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25 Hollingworth Court Kent ME14 5PP	3474 2 VALE ROAD NETWORK - P01																																	
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Innovyze	Network 2020.1.3																																	
STORM SEWER DESIGN by the Modified Rational Method Design Criteria for Storm Pipe Sizes STANDARD Manhole Sizes STANDARD FEH Rainfall Model <table><tr><td>Return Period (years)</td><td>2</td><td>Volumetric Runoff Coeff.</td><td>0.750</td></tr><tr><td></td><td></td><td>PIMP (%)</td><td>100</td></tr><tr><td>FEH Rainfall Version</td><td>2013</td><td>Add Flow / Climate Change (%)</td><td>0</td></tr><tr><td>Site Location</td><td>GB 562797 173610 TQ 62797 73610</td><td>Minimum Backdrop Height (m)</td><td>0.200</td></tr><tr><td>Data Type</td><td>Point</td><td>Maximum Backdrop Height (m)</td><td>1.500</td></tr><tr><td>Maximum Rainfall (mm/hr)</td><td>50</td><td>Min Design Depth for Optimisation (m)</td><td>1.200</td></tr><tr><td>Maximum Time of Concentration (mins)</td><td>30</td><td>Min Vel for Auto Design only (m/s)</td><td>1.00</td></tr><tr><td>Foul Sewage (l/s/ha)</td><td>0.000</td><td>Min Slope for Optimisation (1:X)</td><td>500</td></tr></table> Designed with Level Soffits			Return Period (years)	2	Volumetric Runoff Coeff.	0.750			PIMP (%)	100	FEH Rainfall Version	2013	Add Flow / Climate Change (%)	0	Site Location	GB 562797 173610 TQ 62797 73610	Minimum Backdrop Height (m)	0.200	Data Type	Point	Maximum Backdrop Height (m)	1.500	Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	1.200	Maximum Time of Concentration (mins)	30	Min Vel for Auto Design only (m/s)	1.00	Foul Sewage (l/s/ha)	0.000	Min Slope for Optimisation (1:X)	500
Return Period (years)	2	Volumetric Runoff Coeff.	0.750																															
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Network Design Table for Storm « - Indicates pipe capacity < flow <table><tr><td>PN</td><td>Length</td><td>Fall</td><td>Slope</td><td>I.Area</td><td>T.E.</td><td>Base</td><td>k</td><td>HYD</td><td>DIA</td><td>Section Type</td><td>Auto</td></tr><tr><td>(m)</td><td>(m)</td><td>(1:X)</td><td>(ha)</td><td>(mins)</td><td>Flow</td><td>(l/s)</td><td>(mm)</td><td>SECT</td><td>(mm)</td><td></td><td>Design</td></tr></table> Network Results Table			PN	Length	Fall	Slope	I.Area	T.E.	Base	k	HYD	DIA	Section Type	Auto	(m)	(m)	(1:X)	(ha)	(mins)	Flow	(l/s)	(mm)	SECT	(mm)		Design								
PN	Length	Fall	Slope	I.Area	T.E.	Base	k	HYD	DIA	Section Type	Auto																							
(m)	(m)	(1:X)	(ha)	(mins)	Flow	(l/s)	(mm)	SECT	(mm)		Design																							
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<u>Network Design Table for Storm</u> <table><thead><tr><th>PN</th><th>Rain (mm/hr)</th><th>T.C. (mins)</th><th>US/IL (m)</th><th>Σ I</th><th>Area (ha)</th><th>Σ Base Flow (l/s)</th><th>Foul (l/s)</th><th>Add Flow (l/s)</th><th>Vel (m/s)</th><th>Cap (l/s)</th><th>Flow (l/s)</th></tr></thead></table>			PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I	Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I	Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)			
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Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section	Type	Auto Design
S1.000	9.201	0.230	40.0	0.008	6.00	0.0	0.600	o	100	Pipe/Conduit		
S1.001	7.586	0.095	79.9	0.007	0.00	0.0	0.600	o	100	Pipe/Conduit		
S2.000	6.809	0.325	21.0	0.004	6.00	0.0	0.600	o	100	Pipe/Conduit		
