PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S1.000	o	225	SDUMMY 15-1-1	83.527	79.500	3.802	Open Manhole	1200
S1.001	o	225	S15-1	83.268	79.300	3.743	Open Manhole	1200
S1.002	o	225	S15	82.636	79.136	3.275	Open Manhole	1200
S1.003	o	225	S14	78.740	75.284	3.231	Open Manhole	1200
S1.004	o	225	S13	77.269	74.672	2.372	Open Manhole	1200
S1.005	o	225	S12	75.655	73.222	2.208	Open Manhole	1200
S1.006	o	225	S11	73.762	70.000	3.537	Open Manhole	1200
S1.007	o	225	S10	70.806	67.920	2.661	Open Manhole	1200
S1.008	o	225	S9	69.762	67.500	2.037	Open Manhole	1200
S1.009	o	225	S8	68.734	64.782	3.727	Open Manhole	1200
S2.000	o	225	SDUMMY 7-1-1	68.283	64.000	4.058	Open Manhole	1200
S2.001	o	225	S7-1	67.454	63.454	3.775	Open Manhole	1200
S1.010	o	225	S7	66.240	61.289	4.726	Open Manhole	1200
S1.011	o	225	S6	59.621	57.536	1.860	Open Manhole	1200
S1.012	o	300	S5	57.971	56.123	1.548	Open Manhole	1200
S1.013	o	900	S4	57.500	55.823	0.777	Open Manhole	1800
S1.014	o	225	S3	57.024	55.700	1.099	Open Manhole	1800
S1.015	o	225	S2	57.482	55.569	1.688	Open Manhole	1200
S1.016	o	225	S1	56.500	53.036	3.239	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S1.000	12.000	60.0	S15-1	83.268	79.300	3.743	Open Manhole	1200
S1.001	12.000	73.2	S15	82.636	79.136	3.275	Open Manhole	1200
S1.002	55.552	25.3	S14	78.740	76.936	1.579	Open Manhole	1200
S1.003	18.381	30.0	S13	77.269	74.671	2.373	Open Manhole	1200
S1.004	20.644	25.8	S12	75.655	73.872	1.558	Open Manhole	1200
S1.005	57.196	30.0	S11	73.762	71.315	2.222	Open Manhole	1200
S1.006	57.196	40.0	S10	70.806	68.570	2.011	Open Manhole	1200
S1.007	12.612	30.0	S9	69.762	67.500	2.037	Open Manhole	1200
S1.008	12.531	30.0	S8	68.734	67.082	1.427	Open Manhole	1200
S1.009	30.897	22.9	S7	66.240	63.433	2.582	Open Manhole	1200
S2.000	15.000	27.5	S7-1	67.454	63.454	3.775	Open Manhole	1200
S2.001	15.000	25.0	S7	66.240	62.854	3.161	Open Manhole	1200
S1.010	82.563	22.0	S6	59.621	57.536	1.860	Open Manhole	1200
S1.011	23.620	23.0	S5	57.971	56.509	1.237	Open Manhole	1200
S1.012	15.458	51.5	S4	57.500	55.823	1.377	Open Manhole	1800
S1.013	18.750	152.4	S3	57.024	55.700	0.424	Open Manhole	1800
S1.014	2.877	22.0	S2	57.482	55.569	1.688	Open Manhole	1200
S1.015	5.118	22.0	S1	56.500	55.336	0.939	Open Manhole	1200
S1.016	11.643	46.6	S	55.220	52.786	2.209	Open Manhole	0

Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.000	0.000	0.000
1.001	-	-	100	0.000	0.000	0.000
1.002	-	-	100	0.037	0.037	0.037
1.003	-	-	100	0.035	0.035	0.035
1.004	-	-	100	0.035	0.035	0.035
1.005	-	-	100	0.035	0.035	0.035
1.006	-	-	100	0.035	0.035	0.035
1.007	-	-	100	0.035	0.035	0.035
1.008	-	-	100	0.035	0.035	0.035
1.009	-	-	100	0.035	0.035	0.035
2.000	-	-	100	0.000	0.000	0.000
2.001	-	-	100	0.000	0.000	0.000
1.010	-	-	100	0.035	0.035	0.035
1.011	-	-	100	0.035	0.035	0.035
1.012	-	-	100	0.037	0.037	0.037
1.013	-	-	100	0.000	0.000	0.000
1.014	-	-	100	0.000	0.000	0.000
1.015	-	-	100	0.000	0.000	0.000
1.016	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.389	0.389	0.389

