

Project: AEG02318 367 Wilmslow Road, Manchester, M14 6AH Proposed Network	Date: 11/05/2023			
Report Details: Type: Inflows Storm Phase: Phase	Designed by: OH	Checked by:	Approved By:	
Company Address: Aegaea				



House Roof Areas

Type : Catchment Area

Area (ha)	0.012
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Apartment Roof Area

Type : Catchment Area

Area (ha)	0.024
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Access Road and Car Parking

Type : Catchment Area

Area (ha)	0.023
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: AEG02318 367 Wilmslow Road, Manchester, M14 6AH Proposed Network		Date: 11/05/2023			
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Porous Paving

Type : Porous Paving

Dimensions

Exceedance Level (m)	39.000
Depth (m)	0.500
Base Level (m)	38.500
Paving Layer Depth (mm)	100
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	20.000
Long. Slope (1:X)	1000.00
Width (m)	13.000
Total Volume (m³)	31.200

Inlets

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	Apartment Roof Area House Roof Areas
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Lateral Inflow
Incoming Item(s)	Access Road and Car Parking
Bypass Destination	(None)
Capacity Type	No Restriction

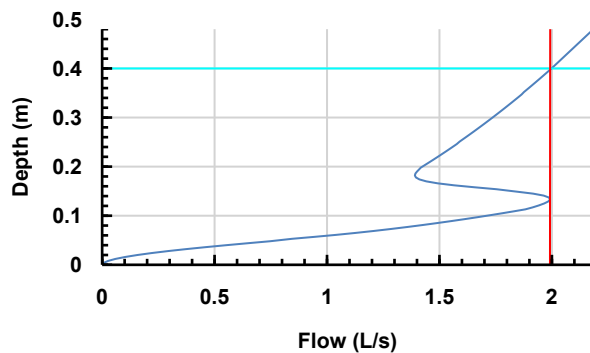
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Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	38.500
Design Depth (m)	0.400
Design Flow (L/s)	2.0
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0075-2000-0400-2000
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Advanced

Conductivity (m/hr)	750.0
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Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Access Road and Car Parking	Porous Paving		Time of Concentration	0.023	100	10	110	0.026
Apartment Roof Area	Porous Paving		Time of Concentration	0.024	100	10	110	0.026
House Roof Areas	Porous Paving		Time of Concentration	0.012	100	10	110	0.013
TOTAL		0.0		0.059				0.065

Project: AEG02318 367 Wilmslow Road, Manchester, M14 6AH Proposed Network		Date: 11/05/2023			
Report Details: Type: Outfall Details Storm Phase: Phase		Designed by: OH	Checked by:		Approved By:
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Outfalls

Outfall	Outfall Type	Fixed Surcharged Level (m)	Level Curve
Porous Paving	Free Discharge		

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Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	10
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

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Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address: Aegaea			



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Porous Paving	FSR: 1 years: +0 %: 480 mins: Summer	38.627	38.546	0.107	0.046	1.8	6.406	0.000	0.000	0.7	11.271	79.469	OK

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FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Porous Paving	FSR: 2 years: +0 %: 360 mins: Summer	38.646	38.557	0.126	0.057	2.6	7.625	0.000	0.000	0.9	12.249	75.561	OK

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FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Porous Paving	FSR: 30 years: +0 %: 240 mins: Summer	38.733	38.616	0.213	0.116	6.2	13.525	0.000	0.000	1.9	20.129	56.649	OK

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FSR: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Porous Paving	FSR: 30 years: +40 %: 240 mins: Summer	38.814	38.737	0.294	0.237	8.7	21.035	0.000	0.000	2.0	28.366	32.580	OK

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FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Porous Paving	FSR: 100 years: +0 %: 240 mins: Summer	38.795	38.713	0.275	0.213	8.1	19.392	0.000	0.000	2.0	26.528	37.846	OK

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**FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By:
Max. Resident Volume**

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Porous Paving	FSR: 100 years: +45 %: 240 mins: Summer	38.920	38.857	0.400	0.357	11.8	29.790	0.000	0.000	2.0	38.067	4.518	OK