S1.002	5.793	0.097	59.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
S1.003	10.654	0.196	54.4	0.015	0.00	0.0	0.600	o	225	Pipe/Conduit		
S3.000	2.642	0.592	4.5	0.002	6.00	0.0	0.600	o	100	Pipe/Conduit		

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
S1.000	50.00	6.13	21.950	0.008	0.0	0.0	0.0	1.22	9.6	1.1
S1.001	50.00	6.27	21.720	0.015	0.0	0.0	0.0	0.86	6.8	2.0
S2.000	50.00	6.07	21.950	0.004	0.0	0.0	0.0	1.69	13.3	0.5
S1.002	50.00	6.37	21.625	0.019	0.0	0.0	0.0	1.00	7.8	2.6
S1.003	50.00	6.47	21.554	0.034	0.0	0.0	0.0	1.78	70.7	4.6
S3.000	50.00	6.01	21.950	0.002	0.0	0.0	0.0	3.69	29.0	0.3

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Manhole Schedules for Storm											
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
SRE1.1	22.700	0.750	Open Manhole	100	S1.000	21.950	100				
SS1	22.700	0.980	Open Manhole	450	S1.001	21.720	100	S1.000	21.720	100	
SRE1.2	22.700	0.750	Open Manhole	100	S2.000	21.950	100				
SJUNCT	22.700	1.075	Junction		S1.002	21.625	100	S1.001	21.625	100	
								S2.000	21.625	100	
SS2	22.700	1.172	Open Manhole	600	S1.003	21.554	225	S1.002	21.528	100	
SRE2.1	22.700	0.750	Open Manhole	100	S3.000	21.950	100				
SJUNCT	22.700	1.342	Junction		S1.004	21.358	225	S1.003	21.358	225	
								S3.000	21.358	100	
SS3	22.705	1.766	Open Manhole	600	S1.005	20.939	225	S1.004	20.939	225	
SRE3.1	22.553	0.882	Open Manhole	100	S4.000	21.671	100				
SJUNCT	22.703	1.774	Junction		S1.006	20.929	225	S1.005	20.929	225	
								S4.000	20.979	100	
SRE4.1	22.737	0.882	Open Manhole	100	S5.000	21.855	100				
SS4	22.725	1.889	Open Manhole	600	S1.007	20.836	225	S1.006	20.836	225	
								S5.000	20.886	100	
SRE5.1	22.604	0.550	Open Manhole	100	S6.000	22.054	100				
SS5	22.678	0.780	Open Manhole	450	S6.001	21.898	150	S6.000	21.898	100	
SRE6.1	22.506	0.750	Open Manhole	100	S7.000	21.756	100				
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MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
SS6	22.703	1.960	Open Manhole	600	S6.002	20.743	225	S6.001	20.743	150	50
SJUNCT	22.725	2.022	Junction		S1.008	20.703	225	S7.000	20.793	100	
								S1.007	20.703	225	
								S6.002	20.703	225	
SRE7.1	22.545	0.845	Open Manhole	100	S8.000	21.700	100				
SRE7.2	22.500	0.845	Open Manhole	100	S9.000	21.655	100				
SS7	22.500	1.006	Open Manhole	450	S8.001	21.494	100	S8.000	21.494	100	
								S9.000	21.544	100	
SRE8.1	22.536	0.845	Open Manhole	100	S10.000	21.691	100				
SS8	22.625	1.311	Open Manhole	450	S8.002	21.314	150	S8.001	21.314	100	
								S10.000	21.364	100	
SRE9.1	23.230	0.750	Open Manhole	100	S11.000	22.480	100				
SRE9.2	22.643	0.750	Open Manhole	100	S12.000	21.893	100				
SS9	22.643	0.848	Open Manhole	450	S11.001	21.795	100	S11.000	21.795	100	
								S12.000	21.845	100	
SRE10.1	23.222	0.750	Open Manhole	100	S13.000	22.472	100				
SS10	22.714	0.750	Open Manhole	450	S13.001	21.964	150	S13.000	21.964	100	
SS11-CP	22.765	2.104	Open Manhole	1200	S1.009	20.661	225	S1.008	20.661	225	
								S8.002	20.736	150	
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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
SS11-CP	-375.801	524.334	-375.801	524.334	Required	
SATT1	-373.751	529.333			No Entry	
SSWP12	-364.619	533.095	-364.619	533.095	Required	
SS13-CP	-368.148	546.821	-368.148	546.821	Required	
S	-368.071	548.942			No Entry	

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<u>PIPELINE SCHEDULES for Storm</u>										
