

Catchment Area

Area inflows can be applied to the system using the **Area Inflow** type.

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Runoff

The screenshot shows the 'Catchment Area' dialog box with the 'Runoff' tab selected. The 'Name' field contains 'Catchment Area'. The 'Area (km²)' field is set to 3.00. Under 'Preliminary Sizing', the 'Volumetric Runoff Coefficient' is 0.750 and the 'Time of Concentration (mins)' is 0.2. Under 'Dynamic Sizing', the 'Runoff Method' is set to 'Time of Concentration'. For 'Summer', the 'Volumetric Runoff Coefficient' is 0.750 and the 'Time of Concentration (mins)' is 0.17. For 'Winter', the 'Volumetric Runoff Coefficient' is 0.850. The dialog has 'OK', 'Cancel', and 'Apply' buttons, and a 'Help' icon. A status bar at the bottom indicates '0 <= Preliminary Time of Concentration (mins) <= 1440'.

Workflow - What's next...?



Inflows connect to either **Junctions** or **Stormwater controls** via **Inlets**. Specify an **Outlet** on these objects then choose to connect to another **Junction** or **Stormwater Control**.

Area

An area can be entered directly or calculated automatically from the polygon drawn on the Plan.

Preliminary Sizing

The Area, Volumetric Runoff Coefficient and Time of Concentration values shown in the preliminary Sizing tab will be used for initial sizing of pipes and stormwater controls using Rational Method style calculations.

If these values are not entered here, the default values or the values from the current dynamic sizing runoff method will be used.

Volumetric Runoff Coefficients

Used to factor the runoff when the Time Area Diagram or Time of Concentration Runoff Methods are selected. If a UK Rainfall pattern (**FSR / FEH**) is selected in the [Analysis Criteria](#), values can instead be specified seasonally. The CVs specified will be used for the Summer and Winter storm analysis, if that type of storm is enabled in the Select Rainfall section within the [Analysis Criteria](#).

A [calculator](#) is available which allows the **Volumetric Runoff Coefficient** to be calculated from **Land Use** and **Overland Slope**.

Runoff Method

The preferred runoff methods can be selected - select from the methods below for details and required input parameters.

[Time of Concentration](#)

[SCS](#)

[Santa Barbara Urban Hydrograph](#)

[Laurenson](#)

[Time Area Diagram](#)

[FSR Unit Hydrograph](#)

[FEH Unit Hydrograph](#)

[ReFH Unit Hydrograph](#)