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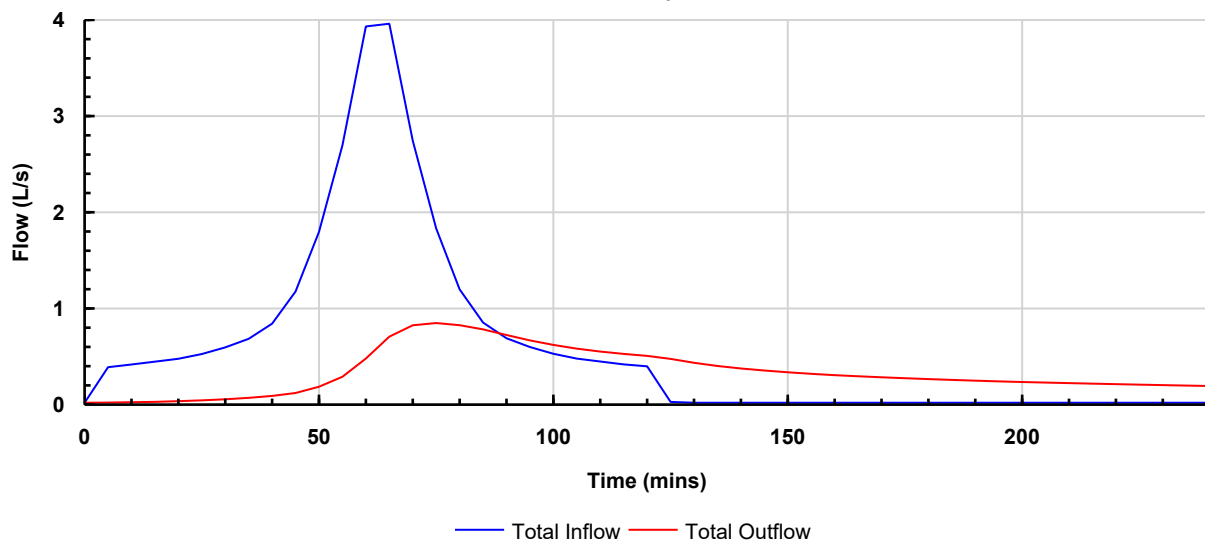

Phase
 FSR: 1 years: Increase Rainfall (%): +0: 120 mins: Summer

Tables

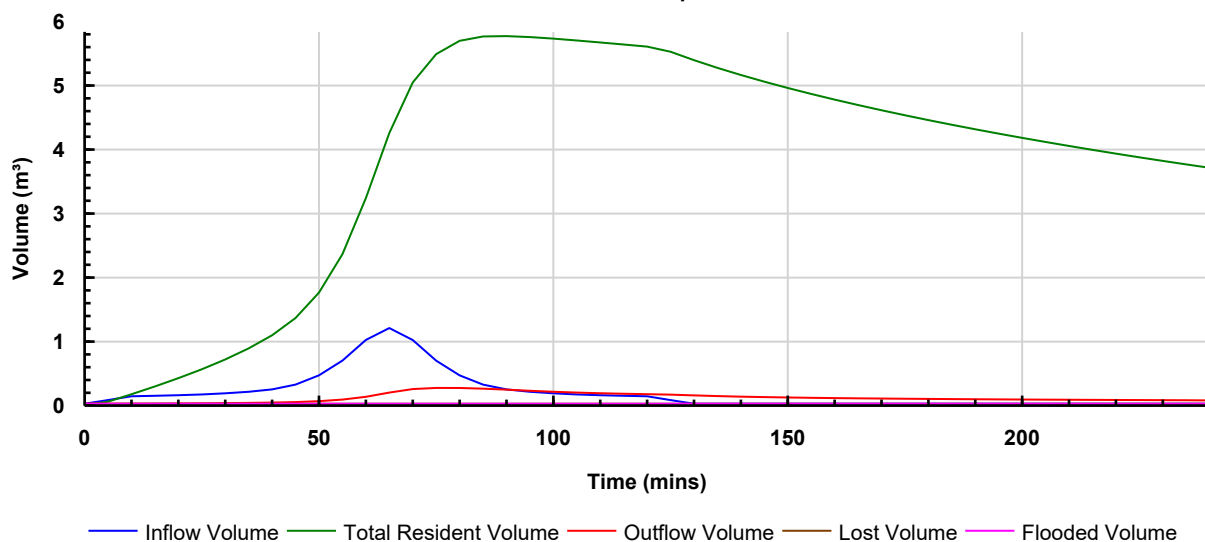
Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Porous Paving			0.8	4.637
TOTAL	4.0	8.340	0.8	4.637