<u>Upstream Manhole</u>										
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W	
S1.000	o	100	SRE1.1	22.700	21.950	0.650	Open Manhole		100	
S1.001	o	100	SS1	22.700	21.720	0.880	Open Manhole		450	
S2.000	o	100	SRE1.2	22.700	21.950	0.650	Open Manhole		100	
S1.002	o	100	SJUNCT	22.700	21.625	0.975	Junction			
S1.003	o	225	SS2	22.700	21.554	0.921	Open Manhole		600	
S3.000	o	100	SRE2.1	22.700	21.950	0.650	Open Manhole		100	
<u>Downstream Manhole</u>										
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W	
S1.000	9.201	40.0	SS1	22.700	21.720	0.880	Open Manhole		450	
S1.001	7.586	79.9	SJUNCT	22.700	21.625	0.975	Junction			
S2.000	6.809	21.0	SJUNCT	22.700	21.625	0.975	Junction			
S1.002	5.793	59.7	SS2	22.700	21.528	1.072	Open Manhole		600	
S1.003	10.654	54.4	SJUNCT	22.700	21.358	1.117	Junction			
S3.000	2.642	4.5	SJUNCT	22.700	21.358	1.242	Junction			
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<u>PIPELINE SCHEDULES for Storm</u>								
<u>Upstream Manhole</u>								
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S1.004	o	225	SJUNCT	22.700	21.358	1.117	Junction	
S1.005	o	225	SS3	22.705	20.939	1.541	Open Manhole	600
S4.000	o	100	SRE3.1	22.553	21.671	0.782	Open Manhole	100
S1.006	o	225	SJUNCT	22.703	20.929	1.549	Junction	
S5.000	o	100	SRE4.1	22.737	21.855	0.782	Open Manhole	100
<u>Downstream Manhole</u>								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S1.004	23.187	55.3	SS3	22.705	20.939	1.541	Open Manhole	600
S1.005	1.119	111.9	SJUNCT	22.703	20.929	1.549	Junction	
S4.000	6.216	9.0	SJUNCT	22.703	20.979	1.624	Junction	
S1.006	11.288	121.4	SS4	22.725	20.836	1.664	Open Manhole	600
S5.000	6.216	6.4	SS4	22.725	20.886	1.739	Open Manhole	600
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<u>PIPELINE SCHEDULES for Storm</u> <u>Upstream Manhole</u> <table><thead><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>S1.007</td><td>o</td><td>225</td><td>SS4</td><td>22.725</td><td>20.836</td><td>1.664</td><td>Open Manhole</td><td>600</td></tr><tr><td>S6.000</td><td>o</td><td>100</td><td>SRE5.1</td><td>22.604</td><td>22.054</td><td>0.450</td><td>Open Manhole</td><td>100</td></tr><tr><td>S6.001</td><td>o</td><td>150</td><td>SS5</td><td>22.678</td><td>21.898</td><td>0.630</td><td>Open Manhole</td><td>450</td></tr><tr><td>S7.000</td><td>o</td><td>100</td><td>SRE6.1</td><td>22.506</td><td>21.756</td><td>0.650</td><td>Open Manhole</td><td>100</td></tr><tr><td>S6.002</td><td>o</td><td>225</td><td>SS6</td><td>22.703</td><td>20.743</td><td>1.735</td><td>Open Manhole</td><td>600</td></tr></tbody></table> <u>Downstream Manhole</u> <table><thead><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>S1.007</td><td>5.640</td><td>42.4</td><td>SJUNCT</td><td>22.725</td><td>20.703</td><td>1.797</td><td>Junction</td><td></td></tr><tr><td>S6.000</td><td>9.311</td><td>59.7</td><td>SS5</td><td>22.678</td><td>21.898</td><td>0.680</td><td>Open Manhole</td><td>450</td></tr><tr><td>S6.001</td><td>17.557</td><td>15.2</td><td>SS6</td><td>22.703</td><td>20.743</td><td>1.810</td><td>Open Manhole</td><td>600</td></tr><tr><td>S7.000</td><td>11.156</td><td>11.6</td><td>SS6</td><td>22.703</td><td>20.793</td><td>1.810</td><td>Open Manhole</td><td>600</td></tr><tr><td>S6.002</td><td>8.188</td><td>204.7</td><td>SJUNCT</td><td>22.725</td><td>20.703</td><td>1.797</td><td>Junction</td><td></td></tr></tbody></table>										PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	