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Engineering Review
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dsdnijkamp
EPC Planning & Community Development Department

Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected Worksheet Protected

Stormwater Facility Name: **Mayberry, Colorado Springs - Detention Pond C1**

Facility Location & Jurisdiction: **Mayberry, Colorado Springs - Detention Pond C1, El Paso County, CO**

User Input: Watershed Characteristics

Watershed Slope =	0.010	ft/ft
Watershed Length =	2660	ft
Watershed Area =	44.81	acres
Watershed Imperviousness =	51.7%	percent
Percentage Hydrologic Soil Group A =	100.0%	percent
Percentage Hydrologic Soil Group B =		percent
Percentage Hydrologic Soil Groups C/D =		percent

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

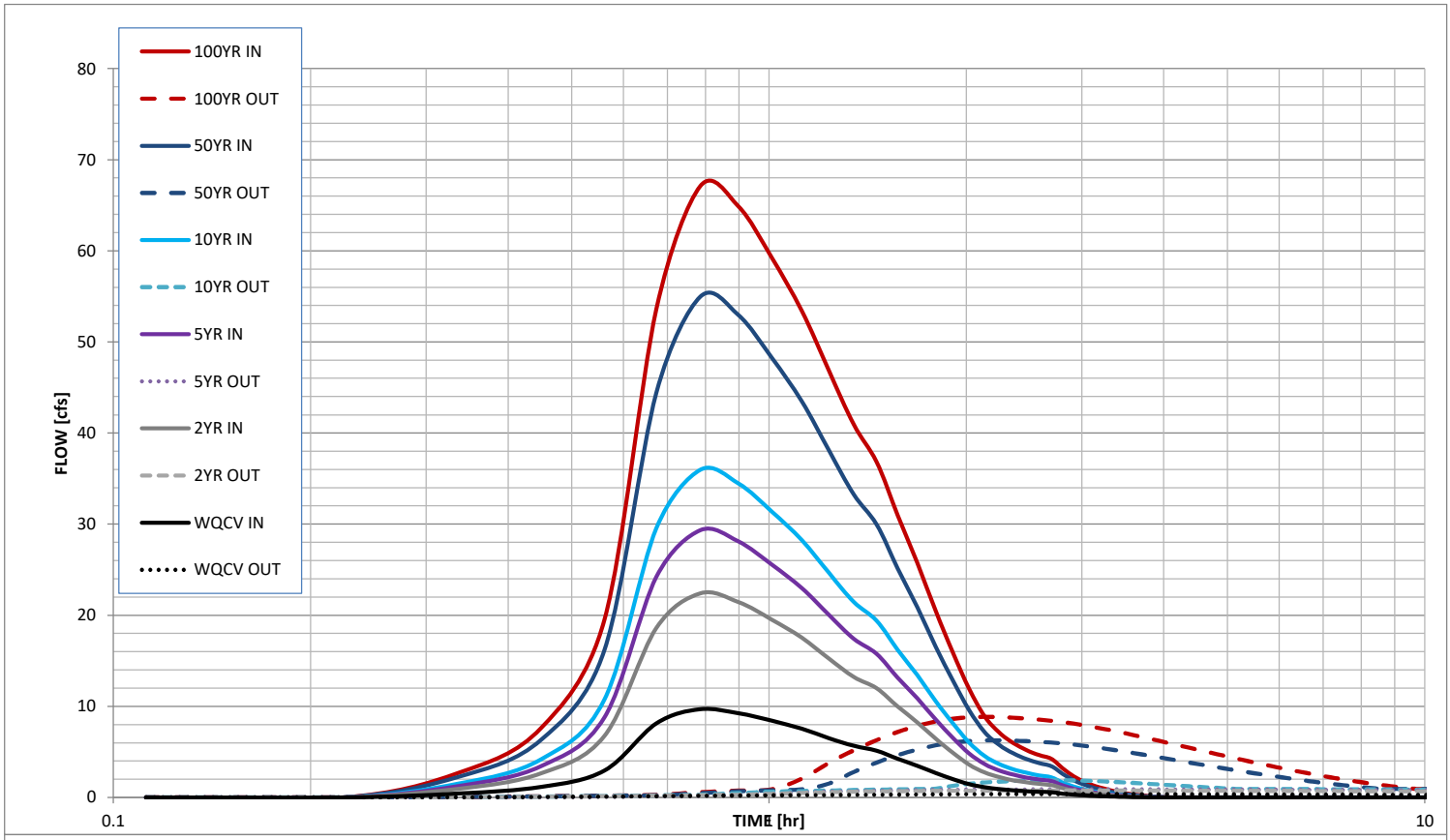
