

Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: **EXISTING POND 1**

Facility Location & Jurisdiction: **FALCON HIGHLANDS FIL NO 3 - EL PASO COUNTY**

User Input: Watershed Characteristics

Watershed Slope = ft/ft
 Watershed Length = ft
 Watershed Area = acres
 Watershed Imperviousness = percent
 Percentage Hydrologic Soil Group A = percent
 Percentage Hydrologic Soil Group B = percent
 Percentage Hydrologic Soil Groups C/D = percent

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

▼

WQCV Treatment Method = ▼

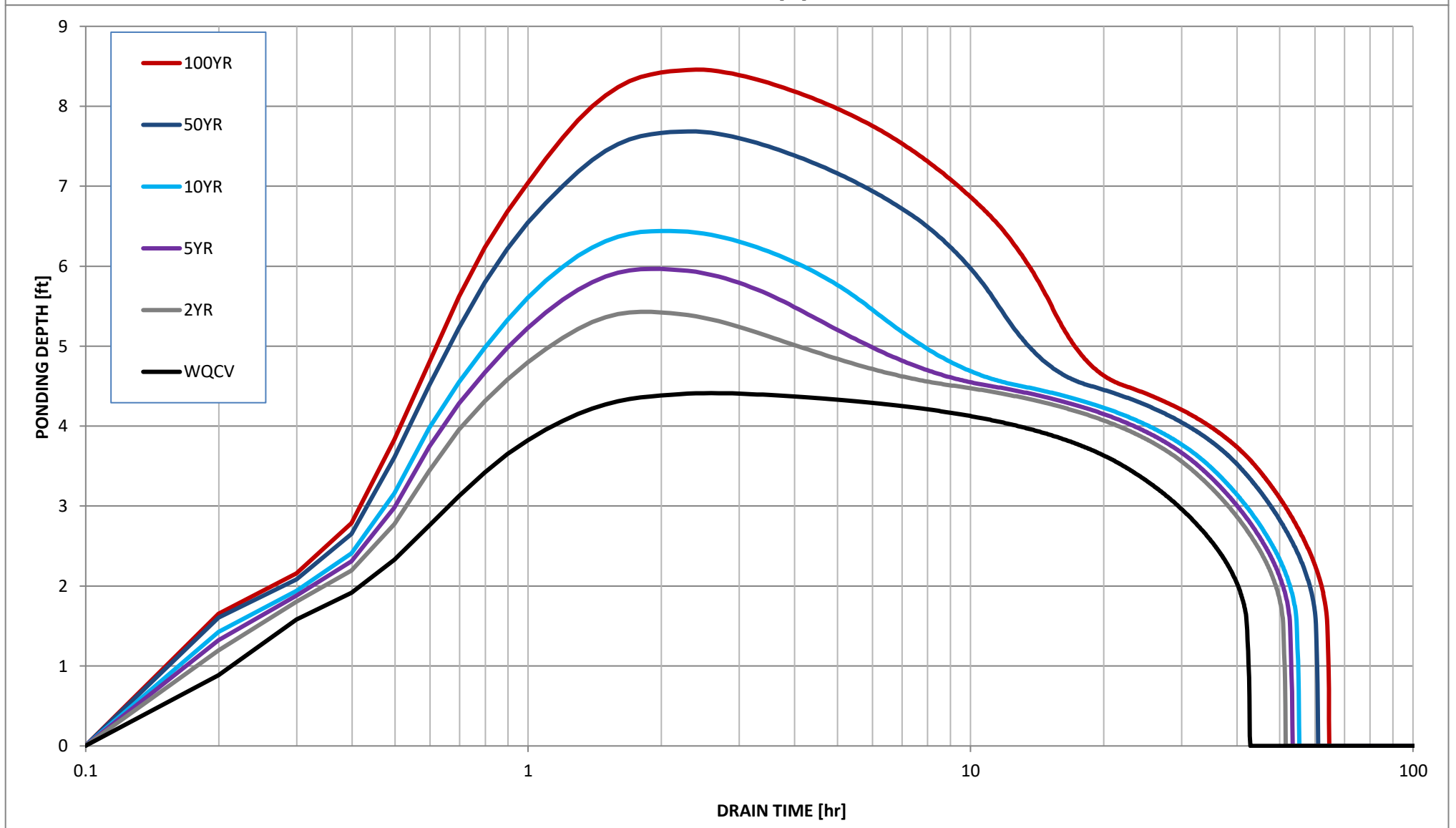
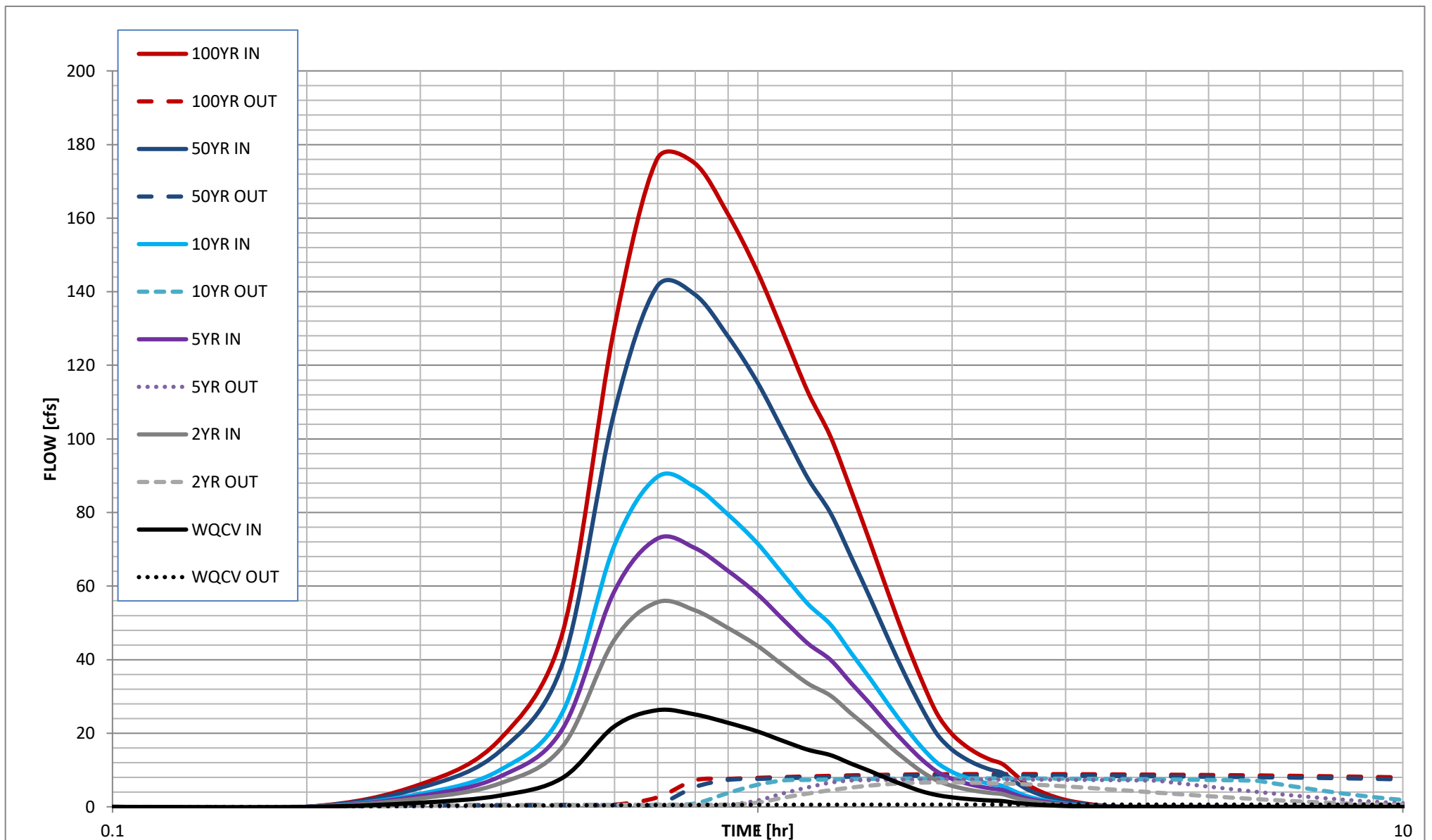
User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	0	0.00	0.00
0.50	130	0.50	0.21
1.50	1,115	1.50	0.37
2.50	19,471	2.50	0.48
3.50	31,417	3.50	0.56
4.50	62,850	4.50	0.64
5.50	79,388	5.50	7.13
6.50	114,850	6.50	7.78
6.60	128,500	6.60	7.84
7.50	134,572	7.50	8.38
7.84	142,800	7.84	8.58
8.50	152,970	8.50	8.94
9.50	177,276	9.50	75.23