S1.007	o	225	SS4	22.725	20.836	1.664	Open Manhole	600	S6.000	o	100	SRE5.1	22.604	22.054	0.450	Open Manhole	100	S6.001	o	150	SS5	22.678	21.898	0.630	Open Manhole	450	S7.000	o	100	SRE6.1	22.506	21.756	0.650	Open Manhole	100	S6.002	o	225	SS6	22.703	20.743	1.735	Open Manhole	600	PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	S1.007	5.640	42.4	SJUNCT	22.725	20.703	1.797	Junction		S6.000	9.311	59.7	SS5	22.678	21.898	0.680	Open Manhole	450	S6.001	17.557	15.2	SS6	22.703	20.743	1.810	Open Manhole	600	S7.000	11.156	11.6	SS6	22.703	20.793	1.810	Open Manhole	600	S6.002	8.188	204.7	SJUNCT	22.725	20.703	1.797	Junction	
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PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W	
S13.000	o	100	SRE10.1	23.222	22.472	0.650	Open Manhole		100	
S13.001	o	150	SS10	22.714	21.964	0.600	Open Manhole		450	
S1.009	o	225	SS11-CP	22.765	20.661	1.879	Open Manhole		1200	
S1.010	o	225	SATT1	22.765	20.651	1.889	Junction			
S1.011	o	100	SSWP12	22.855	20.626	2.129	Open Manhole		600	
S1.012	o	100	SS13-CP	23.628	22.474	1.054	Open Manhole		1200	
<u>Downstream Manhole</u>										
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W	
S13.000	16.151	31.8	SS10	22.714	21.964	0.650	Open Manhole		450	
S13.001	18.963	43.2	SS11-CP	22.765	21.525	1.090	Open Manhole		1200	
S1.009	5.404	540.4	SATT1	22.765	20.651	1.889	Junction			
S1.010	9.877	395.1	SSWP12	22.855	20.626	2.004	Open Manhole		600	
S1.011	14.173	-7.7	SS13-CP	23.628	22.474	1.054	Open Manhole		1200	
S1.012	2.123	40.1	S	23.340	22.421	0.819	Open Manhole		0	
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<u>Online Controls for Storm</u> <u>Pump Manhole: SSWP12, DS/PN: S1.011, Volume (m³): 1.0</u> Invert Level (m) 20.626 Depth (m) Flow (l/s) 0.001 2.0000		
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<u>Storage Structures for Storm</u> <u>Cellular Storage Manhole: SATT1, DS/PN: S1.010</u> Invert Level (m) 20.651 Infiltration Coefficient Side (m/hr) 0.00000 Porosity 0.95 Infiltration Coefficient Base (m/hr) 0.00000 Safety Factor 2.0 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>92.0</td><td>92.0</td><td>1.600</td><td>92.0</td><td>153.4</td><td>1.601</td><td>0.0</td><td>153.4</td></tr></tbody></table>			Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	92.0	92.0	1.600	92.0	153.4	1.601	0.0	153.4
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<u>2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>																			
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<u>30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u> <u>Simulation Criteria</u> Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000 Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800 Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000 Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0 Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0 <u>Synthetic Rainfall Details</u> Rainfall Model FEH Data Type Point FEH Rainfall Version 2013 Cv (Summer) 0.750 Site Location GB 562797 173610 TQ 62797 73610 Cv (Winter) 0.840 Margin for Flood Risk Warning (mm) 300.0 DVD Status ON Analysis Timestep 2.5 Second Increment (Extended) Inertia Status ON DTS Status ON Profile(s) Summer and Winter Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440 Return Period(s) (years) 2, 30, 100 Climate Change (%) 0, 0, 20 WARNING: Half Drain Time has not been calculated as the structure is too full.		
