

Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

User Input: Watershed Characteristics

Watershed Slope =	0.013	ft/ft
Watershed Length =	300	ft
Watershed Area =	1.46	acres
Watershed Imperviousness =	88.6%	percent
Percentage Hydrologic Soil Group A =	100.0%	percent
Percentage Hydrologic Soil Group B =		percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent

Location for 1-hr Rainfall Depths (use dropdown):

User Input

WQCV Treatment Method = Extended Detention ▼

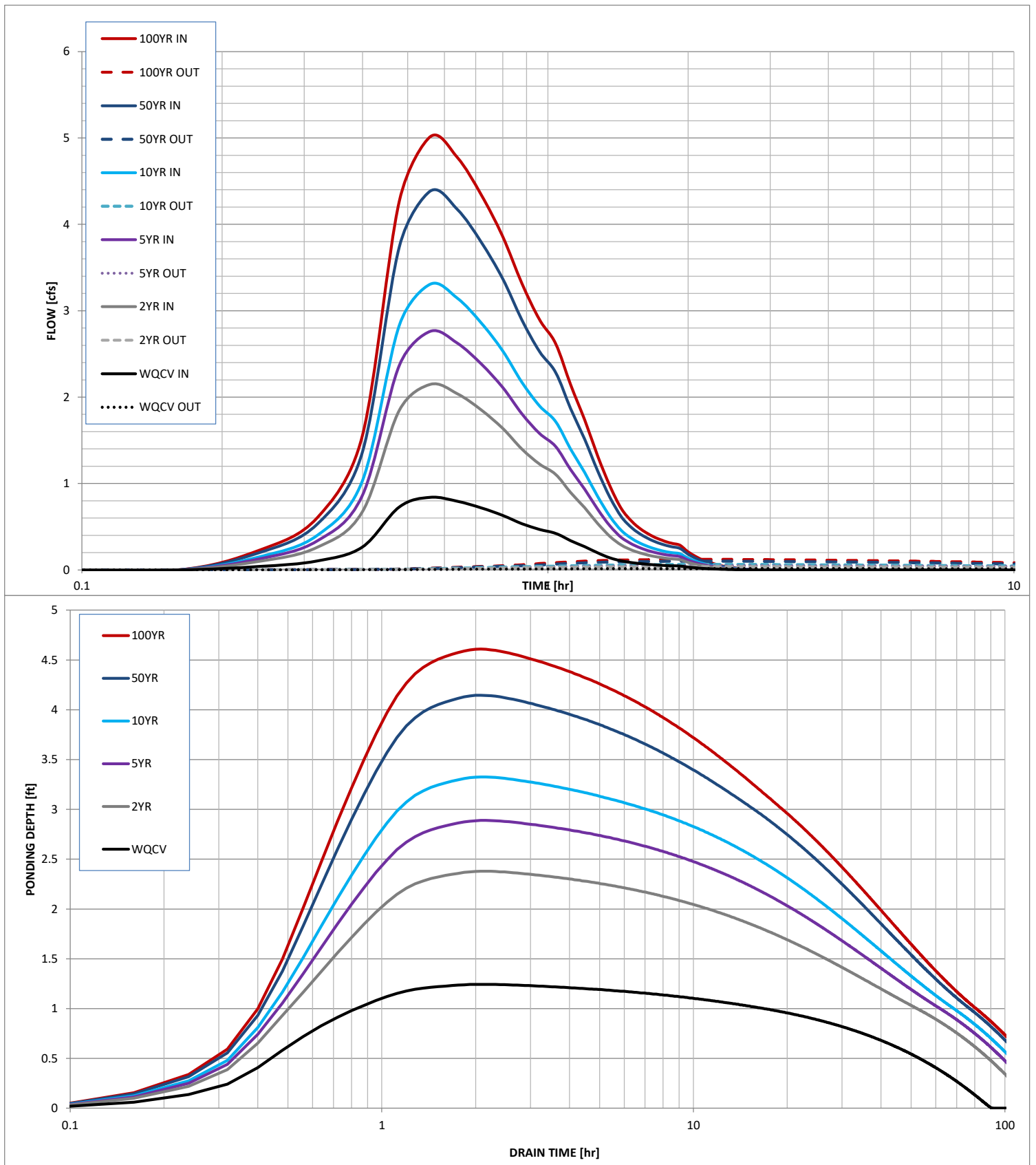
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After completing and printing this worksheet to a pdf, go to:
<https://maperture.digitaldataservices.com/gvh/?viewer=cswdif>
 create a new stormwater facility, and
 attach the pdf of this worksheet to that record.

Routed Hydrograph Results

Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.60	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.047	0.121	0.157	0.189	0.251	0.288	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.047	0.121	0.157	0.188	0.250	0.287	acre-ft
Time to Drain 97% of Inflow Volume =	74.2	99.8	106.0	109.8	113.5	114.6	hours
Time to Drain 99% of Inflow Volume =	81.0	110.6	0.0	0.0	0.0	0.0	hours
Maximum Ponding Depth =	1.24	2.38	2.89	3.33	4.15	4.61	ft
Maximum Poned Area =	0.06	0.07	0.07	0.07	0.07	0.07	acres
Maximum Volume Stored =	0.045	0.116	0.150	0.180	0.238	0.272	acre-ft

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User Input: Watershed Characteristics

Watershed Slope =	0.013	ft/ft
Watershed Length =	600	ft
Watershed Area =	2.30	acres
Watershed Imperviousness =	51.9%	percent
Percentage Hydrologic Soil Group A =	80.0%	percent
Percentage Hydrologic Soil Group B =		percent
Percentage Hydrologic Soil Groups C/D =	20.0%	percent

Location for 1-hr Rainfall Depths (use dropdown):

User Input

WQCV Treatment Method = Extended Detention ▼

[illegible]

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Routed Hydrograph Results

Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.60	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.041	0.097	0.131	0.163	0.254	0.310	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.040	0.097	0.131	0.162	0.253	0.310	acre-ft
Time to Drain 97% of Inflow Volume =	60.6	88.5	96.4	95.7	91.8	89.2	hours
Time to Drain 99% of Inflow Volume =	65.9	96.9	106.0	106.4	105.1	103.9	hours
Maximum Ponding Depth =	0.67	1.28	1.61	1.84	2.52	2.93	ft
Maximum Poned Area =	0.09	0.09	0.09	0.09	0.09	0.09	acres
Maximum Volume Stored =	0.037	0.092	0.122	0.143	0.206	0.245	acre-ft

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