Graphs

Flow Graph



Volume Graph



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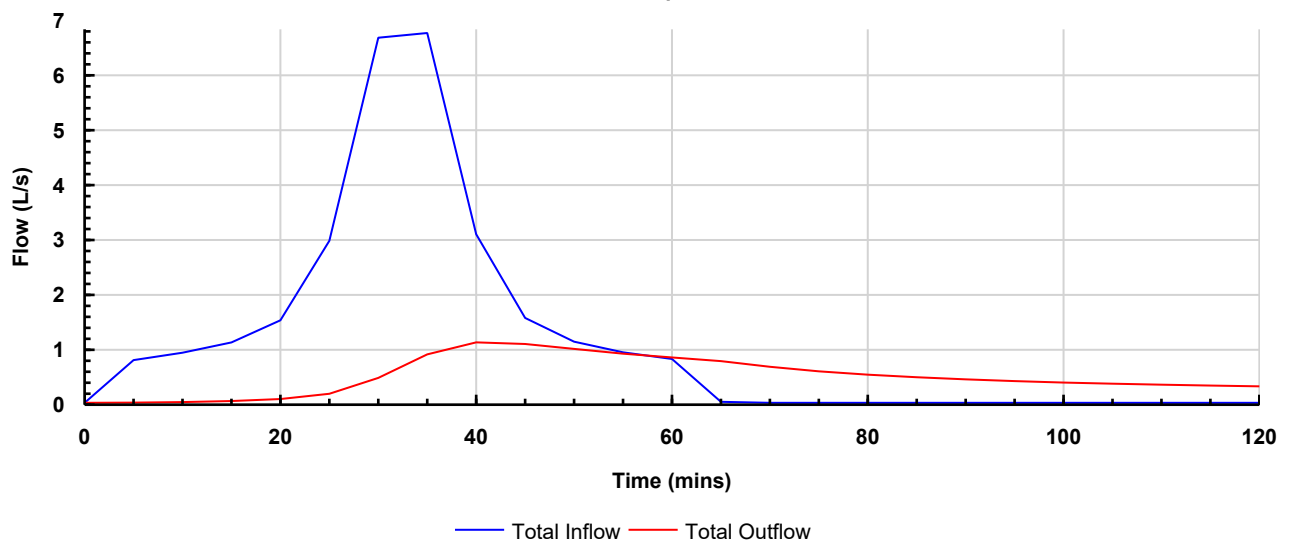

Phase
 FSR: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Tables

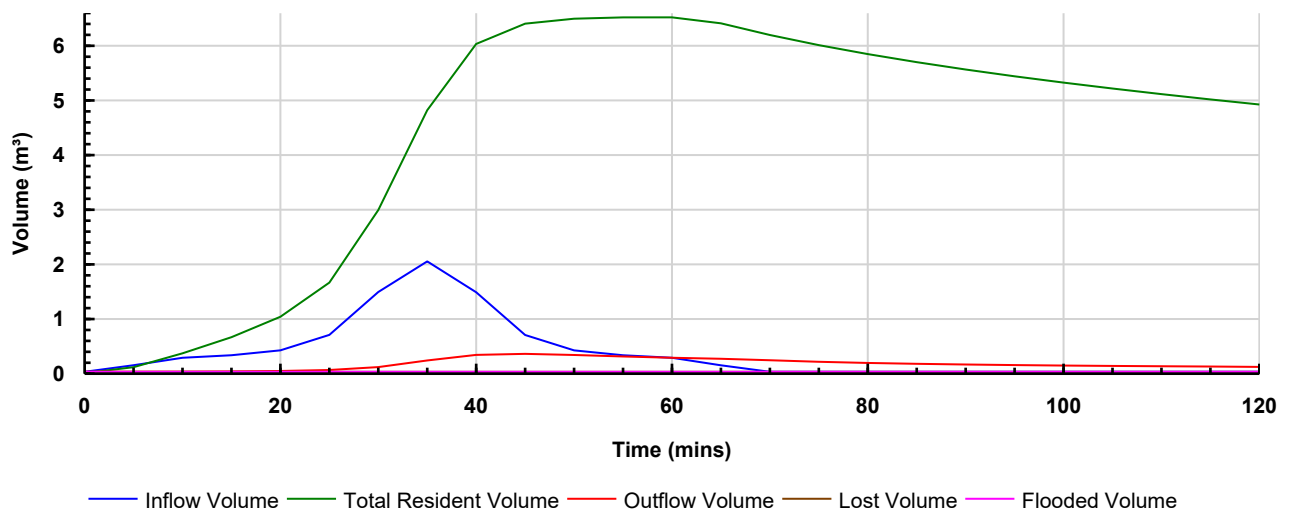
Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Porous Paving			1.1	3.559
TOTAL	6.8	8.472	1.1	3.559

