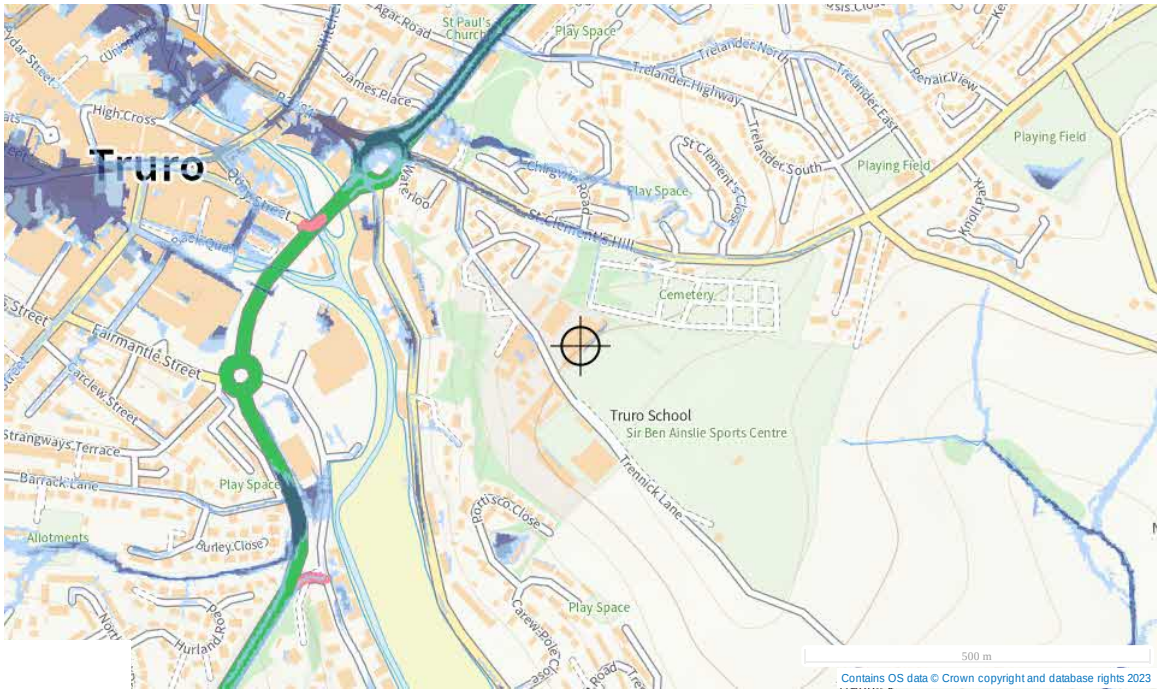
Select the type of flood risk information you're interested in. The map will then update.

Flood risk

Extent of flooding

Location

Enter a place or postcode



Extent of flooding from surface water

High Medium Low Very low Location you selected

View the flood risk information for another location (/postcode)

Back

Learn more about this area's flood risk

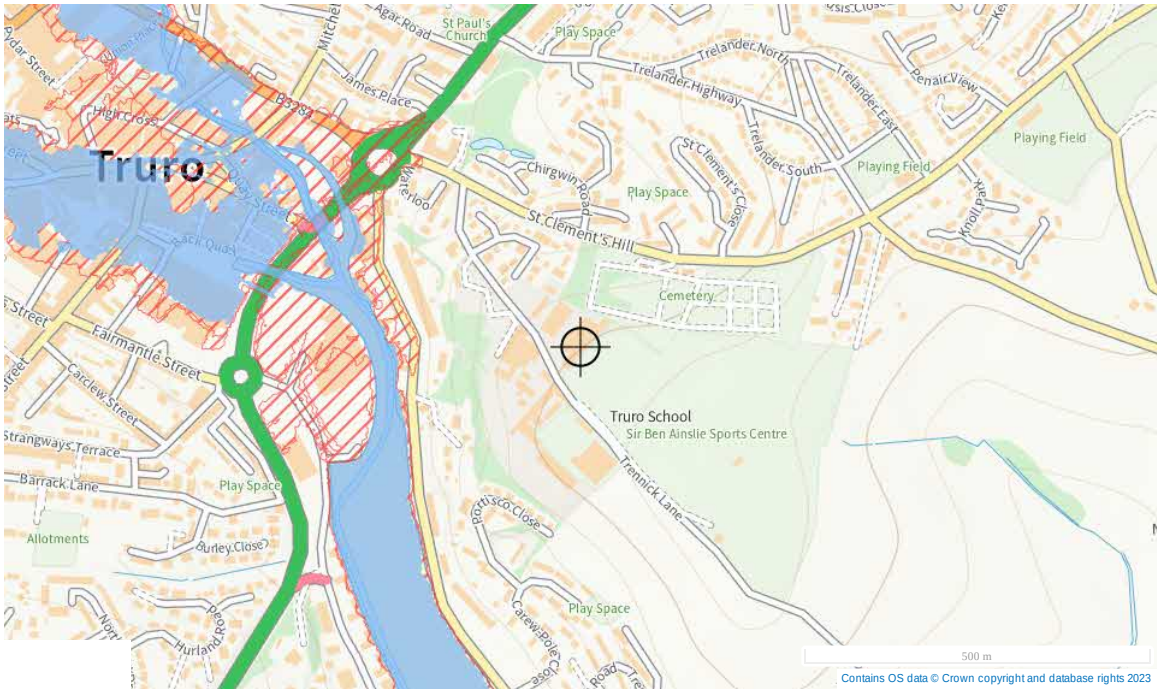
Select the type of flood risk information you're interested in. The map will then update.

Flood risk

Extent of flooding

Location

Enter a place or postcode



Maximum extent of flooding from reservoirs:

when river levels are normal | when there is also flooding from rivers | Location you selected

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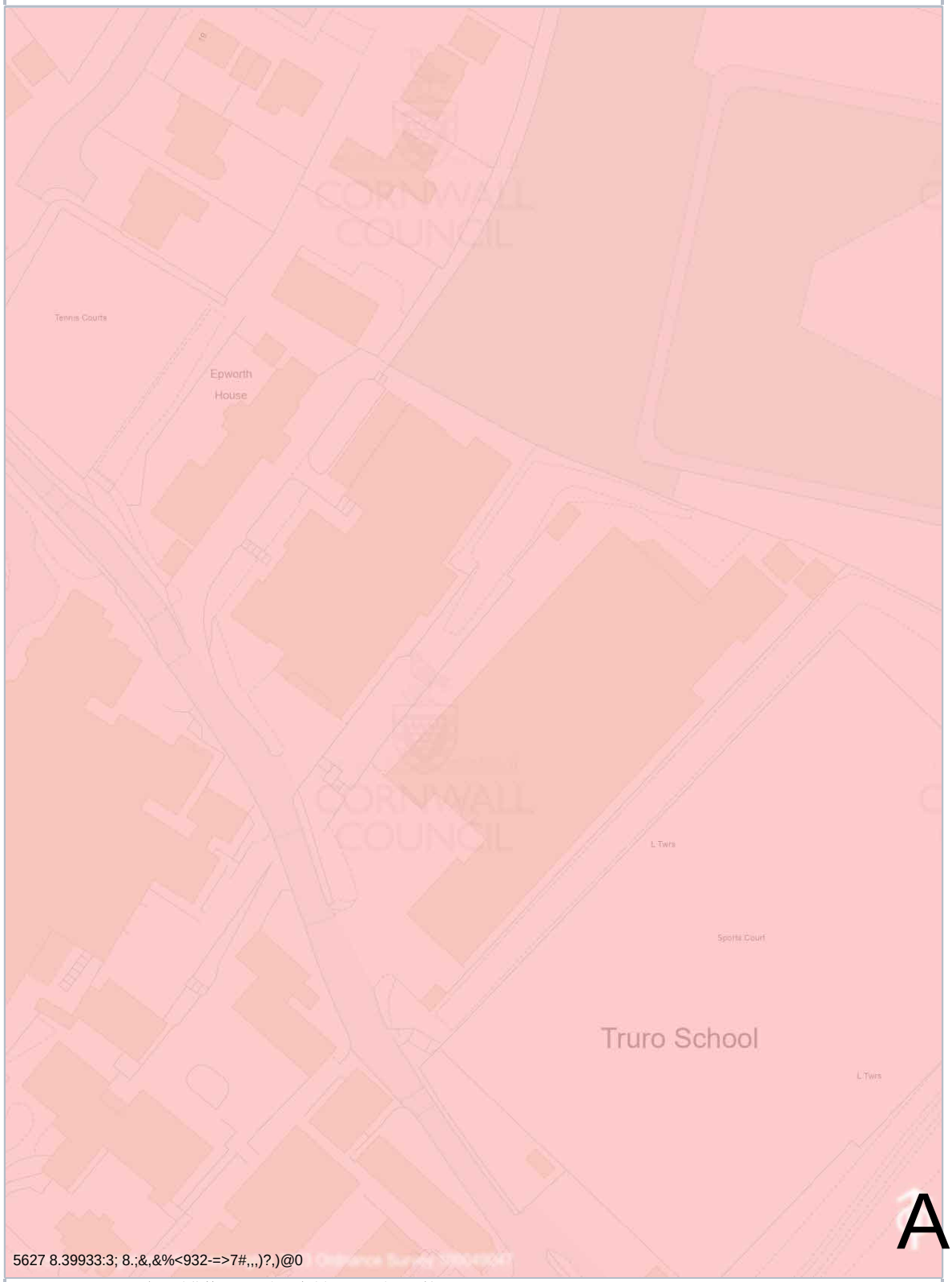
View the flood risk information for another location (/postcode)



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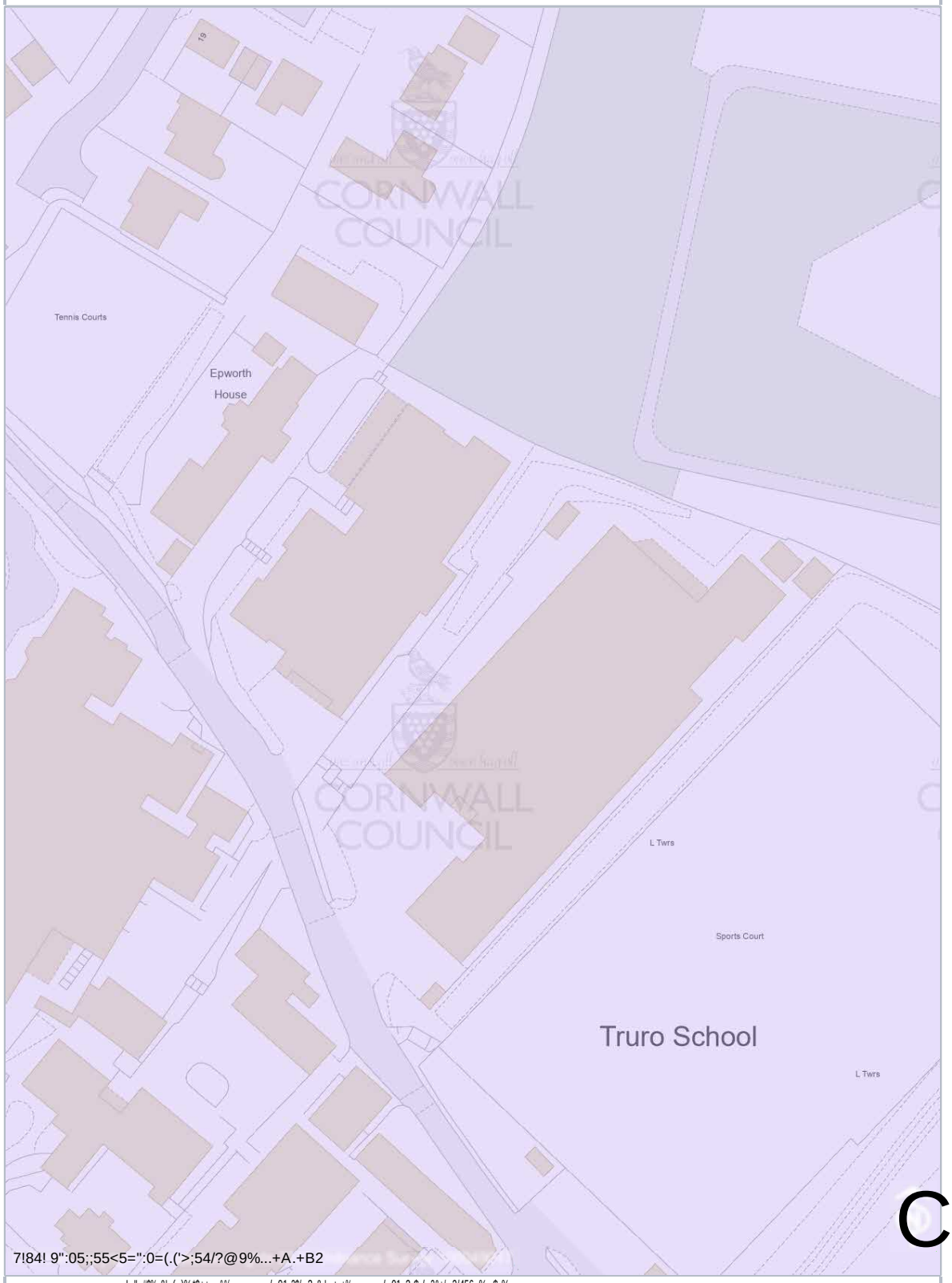

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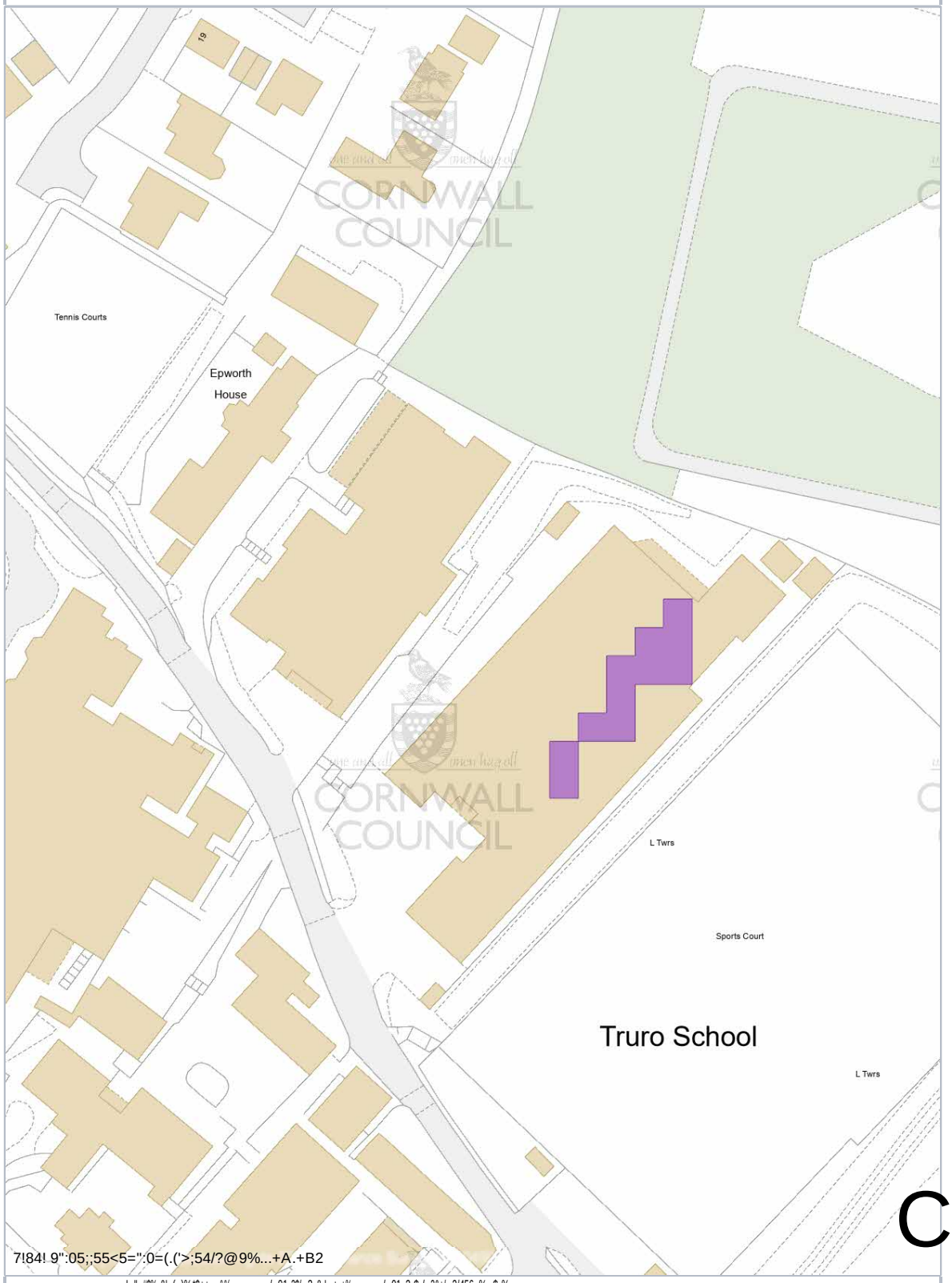

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APPENDIX C

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44751
183279
N

ST CLEMENT'S HILL

C / 225 / PCO

EPWORTH CLOSE

C / 150 / VC / 8.7761

C / 150 / VC / -99

C / 150 / VC / 12.7716

C / 150 / VC / 7.2

4 in UPVC

3 in CI(S) into MDPE(PRES)

TRENNICK LANE

Tennis Courts

Epworth

1
2
8
12
14
19
25
28

South West Water

Map data

0 20 m

183079
44613

Date: 23/03/2023 11:53:32 User: Scale: 1:1250 at A3

44816 183469

N

ST CLEMENTS HILL

ST CLEMENTS PARC

EPWORTH CLOSE

TRENNICK LANE

MALPAS ROAD

Trafalgar Row

El Sub Sta

WATERLOO

The Flat

Malvern Lodge

St Benedicts

Trafalgar House

Pentreve

Depot

Water House

Chy

The Parade

Osprey House

Poltisco Wharf

Poltisco House

Mud

Mean High Water

Truro River

MH & MLWS

1 to 9 HTP Apartments

1 to 12 Malpas House

Tennis Courts

Epworth House

Post

Chapel (private)

Playground

Sinks

Issues

Issues

Shelter

Pump

Chapel

Cemetery Lodge

Cemetery

L Twrs

Sports Court

Sports Court

9.8m

16.7m

21m

35.3m

4.0m

4.0m

182969

44470

South West Water

Map data

Reproduced from the Ordnance Survey map by South West Water Ltd. by permission Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office
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THE INFORMATION CONTAINED WITHIN THIS MAP SHOULD NOT BE USED FOR ANY PURPOSE OTHER THAN AS A GENERAL GUIDE TO THE LOCATION OF EXISTING SERVICES.
PLEASE REFER TO WATER AND SEWER LEGENDS FOR CONFIRMATION OF ASSET DETAILS.
THIS PLAN MUST NOT BE USED AS PART OF A CONVEYANCING DOCUMENT FOR PROPERTY PURCHASES.
The position & depth of apparatus and other information indicated on this map is provided as a general guide only and no assurance or warranty as to its correctness or accuracy is given or should be inferred.
Exact positions & depths should be obtained by excavation trial holes and the map must not be relied on in the event of excavation or other works undertaken or planned in the vicinity of the Company's apparatus
Please note that not all mains, service pipes and other apparatus of the Company in the area of the plan are shown.

0 40 80 m

APPENDIX D

KARN GEOSERVICES LTD
www.karn-geo.co.uk
info@karn-geo.co.uk

Title: Exploratory Hole Location Plan		
Site: Truro School		
Client: Truro School		Job No: 23121
Figure:1	Date Drawn: 22/05/2023	Scale: NTS

SOAKAWAY DESIGN IN ACCORDANCE WITH BRE DIGEST 365: 2007
BRE Digest 365, Figure 2, Page 5

Client:	c/o MBA Consultin(		
Site:	Truro Schoo		
Job No:	23121	Test No:	TP01 Test 01
Date	02/06/2023		

CALCULATION OF SOIL INFILTRATION RATE

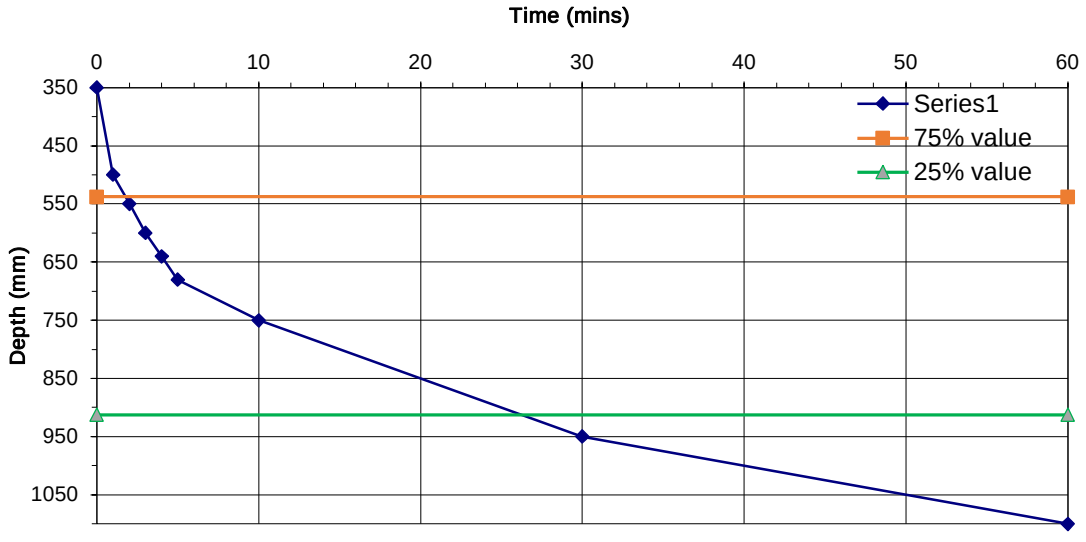
Time (min)	Depth (mm)
0	350
1	500
2	550
3	600
4	640
5	680
10	750
30	950
60	1100

Size of Soakaway		
	Length (m) =	1.60
	Width (m) =	0.45
	Depth (m) =	1.10

Depth to water at start of test	350mm
Depth to base of pit =	1100mm
Depth to water at 75% level =	538mm
Depth to water at 50% level =	725mm
Depth to water at 25% level =	913mm
Base area of pit (m^2) =	0.720
Eff area of loss 75 - 25% (m^2) =	2.258
Volume outflow 75 - 25% (m^3) =	0.270

From the graph:	
tp 75 (min) =	2
tp 25 (min) =	26

Soil infiltration rate, f, (m/s)		8.31E-05	normal test
			pit with ston
Tested by:	KC	Date:	02/06/2023
Checked by:	AC	Date:	02/06/2023



Notes

SOAKAWAY DESIGN IN ACCORDANCE WITH BRE DIGEST 365: 2007
BRE Digest 365, Figure 2, Page 5

Client:	c/o MBA Consultin(		
Site:	Truro Schoo		
Job No:	23121	Test No:	TP01 Test 02
Date	02/06/2023		

CALCULATION OF SOIL INFILTRATION RATE

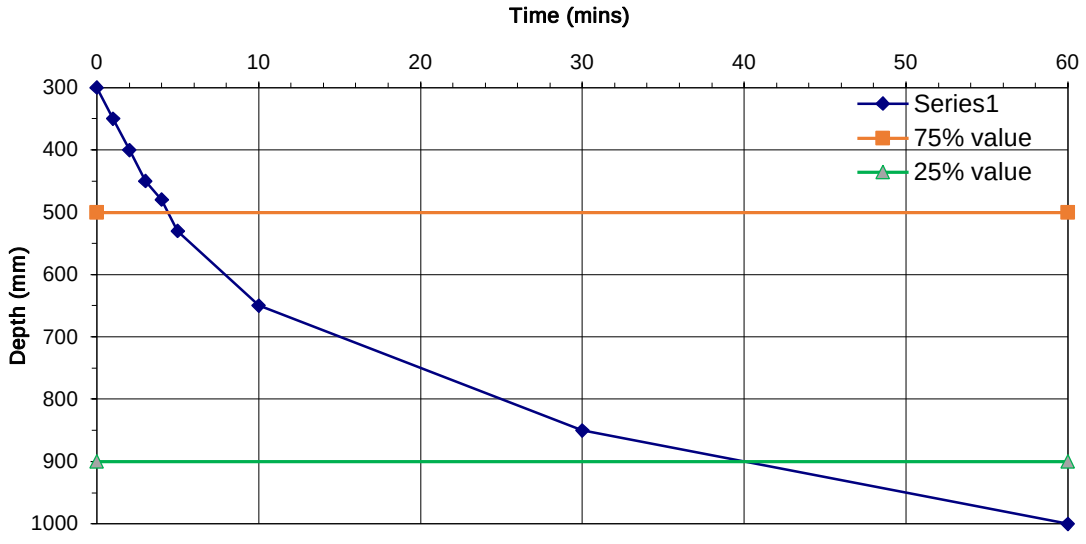
Time (min)	Depth (mm)
0	300
1	350
2	400
3	450
4	480
5	530
10	650
30	850
60	1000

Size of Soakaway		
	Length (m) =	1.60
	Width (m) =	0.45
	Depth (m) =	1.10

Depth to water at start of test	300mm
Depth to base of pit =	1100mm
Depth to water at 75% level =	500mm
Depth to water at 50% level =	700mm
Depth to water at 25% level =	900mm
Base area of pit (m^2) =	0.720
Eff area of loss 75 - 25% (m^2) =	2.360
Volume outflow 75 - 25% (m^3) =	0.288

From the graph:	
tp 75 (min) =	4
tp 25 (min) =	40

Soil infiltration rate, f, (m/s)		5.65E-05	normal test
			pit with ston
Tested by:	KC	Date:	02/06/2023
Checked by:	AC	Date:	02/06/2023



Notes

SOAKAWAY DESIGN IN ACCORDANCE WITH BRE DIGEST 365: 2007
BRE Digest 365, Figure 2, Page 5

Client:	c/o MBA Consultin(		
Site:	Truro Schoo		
Job No:	23121	Test No:	TP01 Test 03
Date	02/06/2023		