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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm														
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
S1.000	SRE1.1	15 Winter	30	+0%	100/15 Summer				21.990	-0.060	0.000	0.34		
S1.001	SS1	15 Winter	30	+0%	100/15 Summer				21.811	-0.009	0.000	0.97		
S2.000	SRE1.2	15 Winter	30	+0%	100/15 Winter				21.974	-0.076	0.000	0.13		
S1.002	SJUNCT	15 Winter	30	+0%					21.717	-0.008	0.000	0.96		
S1.003	SS2	15 Winter	30	+0%	100/15 Summer				21.628	-0.151	0.000	0.23		
S3.000	SRE2.1	15 Winter	30	+0%					21.962	-0.088	0.000	0.04		
S1.004	SJUNCT	15 Winter	30	+0%					21.443	-0.140	0.000	0.30		
S1.005	SS3	15 Winter	30	+0%	30/15 Summer				21.386	0.222	0.000	0.62		
S4.000	SRE3.1	15 Winter	30	+0%	100/15 Summer				21.694	-0.077	0.000	0.13		
S1.006	SJUNCT	15 Summer	30	+0%					21.154	0.000	0.000	0.50		
S5.000	SRE4.1	15 Winter	30	+0%	100/360 Winter				21.880	-0.075	0.000	0.14		
S1.007	SS4	240 Winter	30	+0%	30/15 Summer				21.364	0.303	0.000	0.09		
S6.000	SRE5.1	15 Winter	30	+0%					22.106	-0.048	0.000	0.53		
S6.001	SS5	15 Winter	30	+0%					21.957	-0.091	0.000	0.32		
S7.000	SRE6.1	15 Winter	30	+0%	100/240 Winter				21.770	-0.086	0.000	0.05		
S6.002	SS6	240 Winter	30	+0%	30/15 Summer				21.364	0.396	0.000	0.10		
S1.008	SJUNCT	15 Summer	30	+0%					20.928	0.000	0.000	1.34		
S8.000	SRE7.1	15 Winter	30	+0%	30/15 Summer				21.924	0.124	0.000	1.02		
S9.000	SRE7.2	15 Winter	30	+0%	100/15 Summer				21.717	-0.038	0.000	0.28		
S8.001	SS7	15 Winter	30	+0%	30/15 Summer				21.705	0.111	0.000	1.27		
S10.000	SRE8.1	15 Winter	30	+0%	100/15 Winter				21.718	-0.073	0.000	0.16		
S8.002	SS8	15 Winter	30	+0%	100/15 Summer				21.396	-0.068	0.000	0.56		
S11.000	SRE9.1	15 Winter	30	+0%	100/15 Summer				22.542	-0.038	0.000	0.70		
S12.000	SRE9.2	15 Winter	30	+0%	100/15 Summer				21.914	-0.079	0.000	0.00		
S11.001	SS9	15 Winter	30	+0%	30/15 Summer				21.914	0.019	0.000	1.15		
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<u>30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u> <table><thead><tr><th>PN</th><th>US/MH Name</th><th>Pipe Flow (l/s)</th><th>Status</th><th>Level Exceeded</th></tr></thead><tbody><tr><td>S11.001</td><td>SS9</td><td>8.4</td><td>SURCHARGED</td><td></td></tr></tbody></table>				PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded	S11.001	SS9	8.4	SURCHARGED	
PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded									
S11.001	SS9	8.4	SURCHARGED										
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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

									Water	Surcharged	Flooded	Half Drain		
	US/MH		Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Level	Depth	Volume	Flow /	Overflow	Time
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	(m)	(m)	(m³)	Cap.	(l/s)	(mins)
S13.000	SRE10.1	15 Winter	30	+0%					22.516	-0.056	0.000	0.41		
S13.001	SS10	15 Winter	30	+0%					22.029	-0.085	0.000	0.39		
S1.009	SS11-CP	240 Winter	30	+0%	2/15 Summer				21.362	0.476	0.000	0.65		
S1.010	SATT1	240 Winter	30	+0%	2/120 Winter				21.360	0.484	0.000	0.10		
S1.011	SSWP12	360 Winter	30	+0%	2/15 Summer				21.501	0.775	0.000	0.97		
S1.012	SS13-CP	15 Winter	30	+0%					22.512	-0.062	0.000	0.31		

PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
S13.000	SRE10.1	4.2		OK
S13.001	SS10	9.8		OK
S1.009	SS11-CP	15.2	SURCHARGED	
S1.010	SATT1	2.4	SURCHARGED*	
S1.011	SSWP12	2.0	SURCHARGED	
S1.012	SS13-CP	2.0		OK

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<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u> <u>Simulation Criteria</u> Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000 Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800 Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000 Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0 Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0 <u>Synthetic Rainfall Details</u> Rainfall Model FEH Data Type Point FEH Rainfall Version 2013 Cv (Summer) 0.750 Site Location GB 562797 173610 TQ 62797 73610 Cv (Winter) 0.840 Margin for Flood Risk Warning (mm) 300.0 DVD Status ON Analysis Timestep 2.5 Second Increment (Extended) Inertia Status ON DTS Status ON Profile(s) Summer and Winter Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440 Return Period(s) (years) 2, 30, 100 Climate Change (%) 0, 0, 20 WARNING: Half Drain Time has not been calculated as the structure is too full.		
