Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected Worksheet Protected

Stormwater Facility Name: **Fisk Lawnscapes - Detention Pond A**

Facility Location & Jurisdiction: **7135 Templeton Gap Road, Colorado Springs, CO 80923 (El Paso County)**

User Input: Watershed Characteristics

Watershed Slope =	0.023	ft/ft
Watershed Length =	650	ft
Watershed Area =	5.11	acres
Watershed Imperviousness =	50.0%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	100.0%	percent
Percentage Hydrologic Soil Groups C/D =		percent

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

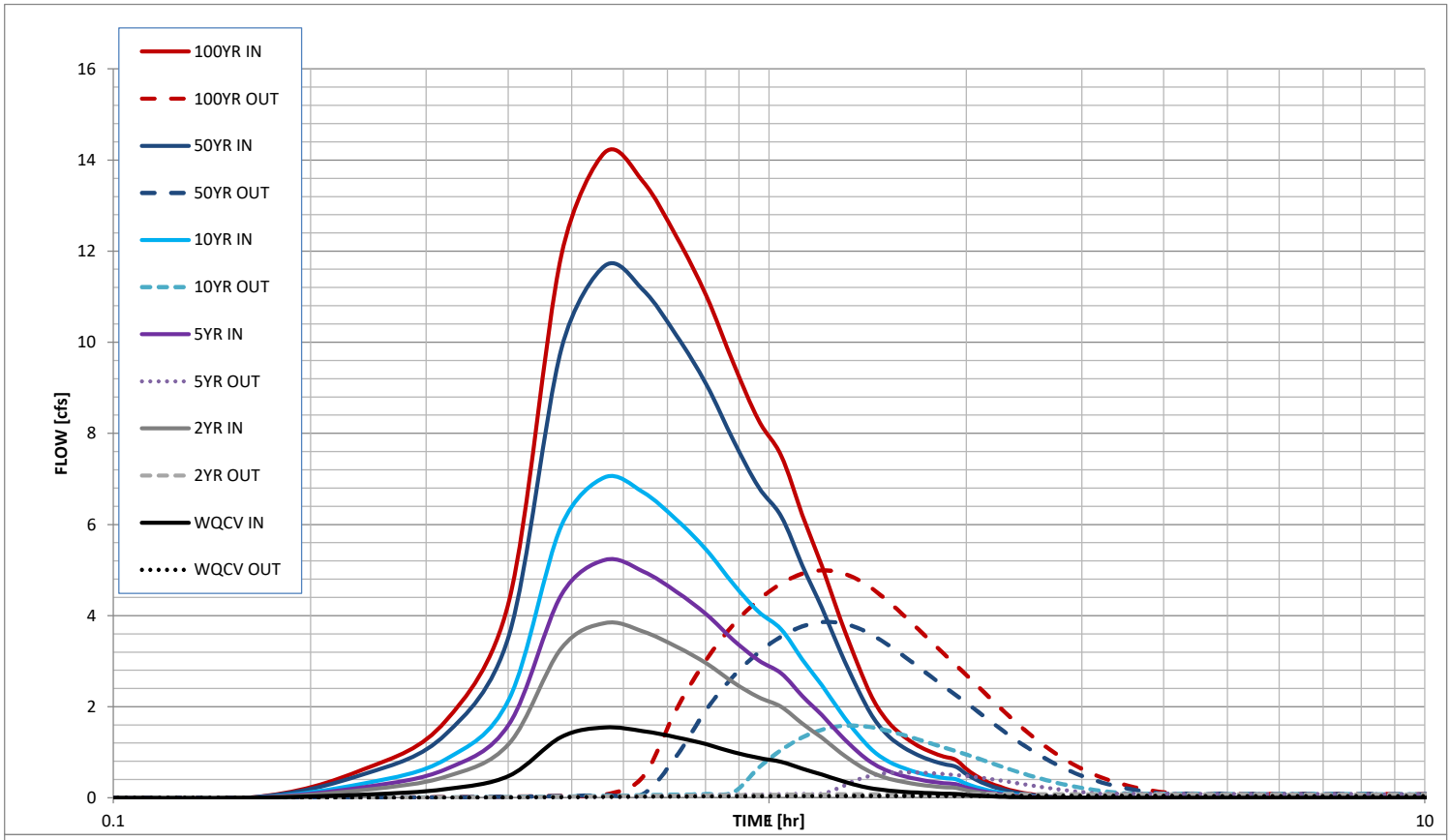
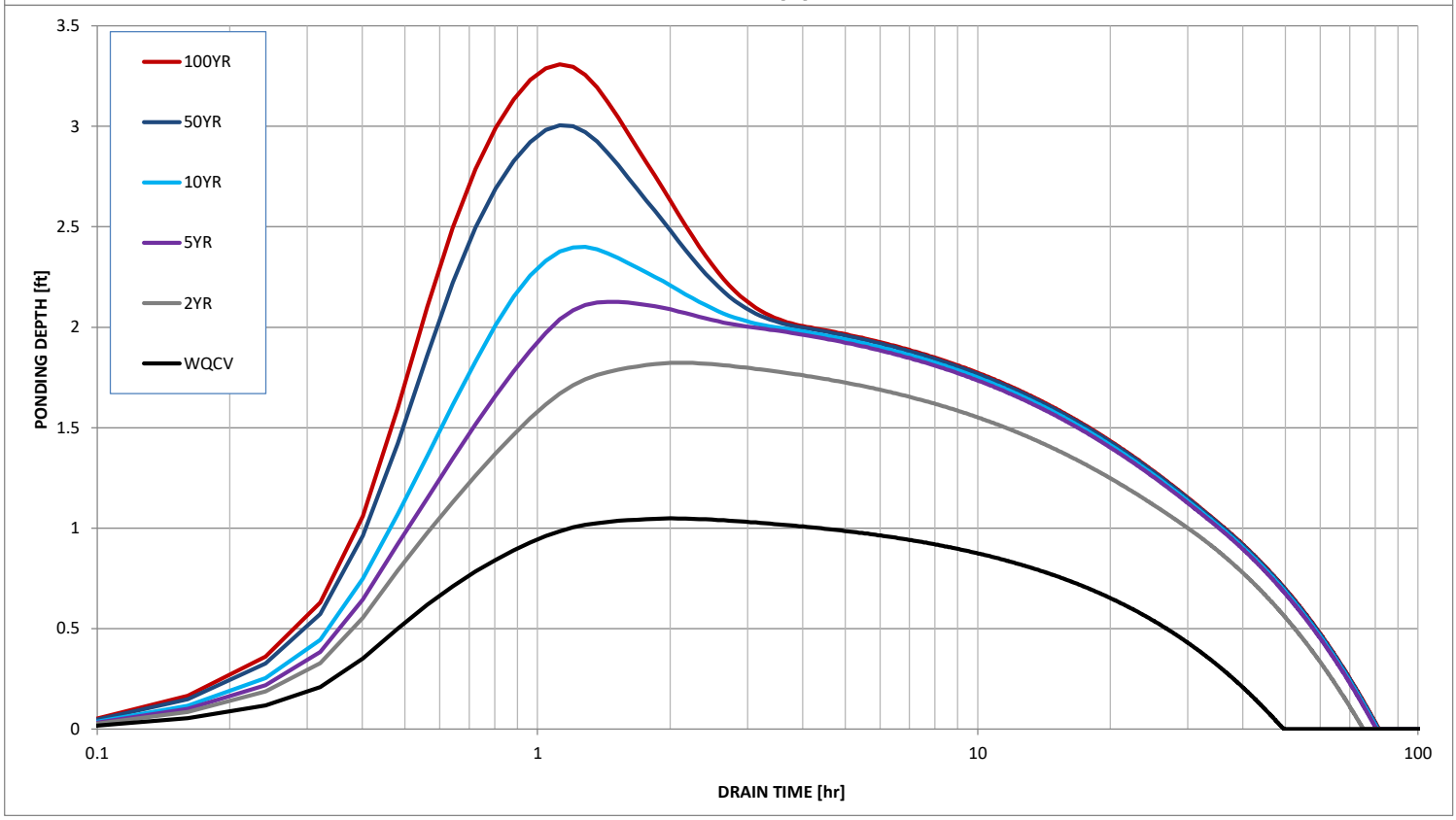
User Input

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
1.00	6,468	1.00	0.04
2.00	8,030	2.00	0.09
4.00	11,541	4.00	7.60
6.00	15,000	6.00	106.22

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 =	0.088	0.220	0.301	0.407	0.678	0.824	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.087	0.220	0.300	0.406	0.678	0.824	acre-ft
Time to Drain 97% of Inflow Volume =	41.0	61.7	**64.7**	62.5	57.6	55.4	hours
Time to Drain 99% of Inflow Volume =	44.6	67.4	71.4	70.3	67.7	**66.4**	hours
Maximum Ponding Depth =	1.05	1.82	2.13	2.40	3.01	3.31	ft
Maximum Ponded Area =	0.15	0.18	0.19	0.20	0.22	**0.24**	acres
Maximum Volume Stored =	0.081	0.208	0.264	0.317	0.446	0.516	acre-ft

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