CALCULATION OF SOIL INFILTRATION RATE

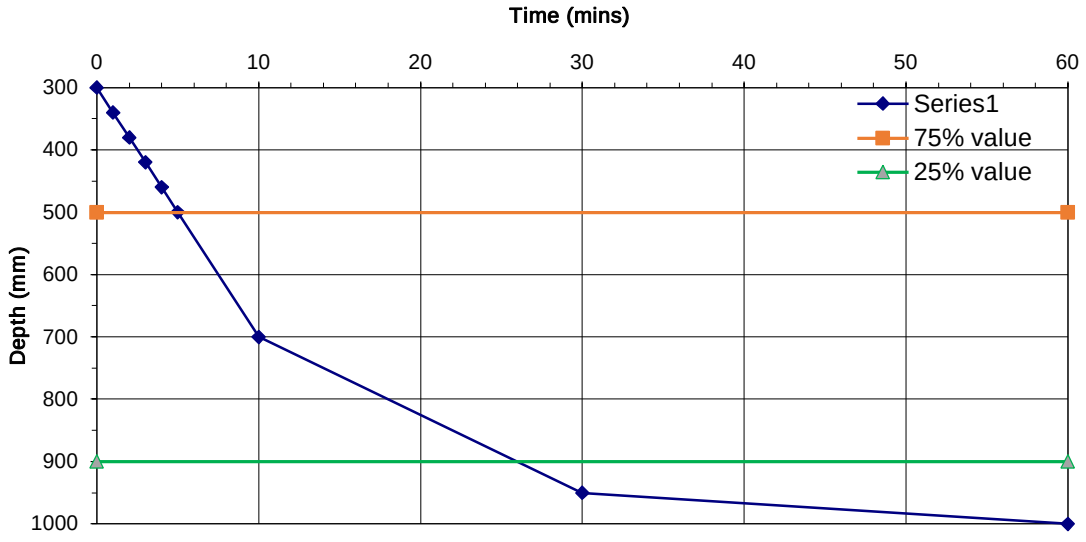
Time (min)	Depth (mm)
0	300
1	340
2	380
3	420
4	460
5	500
10	700
30	950
60	1000

Size of Soakaway		
	Length (m) =	1.60
	Width (m) =	0.45
	Depth (m) =	1.10

Depth to water at start of test	300mm
Depth to base of pit =	1100mm
Depth to water at 75% level =	500mm
Depth to water at 50% level =	700mm
Depth to water at 25% level =	900mm
Base area of pit (m^2) =	0.720
Eff area of loss 75 - 25% (m^2) =	2.360
Volume outflow 75 - 25% (m^3) =	0.288

From the graph:	
tp 75 (min) =	5
tp 25 (min) =	26

Soil infiltration rate, f, (m/s)		9.69E-05	normal test
			pit with ston
Tested by:	KC	Date:	02/06/2023
Checked by:	AC	Date:	02/06/2023



Notes

APPENDIX E

Time Area Diagram for Existing

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.173	4-8	0.044

Total Area Contributing (ha) = 0.217

Total Pipe Volume (m^3) = 13.934

Existing Network Details for Existing

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
E1.000	13.720	0.140	98.0	0.009	5.00	0.0	0.600	o	150	Pipe/Conduit
E1.001	14.920	0.100	149.2	0.021	5.00	0.0	0.600	o	225	Pipe/Conduit
E1.002	22.850	0.150	152.3	0.045	5.00	0.0	0.600	o	600	Pipe/Conduit
E1.003	10.480	0.070	149.7	0.004	5.00	0.0	0.600	o	300	Pipe/Conduit
E2.000	30.000	0.300	100.0	0.030	5.00	0.0	0.600	o	150	Pipe/Conduit
E2.001	10.910	1.190	9.2	0.020	5.00	0.0	0.600	o	150	Pipe/Conduit
E1.004	7.170	0.050	143.4	0.000	5.00	0.0	0.600	o	225	Pipe/Conduit
E3.000	1.700	0.010	170.0	0.042	5.00	0.0	0.600	o	225	Pipe/Conduit
E1.005	1.680	0.010	168.0	0.000	5.00	0.0	0.600	o	225	Pipe/Conduit
E4.000	5.340	0.050	106.8	0.024	5.00	0.0	0.600	o	150	Pipe/Conduit
E1.006	1.762	0.010	176.2	0.000	5.00	0.0	0.600	o	300	Pipe/Conduit
E1.007	1.717	0.010	171.7	0.000	5.00	0.0	0.600	o	225	Pipe/Conduit
E1.008	0.977	0.010	97.7	0.000	5.00	0.0	0.600	o	225	Pipe/Conduit
E5.000	25.800	0.260	99.2	0.008	5.00	0.0	0.600	o	150	Pipe/Conduit
E5.001	2.240	0.680	3.3	0.014	5.00	0.0	0.600	o	150	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
E1.000	48.300	0.009	0.0	1.02	17.9
E1.001	47.310	0.030	0.0	1.07	42.5
E1.002	47.210	0.075	0.0	1.97	557.2
E1.003	47.060	0.079	0.0	1.28	90.7
E2.000	48.480	0.030	0.0	1.00	17.8
E2.001	48.180	0.050	0.0	3.35	59.2
E1.004	46.990	0.129	0.0	1.09	43.3
E3.000	46.950	0.042	0.0	1.00	39.8
E1.005	46.940	0.171	0.0	1.01	40.0
E4.000	46.980	0.024	0.0	0.97	17.2
E1.006	46.930	0.195	0.0	1.18	83.5
E1.007	46.920	0.195	0.0	0.99	39.6
E1.008	46.910	0.195	0.0	1.32	52.6
E5.000	47.840	0.008	0.0	1.01	17.8
E5.001	47.580	0.022	0.0	5.59	98.9

Existing Network Details for Existing

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
E1.009	1.000	-0.980	-1.0	0.000	5.00	0.0	0.600	\/	40	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
E1.009	46.900	0.217	0.0	0.00	0.0

Conduit Sections for Existing

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 (m²)
40	\/	600	1271	27.0		2.538	3.933

Manhole Schedules for Existing

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
E1.000	48.780	0.480	Open Manhole	450	E1.000	48.300	150				
E1.001	48.800	1.490	Open Manhole	1500	E1.001	47.310	225	E1.000	48.160	150	775
E1.002	48.740	1.530	Open Manhole	1500	E1.002	47.210	600	E1.001	47.210	225	
E1.003	48.620	1.560	Open Manhole	1500	E1.003	47.060	300	E1.002	47.060	600	
E2.000	53.000	4.520	Open Manhole	150	E2.000	48.480	150				
E2.001	48.770	0.590	Open Manhole	450	E2.001	48.180	150	E2.000	48.180	150	
E1.004	48.560	1.570	Open Manhole	1500	E1.004	46.990	225	E1.003	46.990	300	
								E2.001	46.990	150	
E3.001	48.410	1.460	Open Manhole	1500	E3.000	46.950	225				
E1.005	48.400	1.460	Open Manhole	1500	E1.005	46.940	225	E1.004	46.940	225	
								E3.000	46.940	225	
E4.001	48.580	1.600	Open Manhole	450	E4.000	46.980	150				
E1.006	48.400	1.470	Open Manhole	1500	E1.006	46.930	300	E1.005	46.930	225	
								E4.000	46.930	150	
E1.007	48.400	1.480	Open Manhole	1350	E1.007	46.920	225	E1.006	46.920	300	
E1.008	48.500	1.590	Open Manhole	1350	E1.008	46.910	225	E1.007	46.910	225	
E4.001	48.590	0.750	Open Manhole	450	E5.000	47.840	150				
E4.002	48.640	1.060	Open Manhole	450	E5.001	47.580	150	E5.000	47.580	150	
EGHOST	47.930	1.030	Open Manhole	450	E1.009	46.900	40	E1.008	46.900	225	
								E5.001	46.900	150	
E	48.000	0.120	Open Manhole	50		OUTFALL		E1.009	47.880	40	

No coordinates have been specified, layout information cannot be produced.

PIPELINE SCHEDULES for Existing

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)
E1.000	o	150	E1.000	48.780	48.300	0.330	Open Manhole	450
E1.001	o	225	E1.001	48.800	47.310	1.265	Open Manhole	1500
E1.002	o	600	E1.002	48.740	47.210	0.930	Open Manhole	1500
E1.003	o	300	E1.003	48.620	47.060	1.260	Open Manhole	1500
E2.000	o	150	E2.000	53.000	48.480	4.370	Open Manhole	150
E2.001	o	150	E2.001	48.770	48.180	0.440	Open Manhole	450
E1.004	o	225	E1.004	48.560	46.990	1.345	Open Manhole	1500
E3.000	o	225	E3.001	48.410	46.950	1.235	Open Manhole	1500
E1.005	o	225	E1.005	48.400	46.940	1.235	Open Manhole	1500
E4.000	o	150	E4.001	48.580	46.980	1.450	Open Manhole	450
E1.006	o	300	E1.006	48.400	46.930	1.170	Open Manhole	1500
E1.007	o	225	E1.007	48.400	46.920	1.255	Open Manhole	1350
E1.008	o	225	E1.008	48.500	46.910	1.365	Open Manhole	1350
E5.000	o	150	E4.001	48.590	47.840	0.600	Open Manhole	450

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)
E1.000	13.720	98.0	E1.001	48.800	48.160	0.490	Open Manhole	1500
E1.001	14.920	149.2	E1.002	48.740	47.210	1.305	Open Manhole	1500
E1.002	22.850	152.3	E1.003	48.620	47.060	0.960	Open Manhole	1500
E1.003	10.480	149.7	E1.004	48.560	46.990	1.270	Open Manhole	1500
E2.000	30.000	100.0	E2.001	48.770	48.180	0.440	Open Manhole	450
E2.001	10.910	9.2	E1.004	48.560	46.990	1.420	Open Manhole	1500
E1.004	7.170	143.4	E1.005	48.400	46.940	1.235	Open Manhole	1500
E3.000	1.700	170.0	E1.005	48.400	46.940	1.235	Open Manhole	1500
E1.005	1.680	168.0	E1.006	48.400	46.930	1.245	Open Manhole	1500
E4.000	5.340	106.8	E1.006	48.400	46.930	1.320	Open Manhole	1500
E1.006	1.762	176.2	E1.007	48.400	46.920	1.180	Open Manhole	1350
E1.007	1.717	171.7	E1.008	48.500	46.910	1.365	Open Manhole	1350
E1.008	0.977	97.7	EGHOST	47.930	46.900	0.805	Open Manhole	450
E5.000	25.800	99.2	E4.002	48.640	47.580	0.910	Open Manhole	450

PIPELINE SCHEDULES for Existing

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)
E5.001	o	150	E4.002	48.640	47.580	0.910	Open Manhole	450
E1.009	\/	40	EGHOST	47.930	46.900	0.430	Open Manhole	450

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)
E5.001	2.240	3.3	EGHOST	47.930	46.900	0.880	Open Manhole	450
E1.009	1.000	-1.0	E	48.000	47.880	-0.480	Open Manhole	50

Area Summary for Existing

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.009	0.009	0.009
1.001	-	-	100	0.021	0.021	0.021
1.002	-	-	100	0.045	0.045	0.045
1.003	-	-	100	0.004	0.004	0.004
2.000	-	-	100	0.030	0.030	0.030
2.001	-	-	100	0.020	0.020	0.020
1.004	-	-	100	0.000	0.000	0.000
3.000	-	-	100	0.042	0.042	0.042
1.005	-	-	100	0.000	0.000	0.000
4.000	-	-	100	0.024	0.024	0.024
1.006	-	-	100	0.000	0.000	0.000
1.007	-	-	100	0.000	0.000	0.000
1.008	-	-	100	0.000	0.000	0.000
5.000	-	-	100	0.008	0.008	0.008
5.001	-	-	100	0.014	0.014	0.014
1.009	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.217	0.217	0.217

Free Flowing Outfall Details for Existing

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
E1.009	E	48.000	47.880	47.530	50	0

Simulation Criteria for Existing

Volumetric Runoff Coeff	0.840	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

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

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	17.900	Storm Duration (mins)	15
Ratio R	0.280		

Summary Wizard of 15 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	12	48.343	-0.107	0.000	0.18			3.0	OK
E1.001	E1.001	23	47.488	-0.047	0.000	0.26			9.8	OK
E1.002	E1.002	23	47.477	-0.333	0.000	0.06			21.4	OK
E1.003	E1.003	23	47.474	0.114	0.000	0.25			16.4	SURCHARGED
E2.000	E2.000	12	48.563	-0.067	0.000	0.58			9.8	OK
E2.001	E2.001	12	48.238	-0.092	0.000	0.31			16.4	OK
E1.004	E1.004	24	47.463	0.248	0.000	0.76			23.9	SURCHARGED
E3.000	E3.001	26	47.408	0.233	0.000	0.40			11.8	SURCHARGED
E1.005	E1.005	27	47.403	0.238	0.000	1.03			30.7	SURCHARGED
E4.000	E4.001	31	47.342	0.212	0.000	0.55			7.7	SURCHARGED

Summary Wizard of 15 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	31	47.328	0.098	0.000	0.64			35.3	SURCHARGED
E1.007	E1.007	37	47.250	0.105	0.000	1.20			35.4	SURCHARGED
E1.008	E1.008	46	47.176	0.041	0.000	1.18			35.4	SURCHARGED
E5.000	E4.001	12	47.880	-0.110	0.000	0.15			2.6	OK
E5.001	E4.002	12	47.618	-0.112	0.000	0.14			7.3	OK
E1.009	EGHOST	74	46.943	-1.228	0.000	0.00		61	0.0	OK

Summary Wizard of 30 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	15	48.340	-0.110	0.000	0.16			2.7	OK
E1.001	E1.001	26	47.464	-0.071	0.000	0.23			8.6	OK
E1.002	E1.002	26	47.455	-0.355	0.000	0.05			20.0	OK
E1.003	E1.003	26	47.452	0.092	0.000	0.22			14.8	SURCHARGED
E2.000	E2.000	15	48.557	-0.073	0.000	0.52			8.8	OK
E2.001	E2.001	15	48.234	-0.096	0.000	0.28			14.8	OK
E1.004	E1.004	26	47.442	0.227	0.000	0.68			21.6	SURCHARGED
E3.000	E3.001	30	47.391	0.216	0.000	0.36			10.5	SURCHARGED
E1.005	E1.005	30	47.388	0.223	0.000	0.95			28.2	SURCHARGED
E4.000	E4.001	33	47.327	0.197	0.000	0.47			6.5	SURCHARGED

Summary Wizard of 30 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	33	47.315	0.085	0.000	0.60			33.0	SURCHARGED
E1.007	E1.007	42	47.238	0.093	0.000	1.09			32.3	SURCHARGED
E1.008	E1.008	48	47.166	0.031	0.000	1.08			32.4	SURCHARGED
E5.000	E4.001	15	47.877	-0.113	0.000	0.14			2.4	OK
E5.001	E4.002	15	47.615	-0.115	0.000	0.13			6.5	OK
E1.009	EGHOST	70	46.999	-1.172	0.000	0.00		76	0.0	OK

Summary Wizard of 60 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	20	48.335	-0.115	0.000	0.12			2.0	OK
E1.001	E1.001	31	47.395	-0.140	0.000	0.18			6.8	OK
E1.002	E1.002	33	47.387	-0.423	0.000	0.04			16.1	OK
E1.003	E1.003	33	47.385	0.025	0.000	0.19			12.5	SURCHARGED
E2.000	E2.000	20	48.546	-0.084	0.000	0.40			6.8	OK
E2.001	E2.001	20	48.227	-0.103	0.000	0.21			11.3	OK
E1.004	E1.004	33	47.377	0.162	0.000	0.60			19.1	SURCHARGED
E3.000	E3.001	34	47.351	0.176	0.000	0.28			8.4	SURCHARGED
E1.005	E1.005	34	47.348	0.183	0.000	0.88			26.3	SURCHARGED
E4.000	E4.001	37	47.293	0.163	0.000	0.39			5.4	SURCHARGED

Summary Wizard of 60 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	38	47.285	0.055	0.000	0.51			28.0	SURCHARGED
E1.007	E1.007	48	47.197	0.052	0.000	0.94			27.9	SURCHARGED
E1.008	E1.008	58	47.081	-0.054	0.000	0.93			27.8	OK
E5.000	E4.001	20	47.873	-0.117	0.000	0.11			1.8	OK
E5.001	E4.002	20	47.611	-0.119	0.000	0.10			5.0	OK
E1.009	EGHOST	65	47.041	-1.130	0.000	0.00		88	0.0	OK

Summary Wizard of 120 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	27	48.330	-0.120	0.000	0.09			1.4	OK
E1.001	E1.001	37	47.363	-0.172	0.000	0.13			4.8	OK
E1.002	E1.002	41	47.279	-0.531	0.000	0.03			11.9	OK
E1.003	E1.003	48	47.223	-0.137	0.000	0.18			11.7	OK
E2.000	E2.000	27	48.534	-0.096	0.000	0.28			4.8	OK
E2.001	E2.001	27	48.218	-0.112	0.000	0.15			7.9	OK
E1.004	E1.004	49	47.215	0.000	0.000	0.60			19.1	OK
E3.000	E3.001	50	47.198	0.023	0.000	0.20			6.0	SURCHARGED
E1.005	E1.005	50	47.196	0.031	0.000	0.88			26.2	SURCHARGED
E4.000	E4.001	57	47.118	-0.012	0.000	0.27			3.8	OK

Summary Wizard of 120 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	58	47.110	-0.120	0.000	0.49			27.1	OK
E1.007	E1.007	58	47.105	-0.040	0.000	0.90			26.7	OK
E1.008	E1.008	60	47.078	-0.057	0.000	0.89			26.7	OK
E5.000	E4.001	27	47.867	-0.123	0.000	0.07			1.3	OK
E5.001	E4.002	27	47.605	-0.125	0.000	0.07			3.5	OK
E1.009	EGHOST	58	47.067	-1.104	0.000	0.00		114	0.0	OK

Summary Wizard of 180 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	31	48.326	-0.124	0.000	0.07			1.1	OK
E1.001	E1.001	39	47.358	-0.177	0.000	0.10			3.8	OK
E1.002	E1.002	44	47.273	-0.537	0.000	0.02			9.5	OK
E1.003	E1.003	54	47.140	-0.220	0.000	0.15			9.9	OK
E2.000	E2.000	31	48.528	-0.102	0.000	0.22			3.8	OK
E2.001	E2.001	31	48.214	-0.116	0.000	0.12			6.3	OK
E1.004	E1.004	59	47.111	-0.104	0.000	0.51			16.1	OK
E3.000	E3.001	60	47.094	-0.081	0.000	0.17			5.2	OK
E1.005	E1.005	60	47.092	-0.073	0.000	0.71			21.2	OK
E4.000	E4.001	60	47.088	-0.042	0.000	0.21			3.0	OK

Summary Wizard of 180 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	60	47.082	-0.148	0.000	0.44			24.1	OK
E1.007	E1.007	61	47.079	-0.066	0.000	0.81			24.1	OK
E1.008	E1.008	61	47.077	-0.058	0.000	0.81			24.1	OK
E5.000	E4.001	31	47.864	-0.126	0.000	0.06			1.0	OK
E5.001	E4.002	31	47.602	-0.128	0.000	0.05			2.8	OK
E1.009	EGHOST	54	47.076	-1.095	0.000	0.00		132	0.0	OK

Summary Wizard of 240 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	36	48.323	-0.127	0.000	0.06			1.0	OK
E1.001	E1.001	43	47.354	-0.181	0.000	0.09			3.2	OK
E1.002	E1.002	47	47.269	-0.541	0.000	0.02			8.0	OK
E1.003	E1.003	59	47.131	-0.229	0.000	0.13			8.4	OK
E2.000	E2.000	36	48.524	-0.106	0.000	0.19			3.2	OK
E2.001	E2.001	36	48.212	-0.118	0.000	0.10			5.3	OK
E1.004	E1.004	61	47.094	-0.121	0.000	0.44			13.7	OK
E3.000	E3.001	61	47.083	-0.092	0.000	0.15			4.4	OK
E1.005	E1.005	61	47.083	-0.082	0.000	0.61			18.1	OK
E4.000	E4.001	61	47.083	-0.047	0.000	0.18			2.5	OK

Summary Wizard of 240 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	61	47.082	-0.148	0.000	0.37			20.6	OK
E1.007	E1.007	60	47.081	-0.064	0.000	0.69			20.6	OK
E1.008	E1.008	59	47.080	-0.055	0.000	0.69			20.6	OK
E5.000	E4.001	36	47.861	-0.129	0.000	0.05			0.9	OK
E5.001	E4.002	36	47.600	-0.130	0.000	0.05			2.3	OK
E1.009	EGHOST	53	47.079	-1.092	0.000	0.00		144	0.0	OK

Summary Wizard of 360 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	44	48.320	-0.130	0.000	0.05			0.8	OK
E1.001	E1.001	48	47.348	-0.187	0.000	0.07			2.5	OK
E1.002	E1.002	53	47.256	-0.554	0.000	0.02			6.2	OK
E1.003	E1.003	60	47.123	-0.237	0.000	0.10			6.6	OK
E2.000	E2.000	44	48.518	-0.112	0.000	0.15			2.5	OK
E2.001	E2.001	44	48.208	-0.122	0.000	0.08			4.2	OK
E1.004	E1.004	62	47.081	-0.134	0.000	0.34			10.7	OK
E3.000	E3.001	62	47.079	-0.096	0.000	0.12			3.5	OK
E1.005	E1.005	62	47.079	-0.086	0.000	0.48			14.2	OK
E4.000	E4.001	62	47.079	-0.051	0.000	0.14			2.0	OK

Summary Wizard of 360 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	62	47.078	-0.152	0.000	0.29			16.2	OK
E1.007	E1.007	62	47.077	-0.068	0.000	0.55			16.2	OK
E1.008	E1.008	62	47.076	-0.059	0.000	0.54			16.2	OK
E5.000	E4.001	44	47.859	-0.131	0.000	0.04			0.7	OK
E5.001	E4.002	44	47.598	-0.132	0.000	0.04			1.8	OK
E1.009	EGHOST	55	47.075	-1.096	0.000	0.00		161	0.0	OK

Summary Wizard of 480 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	50	48.319	-0.131	0.000	0.04			0.6	OK
E1.001	E1.001	52	47.344	-0.191	0.000	0.06			2.1	OK
E1.002	E1.002	56	47.248	-0.562	0.000	0.01			5.2	OK
E1.003	E1.003	62	47.117	-0.243	0.000	0.08			5.5	OK
E2.000	E2.000	50	48.515	-0.115	0.000	0.12			2.1	OK
E2.001	E2.001	50	48.205	-0.125	0.000	0.07			3.5	OK
E1.004	E1.004	65	47.073	-0.142	0.000	0.28			8.9	OK
E3.000	E3.001	65	47.071	-0.104	0.000	0.10			2.9	OK
E1.005	E1.005	65	47.071	-0.094	0.000	0.40			11.9	OK
E4.000	E4.001	65	47.070	-0.060	0.000	0.12			1.7	OK

Summary Wizard of 480 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	65	47.069	-0.161	0.000	0.25			13.5	OK
E1.007	E1.007	65	47.069	-0.076	0.000	0.46			13.5	OK
E1.008	E1.008	65	47.068	-0.067	0.000	0.45			13.5	OK
E5.000	E4.001	50	47.858	-0.132	0.000	0.03			0.6	OK
E5.001	E4.002	50	47.597	-0.133	0.000	0.03			1.5	OK
E1.009	EGHOST	59	47.066	-1.105	0.000	0.00		172	0.0	OK

Summary Wizard of 600 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	55	48.318	-0.132	0.000	0.03			0.5	OK
E1.001	E1.001	56	47.342	-0.193	0.000	0.05			1.8	OK
E1.002	E1.002	59	47.243	-0.567	0.000	0.01			4.5	OK
E1.003	E1.003	63	47.113	-0.247	0.000	0.07			4.8	OK
E2.000	E2.000	55	48.512	-0.118	0.000	0.11			1.8	OK
E2.001	E2.001	55	48.203	-0.127	0.000	0.06			3.0	OK
E1.004	E1.004	67	47.065	-0.150	0.000	0.25			7.8	OK
E3.000	E3.001	67	47.059	-0.116	0.000	0.09			2.5	OK
E1.005	E1.005	67	47.059	-0.106	0.000	0.35			10.3	OK
E4.000	E4.001	67	47.059	-0.071	0.000	0.10			1.4	OK

Summary Wizard of 600 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	67	47.058	-0.172	0.000	0.21			11.7	OK
E1.007	E1.007	67	47.057	-0.088	0.000	0.40			11.7	OK
E1.008	E1.008	67	47.056	-0.079	0.000	0.39			11.7	OK
E5.000	E4.001	55	47.857	-0.133	0.000	0.03			0.5	OK
E5.001	E4.002	55	47.596	-0.134	0.000	0.03			1.3	OK
E1.009	EGHOST	61	47.055	-1.116	0.000	0.00		169	0.0	OK

Summary Wizard of 720 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	58	48.317	-0.133	0.000	0.03			0.5	OK
E1.001	E1.001	59	47.340	-0.195	0.000	0.04			1.6	OK
E1.002	E1.002	62	47.239	-0.571	0.000	0.01			4.0	OK
E1.003	E1.003	64	47.109	-0.251	0.000	0.06			4.2	OK
E2.000	E2.000	58	48.511	-0.119	0.000	0.09			1.6	OK
E2.001	E2.001	58	48.202	-0.128	0.000	0.05			2.7	OK
E1.004	E1.004	68	47.061	-0.154	0.000	0.22			6.9	OK
E3.000	E3.001	69	47.045	-0.130	0.000	0.08			2.2	OK
E1.005	E1.005	69	47.045	-0.120	0.000	0.31			9.2	OK
E4.000	E4.001	69	47.045	-0.085	0.000	0.09			1.3	OK

Summary Wizard of 720 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	69	47.044	-0.186	0.000	0.19			10.4	OK
E1.007	E1.007	69	47.043	-0.102	0.000	0.35			10.4	OK
E1.008	E1.008	69	47.042	-0.093	0.000	0.35			10.4	OK
E5.000	E4.001	58	47.856	-0.134	0.000	0.03			0.4	OK
E5.001	E4.002	58	47.595	-0.135	0.000	0.02			1.2	OK
E1.009	EGHOST	64	47.041	-1.130	0.000	0.00		165	0.0	OK

