Stormwater Detention and Infiltration Design Data Sheet

SDI-Design Data v2.00, Released January 2020

Stormwater Facility Name: **7280 North Nevada Lane**

Facility Location & Jurisdiction: **6-20-24 7280 Nevada Lane EDP Pond**

User Input: Watershed Characteristics

Sand Filter (SF)	SF	
Watershed Area =	6.88	acres
Watershed Length =	880	ft
Watershed Length to Centroid =	440	ft
Watershed Slope =	0.051	ft/ft
Watershed Imperviousness =	13.0%	percent
Percentage Hydrologic Soil Group A =	100.0%	percent
Percentage Hydrologic Soil Group B =	0.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQCV Drain Time =	12.0	hours

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

User Input

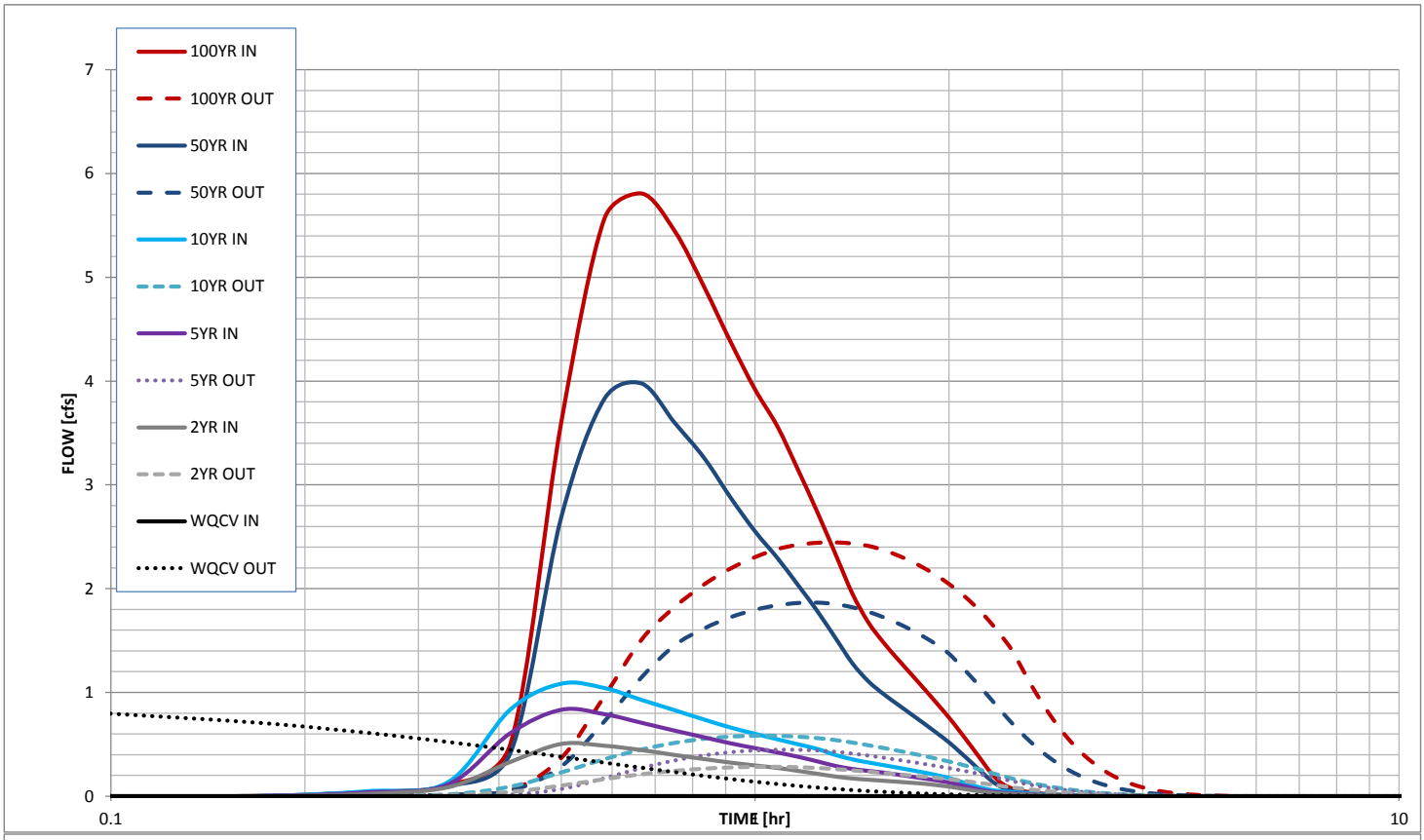
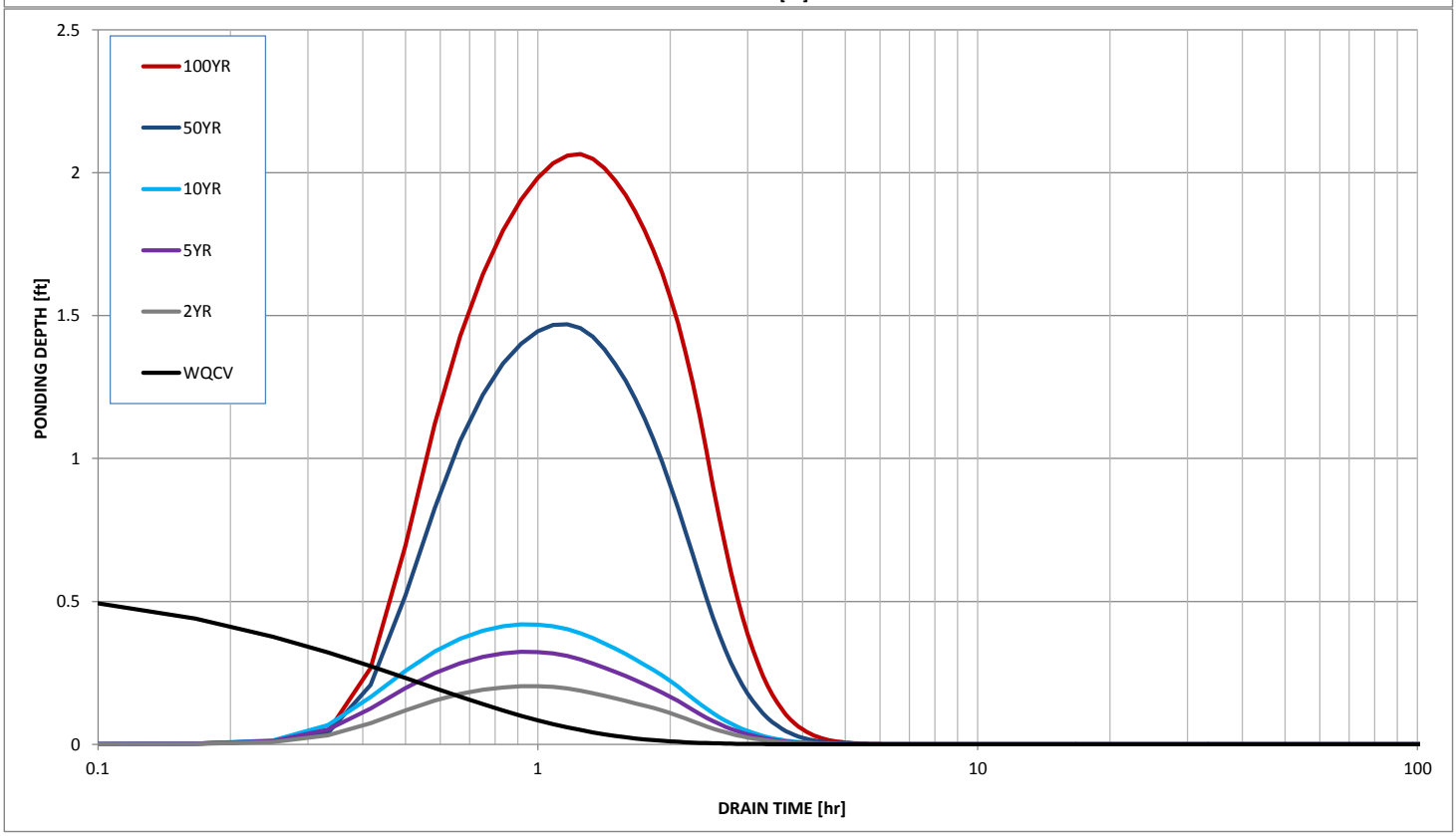
After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'.

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	2,343	0.00	0.00
1.00	3,184	1.00	1.39
2.00	5,646	2.00	2.40
3.00	3,874	3.00	3.10

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 =	N/A	1.19	1.50	1.75	2.25	2.52	in
CUHP Runoff Volume =	0.038	0.039	0.060	0.080	0.271	0.402	acre-ft
Inflow Hydrograph Volume =	N/A	0.039	0.060	0.080	0.271	0.402	acre-ft
Time to Drain 97% of Inflow Volume =	1.8	3.1	**3.1**	3.1	3.2	3.3	hours
Time to Drain 99% of Inflow Volume =	2.3	3.7	3.7	3.7	3.7	**3.8**	hours
Maximum Ponding Depth =	0.64	0.20	0.32	0.42	1.47	2.07	ft
Maximum Ponded Area =	0.07	0.06	0.06	0.06	0.10	**0.13**	acres
Maximum Volume Stored =	0.038	0.011	0.018	0.024	0.104	0.173	acre-ft

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