Network Classifications for Storm

PN	USMH Name	Pipe Dia (mm)	Min Cover Depth (m)	Max Cover Depth (m)	Pipe Type	MH Dia (mm)	MH Width (mm)	MH Ring Depth (m)	MH Type
S1.000	SDUMMY 15-1-1	225	3.743	3.802	Unclassified	1200	0	3.802	Unclassified
S1.001	S15-1	225	3.275	3.743	Unclassified	1200	0	3.743	Unclassified
S1.002	S15	225	1.579	3.275	Unclassified	1200	0	3.275	Unclassified
S1.003	S14	225	2.373	3.231	Unclassified	1200	0	3.231	Unclassified
S1.004	S13	225	1.558	2.372	Unclassified	1200	0	2.372	Unclassified
S1.005	S12	225	1.840	2.222	Unclassified	1200	0	2.208	Unclassified
S1.006	S11	225	2.011	3.537	Unclassified	1200	0	3.537	Unclassified
S1.007	S10	225	2.037	2.661	Unclassified	1200	0	2.661	Unclassified
S1.008	S9	225	1.427	2.037	Unclassified	1200	0	2.037	Unclassified
S1.009	S8	225	2.582	3.727	Unclassified	1200	0	3.727	Unclassified
S2.000	SDUMMY 7-1-1	225	3.775	4.058	Unclassified	1200	0	4.058	Unclassified
S2.001	S7-1	225	3.161	3.775	Unclassified	1200	0	3.775	Unclassified
S1.010	S7	225	1.860	4.726	Unclassified	1200	0	4.726	Unclassified
S1.011	S6	225	1.237	1.860	Unclassified	1200	0	1.860	Unclassified
S1.012	S5	300	1.181	1.778	Unclassified	1200	0	1.548	Unclassified
S1.013	S4	900	0.424	0.777	Unclassified	1800	0	0.777	Unclassified
S1.014	S3	225	1.099	1.722	Unclassified	1800	0	1.099	Unclassified
S1.015	S2	225	0.736	1.688	Unclassified	1200	0	1.688	Unclassified
S1.016	S1	225	1.173	3.239	Unclassified	1200	0	3.239	Unclassified

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
S1.016	S	55.220	52.786	0.000	0	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	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	0
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	Ratio R	0.271
Return Period (years)	2	Profile Type	Summer
Region	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	16.100	Cv (Winter)	0.840

Synthetic Rainfall Details

Storm Duration (mins) 30

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

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	0
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	Ratio R	0.271
Region	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	16.100	Cv (Winter)	0.830

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

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)	1, 30, 100
Climate Change (%)	20, 20, 20

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
S1.000	SDUMMY 15-1-1	120 Summer	1	+20%				
S1.001	S15-1	15 Summer	1	+20%				
S1.002	S15	15 Winter	1	+20%				
S1.003	S14	15 Winter	1	+20%				
S1.004	S13	15 Winter	1	+20%				
S1.005	S12	15 Winter	1	+20%				
S1.006	S11	15 Winter	1	+20%	100/15 Summer			
S1.007	S10	15 Winter	1	+20%	100/15 Summer			
S1.008	S9	15 Winter	1	+20%	30/15 Summer			
S1.009	S8	15 Winter	1	+20%	100/15 Summer			
S2.000	SDUMMY 7-1-1	15 Summer	1	+20%				
S2.001	S7-1	120 Winter	1	+20%				
S1.010	S7	15 Winter	1	+20%	30/15 Summer			
S1.011	S6	15 Winter	1	+20%	30/15 Summer			
S1.012	S5	15 Winter	1	+20%	30/15 Summer			
S1.013	S4	15 Winter	1	+20%	100/15 Summer			
S1.014	S3	15 Winter	1	+20%	1/15 Summer			
S1.015	S2	15 Winter	1	+20%	30/15 Summer			
S1.016	S1	15 Winter	1	+20%	30/15 Summer			