Summary Wizard of 960 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	63	48.316	-0.134	0.000	0.02			0.4	OK
E1.001	E1.001	63	47.337	-0.198	0.000	0.04			1.3	OK
E1.002	E1.002	64	47.234	-0.576	0.000	0.01			3.3	OK
E1.003	E1.003	66	47.104	-0.256	0.000	0.05			3.5	OK
E2.000	E2.000	63	48.508	-0.122	0.000	0.08			1.3	OK
E2.001	E2.001	63	48.200	-0.130	0.000	0.04			2.2	OK
E1.004	E1.004	70	47.054	-0.161	0.000	0.18			5.7	OK
E3.000	E3.001	72	47.017	-0.158	0.000	0.06			1.9	OK
E1.005	E1.005	72	47.017	-0.148	0.000	0.25			7.5	OK
E4.000	E4.001	72	47.015	-0.115	0.000	0.08			1.1	OK

Summary Wizard of 960 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	72	47.009	-0.221	0.000	0.16			8.6	OK
E1.007	E1.007	72	47.008	-0.137	0.000	0.29			8.6	OK
E1.008	E1.008	72	47.007	-0.128	0.000	0.29			8.6	OK
E5.000	E4.001	63	47.855	-0.135	0.000	0.02			0.4	OK
E5.001	E4.002	63	47.593	-0.137	0.000	0.02			1.0	OK
E1.009	EGHOST	69	47.006	-1.165	0.000	0.00		158	0.0	OK

Summary Wizard of 1440 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	70	48.313	-0.137	0.000	0.02			0.3	OK
E1.001	E1.001	70	47.334	-0.201	0.000	0.03			1.0	OK
E1.002	E1.002	70	47.228	-0.582	0.000	0.01			2.5	OK
E1.003	E1.003	70	47.098	-0.262	0.000	0.04			2.6	OK
E2.000	E2.000	70	48.503	-0.127	0.000	0.06			1.0	OK
E2.001	E2.001	70	48.197	-0.133	0.000	0.03			1.7	OK
E1.004	E1.004	72	47.045	-0.170	0.000	0.14			4.3	OK
E3.000	E3.001	73	47.007	-0.168	0.000	0.05			1.4	OK
E1.005	E1.005	73	47.007	-0.158	0.000	0.19			5.7	OK
E4.000	E4.001	73	47.008	-0.122	0.000	0.06			0.8	OK

Summary Wizard of 1440 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	73	46.998	-0.232	0.000	0.12			6.5	OK
E1.007	E1.007	73	46.991	-0.154	0.000	0.22			6.5	OK
E1.008	E1.008	74	46.981	-0.154	0.000	0.22			6.5	OK
E5.000	E4.001	70	47.851	-0.139	0.000	0.02			0.3	OK
E5.001	E4.002	70	47.590	-0.140	0.000	0.01			0.7	OK
E1.009	EGHOST	75	46.938	-1.233	0.000	0.00		149	0.0	OK

Summary Wizard of 2160 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	77	48.310	-0.140	0.000	0.01			0.2	OK
E1.001	E1.001	77	47.332	-0.203	0.000	0.02			0.8	OK
E1.002	E1.002	77	47.224	-0.586	0.000	0.00			1.9	OK
E1.003	E1.003	77	47.094	-0.266	0.000	0.03			2.0	OK
E2.000	E2.000	77	48.500	-0.130	0.000	0.04			0.8	OK
E2.001	E2.001	77	48.196	-0.134	0.000	0.02			1.3	OK
E1.004	E1.004	77	47.038	-0.177	0.000	0.10			3.3	OK
E3.000	E3.001	77	46.998	-0.177	0.000	0.04			1.1	OK
E1.005	E1.005	77	46.997	-0.168	0.000	0.15			4.4	OK
E4.000	E4.001	77	47.002	-0.128	0.000	0.04			0.6	OK

Summary Wizard of 2160 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	77	46.991	-0.239	0.000	0.09			5.0	OK
E1.007	E1.007	77	46.981	-0.164	0.000	0.17			5.0	OK
E1.008	E1.008	77	46.971	-0.164	0.000	0.17			5.0	OK
E5.000	E4.001	77	47.849	-0.141	0.000	0.01			0.2	OK
E5.001	E4.002	77	47.588	-0.142	0.000	0.01			0.6	OK
E1.009	EGHOST	81	46.857	-1.314	0.000	0.00		146	0.0	OK

Summary Wizard of 2880 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	82	48.308	-0.142	0.000	0.01			0.2	OK
E1.001	E1.001	82	47.328	-0.207	0.000	0.02			0.6	OK
E1.002	E1.002	82	47.222	-0.588	0.000	0.00			1.6	OK
E1.003	E1.003	82	47.092	-0.268	0.000	0.03			1.7	OK
E2.000	E2.000	82	48.499	-0.131	0.000	0.04			0.6	OK
E2.001	E2.001	82	48.194	-0.136	0.000	0.02			1.0	OK
E1.004	E1.004	82	47.034	-0.181	0.000	0.09			2.7	OK
E3.000	E3.001	82	46.992	-0.183	0.000	0.03			0.9	OK
E1.005	E1.005	82	46.992	-0.173	0.000	0.12			3.6	OK
E4.000	E4.001	82	46.999	-0.131	0.000	0.04			0.5	OK

Summary Wizard of 2880 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	82	46.984	-0.246	0.000	0.07			4.1	OK
E1.007	E1.007	82	46.975	-0.170	0.000	0.14			4.1	OK
E1.008	E1.008	82	46.965	-0.170	0.000	0.14			4.1	OK
E5.000	E4.001	82	47.847	-0.143	0.000	0.01			0.2	OK
E5.001	E4.002	82	47.586	-0.144	0.000	0.01			0.5	OK
E1.009	EGHOST	82	46.806	-1.365	0.000	0.00		149	0.0	OK

Summary Wizard of 4320 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	88	48.306	-0.144	0.000	0.01			0.1	OK
E1.001	E1.001	88	47.323	-0.212	0.000	0.01			0.5	OK
E1.002	E1.002	88	47.219	-0.591	0.000	0.00			1.2	OK
E1.003	E1.003	88	47.087	-0.273	0.000	0.02			1.2	OK
E2.000	E2.000	88	48.496	-0.134	0.000	0.03			0.5	OK
E2.001	E2.001	88	48.191	-0.139	0.000	0.01			0.8	OK
E1.004	E1.004	88	47.027	-0.188	0.000	0.06			2.0	OK
E3.000	E3.001	88	46.986	-0.189	0.000	0.02			0.7	OK
E1.005	E1.005	88	46.985	-0.180	0.000	0.09			2.7	OK
E4.000	E4.001	88	46.996	-0.134	0.000	0.03			0.4	OK

Summary Wizard of 4320 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	88	46.975	-0.255	0.000	0.06			3.1	OK
E1.007	E1.007	88	46.968	-0.177	0.000	0.10			3.1	OK
E1.008	E1.008	88	46.958	-0.177	0.000	0.10			3.1	OK
E5.000	E4.001	88	47.845	-0.145	0.000	0.01			0.1	OK
E5.001	E4.002	88	47.585	-0.145	0.000	0.01			0.3	OK
E1.009	EGHOST	88	46.774	-1.397	0.000	0.00		341	0.0	OK

Summary Wizard of 5760 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	96	48.305	-0.145	0.000	0.01			0.1	OK
E1.001	E1.001	96	47.321	-0.214	0.000	0.01			0.4	OK
E1.002	E1.002	96	47.217	-0.593	0.000	0.00			1.0	OK
E1.003	E1.003	96	47.082	-0.278	0.000	0.02			1.0	OK
E2.000	E2.000	96	48.495	-0.135	0.000	0.02			0.4	OK
E2.001	E2.001	96	48.189	-0.141	0.000	0.01			0.6	OK
E1.004	E1.004	96	47.023	-0.192	0.000	0.05			1.7	OK
E3.000	E3.001	96	46.981	-0.194	0.000	0.02			0.5	OK
E1.005	E1.005	96	46.980	-0.185	0.000	0.07			2.2	OK
E4.000	E4.001	96	46.995	-0.135	0.000	0.02			0.3	OK

Summary Wizard of 5760 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	96	46.971	-0.259	0.000	0.05			2.5	OK
E1.007	E1.007	96	46.964	-0.181	0.000	0.08			2.5	OK
E1.008	E1.008	96	46.953	-0.182	0.000	0.08			2.5	OK
E5.000	E4.001	96	47.844	-0.146	0.000	0.01			0.1	OK
E5.001	E4.002	96	47.584	-0.146	0.000	0.01			0.3	OK
E1.009	EGHOST	96	46.766	-1.405	0.000	0.00		446	0.0	OK

Summary Wizard of 7200 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	102	48.304	-0.146	0.000	0.01			0.1	OK
E1.001	E1.001	102	47.319	-0.216	0.000	0.01			0.3	OK
E1.002	E1.002	102	47.216	-0.594	0.000	0.00			0.8	OK
E1.003	E1.003	102	47.078	-0.282	0.000	0.01			0.9	OK
E2.000	E2.000	102	48.494	-0.136	0.000	0.02			0.3	OK
E2.001	E2.001	102	48.187	-0.143	0.000	0.01			0.5	OK
E1.004	E1.004	102	47.020	-0.195	0.000	0.04			1.4	OK
E3.000	E3.001	102	46.977	-0.198	0.000	0.02			0.5	OK
E1.005	E1.005	102	46.976	-0.189	0.000	0.06			1.9	OK
E4.000	E4.001	102	46.993	-0.137	0.000	0.02			0.3	OK

Summary Wizard of 7200 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	102	46.968	-0.262	0.000	0.04			2.1	OK
E1.007	E1.007	102	46.959	-0.186	0.000	0.07			2.1	OK
E1.008	E1.008	102	46.949	-0.186	0.000	0.07			2.1	OK
E5.000	E4.001	102	47.844	-0.146	0.000	0.01			0.1	OK
E5.001	E4.002	102	47.583	-0.147	0.000	0.00			0.2	OK
E1.009	EGHOST	102	46.761	-1.410	0.000	0.00		536	0.0	OK

Summary Wizard of 8640 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	104	48.304	-0.146	0.000	0.01			0.1	OK
E1.001	E1.001	104	47.318	-0.217	0.000	0.01			0.3	OK
E1.002	E1.002	104	47.215	-0.595	0.000	0.00			0.7	OK
E1.003	E1.003	104	47.076	-0.284	0.000	0.01			0.8	OK
E2.000	E2.000	104	48.492	-0.138	0.000	0.02			0.3	OK
E2.001	E2.001	104	48.186	-0.144	0.000	0.01			0.5	OK
E1.004	E1.004	104	47.019	-0.196	0.000	0.04			1.2	OK
E3.000	E3.001	104	46.975	-0.200	0.000	0.01			0.4	OK
E1.005	E1.005	104	46.974	-0.191	0.000	0.06			1.6	OK
E4.000	E4.001	104	46.992	-0.138	0.000	0.02			0.2	OK

Summary Wizard of 8640 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	104	46.966	-0.264	0.000	0.03			1.9	OK
E1.007	E1.007	104	46.957	-0.188	0.000	0.06			1.9	OK
E1.008	E1.008	104	46.946	-0.189	0.000	0.06			1.9	OK
E5.000	E4.001	104	47.843	-0.147	0.000	0.00			0.1	OK
E5.001	E4.002	104	47.583	-0.147	0.000	0.00			0.2	OK
E1.009	EGHOST	104	46.757	-1.414	0.000	0.00		638	0.0	OK

Summary Wizard of 10080 minute 10 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	108	48.303	-0.147	0.000	0.00			0.1	OK
E1.001	E1.001	108	47.317	-0.218	0.000	0.01			0.3	OK
E1.002	E1.002	108	47.215	-0.595	0.000	0.00			0.6	OK
E1.003	E1.003	108	47.075	-0.285	0.000	0.01			0.7	OK
E2.000	E2.000	108	48.491	-0.139	0.000	0.02			0.3	OK
E2.001	E2.001	108	48.186	-0.144	0.000	0.01			0.4	OK
E1.004	E1.004	108	47.017	-0.198	0.000	0.04			1.1	OK
E3.000	E3.001	108	46.973	-0.202	0.000	0.01			0.4	OK
E1.005	E1.005	108	46.972	-0.193	0.000	0.05			1.5	OK
E4.000	E4.001	108	46.990	-0.140	0.000	0.01			0.2	OK

Summary Wizard of 10080 minute 10 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	108	46.964	-0.266	0.000	0.03			1.7	OK
E1.007	E1.007	108	46.954	-0.191	0.000	0.06			1.7	OK
E1.008	E1.008	108	46.944	-0.191	0.000	0.06			1.7	OK
E5.000	E4.001	108	47.843	-0.147	0.000	0.00			0.1	OK
E5.001	E4.002	108	47.583	-0.147	0.000	0.00			0.2	OK
E1.009	EGHOST	108	46.754	-1.417	0.000	0.00		735	0.0	OK

Summary Wizard of 15 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	6	48.353	-0.097	0.000	0.27			4.4	OK
E1.001	E1.001	8	47.743	0.208	0.000	0.35			12.9	SURCHARGED
E1.002	E1.002	8	47.728	-0.082	0.000	0.07			26.7	OK
E1.003	E1.003	8	47.704	0.344	0.000	0.35			23.0	SURCHARGED
E2.000	E2.000	6	48.589	-0.041	0.000	0.85			14.5	OK
E2.001	E2.001	6	48.252	-0.078	0.000	0.45			24.1	OK
E1.004	E1.004	8	47.673	0.458	0.000	1.15			36.1	SURCHARGED
E3.000	E3.001	11	47.601	0.426	0.000	0.60			17.9	SURCHARGED
E1.005	E1.005	11	47.596	0.431	0.000	1.60			47.6	SURCHARGED
E4.000	E4.001	13	47.497	0.367	0.000	0.80			11.2	SURCHARGED

Summary Wizard of 15 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	15	47.480	0.250	0.000	0.98			54.0	SURCHARGED
E1.007	E1.007	20	47.404	0.259	0.000	1.82			53.8	SURCHARGED
E1.008	E1.008	29	47.260	0.125	0.000	1.78			53.3	SURCHARGED
E5.000	E4.001	6	47.889	-0.101	0.000	0.23			3.9	OK
E5.001	E4.002	6	47.626	-0.104	0.000	0.21			10.7	OK
E1.009	EGHOST	62	47.049	-1.122	0.000	0.00		89	0.0	OK

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

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	8	48.349	-0.101	0.000	0.23			3.8	OK
E1.001	E1.001	10	47.676	0.141	0.000	0.29			10.8	SURCHARGED
E1.002	E1.002	10	47.660	-0.150	0.000	0.06			23.9	OK
E1.003	E1.003	11	47.641	0.281	0.000	0.31			20.5	SURCHARGED
E2.000	E2.000	8	48.577	-0.053	0.000	0.75			12.7	OK
E2.001	E2.001	8	48.246	-0.084	0.000	0.40			21.2	OK
E1.004	E1.004	11	47.626	0.411	0.000	1.06			33.5	SURCHARGED
E3.000	E3.001	13	47.554	0.379	0.000	0.53			15.7	SURCHARGED
E1.005	E1.005	13	47.550	0.385	0.000	1.50			44.4	SURCHARGED
E4.000	E4.001	18	47.463	0.333	0.000	0.70			9.8	SURCHARGED

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	19	47.447	0.217	0.000	0.92			50.5	SURCHARGED
E1.007	E1.007	25	47.372	0.227	0.000	1.71			50.6	SURCHARGED
E1.008	E1.008	34	47.241	0.106	0.000	1.69			50.5	SURCHARGED
E5.000	E4.001	8	47.885	-0.105	0.000	0.20			3.4	OK
E5.001	E4.002	8	47.623	-0.107	0.000	0.18			9.3	OK
E1.009	EGHOST	48	47.116	-1.055	0.000	0.00		110	0.0	OK

Summary Wizard of 60 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	13	48.342	-0.108	0.000	0.17			2.9	OK
E1.001	E1.001	15	47.564	0.029	0.000	0.23			8.6	SURCHARGED
E1.002	E1.002	16	47.551	-0.259	0.000	0.05			19.0	OK
E1.003	E1.003	17	47.543	0.183	0.000	0.28			18.7	SURCHARGED
E2.000	E2.000	13	48.560	-0.070	0.000	0.56			9.5	OK
E2.001	E2.001	13	48.236	-0.094	0.000	0.30			15.8	OK
E1.004	E1.004	17	47.530	0.315	0.000	0.92			29.1	SURCHARGED
E3.000	E3.001	21	47.458	0.283	0.000	0.42			12.3	SURCHARGED
E1.005	E1.005	21	47.454	0.289	0.000	1.28			38.1	SURCHARGED
E4.000	E4.001	24	47.391	0.261	0.000	0.53			7.4	SURCHARGED

Summary Wizard of 60 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	26	47.379	0.149	0.000	0.79			43.3	SURCHARGED
E1.007	E1.007	27	47.304	0.159	0.000	1.47			43.4	SURCHARGED
E1.008	E1.008	42	47.209	0.074	0.000	1.45			43.4	SURCHARGED
E5.000	E4.001	13	47.878	-0.112	0.000	0.15			2.5	OK
E5.001	E4.002	13	47.616	-0.114	0.000	0.14			7.0	OK
E1.009	EGHOST	40	47.178	-0.993	0.000	0.00		128	0.0	OK

Summary Wizard of 120 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	21	48.334	-0.116	0.000	0.12			2.0	OK
E1.001	E1.001	27	47.446	-0.089	0.000	0.17			6.4	OK
E1.002	E1.002	28	47.438	-0.372	0.000	0.04			15.3	OK
E1.003	E1.003	28	47.436	0.076	0.000	0.19			12.5	SURCHARGED
E2.000	E2.000	21	48.544	-0.086	0.000	0.38			6.5	OK
E2.001	E2.001	21	48.226	-0.104	0.000	0.20			10.8	OK
E1.004	E1.004	28	47.428	0.213	0.000	0.61			19.2	SURCHARGED
E3.000	E3.001	28	47.400	0.225	0.000	0.28			8.2	SURCHARGED
E1.005	E1.005	28	47.398	0.233	0.000	0.89			26.5	SURCHARGED
E4.000	E4.001	29	47.343	0.213	0.000	0.36			5.0	SURCHARGED

Summary Wizard of 120 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	30	47.335	0.105	0.000	0.57			31.1	SURCHARGED
E1.007	E1.007	35	47.260	0.115	0.000	1.05			30.9	SURCHARGED
E1.008	E1.008	40	47.214	0.079	0.000	0.99			29.7	SURCHARGED
E5.000	E4.001	21	47.872	-0.118	0.000	0.10			1.7	OK
E5.001	E4.002	21	47.611	-0.119	0.000	0.09			4.8	OK
E1.009	EGHOST	35	47.213	-0.958	0.000	0.00		143	0.0	OK

Summary Wizard of 180 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	25	48.331	-0.119	0.000	0.09			1.5	OK
E1.001	E1.001	36	47.365	-0.170	0.000	0.14			5.1	OK
E1.002	E1.002	37	47.317	-0.493	0.000	0.03			12.6	OK
E1.003	E1.003	37	47.309	-0.051	0.000	0.17			11.6	OK
E2.000	E2.000	25	48.536	-0.094	0.000	0.30			5.1	OK
E2.001	E2.001	25	48.220	-0.110	0.000	0.16			8.5	OK
E1.004	E1.004	37	47.302	0.087	0.000	0.58			18.4	SURCHARGED
E3.000	E3.001	40	47.288	0.113	0.000	0.23			6.9	SURCHARGED
E1.005	E1.005	40	47.287	0.122	0.000	0.85			25.1	SURCHARGED
E4.000	E4.001	44	47.247	0.117	0.000	0.30			4.3	SURCHARGED

Summary Wizard of 180 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	44	47.243	0.013	0.000	0.50			27.6	SURCHARGED
E1.007	E1.007	41	47.239	0.094	0.000	0.91			26.8	SURCHARGED
E1.008	E1.008	37	47.224	0.089	0.000	0.90			26.8	SURCHARGED
E5.000	E4.001	25	47.868	-0.122	0.000	0.08			1.4	OK
E5.001	E4.002	25	47.606	-0.124	0.000	0.07			3.7	OK
E1.009	EGHOST	32	47.222	-0.949	0.000	0.00		169	0.0	OK

Summary Wizard of 240 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	29	48.328	-0.122	0.000	0.08			1.3	OK
E1.001	E1.001	38	47.360	-0.175	0.000	0.11			4.3	OK
E1.002	E1.002	43	47.276	-0.534	0.000	0.03			10.7	OK
E1.003	E1.003	45	47.236	-0.124	0.000	0.17			11.1	OK
E2.000	E2.000	29	48.531	-0.099	0.000	0.25			4.3	OK
E2.001	E2.001	29	48.216	-0.114	0.000	0.13			7.1	OK
E1.004	E1.004	45	47.235	0.020	0.000	0.57			18.0	SURCHARGED
E3.000	E3.001	45	47.232	0.057	0.000	0.20			5.8	SURCHARGED
E1.005	E1.005	45	47.232	0.067	0.000	0.79			23.6	SURCHARGED
E4.000	E4.001	45	47.231	0.101	0.000	0.24			3.4	SURCHARGED

Summary Wizard of 240 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	45	47.230	0.000	0.000	0.49			26.8	OK
E1.007	E1.007	43	47.227	0.082	0.000	0.90			26.7	SURCHARGED
E1.008	E1.008	36	47.226	0.091	0.000	0.89			26.7	SURCHARGED
E5.000	E4.001	29	47.865	-0.125	0.000	0.07			1.1	OK
E5.001	E4.002	29	47.604	-0.126	0.000	0.06			3.1	OK
E1.009	EGHOST	31	47.225	-0.946	0.000	0.00		186	0.0	OK

Summary Wizard of 360 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	35	48.324	-0.126	0.000	0.06			1.0	OK
E1.001	E1.001	42	47.355	-0.180	0.000	0.09			3.3	OK
E1.002	E1.002	46	47.270	-0.540	0.000	0.02			8.2	OK
E1.003	E1.003	46	47.229	-0.131	0.000	0.13			8.6	OK
E2.000	E2.000	35	48.524	-0.106	0.000	0.19			3.3	OK
E2.001	E2.001	35	48.212	-0.118	0.000	0.10			5.5	OK
E1.004	E1.004	46	47.228	0.013	0.000	0.45			14.1	SURCHARGED
E3.000	E3.001	46	47.226	0.051	0.000	0.15			4.5	SURCHARGED
E1.005	E1.005	46	47.226	0.061	0.000	0.63			18.6	SURCHARGED
E4.000	E4.001	46	47.225	0.095	0.000	0.19			2.6	SURCHARGED

Summary Wizard of 360 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	46	47.224	-0.006	0.000	0.39			21.2	OK
E1.007	E1.007	44	47.222	0.077	0.000	0.72			21.2	SURCHARGED
E1.008	E1.008	38	47.221	0.086	0.000	0.71			21.2	SURCHARGED
E5.000	E4.001	35	47.862	-0.128	0.000	0.05			0.9	OK
E5.001	E4.002	35	47.601	-0.129	0.000	0.05			2.4	OK
E1.009	EGHOST	33	47.220	-0.951	0.000	0.00		207	0.0	OK

Summary Wizard of 480 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	41	48.321	-0.129	0.000	0.05			0.8	OK
E1.001	E1.001	47	47.350	-0.185	0.000	0.07			2.7	OK
E1.002	E1.002	50	47.259	-0.551	0.000	0.02			6.8	OK
E1.003	E1.003	49	47.219	-0.141	0.000	0.11			7.1	OK
E2.000	E2.000	41	48.520	-0.110	0.000	0.16			2.7	OK
E2.001	E2.001	41	48.209	-0.121	0.000	0.08			4.5	OK
E1.004	E1.004	48	47.218	0.003	0.000	0.37			11.6	SURCHARGED
E3.000	E3.001	48	47.215	0.040	0.000	0.13			3.8	SURCHARGED
E1.005	E1.005	48	47.215	0.050	0.000	0.52			15.4	SURCHARGED
E4.000	E4.001	48	47.214	0.084	0.000	0.15			2.2	SURCHARGED

Summary Wizard of 480 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	48	47.213	-0.017	0.000	0.32			17.5	OK
E1.007	E1.007	46	47.213	0.068	0.000	0.59			17.5	SURCHARGED
E1.008	E1.008	41	47.212	0.077	0.000	0.59			17.5	SURCHARGED
E5.000	E4.001	41	47.860	-0.130	0.000	0.04			0.7	OK
E5.001	E4.002	41	47.599	-0.131	0.000	0.04			2.0	OK
E1.009	EGHOST	36	47.210	-0.961	0.000	0.00		227	0.0	OK

Summary Wizard of 600 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	47	48.320	-0.130	0.000	0.04			0.7	OK
E1.001	E1.001	51	47.346	-0.189	0.000	0.06			2.3	OK
E1.002	E1.002	55	47.252	-0.558	0.000	0.01			5.8	OK
E1.003	E1.003	50	47.207	-0.153	0.000	0.09			6.1	OK
E2.000	E2.000	47	48.517	-0.113	0.000	0.14			2.3	OK
E2.001	E2.001	47	48.207	-0.123	0.000	0.07			3.9	OK
E1.004	E1.004	50	47.205	-0.010	0.000	0.32			10.0	OK
E3.000	E3.001	49	47.203	0.028	0.000	0.11			3.3	SURCHARGED
E1.005	E1.005	49	47.204	0.039	0.000	0.45			13.2	SURCHARGED
E4.000	E4.001	49	47.202	0.072	0.000	0.13			1.9	SURCHARGED

Summary Wizard of 600 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	49	47.201	-0.029	0.000	0.28			15.1	OK
E1.007	E1.007	47	47.201	0.056	0.000	0.51			15.1	SURCHARGED
E1.008	E1.008	43	47.199	0.064	0.000	0.51			15.1	SURCHARGED
E5.000	E4.001	47	47.858	-0.132	0.000	0.04			0.6	OK
E5.001	E4.002	47	47.598	-0.132	0.000	0.03			1.7	OK
E1.009	EGHOST	38	47.197	-0.974	0.000	0.00		238	0.0	OK