Graphs

Flow Graph



Volume Graph



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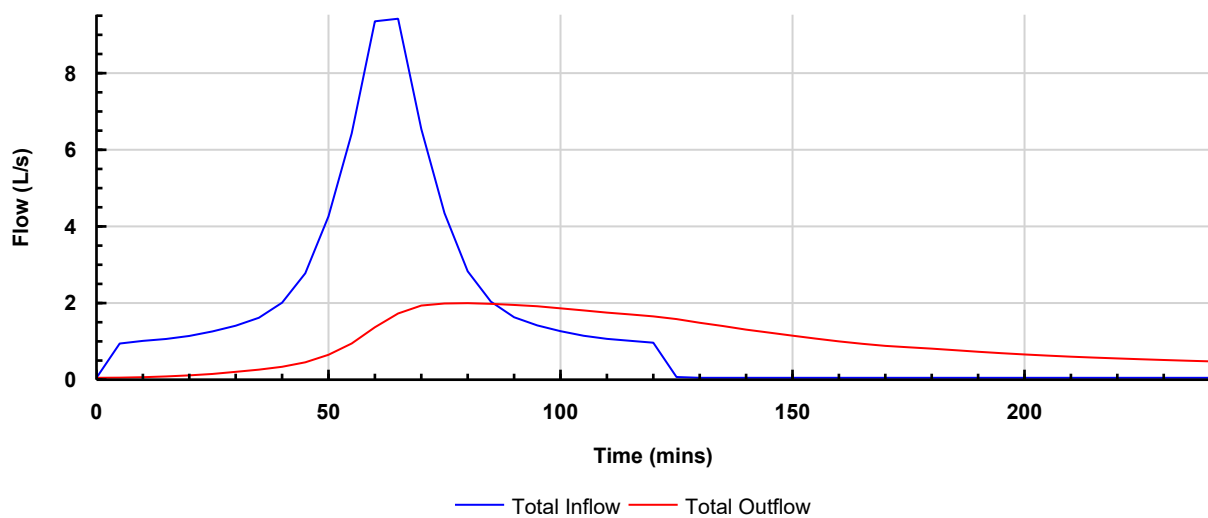

Phase
FSR: 30 years: Increase Rainfall (%): +0: 120 mins: Summer

Tables

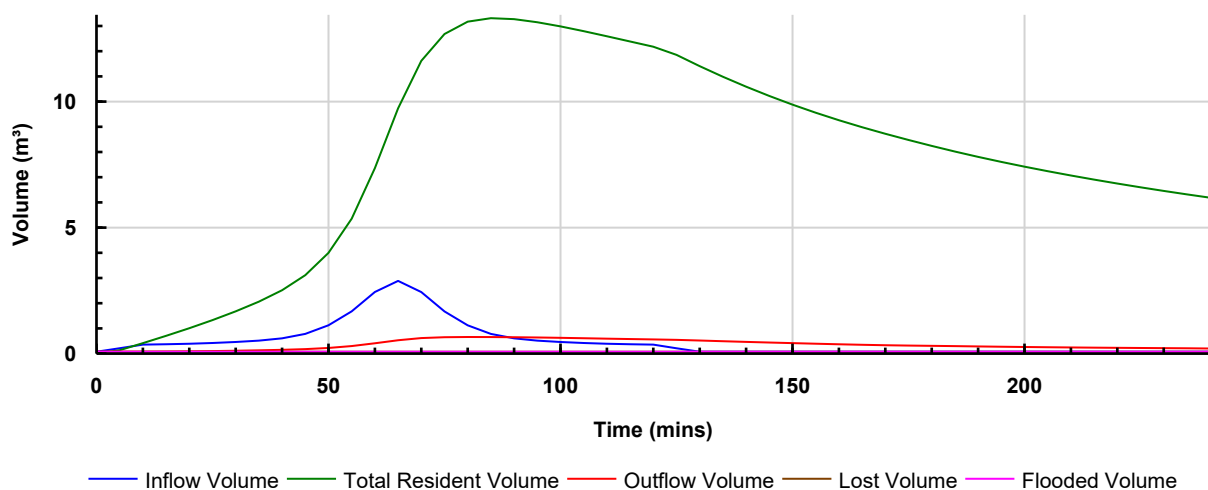
Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Porous Paving			2.0	13.670
TOTAL	9.4	19.842	2.0	13.670