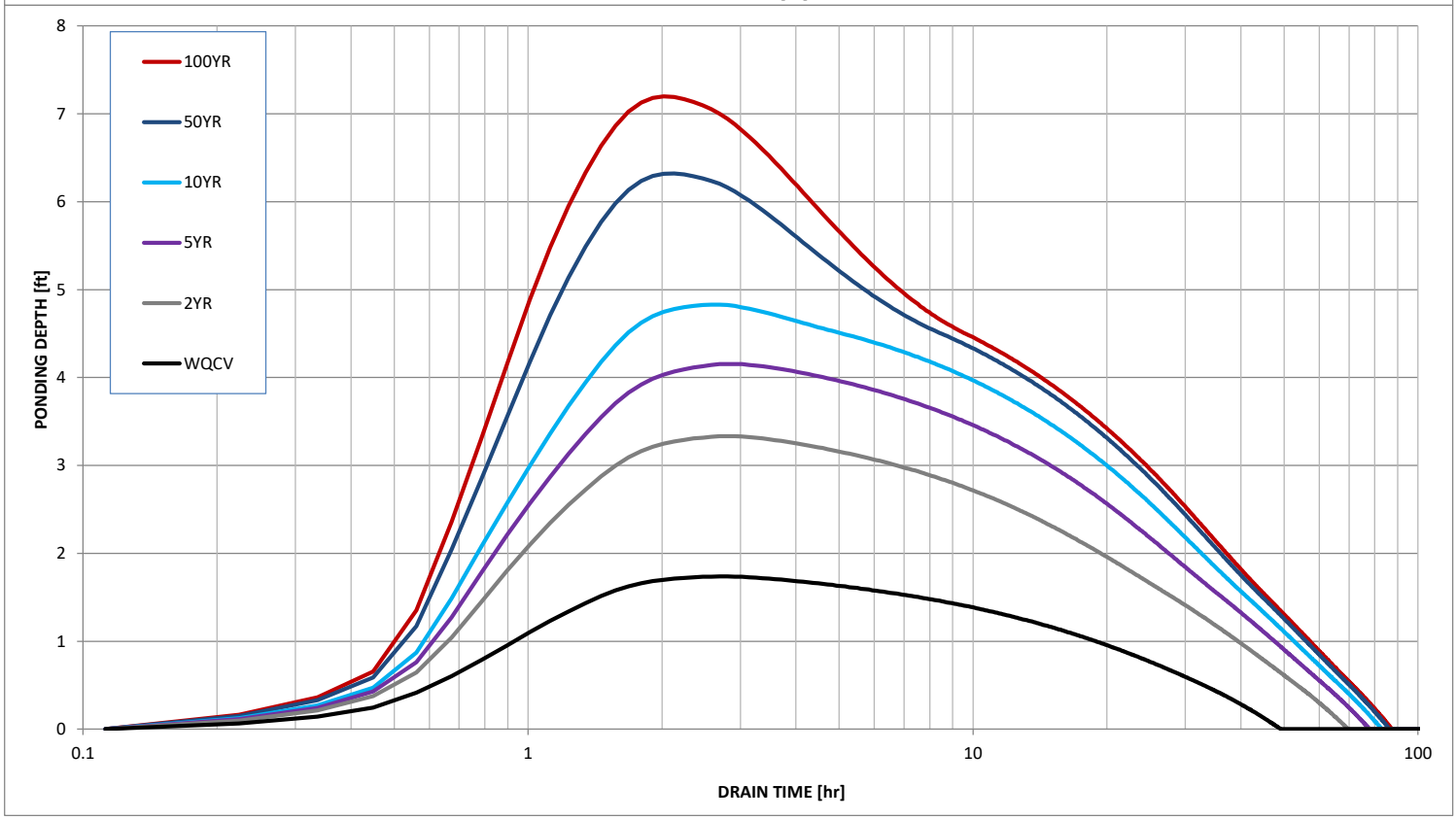
User Input

WQCV Treatment Method = Extended Detention

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	10	0.00	0.00
0.50	19,780	0.50	0.17
1.50	22,256	1.50	0.30
2.50	27,421	2.50	0.62
4.50	30,168	4.50	0.94
7.50	39,229	7.50	9.75
9.50	45,565	9.50	268.98

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 =	0.787	1.839	2.416	2.971	4.577	5.621	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.787	1.839	2.416	2.971	4.576	5.612	acre-ft
Time to Drain 97% of Inflow Volume =	41.9	58.5	**65.0**	68.7	68.6	67.6	hours
Time to Drain 99% of Inflow Volume =	45.0	63.2	70.5	74.7	76.1	**76.1**	hours
Maximum Ponding Depth =	1.74	3.33	4.15	4.83	6.32	7.20	ft
Maximum Ponded Area =	0.54	0.66	0.68	0.71	0.82	**0.88**	acres
Maximum Volume Stored =	0.718	1.699	2.246	2.714	3.856	4.606	acre-ft

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