Summary Wizard of 720 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	51	48.319	-0.131	0.000	0.04			0.6	OK
E1.001	E1.001	53	47.344	-0.191	0.000	0.06			2.1	OK
E1.002	E1.002	57	47.248	-0.562	0.000	0.01			5.1	OK
E1.003	E1.003	51	47.192	-0.168	0.000	0.08			5.4	OK
E2.000	E2.000	51	48.514	-0.116	0.000	0.12			2.1	OK
E2.001	E2.001	51	48.205	-0.125	0.000	0.06			3.4	OK
E1.004	E1.004	51	47.191	-0.024	0.000	0.28			8.8	OK
E3.000	E3.001	51	47.189	0.014	0.000	0.10			2.9	SURCHARGED
E1.005	E1.005	51	47.189	0.024	0.000	0.39			11.7	SURCHARGED
E4.000	E4.001	50	47.188	0.058	0.000	0.12			1.6	SURCHARGED

Summary Wizard of 720 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	50	47.187	-0.043	0.000	0.24			13.4	OK
E1.007	E1.007	49	47.187	0.042	0.000	0.45			13.4	SURCHARGED
E1.008	E1.008	45	47.185	0.050	0.000	0.45			13.4	SURCHARGED
E5.000	E4.001	51	47.857	-0.133	0.000	0.03			0.5	OK
E5.001	E4.002	51	47.597	-0.133	0.000	0.03			1.5	OK
E1.009	EGHOST	39	47.184	-0.987	0.000	0.00		239	0.0	OK

Summary Wizard of 960 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	57	48.317	-0.133	0.000	0.03			0.5	OK
E1.001	E1.001	58	47.340	-0.195	0.000	0.04			1.7	OK
E1.002	E1.002	60	47.241	-0.569	0.000	0.01			4.2	OK
E1.003	E1.003	53	47.153	-0.207	0.000	0.07			4.4	OK
E2.000	E2.000	57	48.511	-0.119	0.000	0.10			1.7	OK
E2.001	E2.001	57	48.202	-0.128	0.000	0.05			2.8	OK
E1.004	E1.004	53	47.152	-0.063	0.000	0.23			7.2	OK
E3.000	E3.001	53	47.150	-0.025	0.000	0.08			2.3	OK
E1.005	E1.005	53	47.149	-0.016	0.000	0.32			9.5	OK
E4.000	E4.001	52	47.149	0.019	0.000	0.10			1.3	SURCHARGED

Summary Wizard of 960 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	52	47.148	-0.082	0.000	0.20			10.9	OK
E1.007	E1.007	52	47.147	0.002	0.000	0.37			10.9	SURCHARGED
E1.008	E1.008	50	47.146	0.011	0.000	0.36			10.9	SURCHARGED
E5.000	E4.001	57	47.856	-0.134	0.000	0.03			0.4	OK
E5.001	E4.002	57	47.596	-0.134	0.000	0.02			1.2	OK
E1.009	EGHOST	43	47.144	-1.027	0.000	0.00		225	0.0	OK

Summary Wizard of 1440 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	65	48.315	-0.135	0.000	0.02			0.4	OK
E1.001	E1.001	65	47.337	-0.198	0.000	0.03			1.3	OK
E1.002	E1.002	66	47.233	-0.577	0.000	0.01			3.1	OK
E1.003	E1.003	68	47.103	-0.257	0.000	0.05			3.3	OK
E2.000	E2.000	65	48.507	-0.123	0.000	0.07			1.3	OK
E2.001	E2.001	65	48.199	-0.131	0.000	0.04			2.1	OK
E1.004	E1.004	64	47.075	-0.140	0.000	0.17			5.4	OK
E3.000	E3.001	64	47.073	-0.102	0.000	0.06			1.8	OK
E1.005	E1.005	64	47.072	-0.093	0.000	0.24			7.2	OK
E4.000	E4.001	64	47.072	-0.058	0.000	0.07			1.0	OK

Summary Wizard of 1440 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	64	47.071	-0.159	0.000	0.15			8.2	OK
E1.007	E1.007	64	47.071	-0.074	0.000	0.28			8.2	OK
E1.008	E1.008	64	47.069	-0.066	0.000	0.27			8.2	OK
E5.000	E4.001	65	47.854	-0.136	0.000	0.02			0.3	OK
E5.001	E4.002	65	47.593	-0.137	0.000	0.02			0.9	OK
E1.009	EGHOST	57	47.068	-1.103	0.000	0.00		203	0.0	OK

Summary Wizard of 2160 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	73	48.312	-0.138	0.000	0.02			0.3	OK
E1.001	E1.001	73	47.334	-0.201	0.000	0.03			0.9	OK
E1.002	E1.002	73	47.227	-0.583	0.000	0.01			2.4	OK
E1.003	E1.003	73	47.097	-0.263	0.000	0.04			2.5	OK
E2.000	E2.000	73	48.503	-0.127	0.000	0.06			0.9	OK
E2.001	E2.001	73	48.197	-0.133	0.000	0.03			1.6	OK
E1.004	E1.004	75	47.043	-0.172	0.000	0.13			4.0	OK
E3.000	E3.001	75	47.005	-0.170	0.000	0.04			1.3	OK
E1.005	E1.005	75	47.004	-0.161	0.000	0.18			5.4	OK
E4.000	E4.001	75	47.006	-0.124	0.000	0.05			0.8	OK

Summary Wizard of 2160 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	75	46.996	-0.234	0.000	0.11			6.1	OK
E1.007	E1.007	75	46.989	-0.156	0.000	0.21			6.1	OK
E1.008	E1.008	75	46.979	-0.156	0.000	0.20			6.1	OK
E5.000	E4.001	73	47.850	-0.140	0.000	0.01			0.3	OK
E5.001	E4.002	73	47.589	-0.141	0.000	0.01			0.7	OK
E1.009	EGHOST	73	46.966	-1.205	0.000	0.00		193	0.0	OK

Summary Wizard of 2880 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	76	48.310	-0.140	0.000	0.01			0.2	OK
E1.001	E1.001	76	47.332	-0.203	0.000	0.02			0.8	OK
E1.002	E1.002	76	47.224	-0.586	0.000	0.00			1.9	OK
E1.003	E1.003	76	47.094	-0.266	0.000	0.03			2.0	OK
E2.000	E2.000	76	48.500	-0.130	0.000	0.04			0.8	OK
E2.001	E2.001	76	48.196	-0.134	0.000	0.02			1.3	OK
E1.004	E1.004	76	47.038	-0.177	0.000	0.10			3.3	OK
E3.000	E3.001	76	46.998	-0.177	0.000	0.04			1.1	OK
E1.005	E1.005	76	46.997	-0.168	0.000	0.15			4.4	OK
E4.000	E4.001	76	47.002	-0.128	0.000	0.04			0.6	OK

Summary Wizard of 2880 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	76	46.991	-0.239	0.000	0.09			5.0	OK
E1.007	E1.007	76	46.982	-0.163	0.000	0.17			5.0	OK
E1.008	E1.008	76	46.971	-0.164	0.000	0.17			5.0	OK
E5.000	E4.001	76	47.849	-0.141	0.000	0.01			0.2	OK
E5.001	E4.002	76	47.588	-0.142	0.000	0.01			0.6	OK
E1.009	EGHOST	77	46.883	-1.288	0.000	0.00		184	0.0	OK

Summary Wizard of 4320 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	83	48.307	-0.143	0.000	0.01			0.2	OK
E1.001	E1.001	83	47.326	-0.209	0.000	0.02			0.6	OK
E1.002	E1.002	83	47.220	-0.590	0.000	0.00			1.4	OK
E1.003	E1.003	83	47.091	-0.269	0.000	0.02			1.5	OK
E2.000	E2.000	83	48.498	-0.132	0.000	0.03			0.6	OK
E2.001	E2.001	83	48.193	-0.137	0.000	0.02			0.9	OK
E1.004	E1.004	83	47.031	-0.184	0.000	0.08			2.4	OK
E3.000	E3.001	83	46.990	-0.185	0.000	0.03			0.8	OK
E1.005	E1.005	83	46.989	-0.176	0.000	0.11			3.2	OK
E4.000	E4.001	83	46.998	-0.132	0.000	0.03			0.5	OK

Summary Wizard of 4320 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	83	46.980	-0.250	0.000	0.07			3.7	OK
E1.007	E1.007	83	46.972	-0.173	0.000	0.12			3.7	OK
E1.008	E1.008	83	46.962	-0.173	0.000	0.12			3.7	OK
E5.000	E4.001	83	47.846	-0.144	0.000	0.01			0.2	OK
E5.001	E4.002	83	47.586	-0.144	0.000	0.01			0.4	OK
E1.009	EGHOST	83	46.788	-1.383	0.000	0.00		295	0.0	OK

Summary Wizard of 5760 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	90	48.306	-0.144	0.000	0.01			0.1	OK
E1.001	E1.001	90	47.323	-0.212	0.000	0.01			0.5	OK
E1.002	E1.002	90	47.218	-0.592	0.000	0.00			1.1	OK
E1.003	E1.003	90	47.086	-0.274	0.000	0.02			1.2	OK
E2.000	E2.000	90	48.496	-0.134	0.000	0.03			0.5	OK
E2.001	E2.001	90	48.190	-0.140	0.000	0.01			0.8	OK
E1.004	E1.004	90	47.026	-0.189	0.000	0.06			2.0	OK
E3.000	E3.001	90	46.985	-0.190	0.000	0.02			0.6	OK
E1.005	E1.005	90	46.985	-0.180	0.000	0.09			2.6	OK
E4.000	E4.001	90	46.996	-0.134	0.000	0.03			0.4	OK

Summary Wizard of 5760 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	90	46.975	-0.255	0.000	0.05			3.0	OK
E1.007	E1.007	90	46.967	-0.178	0.000	0.10			3.0	OK
E1.008	E1.008	90	46.957	-0.178	0.000	0.10			3.0	OK
E5.000	E4.001	90	47.845	-0.145	0.000	0.01			0.1	OK
E5.001	E4.002	90	47.585	-0.145	0.000	0.01			0.3	OK
E1.009	EGHOST	90	46.773	-1.398	0.000	0.00		434	0.0	OK

Summary Wizard of 7200 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	95	48.305	-0.145	0.000	0.01			0.1	OK
E1.001	E1.001	95	47.321	-0.214	0.000	0.01			0.4	OK
E1.002	E1.002	95	47.217	-0.593	0.000	0.00			1.0	OK
E1.003	E1.003	95	47.082	-0.278	0.000	0.02			1.0	OK
E2.000	E2.000	95	48.495	-0.135	0.000	0.02			0.4	OK
E2.001	E2.001	95	48.189	-0.141	0.000	0.01			0.6	OK
E1.004	E1.004	95	47.023	-0.192	0.000	0.05			1.7	OK
E3.000	E3.001	95	46.981	-0.194	0.000	0.02			0.5	OK
E1.005	E1.005	95	46.980	-0.185	0.000	0.07			2.2	OK
E4.000	E4.001	95	46.995	-0.135	0.000	0.02			0.3	OK

Summary Wizard of 7200 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	95	46.971	-0.259	0.000	0.05			2.5	OK
E1.007	E1.007	95	46.964	-0.181	0.000	0.08			2.5	OK
E1.008	E1.008	95	46.953	-0.182	0.000	0.08			2.5	OK
E5.000	E4.001	95	47.844	-0.146	0.000	0.01			0.1	OK
E5.001	E4.002	95	47.584	-0.146	0.000	0.01			0.3	OK
E1.009	EGHOST	95	46.766	-1.405	0.000	0.00		540	0.0	OK

Summary Wizard of 8640 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	99	48.304	-0.146	0.000	0.01			0.1	OK
E1.001	E1.001	99	47.320	-0.215	0.000	0.01			0.3	OK
E1.002	E1.002	99	47.216	-0.594	0.000	0.00			0.8	OK
E1.003	E1.003	99	47.079	-0.281	0.000	0.01			0.9	OK
E2.000	E2.000	99	48.494	-0.136	0.000	0.02			0.3	OK
E2.001	E2.001	99	48.187	-0.143	0.000	0.01			0.6	OK
E1.004	E1.004	99	47.021	-0.194	0.000	0.05			1.4	OK
E3.000	E3.001	99	46.978	-0.197	0.000	0.02			0.5	OK
E1.005	E1.005	99	46.977	-0.188	0.000	0.06			1.9	OK
E4.000	E4.001	99	46.994	-0.136	0.000	0.02			0.3	OK

Summary Wizard of 8640 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	99	46.968	-0.262	0.000	0.04			2.2	OK
E1.007	E1.007	99	46.960	-0.185	0.000	0.07			2.2	OK
E1.008	E1.008	99	46.950	-0.185	0.000	0.07			2.2	OK
E5.000	E4.001	99	47.844	-0.146	0.000	0.01			0.1	OK
E5.001	E4.002	99	47.583	-0.147	0.000	0.00			0.2	OK
E1.009	EGHOST	99	46.762	-1.409	0.000	0.00		666	0.0	OK

Summary Wizard of 10080 minute 30 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	103	48.304	-0.146	0.000	0.01			0.1	OK
E1.001	E1.001	103	47.319	-0.216	0.000	0.01			0.3	OK
E1.002	E1.002	103	47.215	-0.595	0.000	0.00			0.7	OK
E1.003	E1.003	103	47.077	-0.283	0.000	0.01			0.8	OK
E2.000	E2.000	103	48.492	-0.138	0.000	0.02			0.3	OK
E2.001	E2.001	103	48.187	-0.143	0.000	0.01			0.5	OK
E1.004	E1.004	103	47.019	-0.196	0.000	0.04			1.3	OK
E3.000	E3.001	103	46.976	-0.199	0.000	0.01			0.4	OK
E1.005	E1.005	103	46.975	-0.190	0.000	0.06			1.7	OK
E4.000	E4.001	103	46.992	-0.138	0.000	0.02			0.2	OK

Summary Wizard of 10080 minute 30 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	103	46.966	-0.264	0.000	0.04			1.9	OK
E1.007	E1.007	103	46.957	-0.188	0.000	0.07			1.9	OK
E1.008	E1.008	103	46.947	-0.188	0.000	0.07			1.9	OK
E5.000	E4.001	103	47.843	-0.147	0.000	0.00			0.1	OK
E5.001	E4.002	103	47.583	-0.147	0.000	0.00			0.2	OK
E1.009	EGHOST	103	46.758	-1.413	0.000	0.00		823	0.0	OK

Summary Wizard of 15 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	2	48.393	-0.057	0.000	0.41			6.7	OK
E1.001	E1.001	2	48.377	0.842	0.000	0.40			14.8	SURCHARGED
E1.002	E1.002	2	48.352	0.542	0.000	0.09			34.3	SURCHARGED
E1.003	E1.003	2	48.346	0.986	0.000	0.47			31.0	SURCHARGED
E2.000	E2.000	2	48.890	0.260	0.000	1.28			21.8	SURCHARGED
E2.001	E2.001	2	48.542	0.212	0.000	0.67			35.6	SURCHARGED
E1.004	E1.004	2	48.250	1.035	0.000	1.73			54.7	SURCHARGED
E3.000	E3.001	2	48.120	0.945	0.000	0.81			24.1	SURCHARGED
E1.005	E1.005	2	48.108	0.943	0.000	2.39			70.8	SURCHARGED
E4.000	E4.001	2	47.895	0.765	0.000	1.20			16.8	SURCHARGED

Summary Wizard of 15 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	2	47.859	0.629	0.000	1.46			80.3	SURCHARGED
E1.007	E1.007	2	47.758	0.613	0.000	2.69			79.7	SURCHARGED
E1.008	E1.008	12	47.437	0.302	0.000	2.67			79.8	SURCHARGED
E5.000	E4.001	2	47.901	-0.089	0.000	0.34			5.8	OK
E5.001	E4.002	2	47.638	-0.092	0.000	0.31			16.2	OK
E1.009	EGHOST	37	47.207	-0.964	0.000	0.00		136	0.0	OK

Summary Wizard of 30 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	3	48.361	-0.089	0.000	0.34			5.6	OK
E1.001	E1.001	4	48.239	0.704	0.000	0.32			12.1	SURCHARGED
E1.002	E1.002	4	48.218	0.408	0.000	0.08			31.9	SURCHARGED
E1.003	E1.003	4	48.212	0.852	0.000	0.44			29.3	SURCHARGED
E2.000	E2.000	3	48.689	0.059	0.000	1.10			18.7	SURCHARGED
E2.001	E2.001	4	48.336	0.006	0.000	0.59			31.1	SURCHARGED
E1.004	E1.004	4	48.124	0.909	0.000	1.62			51.1	SURCHARGED
E3.000	E3.001	4	48.003	0.828	0.000	0.70			20.7	SURCHARGED
E1.005	E1.005	4	47.995	0.830	0.000	2.24			66.4	SURCHARGED
E4.000	E4.001	4	47.799	0.669	0.000	1.01			14.1	SURCHARGED

Summary Wizard of 30 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	4	47.770	0.540	0.000	1.37			75.2	SURCHARGED
E1.007	E1.007	4	47.680	0.535	0.000	2.53			75.0	SURCHARGED
E1.008	E1.008	18	47.398	0.263	0.000	2.50			74.8	SURCHARGED
E5.000	E4.001	3	47.895	-0.095	0.000	0.29			5.0	OK
E5.001	E4.002	3	47.632	-0.098	0.000	0.27			13.8	OK
E1.009	EGHOST	21	47.293	-0.878	0.000	0.00		160	0.0	OK

Summary Wizard of 60 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	7	48.351	-0.099	0.000	0.25			4.1	OK
E1.001	E1.001	5	47.945	0.410	0.000	0.27			10.2	SURCHARGED
E1.002	E1.002	5	47.927	0.117	0.000	0.07			26.3	SURCHARGED
E1.003	E1.003	5	47.922	0.562	0.000	0.38			25.4	SURCHARGED
E2.000	E2.000	7	48.582	-0.048	0.000	0.80			13.6	OK
E2.001	E2.001	7	48.248	-0.082	0.000	0.43			22.7	OK
E1.004	E1.004	5	47.839	0.624	0.000	1.35			42.5	SURCHARGED
E3.000	E3.001	5	47.755	0.580	0.000	0.54			16.0	SURCHARGED
E1.005	E1.005	5	47.750	0.585	0.000	1.87			55.7	SURCHARGED
E4.000	E4.001	6	47.610	0.480	0.000	0.74			10.4	SURCHARGED

Summary Wizard of 60 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	7	47.593	0.363	0.000	1.15			63.3	SURCHARGED
E1.007	E1.007	9	47.518	0.373	0.000	2.13			63.2	SURCHARGED
E1.008	E1.008	21	47.375	0.240	0.000	2.12			63.3	SURCHARGED
E5.000	E4.001	7	47.887	-0.103	0.000	0.21			3.6	OK
E5.001	E4.002	7	47.625	-0.105	0.000	0.19			10.0	OK
E1.009	EGHOST	17	47.374	-0.797	0.000	0.00		185	0.0	OK

Summary Wizard of 120 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	14	48.341	-0.109	0.000	0.17			2.7	OK
E1.001	E1.001	12	47.628	0.093	0.000	0.21			7.9	SURCHARGED
E1.002	E1.002	13	47.614	-0.196	0.000	0.05			20.1	OK
E1.003	E1.003	14	47.602	0.242	0.000	0.29			19.2	SURCHARGED
E2.000	E2.000	14	48.558	-0.072	0.000	0.53			9.1	OK
E2.001	E2.001	14	48.234	-0.096	0.000	0.29			15.1	OK
E1.004	E1.004	14	47.589	0.374	0.000	1.01			31.7	SURCHARGED
E3.000	E3.001	15	47.537	0.362	0.000	0.40			11.9	SURCHARGED
E1.005	E1.005	15	47.535	0.370	0.000	1.41			41.9	SURCHARGED
E4.000	E4.001	15	47.486	0.356	0.000	0.51			7.2	SURCHARGED

Summary Wizard of 120 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	14	47.480	0.250	0.000	0.87			47.9	SURCHARGED
E1.007	E1.007	16	47.446	0.301	0.000	1.61			47.6	SURCHARGED
E1.008	E1.008	14	47.429	0.294	0.000	1.58			47.3	SURCHARGED
E5.000	E4.001	14	47.878	-0.112	0.000	0.14			2.4	OK
E5.001	E4.002	14	47.616	-0.114	0.000	0.13			6.7	OK
E1.009	EGHOST	12	47.428	-0.743	0.000	0.00		201	0.0	OK

Summary Wizard of 180 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	18	48.335	-0.115	0.000	0.13			2.1	OK
E1.001	E1.001	17	47.558	0.023	0.000	0.17			6.3	SURCHARGED
E1.002	E1.002	17	47.550	-0.260	0.000	0.04			15.0	OK
E1.003	E1.003	16	47.547	0.187	0.000	0.22			14.8	SURCHARGED
E2.000	E2.000	18	48.547	-0.083	0.000	0.41			7.0	OK
E2.001	E2.001	18	48.228	-0.102	0.000	0.22			11.7	OK
E1.004	E1.004	16	47.539	0.324	0.000	0.79			24.9	SURCHARGED
E3.000	E3.001	16	47.523	0.348	0.000	0.32			9.3	SURCHARGED
E1.005	E1.005	16	47.521	0.356	0.000	1.11			33.1	SURCHARGED
E4.000	E4.001	17	47.474	0.344	0.000	0.40			5.6	SURCHARGED

Summary Wizard of 180 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	16	47.469	0.239	0.000	0.69			37.6	SURCHARGED
E1.007	E1.007	15	47.451	0.306	0.000	1.26			37.3	SURCHARGED
E1.008	E1.008	11	47.440	0.305	0.000	1.24			37.0	SURCHARGED
E5.000	E4.001	18	47.873	-0.117	0.000	0.11			1.9	OK
E5.001	E4.002	18	47.612	-0.118	0.000	0.10			5.2	OK
E1.009	EGHOST	9	47.439	-0.732	0.000	0.00		213	0.0	OK

Summary Wizard of 240 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	22	48.332	-0.118	0.000	0.11			1.7	OK
E1.001	E1.001	21	47.509	-0.026	0.000	0.15			5.7	OK
E1.002	E1.002	21	47.503	-0.307	0.000	0.03			13.5	OK
E1.003	E1.003	21	47.501	0.141	0.000	0.17			11.5	SURCHARGED
E2.000	E2.000	22	48.540	-0.090	0.000	0.34			5.8	OK
E2.001	E2.001	22	48.223	-0.107	0.000	0.18			9.7	OK
E1.004	E1.004	20	47.494	0.279	0.000	0.58			18.3	SURCHARGED
E3.000	E3.001	19	47.481	0.306	0.000	0.25			7.5	SURCHARGED
E1.005	E1.005	19	47.479	0.314	0.000	0.85			25.2	SURCHARGED
E4.000	E4.001	20	47.443	0.313	0.000	0.32			4.5	SURCHARGED

Summary Wizard of 240 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	20	47.442	0.212	0.000	0.49			27.0	SURCHARGED
E1.007	E1.007	17	47.442	0.297	0.000	0.90			26.8	SURCHARGED
E1.008	E1.008	10	47.440	0.305	0.000	0.89			26.7	SURCHARGED
E5.000	E4.001	22	47.870	-0.120	0.000	0.09			1.5	OK
E5.001	E4.002	22	47.609	-0.121	0.000	0.08			4.3	OK
E1.009	EGHOST	10	47.439	-0.732	0.000	0.00		238	0.0	OK

Summary Wizard of 360 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	28	48.328	-0.122	0.000	0.08			1.3	OK
E1.001	E1.001	28	47.439	-0.096	0.000	0.12			4.4	OK
E1.002	E1.002	27	47.438	-0.372	0.000	0.03			10.7	OK
E1.003	E1.003	27	47.438	0.078	0.000	0.15			10.3	SURCHARGED
E2.000	E2.000	28	48.531	-0.099	0.000	0.26			4.4	OK
E2.001	E2.001	28	48.217	-0.113	0.000	0.14			7.3	OK
E1.004	E1.004	27	47.437	0.222	0.000	0.51			16.2	SURCHARGED
E3.000	E3.001	22	47.434	0.259	0.000	0.18			5.4	SURCHARGED
E1.005	E1.005	22	47.434	0.269	0.000	0.71			21.1	SURCHARGED
E4.000	E4.001	21	47.433	0.303	0.000	0.24			3.4	SURCHARGED

Summary Wizard of 360 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	21	47.432	0.202	0.000	0.44			24.0	SURCHARGED
E1.007	E1.007	18	47.431	0.286	0.000	0.80			23.8	SURCHARGED
E1.008	E1.008	13	47.430	0.295	0.000	0.79			23.6	SURCHARGED
E5.000	E4.001	28	47.866	-0.124	0.000	0.07			1.2	OK
E5.001	E4.002	28	47.604	-0.126	0.000	0.06			3.2	OK
E1.009	EGHOST	11	47.428	-0.743	0.000	0.00		269	0.0	OK

Summary Wizard of 480 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	34	48.325	-0.125	0.000	0.07			1.1	OK
E1.001	E1.001	29	47.425	-0.110	0.000	0.10			3.6	OK
E1.002	E1.002	29	47.424	-0.386	0.000	0.02			8.9	OK
E1.003	E1.003	29	47.424	0.064	0.000	0.13			8.8	SURCHARGED
E2.000	E2.000	34	48.526	-0.104	0.000	0.21			3.6	OK
E2.001	E2.001	34	48.213	-0.117	0.000	0.11			6.0	OK
E1.004	E1.004	29	47.423	0.208	0.000	0.44			13.8	SURCHARGED
E3.000	E3.001	25	47.420	0.245	0.000	0.16			4.7	SURCHARGED
E1.005	E1.005	24	47.421	0.256	0.000	0.60			17.8	SURCHARGED
E4.000	E4.001	22	47.419	0.289	0.000	0.20			2.8	SURCHARGED

Summary Wizard of 480 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	22	47.418	0.188	0.000	0.37			20.1	SURCHARGED
E1.007	E1.007	19	47.417	0.272	0.000	0.67			19.8	SURCHARGED
E1.008	E1.008	15	47.416	0.281	0.000	0.65			19.6	SURCHARGED
E5.000	E4.001	34	47.863	-0.127	0.000	0.06			1.0	OK
E5.001	E4.002	34	47.602	-0.128	0.000	0.05			2.6	OK
E1.009	EGHOST	13	47.415	-0.756	0.000	0.00		289	0.0	OK