Graphs

Flow Graph



Volume Graph



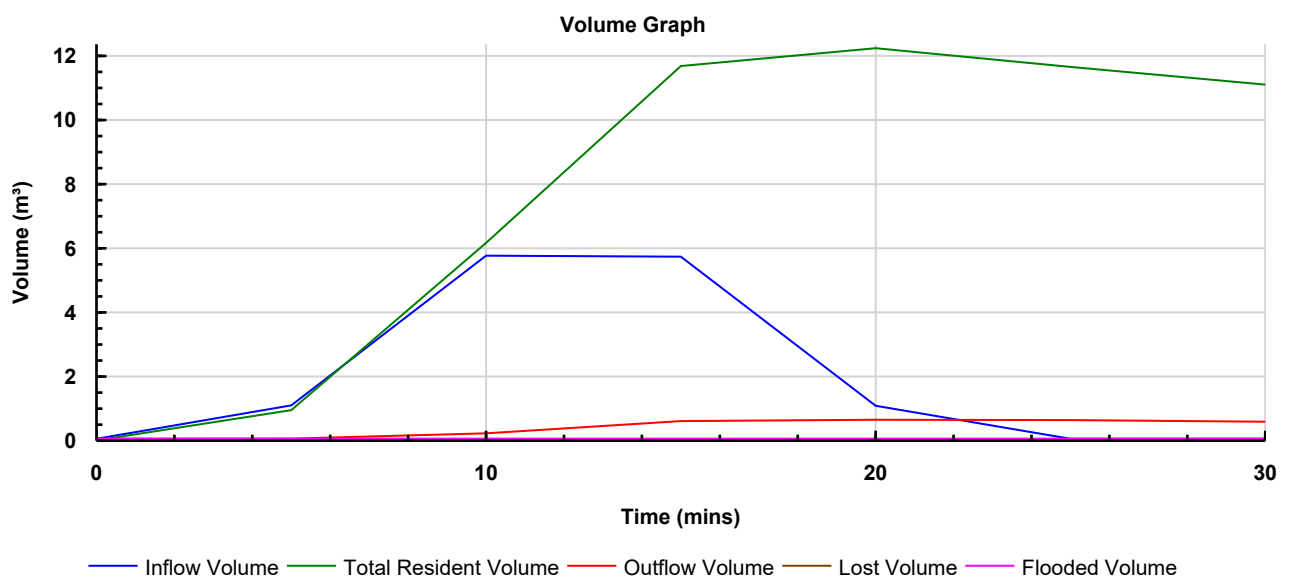
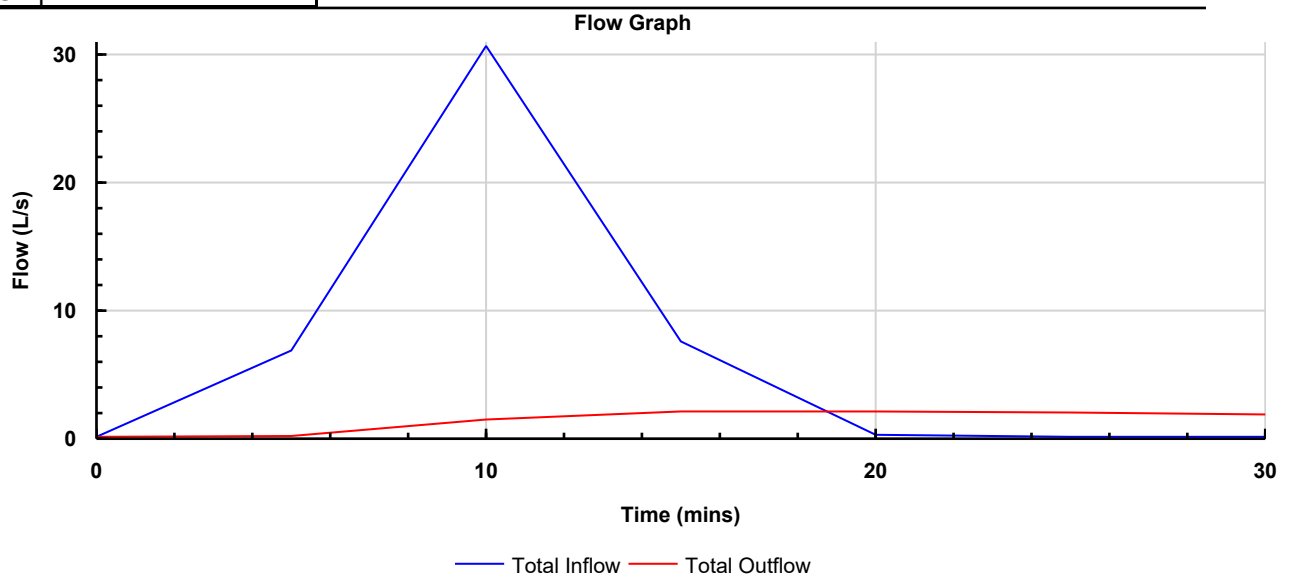
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Phase
FSR: 30 years: Increase Rainfall (%): +40: 15 mins: Summer