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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

								Water Surcharged Flooded					Half Drain Pipe			
US/MH		Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Level	Depth	Volume	Flow /	Overflow	Time	Flow		
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	(m)	(m)	(m³)	Cap.	(l/s)	(mins)	(l/s)	Status

PN	US/MH	Level	Name	Exceeded
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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm														
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
S1.000	SRE1.1	15 Winter	100	+20%	100/15 Summer				22.300	0.250	0.000	0.49		
S1.001	SS1	15 Winter	100	+20%	100/15 Summer				22.246	0.426	0.000	1.37		
S2.000	SRE1.2	15 Winter	100	+20%	100/15 Winter				22.132	0.082	0.000	0.20		
S1.002	SJUNCT	15 Summer	100	+20%					21.725	0.000	0.000	1.26		
S1.003	SS2	15 Winter	100	+20%	100/15 Summer				21.981	0.202	0.000	0.31		
S3.000	SRE2.1	360 Winter	100	+20%					21.972	-0.078	0.000	0.01		
S1.004	SJUNCT	15 Summer	100	+20%					21.583	0.000	0.000	0.36		
S1.005	SS3	360 Winter	100	+20%	30/15 Summer				21.971	0.807	0.000	0.15		
S4.000	SRE3.1	360 Winter	100	+20%	100/15 Summer				21.971	0.200	0.000	0.03		
S1.006	SJUNCT	15 Summer	100	+20%					21.154	0.000	0.000	0.61		
S5.000	SRE4.1	360 Winter	100	+20%	100/360 Winter				21.971	0.016	0.000	0.04		
S1.007	SS4	360 Winter	100	+20%	30/15 Summer				21.971	0.910	0.000	0.11		
S6.000	SRE5.1	15 Winter	100	+20%					22.124	-0.030	0.000	0.83		
S6.001	SS5	15 Winter	100	+20%					21.975	-0.073	0.000	0.51		
S7.000	SRE6.1	360 Winter	100	+20%	100/240 Winter				21.971	0.115	0.000	0.01		
S6.002	SS6	360 Winter	100	+20%	30/15 Summer				21.971	1.003	0.000	0.12		
S1.008	SJUNCT	15 Summer	100	+20%					20.928	0.000	0.000	1.80		
S8.000	SRE7.1	15 Winter	100	+20%	30/15 Summer				22.541	0.741	0.000	1.53		
S9.000	SRE7.2	15 Winter	100	+20%	100/15 Summer				22.330	0.575	0.000	0.44		
S8.001	SS7	15 Winter	100	+20%	30/15 Summer				22.309	0.715	0.000	1.63		
S10.000	SRE8.1	360 Winter	100	+20%	100/15 Winter				21.971	0.180	0.000	0.04		
S8.002	SS8	360 Winter	100	+20%	100/15 Summer				21.971	0.507	0.000	0.14		
S11.000	SRE9.1	15 Winter	100	+20%	100/15 Summer				22.796	0.216	0.000	1.05		
S12.000	SRE9.2	15 Winter	100	+20%	100/15 Summer				22.027	0.034	0.000	0.00		
S11.001	SS9	15 Winter	100	+20%	30/15 Summer				22.027	0.132	0.000	1.72		
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S1.001	SS1	8.4	SURCHARGED	
S2.000	SRE1.2	2.4	SURCHARGED	
S1.002	SJUNCT	9.9	SURCHARGED*	
S1.003	SS2	18.5	SURCHARGED	
S3.000	SRE2.1	0.2	OK	
S1.004	SJUNCT	25.4	SURCHARGED*	
S1.005	SS3	4.4	SURCHARGED	
S4.000	SRE3.1	0.6	SURCHARGED	
S1.006	SJUNCT	26.0	SURCHARGED*	
S5.000	SRE4.1	0.8	SURCHARGED	
S1.007	SS4	5.7	SURCHARGED	
S6.000	SRE5.1	6.0	OK	
S6.001	SS5	21.9	OK	
S7.000	SRE6.1	0.2	SURCHARGED	
S6.002	SS6	3.6	SURCHARGED	
S1.008	SJUNCT	53.7	SURCHARGED*	
S8.000	SRE7.1	9.9	FLOOD RISK	
S9.000	SRE7.2	3.5	FLOOD RISK	
S8.001	SS7	12.9	FLOOD RISK	
S10.000	SRE8.1	0.5	SURCHARGED	
S8.002	SS8	4.5	SURCHARGED	
S11.000	SRE9.1	12.6	SURCHARGED	
S12.000	SRE9.2	0.0	SURCHARGED	
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S11.001	SS9	12.6	SURCHARGED										
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