

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Node Type	Depth (m)	Invert Level (m)
RP01	0.003	5.00	13.500	Junction	0.500	13.000
SAC01	0.003	5.00	13.350	Manhole	0.519	12.831
PPCP01	0.007	5.00	13.250	Manhole	0.860	12.390
RWP	0.005	5.00	13.350	Junction	0.500	12.850
Soakaway			13.200	Junction	0.600	12.600

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)
1.000	RP01	SAC01	13.510	0.600	13.000	12.831	0.169	79.9	100
1.001	SAC01	PPCP01	5.910	0.600	12.831	12.740	0.091	64.9	100
2.000	RWP	PPCP01	5.880	0.600	12.850	12.740	0.110	53.5	100
1.002	PPCP01	Soakaway	1.072	0.600	12.690	12.600	0.090	11.9	100

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	Σ Area (ha)
1.000	0.861	6.8	0.8	0.003
1.001	0.957	7.5	1.6	0.006
2.000	1.056	8.3	1.3	0.005
1.002	2.251	17.7	4.7	0.018

Simulation Settings

Rainfall Methodology	FEH-22	Winter CV	1.000	Drain Down Time (mins)	1140	Check Discharge Rate(s)	x
Rainfall Events	Singular	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0	Check Discharge Volume	x
Summer CV	1.000	Skip Steady State	x	Starting Level (m)			

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440 | 2160 | 2880 | 4320 | 5760 | 7200

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0	30	40	0	0
10	0	0	0	100	45	0	0

Node Soakaway Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.05650	Porosity	0.95	Pit Width (m)	5.500	Inf Depth (m)	0.250
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	12.350	Pit Length (m)	7.000	Number Required	1
Safety Factor	3.0	Time to half empty (mins)	605	Depth (m)	0.400		

Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	RP01	11	13.017	0.017	0.4	0.0000	0.0000	OK
15 minute summer	SAC01	11	12.854	0.023	0.8	0.0016	0.0000	OK
15 minute summer	PPCP01	10	12.717	0.027	2.3	0.0075	0.0000	OK
15 minute summer	RWP	11	12.868	0.018	0.6	0.0000	0.0000	OK
360 minute winter	Soakaway	248	12.404	-0.196	0.5	1.9791	0.0000	OK

US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)
RP01	1.000	SAC01	0.4	0.370
SAC01	1.001	PPCP01	0.8	0.612
PPCP01	1.002	Soakaway	2.3	1.455
RWP	2.000	PPCP01	0.6	0.610
Soakaway	Infiltration		0.2	

Results for 10 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	RP01	10	13.027	0.027	1.1	0.0000	0.0000	OK
15 minute summer	SAC01	10	12.870	0.039	2.2	0.0027	0.0000	OK
15 minute summer	PPCP01	10	12.739	0.049	6.5	0.0138	0.0000	OK
15 minute summer	RWP	10	12.882	0.032	1.8	0.0000	0.0000	OK
240 minute winter	Soakaway	208	12.495	-0.106	1.3	5.2849	0.0000	OK

US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)
RP01	1.000	SAC01	1.1	0.483
SAC01	1.001	PPCP01	2.1	0.796
PPCP01	1.002	Soakaway	6.5	1.878
RWP	2.000	PPCP01	1.8	0.829
Soakaway	Infiltration		0.2	

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	RP01	10	13.037	0.037	2.0	0.0000	0.0000	OK
15 minute summer	SAC01	10	12.887	0.056	4.0	0.0039	0.0000	OK
15 minute summer	PPCP01	10	12.764	0.074	11.9	0.0209	0.0000	OK
15 minute summer	RWP	10	12.895	0.045	3.3	0.0000	0.0000	OK
240 minute summer	Soakaway	240	12.650	0.050	3.4	10.9652	0.0000	OK

US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)
RP01	1.000	SAC01	2.0	0.559
SAC01	1.001	PPCP01	3.9	0.924
PPCP01	1.002	Soakaway	11.9	2.128
RWP	2.000	PPCP01	3.3	0.974
Soakaway	Infiltration		0.2	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	RP01	10	13.043	0.043	2.6	0.0000	0.0000	OK
15 minute summer	SAC01	10	12.898	0.067	5.2	0.0047	0.0000	OK
360 minute winter	PPCP01	352	12.823	0.133	2.2	0.0376	0.0000	SURCHARGED
15 minute summer	RWP	10	12.903	0.053	4.3	0.0000	0.0000	OK
360 minute winter	Soakaway	352	12.823	0.223	2.3	14.6483	0.0000	OK

US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)
RP01	1.000	SAC01	2.6	0.590
SAC01	1.001	PPCP01	5.1	0.978
PPCP01	1.002	Soakaway	2.3	1.440
RWP	2.000	PPCP01	4.3	1.038
Soakaway	Infiltration		0.2	