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Porous Paving			2.0	2.450
TOTAL	30.7	13.528	2.0	2.450

Graphs



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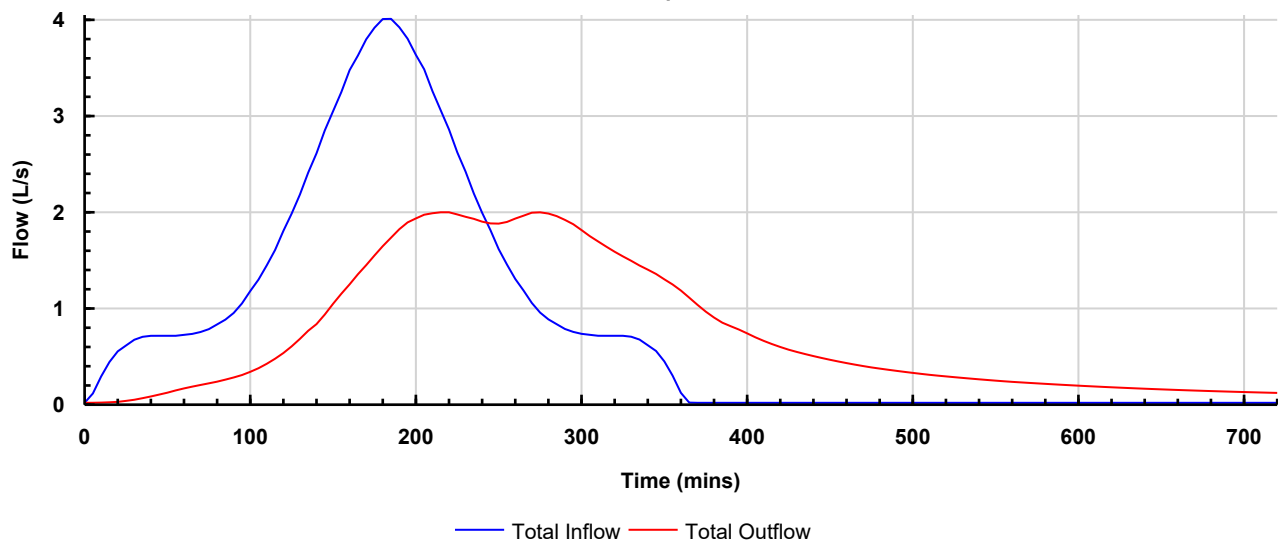