Summary Wizard of 600 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	39	48.323	-0.127	0.000	0.06			0.9	OK
E1.001	E1.001	30	47.409	-0.126	0.000	0.08			3.0	OK
E1.002	E1.002	30	47.408	-0.402	0.000	0.02			7.6	OK
E1.003	E1.003	30	47.408	0.048	0.000	0.12			8.0	SURCHARGED
E2.000	E2.000	39	48.523	-0.107	0.000	0.18			3.0	OK
E2.001	E2.001	39	48.211	-0.119	0.000	0.10			5.1	OK
E1.004	E1.004	30	47.407	0.192	0.000	0.41			12.8	SURCHARGED
E3.000	E3.001	27	47.405	0.230	0.000	0.14			4.2	SURCHARGED
E1.005	E1.005	26	47.404	0.239	0.000	0.56			16.7	SURCHARGED
E4.000	E4.001	23	47.404	0.274	0.000	0.17			2.4	SURCHARGED

Summary Wizard of 600 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	23	47.402	0.172	0.000	0.35			19.0	SURCHARGED
E1.007	E1.007	21	47.402	0.257	0.000	0.64			18.9	SURCHARGED
E1.008	E1.008	17	47.400	0.265	0.000	0.63			18.8	SURCHARGED
E5.000	E4.001	39	47.861	-0.129	0.000	0.05			0.8	OK
E5.001	E4.002	39	47.600	-0.130	0.000	0.04			2.2	OK
E1.009	EGHOST	14	47.399	-0.772	0.000	0.00		302	0.0	OK

Summary Wizard of 720 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	42	48.321	-0.129	0.000	0.05			0.8	OK
E1.001	E1.001	33	47.392	-0.143	0.000	0.07			2.7	OK
E1.002	E1.002	32	47.390	-0.420	0.000	0.02			6.7	OK
E1.003	E1.003	32	47.390	0.030	0.000	0.11			7.2	SURCHARGED
E2.000	E2.000	42	48.519	-0.111	0.000	0.16			2.7	OK
E2.001	E2.001	42	48.209	-0.121	0.000	0.08			4.5	OK
E1.004	E1.004	32	47.389	0.174	0.000	0.37			11.6	SURCHARGED
E3.000	E3.001	32	47.387	0.212	0.000	0.13			3.8	SURCHARGED
E1.005	E1.005	32	47.386	0.221	0.000	0.52			15.4	SURCHARGED
E4.000	E4.001	26	47.386	0.256	0.000	0.15			2.1	SURCHARGED

Summary Wizard of 720 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	25	47.385	0.155	0.000	0.32			17.5	SURCHARGED
E1.007	E1.007	24	47.384	0.239	0.000	0.59			17.3	SURCHARGED
E1.008	E1.008	20	47.383	0.248	0.000	0.57			17.1	SURCHARGED
E5.000	E4.001	42	47.860	-0.130	0.000	0.04			0.7	OK
E5.001	E4.002	42	47.599	-0.131	0.000	0.04			2.0	OK
E1.009	EGHOST	16	47.382	-0.789	0.000	0.00		315	0.0	OK

Summary Wizard of 960 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	49	48.319	-0.131	0.000	0.04			0.6	OK
E1.001	E1.001	46	47.350	-0.185	0.000	0.06			2.2	OK
E1.002	E1.002	36	47.347	-0.463	0.000	0.01			5.4	OK
E1.003	E1.003	36	47.347	-0.013	0.000	0.08			5.6	OK
E2.000	E2.000	49	48.515	-0.115	0.000	0.13			2.2	OK
E2.001	E2.001	49	48.205	-0.125	0.000	0.07			3.6	OK
E1.004	E1.004	35	47.345	0.130	0.000	0.29			9.1	SURCHARGED
E3.000	E3.001	35	47.343	0.168	0.000	0.10			2.8	SURCHARGED
E1.005	E1.005	35	47.344	0.179	0.000	0.39			11.6	SURCHARGED
E4.000	E4.001	30	47.342	0.212	0.000	0.12			1.7	SURCHARGED

Summary Wizard of 960 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	29	47.341	0.111	0.000	0.24			13.1	SURCHARGED
E1.007	E1.007	26	47.340	0.195	0.000	0.44			13.0	SURCHARGED
E1.008	E1.008	22	47.338	0.203	0.000	0.43			12.9	SURCHARGED
E5.000	E4.001	49	47.858	-0.132	0.000	0.03			0.6	OK
E5.001	E4.002	49	47.597	-0.133	0.000	0.03			1.6	OK
E1.009	EGHOST	19	47.337	-0.834	0.000	0.00		323	0.0	OK

Summary Wizard of 1440 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	59	48.317	-0.133	0.000	0.03			0.5	OK
E1.001	E1.001	60	47.340	-0.195	0.000	0.04			1.6	OK
E1.002	E1.002	49	47.261	-0.549	0.000	0.01			4.0	OK
E1.003	E1.003	42	47.257	-0.103	0.000	0.06			4.2	OK
E2.000	E2.000	59	48.511	-0.119	0.000	0.09			1.6	OK
E2.001	E2.001	59	48.201	-0.129	0.000	0.05			2.7	OK
E1.004	E1.004	42	47.255	0.040	0.000	0.22			6.8	SURCHARGED
E3.000	E3.001	42	47.253	0.078	0.000	0.07			2.2	SURCHARGED
E1.005	E1.005	42	47.253	0.088	0.000	0.30			9.0	SURCHARGED
E4.000	E4.001	41	47.252	0.122	0.000	0.09			1.3	SURCHARGED

Summary Wizard of 1440 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	41	47.251	0.021	0.000	0.19			10.2	SURCHARGED
E1.007	E1.007	36	47.251	0.106	0.000	0.34			10.1	SURCHARGED
E1.008	E1.008	31	47.249	0.114	0.000	0.34			10.0	SURCHARGED
E5.000	E4.001	59	47.856	-0.134	0.000	0.02			0.4	OK
E5.001	E4.002	59	47.595	-0.135	0.000	0.02			1.2	OK
E1.009	EGHOST	27	47.248	-0.923	0.000	0.00		296	0.0	OK

Summary Wizard of 2160 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	67	48.315	-0.135	0.000	0.02			0.4	OK
E1.001	E1.001	67	47.336	-0.199	0.000	0.03			1.2	OK
E1.002	E1.002	68	47.231	-0.579	0.000	0.01			2.9	OK
E1.003	E1.003	56	47.135	-0.225	0.000	0.05			3.1	OK
E2.000	E2.000	67	48.506	-0.124	0.000	0.07			1.2	OK
E2.001	E2.001	67	48.198	-0.132	0.000	0.04			2.0	OK
E1.004	E1.004	54	47.134	-0.081	0.000	0.16			5.0	OK
E3.000	E3.001	54	47.132	-0.043	0.000	0.06			1.6	OK
E1.005	E1.005	54	47.131	-0.034	0.000	0.23			6.7	OK
E4.000	E4.001	53	47.131	0.001	0.000	0.07			0.9	SURCHARGED

Summary Wizard of 2160 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	53	47.130	-0.100	0.000	0.14			7.6	OK
E1.007	E1.007	53	47.130	-0.015	0.000	0.26			7.6	OK
E1.008	E1.008	51	47.128	-0.007	0.000	0.26			7.6	OK
E5.000	E4.001	67	47.853	-0.137	0.000	0.02			0.3	OK
E5.001	E4.002	67	47.592	-0.138	0.000	0.02			0.9	OK
E1.009	EGHOST	44	47.127	-1.044	0.000	0.00		262	0.0	OK

Summary Wizard of 2880 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	72	48.312	-0.138	0.000	0.02			0.3	OK
E1.001	E1.001	72	47.334	-0.201	0.000	0.03			0.9	OK
E1.002	E1.002	72	47.227	-0.583	0.000	0.01			2.4	OK
E1.003	E1.003	72	47.097	-0.263	0.000	0.04			2.5	OK
E2.000	E2.000	72	48.503	-0.127	0.000	0.06			0.9	OK
E2.001	E2.001	72	48.197	-0.133	0.000	0.03			1.6	OK
E1.004	E1.004	74	47.043	-0.172	0.000	0.13			4.1	OK
E3.000	E3.001	71	47.028	-0.147	0.000	0.04			1.3	OK
E1.005	E1.005	71	47.028	-0.137	0.000	0.18			5.4	OK
E4.000	E4.001	71	47.028	-0.102	0.000	0.05			0.8	OK

Summary Wizard of 2880 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	71	47.026	-0.204	0.000	0.11			6.1	OK
E1.007	E1.007	71	47.026	-0.119	0.000	0.21			6.1	OK
E1.008	E1.008	71	47.024	-0.111	0.000	0.21			6.1	OK
E5.000	E4.001	72	47.851	-0.139	0.000	0.01			0.3	OK
E5.001	E4.002	72	47.590	-0.140	0.000	0.01			0.7	OK
E1.009	EGHOST	68	47.023	-1.148	0.000	0.00		247	0.0	OK

Summary Wizard of 4320 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	79	48.309	-0.141	0.000	0.01			0.2	OK
E1.001	E1.001	79	47.330	-0.205	0.000	0.02			0.7	OK
E1.002	E1.002	79	47.223	-0.587	0.000	0.00			1.7	OK
E1.003	E1.003	79	47.093	-0.267	0.000	0.03			1.8	OK
E2.000	E2.000	79	48.499	-0.131	0.000	0.04			0.7	OK
E2.001	E2.001	79	48.195	-0.135	0.000	0.02			1.1	OK
E1.004	E1.004	79	47.036	-0.179	0.000	0.09			3.0	OK
E3.000	E3.001	79	46.995	-0.180	0.000	0.03			1.0	OK
E1.005	E1.005	79	46.994	-0.171	0.000	0.13			3.9	OK
E4.000	E4.001	79	47.000	-0.130	0.000	0.04			0.5	OK

Summary Wizard of 4320 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	79	46.987	-0.243	0.000	0.08			4.5	OK
E1.007	E1.007	79	46.978	-0.167	0.000	0.15			4.5	OK
E1.008	E1.008	79	46.968	-0.167	0.000	0.15			4.5	OK
E5.000	E4.001	79	47.848	-0.142	0.000	0.01			0.2	OK
E5.001	E4.002	79	47.587	-0.143	0.000	0.01			0.5	OK
E1.009	EGHOST	80	46.860	-1.311	0.000	0.00		203	0.0	OK

Summary Wizard of 5760 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	86	48.307	-0.143	0.000	0.01			0.2	OK
E1.001	E1.001	86	47.326	-0.209	0.000	0.01			0.5	OK
E1.002	E1.002	86	47.220	-0.590	0.000	0.00			1.4	OK
E1.003	E1.003	86	47.090	-0.270	0.000	0.02			1.4	OK
E2.000	E2.000	86	48.497	-0.133	0.000	0.03			0.5	OK
E2.001	E2.001	86	48.192	-0.138	0.000	0.02			0.9	OK
E1.004	E1.004	86	47.030	-0.185	0.000	0.07			2.4	OK
E3.000	E3.001	86	46.989	-0.186	0.000	0.03			0.8	OK
E1.005	E1.005	86	46.988	-0.177	0.000	0.11			3.1	OK
E4.000	E4.001	86	46.997	-0.133	0.000	0.03			0.4	OK

Summary Wizard of 5760 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	86	46.979	-0.251	0.000	0.06			3.6	OK
E1.007	E1.007	86	46.972	-0.173	0.000	0.12			3.6	OK
E1.008	E1.008	86	46.961	-0.174	0.000	0.12			3.6	OK
E5.000	E4.001	86	47.846	-0.144	0.000	0.01			0.1	OK
E5.001	E4.002	86	47.586	-0.144	0.000	0.01			0.4	OK
E1.009	EGHOST	86	46.785	-1.386	0.000	0.00		408	0.0	OK

Summary Wizard of 7200 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	89	48.306	-0.144	0.000	0.01			0.1	OK
E1.001	E1.001	89	47.323	-0.212	0.000	0.01			0.5	OK
E1.002	E1.002	89	47.218	-0.592	0.000	0.00			1.1	OK
E1.003	E1.003	89	47.086	-0.274	0.000	0.02			1.2	OK
E2.000	E2.000	89	48.496	-0.134	0.000	0.03			0.5	OK
E2.001	E2.001	89	48.190	-0.140	0.000	0.01			0.8	OK
E1.004	E1.004	89	47.026	-0.189	0.000	0.06			2.0	OK
E3.000	E3.001	89	46.986	-0.189	0.000	0.02			0.6	OK
E1.005	E1.005	89	46.985	-0.180	0.000	0.09			2.6	OK
E4.000	E4.001	89	46.996	-0.134	0.000	0.03			0.4	OK

Summary Wizard of 7200 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	89	46.975	-0.255	0.000	0.05			3.0	OK
E1.007	E1.007	89	46.968	-0.177	0.000	0.10			3.0	OK
E1.008	E1.008	89	46.957	-0.178	0.000	0.10			3.0	OK
E5.000	E4.001	89	47.845	-0.145	0.000	0.01			0.1	OK
E5.001	E4.002	89	47.585	-0.145	0.000	0.01			0.3	OK
E1.009	EGHOST	89	46.773	-1.398	0.000	0.00		546	0.0	OK

Summary Wizard of 8640 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	93	48.305	-0.145	0.000	0.01			0.1	OK
E1.001	E1.001	93	47.321	-0.214	0.000	0.01			0.4	OK
E1.002	E1.002	93	47.217	-0.593	0.000	0.00			1.0	OK
E1.003	E1.003	93	47.082	-0.278	0.000	0.02			1.0	OK
E2.000	E2.000	93	48.495	-0.135	0.000	0.02			0.4	OK
E2.001	E2.001	93	48.189	-0.141	0.000	0.01			0.7	OK
E1.004	E1.004	93	47.024	-0.191	0.000	0.05			1.7	OK
E3.000	E3.001	93	46.982	-0.193	0.000	0.02			0.6	OK
E1.005	E1.005	93	46.981	-0.184	0.000	0.08			2.3	OK
E4.000	E4.001	93	46.995	-0.135	0.000	0.02			0.3	OK

Summary Wizard of 8640 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	93	46.972	-0.258	0.000	0.05			2.6	OK
E1.007	E1.007	93	46.965	-0.180	0.000	0.09			2.6	OK
E1.008	E1.008	93	46.954	-0.181	0.000	0.09			2.6	OK
E5.000	E4.001	93	47.844	-0.146	0.000	0.01			0.1	OK
E5.001	E4.002	93	47.584	-0.146	0.000	0.01			0.3	OK
E1.009	EGHOST	93	46.768	-1.403	0.000	0.00		631	0.0	OK

Summary Wizard of 10080 minute 100 year Summer I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	97	48.305	-0.145	0.000	0.01			0.1	OK
E1.001	E1.001	97	47.320	-0.215	0.000	0.01			0.4	OK
E1.002	E1.002	97	47.216	-0.594	0.000	0.00			0.9	OK
E1.003	E1.003	97	47.080	-0.280	0.000	0.01			0.9	OK
E2.000	E2.000	97	48.495	-0.135	0.000	0.02			0.4	OK
E2.001	E2.001	97	48.188	-0.142	0.000	0.01			0.6	OK
E1.004	E1.004	97	47.022	-0.193	0.000	0.05			1.5	OK
E3.000	E3.001	97	46.979	-0.196	0.000	0.02			0.5	OK
E1.005	E1.005	97	46.978	-0.187	0.000	0.07			2.0	OK
E4.000	E4.001	97	46.994	-0.136	0.000	0.02			0.3	OK

Summary Wizard of 10080 minute 100 year Summer I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	97	46.969	-0.261	0.000	0.04			2.3	OK
E1.007	E1.007	97	46.961	-0.184	0.000	0.08			2.3	OK
E1.008	E1.008	97	46.951	-0.184	0.000	0.08			2.3	OK
E5.000	E4.001	97	47.844	-0.146	0.000	0.01			0.1	OK
E5.001	E4.002	97	47.584	-0.146	0.000	0.01			0.3	OK
E1.009	EGHOST	97	46.763	-1.408	0.000	0.00		829	0.0	OK

Summary Wizard of 15 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	11	48.345	-0.105	0.000	0.19			3.1	OK
E1.001	E1.001	19	47.523	-0.012	0.000	0.26			9.9	OK
E1.002	E1.002	20	47.511	-0.299	0.000	0.06			21.7	OK
E1.003	E1.003	20	47.506	0.146	0.000	0.28			18.4	SURCHARGED
E2.000	E2.000	11	48.566	-0.064	0.000	0.60			10.2	OK
E2.001	E2.001	11	48.239	-0.091	0.000	0.32			17.1	OK
E1.004	E1.004	21	47.494	0.279	0.000	0.85			26.6	SURCHARGED
E3.000	E3.001	24	47.423	0.248	0.000	0.44			13.1	SURCHARGED
E1.005	E1.005	25	47.420	0.255	0.000	1.16			34.5	SURCHARGED
E4.000	E4.001	28	47.356	0.226	0.000	0.56			7.9	SURCHARGED

Summary Wizard of 15 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	28	47.346	0.116	0.000	0.72			39.4	SURCHARGED
E1.007	E1.007	33	47.270	0.125	0.000	1.32			39.1	SURCHARGED
E1.008	E1.008	44	47.192	0.057	0.000	1.31			39.3	SURCHARGED
E5.000	E4.001	11	47.881	-0.109	0.000	0.16			2.7	OK
E5.001	E4.002	11	47.619	-0.111	0.000	0.15			7.6	OK
E1.009	EGHOST	72	46.971	-1.200	0.000	0.00		67	0.0	OK

Summary Wizard of 30 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	16	48.338	-0.112	0.000	0.15			2.4	OK
E1.001	E1.001	24	47.474	-0.061	0.000	0.21			7.9	OK
E1.002	E1.002	24	47.464	-0.346	0.000	0.05			18.0	OK
E1.003	E1.003	25	47.460	0.100	0.000	0.22			14.8	SURCHARGED
E2.000	E2.000	16	48.552	-0.078	0.000	0.47			8.0	OK
E2.001	E2.001	16	48.231	-0.099	0.000	0.25			13.4	OK
E1.004	E1.004	25	47.451	0.236	0.000	0.71			22.3	SURCHARGED
E3.000	E3.001	29	47.394	0.219	0.000	0.34			10.0	SURCHARGED
E1.005	E1.005	29	47.391	0.226	0.000	0.99			29.3	SURCHARGED
E4.000	E4.001	32	47.328	0.198	0.000	0.44			6.2	SURCHARGED

Summary Wizard of 30 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	32	47.318	0.088	0.000	0.61			33.4	SURCHARGED
E1.007	E1.007	40	47.242	0.097	0.000	1.13			33.4	SURCHARGED
E1.008	E1.008	47	47.169	0.034	0.000	1.12			33.4	SURCHARGED
E5.000	E4.001	16	47.875	-0.115	0.000	0.13			2.1	OK
E5.001	E4.002	16	47.614	-0.116	0.000	0.11			5.9	OK
E1.009	EGHOST	67	47.032	-1.139	0.000	0.00		85	0.0	OK

Summary Wizard of 60 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	23	48.332	-0.118	0.000	0.10			1.7	OK
E1.001	E1.001	35	47.375	-0.160	0.000	0.15			5.5	OK
E1.002	E1.002	35	47.361	-0.449	0.000	0.03			13.4	OK
E1.003	E1.003	35	47.359	-0.001	0.000	0.18			11.8	OK
E2.000	E2.000	23	48.538	-0.092	0.000	0.32			5.5	OK
E2.001	E2.001	23	48.222	-0.108	0.000	0.17			9.2	OK
E1.004	E1.004	36	47.338	0.123	0.000	0.59			18.7	SURCHARGED
E3.000	E3.001	36	47.324	0.149	0.000	0.25			7.4	SURCHARGED
E1.005	E1.005	36	47.322	0.157	0.000	0.86			25.5	SURCHARGED
E4.000	E4.001	39	47.277	0.147	0.000	0.32			4.5	SURCHARGED

Summary Wizard of 60 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	40	47.270	0.040	0.000	0.50			27.6	SURCHARGED
E1.007	E1.007	50	47.185	0.040	0.000	0.90			26.7	SURCHARGED
E1.008	E1.008	57	47.085	-0.050	0.000	0.90			26.9	OK
E5.000	E4.001	23	47.870	-0.120	0.000	0.09			1.5	OK
E5.001	E4.002	23	47.608	-0.122	0.000	0.08			4.0	OK
E1.009	EGHOST	52	47.084	-1.087	0.000	0.00		101	0.0	OK

Summary Wizard of 120 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	33	48.325	-0.125	0.000	0.07			1.1	OK
E1.001	E1.001	41	47.357	-0.178	0.000	0.10			3.6	OK
E1.002	E1.002	45	47.272	-0.538	0.000	0.02			9.0	OK
E1.003	E1.003	55	47.137	-0.223	0.000	0.14			9.5	OK
E2.000	E2.000	33	48.527	-0.103	0.000	0.21			3.6	OK
E2.001	E2.001	33	48.213	-0.117	0.000	0.11			6.0	OK
E1.004	E1.004	57	47.124	-0.091	0.000	0.49			15.5	OK
E3.000	E3.001	57	47.121	-0.054	0.000	0.17			5.0	OK
E1.005	E1.005	57	47.121	-0.044	0.000	0.69			20.4	OK
E4.000	E4.001	56	47.121	-0.009	0.000	0.21			2.9	OK

Summary Wizard of 120 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	56	47.120	-0.110	0.000	0.42			23.3	OK
E1.007	E1.007	56	47.119	-0.026	0.000	0.79			23.3	OK
E1.008	E1.008	54	47.118	-0.017	0.000	0.78			23.2	OK
E5.000	E4.001	33	47.863	-0.127	0.000	0.06			1.0	OK
E5.001	E4.002	33	47.602	-0.128	0.000	0.05			2.6	OK
E1.009	EGHOST	47	47.117	-1.054	0.000	0.00		115	0.0	OK

Summary Wizard of 180 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	40	48.322	-0.128	0.000	0.05			0.8	OK
E1.001	E1.001	45	47.351	-0.184	0.000	0.08			2.8	OK
E1.002	E1.002	48	47.261	-0.549	0.000	0.02			7.0	OK
E1.003	E1.003	58	47.133	-0.227	0.000	0.11			7.4	OK
E2.000	E2.000	40	48.521	-0.109	0.000	0.16			2.8	OK
E2.001	E2.001	40	48.210	-0.120	0.000	0.09			4.7	OK
E1.004	E1.004	56	47.131	-0.084	0.000	0.38			12.0	OK
E3.000	E3.001	56	47.129	-0.046	0.000	0.13			3.9	OK
E1.005	E1.005	56	47.128	-0.037	0.000	0.54			15.9	OK
E4.000	E4.001	55	47.128	-0.002	0.000	0.16			2.2	OK

Summary Wizard of 180 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	55	47.127	-0.103	0.000	0.33			18.2	OK
E1.007	E1.007	55	47.127	-0.018	0.000	0.61			18.2	OK
E1.008	E1.008	53	47.125	-0.010	0.000	0.61			18.2	OK
E5.000	E4.001	40	47.860	-0.130	0.000	0.04			0.7	OK
E5.001	E4.002	40	47.599	-0.131	0.000	0.04			2.1	OK
E1.009	EGHOST	46	47.124	-1.047	0.000	0.00		140	0.0	OK

Summary Wizard of 240 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	46	48.320	-0.130	0.000	0.04			0.7	OK
E1.001	E1.001	50	47.346	-0.189	0.000	0.06			2.3	OK
E1.002	E1.002	54	47.253	-0.557	0.000	0.02			5.8	OK
E1.003	E1.003	57	47.133	-0.227	0.000	0.09			6.2	OK
E2.000	E2.000	46	48.517	-0.113	0.000	0.14			2.3	OK
E2.001	E2.001	46	48.207	-0.123	0.000	0.07			3.9	OK
E1.004	E1.004	55	47.132	-0.083	0.000	0.32			10.0	OK
E3.000	E3.001	55	47.129	-0.046	0.000	0.11			3.3	OK
E1.005	E1.005	55	47.129	-0.036	0.000	0.45			13.3	OK
E4.000	E4.001	54	47.129	-0.001	0.000	0.13			1.9	OK

Summary Wizard of 240 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	54	47.128	-0.102	0.000	0.28			15.2	OK
E1.007	E1.007	54	47.127	-0.018	0.000	0.51			15.2	OK
E1.008	E1.008	52	47.126	-0.009	0.000	0.51			15.2	OK
E5.000	E4.001	46	47.858	-0.132	0.000	0.04			0.6	OK
E5.001	E4.002	46	47.598	-0.132	0.000	0.03			1.7	OK
E1.009	EGHOST	45	47.125	-1.046	0.000	0.00		150	0.0	OK

Summary Wizard of 360 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	54	48.318	-0.132	0.000	0.03			0.5	OK
E1.001	E1.001	55	47.342	-0.193	0.000	0.05			1.8	OK
E1.002	E1.002	58	47.243	-0.567	0.000	0.01			4.5	OK
E1.003	E1.003	61	47.123	-0.237	0.000	0.07			4.8	OK
E2.000	E2.000	54	48.512	-0.118	0.000	0.11			1.8	OK
E2.001	E2.001	54	48.203	-0.127	0.000	0.06			3.0	OK
E1.004	E1.004	58	47.120	-0.095	0.000	0.25			7.8	OK
E3.000	E3.001	58	47.118	-0.057	0.000	0.09			2.5	OK
E1.005	E1.005	58	47.118	-0.047	0.000	0.35			10.3	OK
E4.000	E4.001	58	47.118	-0.012	0.000	0.10			1.4	OK

Summary Wizard of 360 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	57	47.117	-0.113	0.000	0.21			11.7	OK
E1.007	E1.007	57	47.116	-0.029	0.000	0.40			11.7	OK
E1.008	E1.008	55	47.114	-0.021	0.000	0.39			11.7	OK
E5.000	E4.001	54	47.857	-0.133	0.000	0.03			0.5	OK
E5.001	E4.002	54	47.596	-0.134	0.000	0.03			1.3	OK
E1.009	EGHOST	49	47.113	-1.058	0.000	0.00		164	0.0	OK

Summary Wizard of 480 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	61	48.316	-0.134	0.000	0.03			0.5	OK
E1.001	E1.001	61	47.339	-0.196	0.000	0.04			1.5	OK
E1.002	E1.002	63	47.237	-0.573	0.000	0.01			3.8	OK
E1.003	E1.003	65	47.107	-0.253	0.000	0.06			4.0	OK
E2.000	E2.000	61	48.510	-0.120	0.000	0.09			1.5	OK
E2.001	E2.001	61	48.201	-0.129	0.000	0.05			2.5	OK
E1.004	E1.004	60	47.101	-0.114	0.000	0.21			6.5	OK
E3.000	E3.001	59	47.099	-0.076	0.000	0.07			2.1	OK
E1.005	E1.005	59	47.099	-0.066	0.000	0.29			8.6	OK
E4.000	E4.001	59	47.098	-0.032	0.000	0.09			1.2	OK

