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Brindley Lodge Adcroft Street, Stockport Cheshire, SK1 3HS	LSHTM Tavistock Place Proposed SW drainage system	
Date 22-Mar-19 2:38 PM File PR_SW_28L-S_30CC_1M-SUR...	Designed by EMT Checked by RLG	
Innovyze	Network 2018.1.1	

Summary Wizard of 360 minute 100 year Summer I+30% 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 Coefficient 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 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

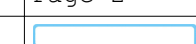
Rainfall Model FSR Ratio R 0.438
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 20.800 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

Profile(s) Summer and Winter
 Duration(s) (mins) 360
 Return Period(s) (years) 100
 Climate Change (%) 30

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	1	360 minute 100 year Summer I+30%	23.765	22.085	-0.140	0.000	0.31
1.001	1	360 minute 100 year Summer I+30%	23.600	20.472	-0.188	0.000	0.24
1.002	2	360 minute 100 year Summer I+30%	23.270	20.455	0.005	0.000	1.23
1.003	3	360 minute 100 year Summer I+30%	23.270	22.117	-0.103	0.000	0.21
2.000	5	360 minute 100 year Summer I+30%	23.750	21.660	-0.120	0.000	0.09
2.001	4	360 minute 100 year Summer I+30%	23.760	21.614	-0.121	0.000	0.08
1.004	5	360 minute 100 year Summer I+30%	23.240	21.353	0.141	0.000	0.25
1.005	6	360 minute 100 year Summer I+30%	21.500	21.334	0.389	0.000	0.29
1.006	7	360 minute 100 year Summer I+30%	21.500	21.293	0.808	0.000	0.97

PN	US/MH Name	Pipe Overflow (l/s)	Discharge Vol (m³)	Flow (l/s)	Status
1.000	1		80.902	14.7	OK
1.001	1		80.902	14.7	OK
1.002	2		80.902	13.0	SURCHARGED
1.003	3		80.902	13.0	OK
2.000	5		6.083	1.1	OK

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US/MH Overflow Discharge			Pipe		
PN	Name	(l/s)	Vol (m³)	(l/s)	Status
2.001	4		16.424	3.0	OK
1.004	5		106.856	17.9	SURCHARGED
1.005	6		161.112	28.0	FLOOD RISK
1.006	7		159.758	28.0	FLOOD RISK

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Summary Wizard of 360 minute 100 year Winter I+30% 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 Coefficient 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

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 Number of Online Controls 1 Number of Time/Area Diagrams 0
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Synthetic Rainfall Details

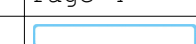
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Profile(s) Summer and Winter
 Duration(s) (mins) 360
 Return Period(s) (years) 100
 Climate Change (%) 30

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	1	360 minute 100 year Winter I+30%	23.765	22.071	-0.154	0.000	0.22
1.001	1	360 minute 100 year Winter I+30%	23.600	20.443	-0.217	0.000	0.17
1.002	2	360 minute 100 year Winter I+30%	23.270	20.382	-0.068	0.000	1.00
1.003	3	360 minute 100 year Winter I+30%	23.270	22.112	-0.108	0.000	0.17
2.000	5	360 minute 100 year Winter I+30%	23.750	21.655	-0.125	0.000	0.06
2.001	4	360 minute 100 year Winter I+30%	23.760	21.609	-0.126	0.000	0.06
1.004	5	360 minute 100 year Winter I+30%	23.240	21.314	0.102	0.000	0.19
1.005	6	360 minute 100 year Winter I+30%	21.500	21.299	0.354	0.000	0.23
1.006	7	360 minute 100 year Winter I+30%	21.500	21.275	0.790	0.000	0.75

PN	US/MH Name	Pipe Overflow (l/s)	Discharge Vol (m³)	Flow (l/s)	Status
1.000	1		90.610	10.6	OK
1.001	1		90.610	10.6	OK
1.002	2		90.610	10.6	OK
1.003	3		90.610	10.6	OK
2.000	5		6.813	0.8	OK

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Summary Wizard of 360 minute 100 year Winter I+30% for Storm

US/MH Overflow Discharge			Pipe		
PN	Name	(l/s)	Vol (m³)	(l/s)	Status
2.001	4		18.394	2.2	OK
1.004	5		119.776	14.1	SURCHARGED
1.005	6		180.820	21.5	FLOOD RISK
1.006	7		179.467	21.5	FLOOD RISK