Phase
 FSR: 100 years: Increase Rainfall (%): +0: 360 mins: Winter

Tables

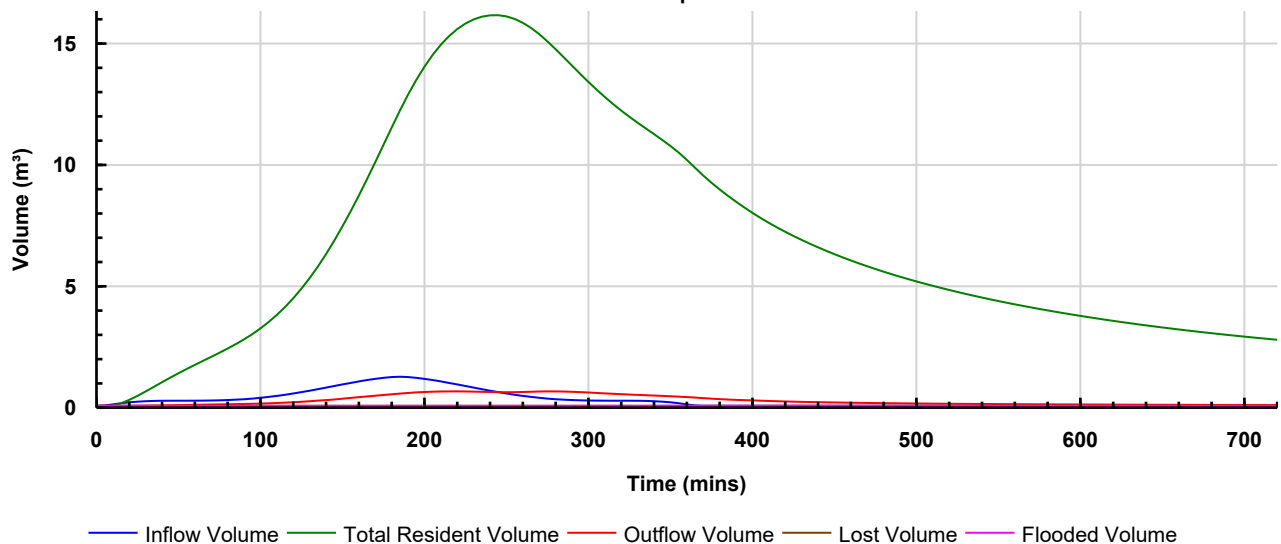
Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Porous Paving			2.0	31.521
TOTAL	4.0	34.308	2.0	31.521

Graphs

Flow Graph



Volume Graph



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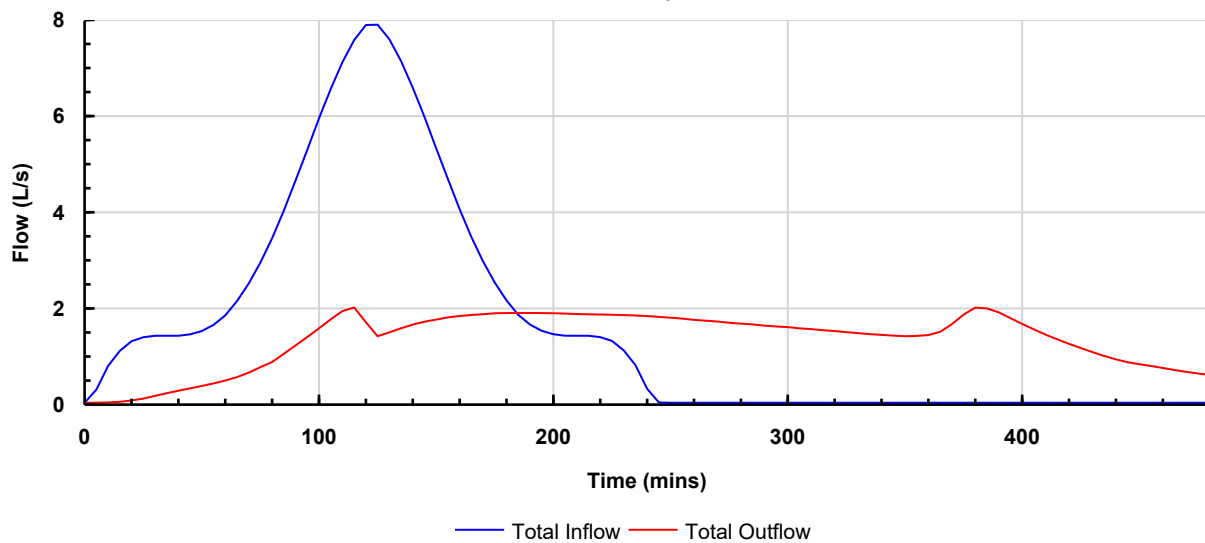

Phase
 FSR: 100 years: Increase Rainfall (%): +45: 240 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Porous Paving			2.0	38.139
TOTAL	7.9	45.336	2.0	38.139

Graphs

Flow Graph



Volume Graph