Summary Wizard of 480 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	59	47.098	-0.132	0.000	0.18			9.8	OK
E1.007	E1.007	59	47.097	-0.048	0.000	0.33			9.8	OK
E1.008	E1.008	56	47.096	-0.039	0.000	0.33			9.8	OK
E5.000	E4.001	61	47.856	-0.134	0.000	0.02			0.4	OK
E5.001	E4.002	61	47.595	-0.135	0.000	0.02			1.1	OK
E1.009	EGHOST	50	47.094	-1.077	0.000	0.00		176	0.0	OK

Summary Wizard of 600 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	64	48.316	-0.134	0.000	0.02			0.4	OK
E1.001	E1.001	64	47.337	-0.198	0.000	0.03			1.3	OK
E1.002	E1.002	65	47.234	-0.576	0.000	0.01			3.3	OK
E1.003	E1.003	67	47.104	-0.256	0.000	0.05			3.4	OK
E2.000	E2.000	64	48.507	-0.123	0.000	0.08			1.3	OK
E2.001	E2.001	64	48.199	-0.131	0.000	0.04			2.2	OK
E1.004	E1.004	63	47.078	-0.137	0.000	0.18			5.6	OK
E3.000	E3.001	63	47.076	-0.099	0.000	0.06			1.8	OK
E1.005	E1.005	63	47.076	-0.089	0.000	0.25			7.4	OK
E4.000	E4.001	63	47.075	-0.055	0.000	0.07			1.0	OK

Summary Wizard of 600 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	63	47.075	-0.155	0.000	0.15			8.5	OK
E1.007	E1.007	63	47.074	-0.071	0.000	0.29			8.5	OK
E1.008	E1.008	63	47.072	-0.063	0.000	0.28			8.5	OK
E5.000	E4.001	64	47.855	-0.135	0.000	0.02			0.3	OK
E5.001	E4.002	64	47.593	-0.137	0.000	0.02			1.0	OK
E1.009	EGHOST	56	47.071	-1.100	0.000	0.00		183	0.0	OK

Summary Wizard of 720 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	68	48.315	-0.135	0.000	0.02			0.3	OK
E1.001	E1.001	68	47.336	-0.199	0.000	0.03			1.2	OK
E1.002	E1.002	69	47.231	-0.579	0.000	0.01			2.9	OK
E1.003	E1.003	69	47.101	-0.259	0.000	0.05			3.1	OK
E2.000	E2.000	68	48.505	-0.125	0.000	0.07			1.2	OK
E2.001	E2.001	68	48.198	-0.132	0.000	0.04			1.9	OK
E1.004	E1.004	69	47.055	-0.160	0.000	0.16			5.0	OK
E3.000	E3.001	68	47.050	-0.125	0.000	0.05			1.6	OK
E1.005	E1.005	68	47.050	-0.115	0.000	0.22			6.6	OK
E4.000	E4.001	68	47.050	-0.080	0.000	0.07			0.9	OK

Summary Wizard of 720 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	68	47.049	-0.181	0.000	0.14			7.5	OK
E1.007	E1.007	68	47.048	-0.097	0.000	0.25			7.5	OK
E1.008	E1.008	68	47.047	-0.088	0.000	0.25			7.5	OK
E5.000	E4.001	68	47.853	-0.137	0.000	0.02			0.3	OK
E5.001	E4.002	68	47.592	-0.138	0.000	0.02			0.9	OK
E1.009	EGHOST	63	47.046	-1.125	0.000	0.00		176	0.0	OK

Summary Wizard of 960 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	71	48.312	-0.138	0.000	0.02			0.3	OK
E1.001	E1.001	71	47.334	-0.201	0.000	0.03			1.0	OK
E1.002	E1.002	71	47.227	-0.583	0.000	0.01			2.4	OK
E1.003	E1.003	71	47.097	-0.263	0.000	0.04			2.5	OK
E2.000	E2.000	71	48.503	-0.127	0.000	0.06			1.0	OK
E2.001	E2.001	71	48.197	-0.133	0.000	0.03			1.6	OK
E1.004	E1.004	73	47.044	-0.171	0.000	0.13			4.1	OK
E3.000	E3.001	74	47.005	-0.170	0.000	0.05			1.3	OK
E1.005	E1.005	74	47.005	-0.160	0.000	0.18			5.4	OK
E4.000	E4.001	74	47.007	-0.123	0.000	0.05			0.8	OK

Summary Wizard of 960 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	74	46.997	-0.233	0.000	0.11			6.2	OK
E1.007	E1.007	74	46.991	-0.154	0.000	0.21			6.2	OK
E1.008	E1.008	73	46.989	-0.146	0.000	0.21			6.2	OK
E5.000	E4.001	71	47.851	-0.139	0.000	0.01			0.3	OK
E5.001	E4.002	71	47.590	-0.140	0.000	0.01			0.7	OK
E1.009	EGHOST	71	46.988	-1.183	0.000	0.00		166	0.0	OK

Summary Wizard of 1440 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	78	48.309	-0.141	0.000	0.01			0.2	OK
E1.001	E1.001	78	47.331	-0.204	0.000	0.02			0.7	OK
E1.002	E1.002	78	47.223	-0.587	0.000	0.00			1.8	OK
E1.003	E1.003	78	47.093	-0.267	0.000	0.03			1.9	OK
E2.000	E2.000	78	48.500	-0.130	0.000	0.04			0.7	OK
E2.001	E2.001	78	48.195	-0.135	0.000	0.02			1.2	OK
E1.004	E1.004	78	47.037	-0.178	0.000	0.10			3.1	OK
E3.000	E3.001	78	46.996	-0.179	0.000	0.03			1.0	OK
E1.005	E1.005	78	46.996	-0.169	0.000	0.14			4.1	OK
E4.000	E4.001	78	47.001	-0.129	0.000	0.04			0.6	OK

Summary Wizard of 1440 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	78	46.989	-0.241	0.000	0.09			4.7	OK
E1.007	E1.007	78	46.980	-0.165	0.000	0.16			4.7	OK
E1.008	E1.008	78	46.969	-0.166	0.000	0.16			4.7	OK
E5.000	E4.001	78	47.848	-0.142	0.000	0.01			0.2	OK
E5.001	E4.002	78	47.587	-0.143	0.000	0.01			0.5	OK
E1.009	EGHOST	78	46.883	-1.288	0.000	0.00		158	0.0	OK

Summary Wizard of 2160 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	85	48.307	-0.143	0.000	0.01			0.2	OK
E1.001	E1.001	85	47.326	-0.209	0.000	0.01			0.6	OK
E1.002	E1.002	85	47.220	-0.590	0.000	0.00			1.4	OK
E1.003	E1.003	85	47.090	-0.270	0.000	0.02			1.5	OK
E2.000	E2.000	85	48.498	-0.132	0.000	0.03			0.6	OK
E2.001	E2.001	85	48.192	-0.138	0.000	0.02			0.9	OK
E1.004	E1.004	85	47.031	-0.184	0.000	0.08			2.4	OK
E3.000	E3.001	85	46.989	-0.186	0.000	0.03			0.8	OK
E1.005	E1.005	85	46.989	-0.176	0.000	0.11			3.2	OK
E4.000	E4.001	85	46.997	-0.133	0.000	0.03			0.4	OK

Summary Wizard of 2160 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	85	46.980	-0.250	0.000	0.07			3.6	OK
E1.007	E1.007	85	46.972	-0.173	0.000	0.12			3.6	OK
E1.008	E1.008	85	46.962	-0.173	0.000	0.12			3.6	OK
E5.000	E4.001	85	47.846	-0.144	0.000	0.01			0.1	OK
E5.001	E4.002	85	47.586	-0.144	0.000	0.01			0.4	OK
E1.009	EGHOST	85	46.785	-1.386	0.000	0.00		289	0.0	OK

Summary Wizard of 2880 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	91	48.306	-0.144	0.000	0.01			0.1	OK
E1.001	E1.001	91	47.323	-0.212	0.000	0.01			0.5	OK
E1.002	E1.002	91	47.218	-0.592	0.000	0.00			1.1	OK
E1.003	E1.003	91	47.086	-0.274	0.000	0.02			1.2	OK
E2.000	E2.000	91	48.496	-0.134	0.000	0.03			0.5	OK
E2.001	E2.001	91	48.190	-0.140	0.000	0.01			0.8	OK
E1.004	E1.004	91	47.026	-0.189	0.000	0.06			2.0	OK
E3.000	E3.001	91	46.985	-0.190	0.000	0.02			0.6	OK
E1.005	E1.005	91	46.985	-0.180	0.000	0.09			2.6	OK
E4.000	E4.001	91	46.996	-0.134	0.000	0.03			0.4	OK

Summary Wizard of 2880 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	91	46.975	-0.255	0.000	0.05			3.0	OK
E1.007	E1.007	91	46.967	-0.178	0.000	0.10			3.0	OK
E1.008	E1.008	91	46.957	-0.178	0.000	0.10			3.0	OK
E5.000	E4.001	91	47.845	-0.145	0.000	0.01			0.1	OK
E5.001	E4.002	91	47.585	-0.145	0.000	0.01			0.3	OK
E1.009	EGHOST	91	46.773	-1.398	0.000	0.00		454	0.0	OK

Summary Wizard of 4320 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	98	48.304	-0.146	0.000	0.01			0.1	OK
E1.001	E1.001	98	47.320	-0.215	0.000	0.01			0.3	OK
E1.002	E1.002	98	47.216	-0.594	0.000	0.00			0.9	OK
E1.003	E1.003	98	47.079	-0.281	0.000	0.01			0.9	OK
E2.000	E2.000	98	48.494	-0.136	0.000	0.02			0.3	OK
E2.001	E2.001	98	48.188	-0.142	0.000	0.01			0.6	OK
E1.004	E1.004	98	47.021	-0.194	0.000	0.05			1.5	OK
E3.000	E3.001	98	46.978	-0.197	0.000	0.02			0.5	OK
E1.005	E1.005	98	46.977	-0.188	0.000	0.07			1.9	OK
E4.000	E4.001	98	46.994	-0.136	0.000	0.02			0.3	OK

Summary Wizard of 4320 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	98	46.969	-0.261	0.000	0.04			2.2	OK
E1.007	E1.007	98	46.960	-0.185	0.000	0.07			2.2	OK
E1.008	E1.008	98	46.950	-0.185	0.000	0.07			2.2	OK
E5.000	E4.001	98	47.844	-0.146	0.000	0.01			0.1	OK
E5.001	E4.002	98	47.583	-0.147	0.000	0.00			0.2	OK
E1.009	EGHOST	98	46.762	-1.409	0.000	0.00		669	0.0	OK

Summary Wizard of 5760 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	107	48.304	-0.146	0.000	0.01			0.1	OK
E1.001	E1.001	107	47.318	-0.217	0.000	0.01			0.3	OK
E1.002	E1.002	107	47.215	-0.595	0.000	0.00			0.7	OK
E1.003	E1.003	107	47.076	-0.284	0.000	0.01			0.7	OK
E2.000	E2.000	107	48.492	-0.138	0.000	0.02			0.3	OK
E2.001	E2.001	107	48.186	-0.144	0.000	0.01			0.5	OK
E1.004	E1.004	107	47.018	-0.197	0.000	0.04			1.2	OK
E3.000	E3.001	107	46.975	-0.200	0.000	0.01			0.4	OK
E1.005	E1.005	107	46.973	-0.192	0.000	0.05			1.6	OK
E4.000	E4.001	107	46.991	-0.139	0.000	0.02			0.2	OK

Summary Wizard of 5760 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	107	46.965	-0.265	0.000	0.03			1.8	OK
E1.007	E1.007	107	46.956	-0.189	0.000	0.06			1.8	OK
E1.008	E1.008	107	46.946	-0.189	0.000	0.06			1.8	OK
E5.000	E4.001	107	47.843	-0.147	0.000	0.00			0.1	OK
E5.001	E4.002	107	47.583	-0.147	0.000	0.00			0.2	OK
E1.009	EGHOST	107	46.756	-1.415	0.000	0.00		879	0.0	OK

Summary Wizard of 7200 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	111	48.303	-0.147	0.000	0.00			0.1	OK
E1.001	E1.001	111	47.317	-0.218	0.000	0.01			0.2	OK
E1.002	E1.002	111	47.214	-0.596	0.000	0.00			0.6	OK
E1.003	E1.003	111	47.073	-0.287	0.000	0.01			0.6	OK
E2.000	E2.000	111	48.490	-0.140	0.000	0.01			0.2	OK
E2.001	E2.001	111	48.185	-0.145	0.000	0.01			0.4	OK
E1.004	E1.004	111	47.016	-0.199	0.000	0.03			1.0	OK
E3.000	E3.001	111	46.972	-0.203	0.000	0.01			0.3	OK
E1.005	E1.005	111	46.971	-0.194	0.000	0.05			1.3	OK
E4.000	E4.001	111	46.990	-0.140	0.000	0.01			0.2	OK

Summary Wizard of 7200 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	111	46.963	-0.267	0.000	0.03			1.5	OK
E1.007	E1.007	111	46.953	-0.192	0.000	0.05			1.5	OK
E1.008	E1.008	111	46.943	-0.192	0.000	0.05			1.5	OK
E5.000	E4.001	111	47.843	-0.147	0.000	0.00			0.1	OK
E5.001	E4.002	111	47.582	-0.148	0.000	0.00			0.2	OK
E1.009	EGHOST	111	46.752	-1.419	0.000	0.00		1094	0.0	OK

Summary Wizard of 8640 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	113	48.303	-0.147	0.000	0.00			0.1	OK
E1.001	E1.001	113	47.316	-0.219	0.000	0.01			0.2	OK
E1.002	E1.002	113	47.214	-0.596	0.000	0.00			0.5	OK
E1.003	E1.003	113	47.072	-0.288	0.000	0.01			0.5	OK
E2.000	E2.000	113	48.489	-0.141	0.000	0.01			0.2	OK
E2.001	E2.001	113	48.185	-0.145	0.000	0.01			0.3	OK
E1.004	E1.004	113	47.015	-0.200	0.000	0.03			0.9	OK
E3.000	E3.001	113	46.970	-0.205	0.000	0.01			0.3	OK
E1.005	E1.005	113	46.969	-0.196	0.000	0.04			1.2	OK
E4.000	E4.001	113	46.988	-0.142	0.000	0.01			0.2	OK

Summary Wizard of 8640 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	113	46.962	-0.268	0.000	0.02			1.4	OK
E1.007	E1.007	113	46.951	-0.194	0.000	0.05			1.4	OK
E1.008	E1.008	113	46.941	-0.194	0.000	0.05			1.4	OK
E5.000	E4.001	113	47.842	-0.148	0.000	0.00			0.1	OK
E5.001	E4.002	113	47.582	-0.148	0.000	0.00			0.2	OK
E1.009	EGHOST	113	46.750	-1.421	0.000	0.00		1342	0.0	OK

Summary Wizard of 10080 minute 10 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	114	48.302	-0.148	0.000	0.00			0.1	OK
E1.001	E1.001	114	47.315	-0.220	0.000	0.00			0.2	OK
E1.002	E1.002	114	47.213	-0.597	0.000	0.00			0.5	OK
E1.003	E1.003	114	47.071	-0.289	0.000	0.01			0.5	OK
E2.000	E2.000	114	48.488	-0.142	0.000	0.01			0.2	OK
E2.001	E2.001	114	48.184	-0.146	0.000	0.01			0.3	OK
E1.004	E1.004	114	47.014	-0.201	0.000	0.03			0.8	OK
E3.000	E3.001	114	46.969	-0.206	0.000	0.01			0.3	OK
E1.005	E1.005	114	46.967	-0.198	0.000	0.04			1.1	OK
E4.000	E4.001	114	46.988	-0.142	0.000	0.01			0.1	OK

Summary Wizard of 10080 minute 10 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	114	46.960	-0.270	0.000	0.02			1.2	OK
E1.007	E1.007	114	46.949	-0.196	0.000	0.04			1.2	OK
E1.008	E1.008	114	46.939	-0.196	0.000	0.04			1.2	OK
E5.000	E4.001	114	47.842	-0.148	0.000	0.00			0.0	OK
E5.001	E4.002	114	47.582	-0.148	0.000	0.00			0.1	OK
E1.009	EGHOST	114	46.747	-1.424	0.000	0.00		1722	0.0	OK

Summary Wizard of 15 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	5	48.354	-0.096	0.000	0.28			4.6	OK
E1.001	E1.001	7	47.844	0.309	0.000	0.31			11.6	SURCHARGED
E1.002	E1.002	7	47.823	0.013	0.000	0.07			27.7	SURCHARGED
E1.003	E1.003	7	47.818	0.458	0.000	0.36			24.2	SURCHARGED
E2.000	E2.000	5	48.593	-0.037	0.000	0.89			15.1	OK
E2.001	E2.001	5	48.254	-0.076	0.000	0.47			25.2	OK
E1.004	E1.004	7	47.745	0.530	0.000	1.24			39.1	SURCHARGED
E3.000	E3.001	7	47.673	0.498	0.000	0.64			19.0	SURCHARGED
E1.005	E1.005	7	47.669	0.504	0.000	1.74			51.6	SURCHARGED
E4.000	E4.001	10	47.551	0.421	0.000	0.83			11.6	SURCHARGED

Summary Wizard of 15 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	11	47.536	0.306	0.000	1.07			58.8	SURCHARGED
E1.007	E1.007	13	47.461	0.316	0.000	1.97			58.3	SURCHARGED
E1.008	E1.008	25	47.287	0.152	0.000	1.96			58.5	SURCHARGED
E5.000	E4.001	5	47.890	-0.100	0.000	0.24			4.0	OK
E5.001	E4.002	5	47.628	-0.102	0.000	0.22			11.2	OK
E1.009	EGHOST	51	47.086	-1.085	0.000	0.00		101	0.0	OK

Summary Wizard of 30 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	9	48.346	-0.104	0.000	0.21			3.5	OK
E1.001	E1.001	9	47.697	0.162	0.000	0.25			9.3	SURCHARGED
E1.002	E1.002	9	47.682	-0.128	0.000	0.06			23.1	OK
E1.003	E1.003	9	47.662	0.302	0.000	0.32			21.3	SURCHARGED
E2.000	E2.000	9	48.571	-0.059	0.000	0.68			11.5	OK
E2.001	E2.001	9	48.242	-0.088	0.000	0.36			19.2	OK
E1.004	E1.004	10	47.641	0.426	0.000	1.07			33.8	SURCHARGED
E3.000	E3.001	12	47.569	0.394	0.000	0.49			14.5	SURCHARGED
E1.005	E1.005	12	47.564	0.399	0.000	1.53			45.3	SURCHARGED
E4.000	E4.001	16	47.475	0.345	0.000	0.64			8.9	SURCHARGED

Summary Wizard of 30 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	17	47.461	0.231	0.000	0.95			51.9	SURCHARGED
E1.007	E1.007	22	47.386	0.241	0.000	1.74			51.6	SURCHARGED
E1.008	E1.008	30	47.249	0.114	0.000	1.73			51.8	SURCHARGED
E5.000	E4.001	9	47.883	-0.107	0.000	0.18			3.1	OK
E5.001	E4.002	9	47.620	-0.110	0.000	0.16			8.5	OK
E1.009	EGHOST	41	47.163	-1.008	0.000	0.00		124	0.0	OK

Summary Wizard of 60 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	17	48.337	-0.113	0.000	0.14			2.3	OK
E1.001	E1.001	18	47.535	0.000	0.000	0.19			7.1	OK
E1.002	E1.002	18	47.522	-0.288	0.000	0.04			16.3	OK
E1.003	E1.003	19	47.515	0.155	0.000	0.26			17.4	SURCHARGED
E2.000	E2.000	17	48.551	-0.079	0.000	0.45			7.7	OK
E2.001	E2.001	17	48.230	-0.100	0.000	0.24			12.8	OK
E1.004	E1.004	19	47.504	0.289	0.000	0.86			27.1	SURCHARGED
E3.000	E3.001	23	47.432	0.257	0.000	0.34			10.0	SURCHARGED
E1.005	E1.005	23	47.429	0.264	0.000	1.20			35.7	SURCHARGED
E4.000	E4.001	27	47.368	0.238	0.000	0.44			6.1	SURCHARGED

Summary Wizard of 60 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	27	47.357	0.127	0.000	0.74			40.8	SURCHARGED
E1.007	E1.007	32	47.282	0.137	0.000	1.38			40.8	SURCHARGED
E1.008	E1.008	35	47.239	0.104	0.000	1.36			40.8	SURCHARGED
E5.000	E4.001	17	47.875	-0.115	0.000	0.12			2.1	OK
E5.001	E4.002	17	47.613	-0.117	0.000	0.11			5.7	OK
E1.009	EGHOST	30	47.235	-0.936	0.000	0.00		145	0.0	OK

Summary Wizard of 120 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	26	48.330	-0.120	0.000	0.09			1.5	OK
E1.001	E1.001	34	47.382	-0.153	0.000	0.13			4.9	OK
E1.002	E1.002	34	47.374	-0.436	0.000	0.03			12.1	OK
E1.003	E1.003	34	47.373	0.013	0.000	0.17			11.4	SURCHARGED
E2.000	E2.000	26	48.535	-0.095	0.000	0.29			4.9	OK
E2.001	E2.001	26	48.219	-0.111	0.000	0.15			8.2	OK
E1.004	E1.004	34	47.366	0.151	0.000	0.58			18.3	SURCHARGED
E3.000	E3.001	33	47.353	0.178	0.000	0.23			6.9	SURCHARGED
E1.005	E1.005	33	47.351	0.186	0.000	0.85			25.1	SURCHARGED
E4.000	E4.001	34	47.308	0.178	0.000	0.29			4.1	SURCHARGED

Summary Wizard of 120 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	34	47.303	0.073	0.000	0.50			27.7	SURCHARGED
E1.007	E1.007	28	47.299	0.154	0.000	0.91			26.8	SURCHARGED
E1.008	E1.008	27	47.285	0.150	0.000	0.90			26.8	SURCHARGED
E5.000	E4.001	26	47.868	-0.122	0.000	0.08			1.3	OK
E5.001	E4.002	26	47.606	-0.124	0.000	0.07			3.6	OK
E1.009	EGHOST	24	47.283	-0.888	0.000	0.00		160	0.0	OK

Summary Wizard of 180 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	32	48.326	-0.124	0.000	0.07			1.1	OK
E1.001	E1.001	40	47.358	-0.177	0.000	0.10			3.8	OK
E1.002	E1.002	39	47.303	-0.507	0.000	0.02			9.4	OK
E1.003	E1.003	39	47.302	-0.058	0.000	0.15			9.9	OK
E2.000	E2.000	32	48.528	-0.102	0.000	0.22			3.8	OK
E2.001	E2.001	32	48.214	-0.116	0.000	0.12			6.3	OK
E1.004	E1.004	39	47.301	0.086	0.000	0.51			16.2	SURCHARGED
E3.000	E3.001	37	47.299	0.124	0.000	0.18			5.2	SURCHARGED
E1.005	E1.005	37	47.299	0.134	0.000	0.72			21.4	SURCHARGED
E4.000	E4.001	36	47.297	0.167	0.000	0.21			3.0	SURCHARGED

Summary Wizard of 180 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	36	47.296	0.066	0.000	0.44			24.3	SURCHARGED
E1.007	E1.007	30	47.296	0.151	0.000	0.82			24.3	SURCHARGED
E1.008	E1.008	24	47.294	0.159	0.000	0.81			24.3	SURCHARGED
E5.000	E4.001	32	47.863	-0.127	0.000	0.06			1.0	OK
E5.001	E4.002	32	47.602	-0.128	0.000	0.05			2.8	OK
E1.009	EGHOST	22	47.293	-0.878	0.000	0.00		168	0.0	OK

Summary Wizard of 240 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	38	48.323	-0.127	0.000	0.06			0.9	OK
E1.001	E1.001	44	47.353	-0.182	0.000	0.08			3.1	OK
E1.002	E1.002	38	47.303	-0.507	0.000	0.02			7.8	OK
E1.003	E1.003	38	47.303	-0.057	0.000	0.12			8.2	OK
E2.000	E2.000	38	48.523	-0.107	0.000	0.18			3.1	OK
E2.001	E2.001	38	48.211	-0.119	0.000	0.10			5.2	OK
E1.004	E1.004	38	47.301	0.086	0.000	0.42			13.3	SURCHARGED
E3.000	E3.001	38	47.299	0.124	0.000	0.15			4.3	SURCHARGED
E1.005	E1.005	38	47.299	0.134	0.000	0.59			17.6	SURCHARGED
E4.000	E4.001	35	47.298	0.168	0.000	0.18			2.5	SURCHARGED

Summary Wizard of 240 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	35	47.297	0.067	0.000	0.36			20.0	SURCHARGED
E1.007	E1.007	29	47.297	0.152	0.000	0.67			20.0	SURCHARGED
E1.008	E1.008	23	47.295	0.160	0.000	0.66			19.9	SURCHARGED
E5.000	E4.001	38	47.861	-0.129	0.000	0.05			0.8	OK
E5.001	E4.002	38	47.600	-0.130	0.000	0.04			2.3	OK
E1.009	EGHOST	20	47.294	-0.877	0.000	0.00		199	0.0	OK

Summary Wizard of 360 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	45	48.320	-0.130	0.000	0.04			0.7	OK
E1.001	E1.001	49	47.347	-0.188	0.000	0.06			2.4	OK
E1.002	E1.002	40	47.294	-0.516	0.000	0.02			5.9	OK
E1.003	E1.003	40	47.293	-0.067	0.000	0.09			6.2	OK
E2.000	E2.000	45	48.517	-0.113	0.000	0.14			2.4	OK
E2.001	E2.001	45	48.207	-0.123	0.000	0.07			4.0	OK
E1.004	E1.004	40	47.292	0.077	0.000	0.32			10.1	SURCHARGED
E3.000	E3.001	39	47.290	0.115	0.000	0.11			3.3	SURCHARGED
E1.005	E1.005	39	47.290	0.125	0.000	0.45			13.3	SURCHARGED
E4.000	E4.001	38	47.289	0.159	0.000	0.13			1.9	SURCHARGED

Summary Wizard of 360 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	37	47.288	0.058	0.000	0.27			15.1	SURCHARGED
E1.007	E1.007	31	47.288	0.143	0.000	0.51			15.1	SURCHARGED
E1.008	E1.008	26	47.286	0.151	0.000	0.50			15.0	SURCHARGED
E5.000	E4.001	45	47.859	-0.131	0.000	0.04			0.6	OK
E5.001	E4.002	45	47.598	-0.132	0.000	0.03			1.7	OK
E1.009	EGHOST	23	47.285	-0.886	0.000	0.00		216	0.0	OK

Summary Wizard of 480 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	52	48.318	-0.132	0.000	0.04			0.6	OK
E1.001	E1.001	54	47.343	-0.192	0.000	0.05			2.0	OK
E1.002	E1.002	42	47.277	-0.533	0.000	0.01			4.9	OK
E1.003	E1.003	41	47.275	-0.085	0.000	0.08			5.1	OK
E2.000	E2.000	52	48.514	-0.116	0.000	0.11			2.0	OK
E2.001	E2.001	52	48.204	-0.126	0.000	0.06			3.3	OK
E1.004	E1.004	41	47.274	0.059	0.000	0.27			8.4	SURCHARGED
E3.000	E3.001	41	47.272	0.097	0.000	0.09			2.7	SURCHARGED
E1.005	E1.005	41	47.273	0.108	0.000	0.37			11.0	SURCHARGED
E4.000	E4.001	40	47.271	0.141	0.000	0.11			1.5	SURCHARGED

Summary Wizard of 480 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	39	47.270	0.040	0.000	0.23			12.4	SURCHARGED
E1.007	E1.007	34	47.269	0.124	0.000	0.42			12.4	SURCHARGED
E1.008	E1.008	28	47.268	0.133	0.000	0.41			12.3	SURCHARGED
E5.000	E4.001	52	47.857	-0.133	0.000	0.03			0.5	OK
E5.001	E4.002	52	47.596	-0.134	0.000	0.03			1.4	OK
E1.009	EGHOST	25	47.266	-0.905	0.000	0.00		227	0.0	OK

Summary Wizard of 600 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	56	48.317	-0.133	0.000	0.03			0.5	OK
E1.001	E1.001	57	47.340	-0.195	0.000	0.04			1.7	OK
E1.002	E1.002	52	47.257	-0.553	0.000	0.01			4.2	OK
E1.003	E1.003	44	47.252	-0.108	0.000	0.07			4.4	OK
E2.000	E2.000	56	48.511	-0.119	0.000	0.10			1.7	OK
E2.001	E2.001	56	48.202	-0.128	0.000	0.05			2.8	OK
E1.004	E1.004	44	47.250	0.035	0.000	0.23			7.2	SURCHARGED
E3.000	E3.001	44	47.248	0.073	0.000	0.08			2.3	SURCHARGED
E1.005	E1.005	44	47.248	0.083	0.000	0.32			9.5	SURCHARGED
E4.000	E4.001	43	47.248	0.118	0.000	0.10			1.3	SURCHARGED

Summary Wizard of 600 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	43	47.247	0.017	0.000	0.20			10.8	SURCHARGED
E1.007	E1.007	39	47.246	0.101	0.000	0.36			10.8	SURCHARGED
E1.008	E1.008	33	47.245	0.110	0.000	0.36			10.7	SURCHARGED
E5.000	E4.001	56	47.856	-0.134	0.000	0.03			0.4	OK
E5.001	E4.002	56	47.596	-0.134	0.000	0.02			1.2	OK
E1.009	EGHOST	29	47.243	-0.928	0.000	0.00		237	0.0	OK

Summary Wizard of 720 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	62	48.316	-0.134	0.000	0.03			0.4	OK
E1.001	E1.001	62	47.339	-0.196	0.000	0.04			1.5	OK
E1.002	E1.002	61	47.239	-0.571	0.000	0.01			3.7	OK
E1.003	E1.003	47	47.226	-0.134	0.000	0.06			3.9	OK
E2.000	E2.000	62	48.510	-0.120	0.000	0.09			1.5	OK
E2.001	E2.001	62	48.201	-0.129	0.000	0.05			2.5	OK
E1.004	E1.004	47	47.225	0.010	0.000	0.20			6.4	SURCHARGED
E3.000	E3.001	47	47.222	0.047	0.000	0.07			2.1	SURCHARGED
E1.005	E1.005	47	47.222	0.057	0.000	0.28			8.4	SURCHARGED
E4.000	E4.001	47	47.221	0.091	0.000	0.08			1.2	SURCHARGED

Summary Wizard of 720 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	47	47.220	-0.010	0.000	0.17			9.6	OK
E1.007	E1.007	45	47.219	0.074	0.000	0.32			9.6	SURCHARGED
E1.008	E1.008	39	47.218	0.083	0.000	0.32			9.5	SURCHARGED
E5.000	E4.001	62	47.855	-0.135	0.000	0.02			0.4	OK
E5.001	E4.002	62	47.595	-0.135	0.000	0.02			1.1	OK
E1.009	EGHOST	34	47.216	-0.955	0.000	0.00		252	0.0	OK

Summary Wizard of 960 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	66	48.315	-0.135	0.000	0.02			0.4	OK
E1.001	E1.001	66	47.336	-0.199	0.000	0.03			1.2	OK
E1.002	E1.002	67	47.232	-0.578	0.000	0.01			3.0	OK
E1.003	E1.003	52	47.163	-0.197	0.000	0.05			3.2	OK
E2.000	E2.000	66	48.506	-0.124	0.000	0.07			1.2	OK
E2.001	E2.001	66	48.199	-0.131	0.000	0.04			2.0	OK
E1.004	E1.004	52	47.162	-0.053	0.000	0.17			5.2	OK
E3.000	E3.001	52	47.160	-0.015	0.000	0.06			1.7	OK
E1.005	E1.005	52	47.159	-0.006	0.000	0.23			6.9	OK
E4.000	E4.001	51	47.158	0.028	0.000	0.07			1.0	SURCHARGED

Summary Wizard of 960 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	51	47.157	-0.073	0.000	0.14			7.9	OK
E1.007	E1.007	51	47.157	0.012	0.000	0.27			7.9	SURCHARGED
E1.008	E1.008	49	47.155	0.020	0.000	0.26			7.9	SURCHARGED
E5.000	E4.001	66	47.853	-0.137	0.000	0.02			0.3	OK
E5.001	E4.002	66	47.592	-0.138	0.000	0.02			0.9	OK
E1.009	EGHOST	42	47.154	-1.017	0.000	0.00		241	0.0	OK

Summary Wizard of 1440 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	74	48.312	-0.138	0.000	0.02			0.3	OK
E1.001	E1.001	74	47.334	-0.201	0.000	0.02			0.9	OK
E1.002	E1.002	74	47.227	-0.583	0.000	0.01			2.3	OK
E1.003	E1.003	74	47.097	-0.263	0.000	0.04			2.4	OK
E2.000	E2.000	74	48.502	-0.128	0.000	0.05			0.9	OK
E2.001	E2.001	74	48.197	-0.133	0.000	0.03			1.5	OK
E1.004	E1.004	71	47.046	-0.169	0.000	0.12			3.9	OK
E3.000	E3.001	70	47.038	-0.137	0.000	0.04			1.3	OK
E1.005	E1.005	70	47.038	-0.127	0.000	0.17			5.2	OK
E4.000	E4.001	70	47.037	-0.093	0.000	0.05			0.7	OK

Summary Wizard of 1440 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	70	47.037	-0.193	0.000	0.11			5.9	OK
E1.007	E1.007	70	47.037	-0.108	0.000	0.20			5.9	OK
E1.008	E1.008	70	47.035	-0.100	0.000	0.20			5.9	OK
E5.000	E4.001	74	47.850	-0.140	0.000	0.01			0.2	OK
E5.001	E4.002	74	47.589	-0.141	0.000	0.01			0.7	OK
E1.009	EGHOST	66	47.033	-1.138	0.000	0.00		218	0.0	OK

Summary Wizard of 2160 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	81	48.309	-0.141	0.000	0.01			0.2	OK
E1.001	E1.001	81	47.329	-0.206	0.000	0.02			0.7	OK
E1.002	E1.002	81	47.222	-0.588	0.000	0.00			1.7	OK
E1.003	E1.003	81	47.093	-0.267	0.000	0.03			1.8	OK
E2.000	E2.000	81	48.499	-0.131	0.000	0.04			0.7	OK
E2.001	E2.001	81	48.195	-0.135	0.000	0.02			1.1	OK
E1.004	E1.004	81	47.036	-0.179	0.000	0.09			2.9	OK
E3.000	E3.001	81	46.994	-0.181	0.000	0.03			1.0	OK
E1.005	E1.005	81	46.994	-0.171	0.000	0.13			3.9	OK
E4.000	E4.001	81	47.000	-0.130	0.000	0.04			0.5	OK

Summary Wizard of 2160 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	81	46.986	-0.244	0.000	0.08			4.4	OK
E1.007	E1.007	81	46.978	-0.167	0.000	0.15			4.4	OK
E1.008	E1.008	81	46.967	-0.168	0.000	0.15			4.4	OK
E5.000	E4.001	81	47.848	-0.142	0.000	0.01			0.2	OK
E5.001	E4.002	81	47.587	-0.143	0.000	0.01			0.5	OK
E1.009	EGHOST	79	46.880	-1.291	0.000	0.00		193	0.0	OK

Summary Wizard of 2880 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	84	48.307	-0.143	0.000	0.01			0.2	OK
E1.001	E1.001	84	47.326	-0.209	0.000	0.01			0.6	OK
E1.002	E1.002	84	47.220	-0.590	0.000	0.00			1.4	OK
E1.003	E1.003	84	47.090	-0.270	0.000	0.02			1.5	OK
E2.000	E2.000	84	48.498	-0.132	0.000	0.03			0.6	OK
E2.001	E2.001	84	48.192	-0.138	0.000	0.02			0.9	OK
E1.004	E1.004	84	47.031	-0.184	0.000	0.08			2.4	OK
E3.000	E3.001	84	46.989	-0.186	0.000	0.03			0.8	OK
E1.005	E1.005	84	46.989	-0.176	0.000	0.11			3.2	OK
E4.000	E4.001	84	46.997	-0.133	0.000	0.03			0.4	OK

Summary Wizard of 2880 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	84	46.980	-0.250	0.000	0.07			3.6	OK
E1.007	E1.007	84	46.972	-0.173	0.000	0.12			3.6	OK
E1.008	E1.008	84	46.962	-0.173	0.000	0.12			3.6	OK
E5.000	E4.001	84	47.846	-0.144	0.000	0.01			0.1	OK
E5.001	E4.002	84	47.586	-0.144	0.000	0.01			0.4	OK
E1.009	EGHOST	84	46.788	-1.383	0.000	0.00		356	0.0	OK

Summary Wizard of 4320 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	92	48.305	-0.145	0.000	0.01			0.1	OK
E1.001	E1.001	92	47.322	-0.213	0.000	0.01			0.4	OK
E1.002	E1.002	92	47.217	-0.593	0.000	0.00			1.0	OK
E1.003	E1.003	92	47.083	-0.277	0.000	0.02			1.1	OK
E2.000	E2.000	92	48.496	-0.134	0.000	0.02			0.4	OK
E2.001	E2.001	92	48.189	-0.141	0.000	0.01			0.7	OK
E1.004	E1.004	92	47.024	-0.191	0.000	0.06			1.8	OK
E3.000	E3.001	92	46.982	-0.193	0.000	0.02			0.6	OK
E1.005	E1.005	92	46.982	-0.183	0.000	0.08			2.3	OK
E4.000	E4.001	92	46.995	-0.135	0.000	0.02			0.3	OK

Summary Wizard of 4320 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	92	46.972	-0.258	0.000	0.05			2.7	OK
E1.007	E1.007	92	46.965	-0.180	0.000	0.09			2.7	OK
E1.008	E1.008	92	46.955	-0.180	0.000	0.09			2.7	OK
E5.000	E4.001	92	47.845	-0.145	0.000	0.01			0.1	OK
E5.001	E4.002	92	47.584	-0.146	0.000	0.01			0.3	OK
E1.009	EGHOST	92	46.768	-1.403	0.000	0.00		667	0.0	OK

Summary Wizard of 5760 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	101	48.304	-0.146	0.000	0.01			0.1	OK
E1.001	E1.001	101	47.319	-0.216	0.000	0.01			0.3	OK
E1.002	E1.002	101	47.216	-0.594	0.000	0.00			0.8	OK
E1.003	E1.003	101	47.079	-0.281	0.000	0.01			0.9	OK
E2.000	E2.000	101	48.494	-0.136	0.000	0.02			0.3	OK
E2.001	E2.001	101	48.187	-0.143	0.000	0.01			0.5	OK
E1.004	E1.004	101	47.020	-0.195	0.000	0.04			1.4	OK
E3.000	E3.001	101	46.978	-0.197	0.000	0.02			0.5	OK
E1.005	E1.005	101	46.977	-0.188	0.000	0.06			1.9	OK
E4.000	E4.001	101	46.993	-0.137	0.000	0.02			0.3	OK

Summary Wizard of 5760 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	101	46.968	-0.262	0.000	0.04			2.1	OK
E1.007	E1.007	101	46.960	-0.185	0.000	0.07			2.1	OK
E1.008	E1.008	101	46.949	-0.186	0.000	0.07			2.1	OK
E5.000	E4.001	101	47.844	-0.146	0.000	0.01			0.1	OK
E5.001	E4.002	101	47.583	-0.147	0.000	0.00			0.2	OK
E1.009	EGHOST	101	46.761	-1.410	0.000	0.00		883	0.0	OK

Summary Wizard of 7200 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	106	48.304	-0.146	0.000	0.01			0.1	OK
E1.001	E1.001	106	47.318	-0.217	0.000	0.01			0.3	OK
E1.002	E1.002	106	47.215	-0.595	0.000	0.00			0.7	OK
E1.003	E1.003	106	47.076	-0.284	0.000	0.01			0.7	OK
E2.000	E2.000	106	48.492	-0.138	0.000	0.02			0.3	OK
E2.001	E2.001	106	48.186	-0.144	0.000	0.01			0.5	OK
E1.004	E1.004	106	47.018	-0.197	0.000	0.04			1.2	OK
E3.000	E3.001	106	46.975	-0.200	0.000	0.01			0.4	OK
E1.005	E1.005	106	46.973	-0.192	0.000	0.05			1.6	OK
E4.000	E4.001	106	46.991	-0.139	0.000	0.02			0.2	OK

Summary Wizard of 7200 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	106	46.965	-0.265	0.000	0.03			1.8	OK
E1.007	E1.007	106	46.956	-0.189	0.000	0.06			1.8	OK
E1.008	E1.008	106	46.946	-0.189	0.000	0.06			1.8	OK
E5.000	E4.001	106	47.843	-0.147	0.000	0.00			0.1	OK
E5.001	E4.002	106	47.583	-0.147	0.000	0.00			0.2	OK
E1.009	EGHOST	106	46.756	-1.415	0.000	0.00		1191	0.0	OK

Summary Wizard of 8640 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	110	48.303	-0.147	0.000	0.00			0.1	OK
E1.001	E1.001	110	47.317	-0.218	0.000	0.01			0.2	OK
E1.002	E1.002	110	47.214	-0.596	0.000	0.00			0.6	OK
E1.003	E1.003	110	47.074	-0.286	0.000	0.01			0.6	OK
E2.000	E2.000	110	48.490	-0.140	0.000	0.01			0.2	OK
E2.001	E2.001	110	48.185	-0.145	0.000	0.01			0.4	OK
E1.004	E1.004	110	47.017	-0.198	0.000	0.03			1.0	OK
E3.000	E3.001	110	46.973	-0.202	0.000	0.01			0.3	OK
E1.005	E1.005	110	46.971	-0.194	0.000	0.05			1.4	OK
E4.000	E4.001	110	46.990	-0.140	0.000	0.01			0.2	OK

Summary Wizard of 8640 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	110	46.963	-0.267	0.000	0.03			1.6	OK
E1.007	E1.007	110	46.953	-0.192	0.000	0.05			1.6	OK
E1.008	E1.008	110	46.943	-0.192	0.000	0.05			1.6	OK
E5.000	E4.001	110	47.843	-0.147	0.000	0.00			0.1	OK
E5.001	E4.002	110	47.582	-0.148	0.000	0.00			0.2	OK
E1.009	EGHOST	110	46.753	-1.418	0.000	0.00		1470	0.0	OK

Summary Wizard of 10080 minute 30 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	112	48.303	-0.147	0.000	0.00			0.1	OK
E1.001	E1.001	112	47.316	-0.219	0.000	0.01			0.2	OK
E1.002	E1.002	112	47.214	-0.596	0.000	0.00			0.5	OK
E1.003	E1.003	112	47.072	-0.288	0.000	0.01			0.6	OK
E2.000	E2.000	112	48.489	-0.141	0.000	0.01			0.2	OK
E2.001	E2.001	112	48.185	-0.145	0.000	0.01			0.4	OK
E1.004	E1.004	112	47.015	-0.200	0.000	0.03			0.9	OK
E3.000	E3.001	112	46.971	-0.204	0.000	0.01			0.3	OK
E1.005	E1.005	112	46.969	-0.196	0.000	0.04			1.2	OK
E4.000	E4.001	112	46.989	-0.141	0.000	0.01			0.2	OK

Summary Wizard of 10080 minute 30 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	112	46.962	-0.268	0.000	0.03			1.4	OK
E1.007	E1.007	112	46.951	-0.194	0.000	0.05			1.4	OK
E1.008	E1.008	112	46.941	-0.194	0.000	0.05			1.4	OK
E5.000	E4.001	112	47.842	-0.148	0.000	0.00			0.1	OK
E5.001	E4.002	112	47.582	-0.148	0.000	0.00			0.2	OK
E1.009	EGHOST	112	46.750	-1.421	0.000	0.00		1534	0.0	OK

Summary Wizard of 15 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	1	48.567	0.117	0.000	0.43			7.0	SURCHARGED
E1.001	E1.001	1	48.549	1.014	0.000	0.37			13.8	SURCHARGED
E1.002	E1.002	1	48.522	0.712	0.000	0.09			36.0	SURCHARGED
E1.003	E1.003	1	48.516	1.156	0.000	0.48			32.1	SURCHARGED
E2.000	E2.000	1	49.108	0.478	0.000	1.33			22.6	SURCHARGED
E2.001	E2.001	1	48.763	0.433	0.000	0.65			34.3	SURCHARGED
E1.004	E1.004	1	48.418	1.203	0.000	1.84			57.9	SURCHARGED
E3.000	E3.001	1	48.267	1.092	0.000	0.81			24.2	SURCHARGED
E1.005	E1.005	1	48.256	1.091	0.000	2.54			75.4	SURCHARGED
E4.000	E4.001	1	47.999	0.869	0.000	1.24			17.4	SURCHARGED

Summary Wizard of 15 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	1	47.969	0.739	0.000	1.56			85.8	SURCHARGED
E1.007	E1.007	1	47.851	0.706	0.000	2.88			85.3	SURCHARGED
E1.008	E1.008	7	47.482	0.347	0.000	2.86			85.5	SURCHARGED
E5.000	E4.001	1	47.903	-0.087	0.000	0.36			6.1	OK
E5.001	E4.002	1	47.640	-0.090	0.000	0.33			17.0	OK
E1.009	EGHOST	26	47.261	-0.910	0.000	0.00		151	0.0	OK

Summary Wizard of 30 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	4	48.357	-0.093	0.000	0.31			5.1	OK
E1.001	E1.001	3	48.286	0.751	0.000	0.31			11.5	SURCHARGED
E1.002	E1.002	3	48.264	0.454	0.000	0.08			30.3	SURCHARGED
E1.003	E1.003	3	48.258	0.898	0.000	0.45			30.1	SURCHARGED
E2.000	E2.000	4	48.603	-0.027	0.000	1.00			17.0	OK
E2.001	E2.001	3	48.356	0.026	0.000	0.53			28.2	SURCHARGED
E1.004	E1.004	3	48.167	0.952	0.000	1.63			51.3	SURCHARGED
E3.000	E3.001	3	48.042	0.867	0.000	0.62			18.3	SURCHARGED
E1.005	E1.005	3	48.036	0.871	0.000	2.27			67.5	SURCHARGED
E4.000	E4.001	3	47.829	0.699	0.000	0.91			12.7	SURCHARGED

Summary Wizard of 30 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	3	47.805	0.575	0.000	1.40			76.9	SURCHARGED
E1.007	E1.007	3	47.709	0.564	0.000	2.59			76.8	SURCHARGED
E1.008	E1.008	16	47.411	0.276	0.000	2.57			76.9	SURCHARGED
E5.000	E4.001	4	47.892	-0.098	0.000	0.27			4.5	OK
E5.001	E4.002	4	47.630	-0.100	0.000	0.24			12.5	OK
E1.009	EGHOST	18	47.358	-0.813	0.000	0.00		179	0.0	OK

Summary Wizard of 60 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	10	48.346	-0.104	0.000	0.20			3.3	OK
E1.001	E1.001	6	47.857	0.322	0.000	0.25			9.4	SURCHARGED
E1.002	E1.002	6	47.840	0.030	0.000	0.06			23.8	SURCHARGED
E1.003	E1.003	6	47.836	0.476	0.000	0.36			23.6	SURCHARGED
E2.000	E2.000	10	48.568	-0.062	0.000	0.65			11.1	OK
E2.001	E2.001	10	48.241	-0.089	0.000	0.35			18.4	OK
E1.004	E1.004	6	47.760	0.545	0.000	1.25			39.4	SURCHARGED
E3.000	E3.001	6	47.689	0.514	0.000	0.46			13.7	SURCHARGED
E1.005	E1.005	6	47.684	0.519	0.000	1.74			51.8	SURCHARGED
E4.000	E4.001	8	47.576	0.446	0.000	0.61			8.6	SURCHARGED

Summary Wizard of 60 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	9	47.563	0.333	0.000	1.07			58.9	SURCHARGED
E1.007	E1.007	11	47.499	0.354	0.000	1.98			58.6	SURCHARGED
E1.008	E1.008	9	47.454	0.319	0.000	1.95			58.3	SURCHARGED
E5.000	E4.001	10	47.882	-0.108	0.000	0.17			2.9	OK
E5.001	E4.002	10	47.619	-0.111	0.000	0.16			8.1	OK
E1.009	EGHOST	8	47.454	-0.717	0.000	0.00		207	0.0	OK

Summary Wizard of 120 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	19	48.335	-0.115	0.000	0.13			2.1	OK
E1.001	E1.001	11	47.662	0.127	0.000	0.17			6.5	SURCHARGED
E1.002	E1.002	11	47.654	-0.156	0.000	0.04			16.4	OK
E1.003	E1.003	10	47.649	0.289	0.000	0.23			15.3	SURCHARGED
E2.000	E2.000	19	48.546	-0.084	0.000	0.40			6.9	OK
E2.001	E2.001	19	48.227	-0.103	0.000	0.22			11.5	OK
E1.004	E1.004	9	47.641	0.426	0.000	0.84			26.3	SURCHARGED
E3.000	E3.001	8	47.622	0.447	0.000	0.32			9.6	SURCHARGED
E1.005	E1.005	8	47.620	0.455	0.000	1.18			35.2	SURCHARGED
E4.000	E4.001	9	47.571	0.441	0.000	0.39			5.5	SURCHARGED

Summary Wizard of 120 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	8	47.565	0.335	0.000	0.73			40.0	SURCHARGED
E1.007	E1.007	8	47.539	0.394	0.000	1.34			39.7	SURCHARGED
E1.008	E1.008	4	47.527	0.392	0.000	1.32			39.3	SURCHARGED
E5.000	E4.001	19	47.873	-0.117	0.000	0.11			1.8	OK
E5.001	E4.002	19	47.611	-0.119	0.000	0.10			5.1	OK
E1.009	EGHOST	4	47.526	-0.645	0.000	0.00		227	0.0	OK

Summary Wizard of 180 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	24	48.331	-0.119	0.000	0.09			1.6	OK
E1.001	E1.001	14	47.611	0.076	0.000	0.14			5.1	SURCHARGED
E1.002	E1.002	14	47.610	-0.200	0.000	0.03			12.0	OK
E1.003	E1.003	13	47.610	0.250	0.000	0.17			11.3	SURCHARGED
E2.000	E2.000	24	48.536	-0.094	0.000	0.30			5.2	OK
E2.001	E2.001	24	48.220	-0.110	0.000	0.16			8.6	OK
E1.004	E1.004	13	47.609	0.394	0.000	0.57			18.1	SURCHARGED
E3.000	E3.001	10	47.607	0.432	0.000	0.22			6.5	SURCHARGED
E1.005	E1.005	10	47.606	0.441	0.000	0.80			23.7	SURCHARGED
E4.000	E4.001	7	47.605	0.475	0.000	0.29			4.0	SURCHARGED

Summary Wizard of 180 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	6	47.602	0.372	0.000	0.49			26.9	SURCHARGED
E1.007	E1.007	6	47.598	0.453	0.000	0.90			26.7	SURCHARGED
E1.008	E1.008	2	47.591	0.456	0.000	0.89			26.8	SURCHARGED
E5.000	E4.001	24	47.868	-0.122	0.000	0.08			1.4	OK
E5.001	E4.002	24	47.607	-0.123	0.000	0.07			3.8	OK
E1.009	EGHOST	2	47.589	-0.582	0.000	0.00		246	0.0	OK

Summary Wizard of 240 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	30	48.327	-0.123	0.000	0.08			1.3	OK
E1.001	E1.001	13	47.624	0.089	0.000	0.11			4.2	SURCHARGED
E1.002	E1.002	12	47.622	-0.188	0.000	0.03			10.0	OK
E1.003	E1.003	12	47.622	0.262	0.000	0.15			9.8	SURCHARGED
E2.000	E2.000	30	48.530	-0.100	0.000	0.25			4.2	OK
E2.001	E2.001	30	48.216	-0.114	0.000	0.13			7.1	OK
E1.004	E1.004	12	47.622	0.407	0.000	0.50			15.8	SURCHARGED
E3.000	E3.001	9	47.619	0.444	0.000	0.19			5.5	SURCHARGED
E1.005	E1.005	9	47.619	0.454	0.000	0.69			20.6	SURCHARGED
E4.000	E4.001	5	47.618	0.488	0.000	0.24			3.3	SURCHARGED

Summary Wizard of 240 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	5	47.615	0.385	0.000	0.43			23.4	SURCHARGED
E1.007	E1.007	5	47.611	0.466	0.000	0.79			23.3	SURCHARGED
E1.008	E1.008	1	47.603	0.468	0.000	0.78			23.2	SURCHARGED
E5.000	E4.001	30	47.865	-0.125	0.000	0.07			1.1	OK
E5.001	E4.002	30	47.604	-0.126	0.000	0.06			3.1	OK
E1.009	EGHOST	1	47.617	-0.554	0.000	0.00		287	0.0	OK

Summary Wizard of 360 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	37	48.323	-0.127	0.000	0.06			1.0	OK
E1.001	E1.001	16	47.558	0.023	0.000	0.09			3.2	SURCHARGED
E1.002	E1.002	15	47.551	-0.259	0.000	0.02			7.8	OK
E1.003	E1.003	15	47.551	0.191	0.000	0.12			8.0	SURCHARGED
E2.000	E2.000	37	48.524	-0.106	0.000	0.19			3.2	OK
E2.001	E2.001	37	48.212	-0.118	0.000	0.10			5.3	OK
E1.004	E1.004	15	47.564	0.349	0.000	0.41			12.8	SURCHARGED
E3.000	E3.001	14	47.545	0.370	0.000	0.15			4.3	SURCHARGED
E1.005	E1.005	14	47.544	0.379	0.000	0.56			16.7	SURCHARGED
E4.000	E4.001	11	47.545	0.415	0.000	0.18			2.5	SURCHARGED

Summary Wizard of 360 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	10	47.544	0.314	0.000	0.35			19.0	SURCHARGED
E1.007	E1.007	7	47.543	0.398	0.000	0.64			18.9	SURCHARGED
E1.008	E1.008	3	47.548	0.413	0.000	0.63			18.8	SURCHARGED
E5.000	E4.001	37	47.861	-0.129	0.000	0.05			0.8	OK
E5.001	E4.002	37	47.600	-0.130	0.000	0.05			2.3	OK
E1.009	EGHOST	3	47.560	-0.611	0.000	0.00		288	0.0	OK

Summary Wizard of 480 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	43	48.321	-0.129	0.000	0.05			0.8	OK
E1.001	E1.001	20	47.520	-0.015	0.000	0.07			2.6	OK
E1.002	E1.002	19	47.519	-0.291	0.000	0.02			6.4	OK
E1.003	E1.003	18	47.519	0.159	0.000	0.10			6.8	SURCHARGED
E2.000	E2.000	43	48.519	-0.111	0.000	0.15			2.6	OK
E2.001	E2.001	43	48.208	-0.122	0.000	0.08			4.3	OK
E1.004	E1.004	18	47.518	0.303	0.000	0.35			11.1	SURCHARGED
E3.000	E3.001	17	47.515	0.340	0.000	0.12			3.6	SURCHARGED
E1.005	E1.005	17	47.515	0.350	0.000	0.49			14.7	SURCHARGED
E4.000	E4.001	12	47.515	0.385	0.000	0.15			2.0	SURCHARGED

Summary Wizard of 480 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	12	47.513	0.283	0.000	0.30			16.7	SURCHARGED
E1.007	E1.007	10	47.512	0.367	0.000	0.56			16.5	SURCHARGED
E1.008	E1.008	5	47.511	0.376	0.000	0.54			16.3	SURCHARGED
E5.000	E4.001	43	47.859	-0.131	0.000	0.04			0.7	OK
E5.001	E4.002	43	47.598	-0.132	0.000	0.04			1.9	OK
E1.009	EGHOST	5	47.510	-0.661	0.000	0.00		298	0.0	OK

Summary Wizard of 600 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	48	48.319	-0.131	0.000	0.04			0.7	OK
E1.001	E1.001	22	47.494	-0.041	0.000	0.06			2.2	OK
E1.002	E1.002	22	47.493	-0.317	0.000	0.01			5.5	OK
E1.003	E1.003	22	47.492	0.132	0.000	0.09			5.8	SURCHARGED
E2.000	E2.000	48	48.516	-0.114	0.000	0.13			2.2	OK
E2.001	E2.001	48	48.206	-0.124	0.000	0.07			3.7	OK
E1.004	E1.004	22	47.491	0.276	0.000	0.30			9.4	SURCHARGED
E3.000	E3.001	18	47.489	0.314	0.000	0.10			3.1	SURCHARGED
E1.005	E1.005	18	47.489	0.324	0.000	0.42			12.5	SURCHARGED
E4.000	E4.001	14	47.488	0.358	0.000	0.12			1.7	SURCHARGED

Summary Wizard of 600 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	13	47.487	0.257	0.000	0.26			14.0	SURCHARGED
E1.007	E1.007	12	47.486	0.341	0.000	0.47			13.9	SURCHARGED
E1.008	E1.008	6	47.485	0.350	0.000	0.46			13.8	SURCHARGED
E5.000	E4.001	48	47.858	-0.132	0.000	0.03			0.6	OK
E5.001	E4.002	48	47.597	-0.133	0.000	0.03			1.6	OK
E1.009	EGHOST	6	47.483	-0.688	0.000	0.00		308	0.0	OK

Summary Wizard of 720 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	53	48.318	-0.132	0.000	0.04			0.6	OK
E1.001	E1.001	25	47.465	-0.070	0.000	0.05			1.9	OK
E1.002	E1.002	25	47.463	-0.347	0.000	0.01			4.8	OK
E1.003	E1.003	24	47.463	0.103	0.000	0.08			5.1	SURCHARGED
E2.000	E2.000	53	48.513	-0.117	0.000	0.11			1.9	OK
E2.001	E2.001	53	48.204	-0.126	0.000	0.06			3.2	OK
E1.004	E1.004	23	47.463	0.248	0.000	0.26			8.3	SURCHARGED
E3.000	E3.001	20	47.460	0.285	0.000	0.09			2.7	SURCHARGED
E1.005	E1.005	20	47.460	0.295	0.000	0.37			11.0	SURCHARGED
E4.000	E4.001	19	47.459	0.329	0.000	0.11			1.5	SURCHARGED

Summary Wizard of 720 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	18	47.458	0.228	0.000	0.23			12.6	SURCHARGED
E1.007	E1.007	14	47.457	0.312	0.000	0.42			12.6	SURCHARGED
E1.008	E1.008	8	47.456	0.321	0.000	0.42			12.5	SURCHARGED
E5.000	E4.001	53	47.857	-0.133	0.000	0.03			0.5	OK
E5.001	E4.002	53	47.596	-0.134	0.000	0.03			1.4	OK
E1.009	EGHOST	7	47.454	-0.717	0.000	0.00		316	0.0	OK

Summary Wizard of 960 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	60	48.317	-0.133	0.000	0.03			0.5	OK
E1.001	E1.001	32	47.393	-0.142	0.000	0.04			1.6	OK
E1.002	E1.002	31	47.392	-0.418	0.000	0.01			3.9	OK
E1.003	E1.003	31	47.391	0.031	0.000	0.06			4.1	SURCHARGED
E2.000	E2.000	60	48.510	-0.120	0.000	0.09			1.6	OK
E2.001	E2.001	60	48.201	-0.129	0.000	0.05			2.6	OK
E1.004	E1.004	31	47.391	0.176	0.000	0.21			6.7	SURCHARGED
E3.000	E3.001	31	47.388	0.213	0.000	0.07			2.2	SURCHARGED
E1.005	E1.005	31	47.388	0.223	0.000	0.30			8.9	SURCHARGED
E4.000	E4.001	25	47.387	0.257	0.000	0.09			1.2	SURCHARGED

Summary Wizard of 960 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	24	47.386	0.156	0.000	0.19			10.2	SURCHARGED
E1.007	E1.007	23	47.385	0.240	0.000	0.34			10.2	SURCHARGED
E1.008	E1.008	19	47.385	0.250	0.000	0.34			10.1	SURCHARGED
E5.000	E4.001	60	47.856	-0.134	0.000	0.02			0.4	OK
E5.001	E4.002	60	47.595	-0.135	0.000	0.02			1.1	OK
E1.009	EGHOST	15	47.383	-0.788	0.000	0.00		334	0.0	OK

Summary Wizard of 1440 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	69	48.315	-0.135	0.000	0.02			0.3	OK
E1.001	E1.001	69	47.336	-0.199	0.000	0.03			1.1	OK
E1.002	E1.002	51	47.259	-0.551	0.000	0.01			2.9	OK
E1.003	E1.003	43	47.255	-0.105	0.000	0.05			3.0	OK
E2.000	E2.000	69	48.505	-0.125	0.000	0.07			1.1	OK
E2.001	E2.001	69	48.198	-0.132	0.000	0.04			1.9	OK
E1.004	E1.004	43	47.253	0.038	0.000	0.16			4.9	SURCHARGED
E3.000	E3.001	43	47.251	0.076	0.000	0.05			1.6	SURCHARGED
E1.005	E1.005	43	47.251	0.086	0.000	0.21			6.4	SURCHARGED
E4.000	E4.001	42	47.251	0.121	0.000	0.06			0.9	SURCHARGED

Summary Wizard of 1440 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	42	47.250	0.020	0.000	0.13			7.2	SURCHARGED
E1.007	E1.007	38	47.249	0.104	0.000	0.24			7.2	SURCHARGED
E1.008	E1.008	32	47.247	0.112	0.000	0.24			7.2	SURCHARGED
E5.000	E4.001	69	47.853	-0.137	0.000	0.02			0.3	OK
E5.001	E4.002	69	47.592	-0.138	0.000	0.02			0.8	OK
E1.009	EGHOST	28	47.246	-0.925	0.000	0.00		307	0.0	OK

Summary Wizard of 2160 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	75	48.311	-0.139	0.000	0.02			0.3	OK
E1.001	E1.001	75	47.333	-0.202	0.000	0.02			0.8	OK
E1.002	E1.002	75	47.226	-0.584	0.000	0.01			2.1	OK
E1.003	E1.003	75	47.096	-0.264	0.000	0.03			2.2	OK
E2.000	E2.000	75	48.501	-0.129	0.000	0.05			0.8	OK
E2.001	E2.001	75	48.196	-0.134	0.000	0.03			1.4	OK
E1.004	E1.004	66	47.071	-0.144	0.000	0.12			3.6	OK
E3.000	E3.001	66	47.069	-0.106	0.000	0.04			1.2	OK
E1.005	E1.005	66	47.069	-0.096	0.000	0.16			4.8	OK
E4.000	E4.001	66	47.069	-0.061	0.000	0.05			0.7	OK

Summary Wizard of 2160 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	66	47.068	-0.162	0.000	0.10			5.5	OK
E1.007	E1.007	66	47.068	-0.077	0.000	0.19			5.5	OK
E1.008	E1.008	66	47.066	-0.069	0.000	0.18			5.5	OK
E5.000	E4.001	75	47.849	-0.141	0.000	0.01			0.2	OK
E5.001	E4.002	75	47.589	-0.141	0.000	0.01			0.6	OK
E1.009	EGHOST	60	47.064	-1.107	0.000	0.00		276	0.0	OK

Summary Wizard of 2880 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	80	48.309	-0.141	0.000	0.01			0.2	OK
E1.001	E1.001	80	47.329	-0.206	0.000	0.02			0.7	OK
E1.002	E1.002	80	47.222	-0.588	0.000	0.00			1.7	OK
E1.003	E1.003	80	47.093	-0.267	0.000	0.03			1.8	OK
E2.000	E2.000	80	48.499	-0.131	0.000	0.04			0.7	OK
E2.001	E2.001	80	48.195	-0.135	0.000	0.02			1.1	OK
E1.004	E1.004	80	47.036	-0.179	0.000	0.09			2.9	OK
E3.000	E3.001	80	46.995	-0.180	0.000	0.03			1.0	OK
E1.005	E1.005	80	46.994	-0.171	0.000	0.13			3.9	OK
E4.000	E4.001	80	47.000	-0.130	0.000	0.04			0.5	OK

Summary Wizard of 2880 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	80	46.987	-0.243	0.000	0.08			4.4	OK
E1.007	E1.007	80	46.978	-0.167	0.000	0.15			4.4	OK
E1.008	E1.008	80	46.967	-0.168	0.000	0.15			4.4	OK
E5.000	E4.001	80	47.848	-0.142	0.000	0.01			0.2	OK
E5.001	E4.002	80	47.587	-0.143	0.000	0.01			0.5	OK
E1.009	EGHOST	76	46.915	-1.256	0.000	0.00		243	0.0	OK

Summary Wizard of 4320 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	87	48.306	-0.144	0.000	0.01			0.1	OK
E1.001	E1.001	87	47.324	-0.211	0.000	0.01			0.5	OK
E1.002	E1.002	87	47.219	-0.591	0.000	0.00			1.2	OK
E1.003	E1.003	87	47.088	-0.272	0.000	0.02			1.3	OK
E2.000	E2.000	87	48.497	-0.133	0.000	0.03			0.5	OK
E2.001	E2.001	87	48.191	-0.139	0.000	0.02			0.8	OK
E1.004	E1.004	87	47.028	-0.187	0.000	0.07			2.1	OK
E3.000	E3.001	87	46.987	-0.188	0.000	0.02			0.7	OK
E1.005	E1.005	87	46.986	-0.179	0.000	0.10			2.8	OK
E4.000	E4.001	87	46.997	-0.133	0.000	0.03			0.4	OK

Summary Wizard of 4320 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	87	46.977	-0.253	0.000	0.06			3.2	OK
E1.007	E1.007	87	46.969	-0.176	0.000	0.11			3.2	OK
E1.008	E1.008	87	46.959	-0.176	0.000	0.11			3.2	OK
E5.000	E4.001	87	47.846	-0.144	0.000	0.01			0.1	OK
E5.001	E4.002	87	47.585	-0.145	0.000	0.01			0.4	OK
E1.009	EGHOST	87	46.777	-1.394	0.000	0.00		667	0.0	OK

Summary Wizard of 5760 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	94	48.305	-0.145	0.000	0.01			0.1	OK
E1.001	E1.001	94	47.321	-0.214	0.000	0.01			0.4	OK
E1.002	E1.002	94	47.217	-0.593	0.000	0.00			1.0	OK
E1.003	E1.003	94	47.082	-0.278	0.000	0.02			1.0	OK
E2.000	E2.000	94	48.495	-0.135	0.000	0.02			0.4	OK
E2.001	E2.001	94	48.189	-0.141	0.000	0.01			0.7	OK
E1.004	E1.004	94	47.023	-0.192	0.000	0.05			1.7	OK
E3.000	E3.001	94	46.982	-0.193	0.000	0.02			0.6	OK
E1.005	E1.005	94	46.981	-0.184	0.000	0.08			2.3	OK
E4.000	E4.001	94	46.995	-0.135	0.000	0.02			0.3	OK

Summary Wizard of 5760 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	94	46.971	-0.259	0.000	0.05			2.6	OK
E1.007	E1.007	94	46.964	-0.181	0.000	0.09			2.6	OK
E1.008	E1.008	94	46.954	-0.181	0.000	0.09			2.6	OK
E5.000	E4.001	94	47.844	-0.146	0.000	0.01			0.1	OK
E5.001	E4.002	94	47.584	-0.146	0.000	0.01			0.3	OK
E1.009	EGHOST	94	46.767	-1.404	0.000	0.00		879	0.0	OK

Summary Wizard of 7200 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	100	48.304	-0.146	0.000	0.01			0.1	OK
E1.001	E1.001	100	47.319	-0.216	0.000	0.01			0.3	OK
E1.002	E1.002	100	47.216	-0.594	0.000	0.00			0.8	OK
E1.003	E1.003	100	47.079	-0.281	0.000	0.01			0.9	OK
E2.000	E2.000	100	48.494	-0.136	0.000	0.02			0.3	OK
E2.001	E2.001	100	48.187	-0.143	0.000	0.01			0.6	OK
E1.004	E1.004	100	47.021	-0.194	0.000	0.05			1.4	OK
E3.000	E3.001	100	46.978	-0.197	0.000	0.02			0.5	OK
E1.005	E1.005	100	46.977	-0.188	0.000	0.06			1.9	OK
E4.000	E4.001	100	46.993	-0.137	0.000	0.02			0.3	OK

Summary Wizard of 7200 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	100	46.968	-0.262	0.000	0.04			2.2	OK
E1.007	E1.007	100	46.960	-0.185	0.000	0.07			2.2	OK
E1.008	E1.008	100	46.950	-0.185	0.000	0.07			2.2	OK
E5.000	E4.001	100	47.844	-0.146	0.000	0.01			0.1	OK
E5.001	E4.002	100	47.583	-0.147	0.000	0.00			0.2	OK
E1.009	EGHOST	100	46.761	-1.410	0.000	0.00		1098	0.0	OK

Summary Wizard of 8640 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	105	48.304	-0.146	0.000	0.01			0.1	OK
E1.001	E1.001	105	47.318	-0.217	0.000	0.01			0.3	OK
E1.002	E1.002	105	47.215	-0.595	0.000	0.00			0.7	OK
E1.003	E1.003	105	47.076	-0.284	0.000	0.01			0.8	OK
E2.000	E2.000	105	48.492	-0.138	0.000	0.02			0.3	OK
E2.001	E2.001	105	48.186	-0.144	0.000	0.01			0.5	OK
E1.004	E1.004	105	47.019	-0.196	0.000	0.04			1.2	OK
E3.000	E3.001	105	46.975	-0.200	0.000	0.01			0.4	OK
E1.005	E1.005	105	46.974	-0.191	0.000	0.06			1.6	OK
E4.000	E4.001	105	46.992	-0.138	0.000	0.02			0.2	OK

Summary Wizard of 8640 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	105	46.966	-0.264	0.000	0.03			1.9	OK
E1.007	E1.007	105	46.957	-0.188	0.000	0.06			1.9	OK
E1.008	E1.008	105	46.946	-0.189	0.000	0.06			1.9	OK
E5.000	E4.001	105	47.843	-0.147	0.000	0.00			0.1	OK
E5.001	E4.002	105	47.583	-0.147	0.000	0.00			0.2	OK
E1.009	EGHOST	105	46.757	-1.414	0.000	0.00		1315	0.0	OK

Summary Wizard of 10080 minute 100 year Winter I+50% for Existing

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 182550 45150 SW 82550 45150
C (1km)	-0.032
D1 (1km)	0.433
D2 (1km)	0.397
D3 (1km)	0.359
E (1km)	0.297
F (1km)	2.394
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	0.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

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)	10, 30, 100
Climate Change (%)	50, 50, 50

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.000	E1.000	109	48.303	-0.147	0.000	0.00			0.1	OK
E1.001	E1.001	109	47.317	-0.218	0.000	0.01			0.3	OK
E1.002	E1.002	109	47.215	-0.595	0.000	0.00			0.6	OK
E1.003	E1.003	109	47.074	-0.286	0.000	0.01			0.7	OK
E2.000	E2.000	109	48.491	-0.139	0.000	0.01			0.3	OK
E2.001	E2.001	109	48.186	-0.144	0.000	0.01			0.4	OK
E1.004	E1.004	109	47.017	-0.198	0.000	0.03			1.1	OK
E3.000	E3.001	109	46.973	-0.202	0.000	0.01			0.4	OK
E1.005	E1.005	109	46.972	-0.193	0.000	0.05			1.5	OK
E4.000	E4.001	109	46.990	-0.140	0.000	0.01			0.2	OK

Summary Wizard of 10080 minute 100 year Winter I+50% for Existing

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
E1.006	E1.006	109	46.964	-0.266	0.000	0.03			1.7	OK
E1.007	E1.007	109	46.954	-0.191	0.000	0.06			1.7	OK
E1.008	E1.008	109	46.944	-0.191	0.000	0.06			1.7	OK
E5.000	E4.001	109	47.843	-0.147	0.000	0.00			0.1	OK
E5.001	E4.002	109	47.583	-0.147	0.000	0.00			0.2	OK
E1.009	EGHOST	109	46.754	-1.417	0.000	0.00		1527	0.0	OK

APPENDIX F

STAGE 3

[redacted]

FOR CONTINUATION PLEASE REFER TO MBA DWG. 23036-204

Design Team

FOR CONTINUATION PLEASE REFER TO MBA DWG. 23036-204

Note: Possible buried manhole.

Note: Tap above ground feed.

S/A POSITION & DESIGN TO BE VERIFIED FURTHER TO SOIL INFILTRATION TESTING

MODULAR UNIT SOAKAWAY
UNITS 0.95 POROSITY/FOS 2 / 50% CC
19.0m x7.0m x 0.8md(2NO. 400mm UNITS)
SA,BASE 1.2m BELOW EXG.
GL 47.93
CL 47.93
INCOMING IL 46.90
TOP OF SK@ 47.53
BASE OF SK@ 46.73

PROPOSED DRAINAGE LAYOUT

SCALE 1:100

DRAINAGE KEY

150/225/300mm	SURFACE WATER DRAIN, R12/344/346
100mm	FOUL WATER DRAIN, R12/346
PPIC SW FW	POLYPROPYLENE INSPECTION CHAMBER (PPIC) 460Ø DETAIL ON MBA DWG. 23036-210 R12/401
NEPPIC SW FW	NON-ENTRY POLYPROPYLENE INSPECTION CHAMBER (NEPPIC) 460Ø DETAIL ON MBA DWG. 23036-210 R12/402
RWP	REST BEND (RAINWATER PIPE) DETAIL ON MBA DWG.23036-210 R12/691
SVP	REST BEND (SOIL AND VENT PIPE) DETAIL ON MBA DWG.23036-210 R12/691
VENT / AU / INSPECT UNITS	MODULAR WATER STORAGE UNIT/INSPECT UNIT. PLEASE REFER TO DRAWING 19187-211 FOR SOAKAWAY INDIVIDUAL SPECIFICATIONS,R12/464
ACO	ACO CHANNEL DRAIN , ACO MULTILINE SEALIN V100S SYSTEM
PPIC* SW FW	POLYPROPYLENE INSPECTION CHAMBER (PPIC) 460Ø WITH DOUBLE SEALED RECESSED COVERS TO ACCEPT FINISHES DETAIL ON MBA DWG. 23036-210, R12 402&471
YG (TRAPPED)	PRIVATE YARD GULLY DETAIL ON MBA DWG.23036-210 - R12/313 & 472
S TYPE BC	SURFACE WATER DN1500 PC MANHOLE SEE DETAIL ON MBA DWG.23036-211,R12-407
S TYPE BC CATCHPIT	SURFACE WATER DN1350 PC MANHOLE CATCHPIT MANHOLE 1350Ø, DETAILS ON MBA DRAWING 23036-211, R-407

NOTES

1. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS MARKED ABOVE "FOR CONSTRUCTION"
2. THE COPYRIGHT ON THIS DRAWING IS RETAINED BY MICHAEL BEARDSALL ASSOCIATES LTD
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND THE CORRECT SETTING OUT ON SITE. ONLY FIGURED DIMENSIONS ARE TO BE USED. DO NOT SCALE FOR CONSTRUCTION PURPOSES: IF IN DOUBT ASK. DIMENSIONS SHOULD NOT BE TAKEN ELECTRONICALLY
5. ALL MATERIALS AND WORKMANSHIP TO COMPLY WITH THE CURRENT BRITISH STANDARDS AND CODES OF PRACTICE

PRIVATE DRAINAGE

6. BUILDING DRAINAGE TO BUILDING REGULATIONS PART H.
7. ALL BUILDING DRAINAGE NOT IN ROAD TO BE DN100 PLASTIC UNLESS OTHERWISE NOTED.
8. ALL BUILDING DRAINAGE IN ROAD TO BE DN150 STRUCTURED WALL PLASTIC UNLESS OTHERWISE NOTED.
9. ALL BUILDING FOUL DRAINAGE AT GRADIENTS NOT FLATTER THAN 1:40 UNLESS OTHERWISE NOTED.
10. ALL BUILDING SURFACE WATER DRAINAGE AT GRADIENTS NOT FLATTER THAT 1:100.
11. UNDER GARDENS WITH 0.6m COVER OR MORE CLASS P FULL DEPTH GRANULAR SUPPORT, SINGLE SIZE MATERIAL ONLY (CLAUSE 663).
12. UNDER GARDENS WITH LESS THAN 0.6m COVER CLASS Q GRANULAR SURROUND WITH PROTECTION (CLAUSE 665).
13. UNDER SOLID GROUND FLOORS 0.3m OR MORE FROM UNDERSIDE OF SLAB CLASS W GRANULAR SURROUND, SINGLE SIZE MATERIAL ONLY (CLAUSE 673)
14. UNDER SOLID GROUND FLOORS 0.3m OR LESS FROM UNDERSIDE OF SLAB CLASS Y CONCRETE SURROUND FOR SHALLOW PIPES UNDER BUILDINGS (CLAUSE 676)
15. PIPE RUNS NEAR FOUNDATIONS CLASS Z CONCRETE SURROUND (CLAUSES 678)
16. UNDER ROADS AND CONSTRUCTED UNDER STEPS CLASS O FULL DEPTH GRANULAR SUPPORT, SINGLE SIZE MATERIAL ONLY (CLAUSE 661).
17. FOR PREFORMED POLYPROPYLENE MANHOLES AND BRANCHES, MAIN CHANNEL TO BE USED FOR MAIN FLOW. ALL SPARE INLETS (SLIPPERS) TO BE PROPERLY CAPPED OFF.
18. WHERE REQUIRED BENDS ON BUILDING DRAINAGE RUNS MUST BE LOCATED IMMEDIATELY OUTSIDE CHAMBERS AND ACCESS POINTS.

C	24.11.23	SVP POSITIONS REVISED GULLY POSITIONS REVISED	MFS	MP
B	21.11.23	UPDATED FOR NEW ARCHITECTS LAYOUT SCALE REVISED	MFS	MP
A	22.08.23	STAGE 2 ISSUE	MFS	MP
	DATE	REVISION SUMMARY	BY	CHK

JOB TITLE:
TRURO SCHOOL
TRENNICK LANE
TRURO
CORNWALL

CLIENT:
TRURO SCHOOL

DETAIL:
PROPOSED DRAINAGE LAYOUT
OPTION 3

DRN. BY: E.GASKELL

DATE: AUG 2023 SCALE: 1:100 @ A1

JOB NO:	DRAWING No:	REV:
23036	204	C

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