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

	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
Design Storm Return Period =	0.60	1.19	1.50	1.75	2.25	2.52	in
One-Hour Rainfall Depth =	1.918	4.105	5.411	6.693	10.707	13.437	acre-ft
Calculated Runoff Volume =							acre-ft
OPTIONAL Override Runoff Volume =	1.918	4.105	5.411	6.692	10.705	13.436	acre-ft
Inflow Hydrograph Volume =	40.9	47.8	48.6	49.5	52.2	53.9	hours
Time to Drain 97% of Inflow Volume =	42.1	50.2	51.6	53.2	57.7	60.6	hours
Time to Drain 99% of Inflow Volume =	4.41	5.43	5.97	6.44	7.69	8.46	ft
Maximum Ponding Depth =	1.37	1.79	2.20	2.58	3.19	3.49	acres
Maximum Ponded Area =	1.784	3.402	4.478	5.602	9.342	11.925	acre-ft
Maximum Volume Stored =							

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Stormwater Detention and Infiltration Design Data Sheet

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Stormwater Facility Name: **EXISTING POND 2**

Facility Location & Jurisdiction: **FALCON HIGHLANDS FIL NO 3 - EL PASO COUNTY**

User Input: Watershed Characteristics

- Watershed Slope = ft/ft
- Watershed Length = ft
- Watershed Area = acres
- Watershed Imperviousness = percent
- Percentage Hydrologic Soil Group A = percent
- Percentage Hydrologic Soil Group B = percent
- Percentage Hydrologic Soil Groups C/D = percent

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

▼

WQCV Treatment Method = ▼

User Defined	User Defined	User Defined	User Defined
Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]
0.00	1,425	0.00	0.00
1.00	3,320	1.00	0.22
2.00	6,004	2.00	0.34
3.00	13,803	3.00	0.42
4.00	22,457	4.00	0.49
4.90	36,100	4.90	0.55
5.00	38,755	5.00	0.56
6.00	57,667	6.00	2.33
6.75	67,500	6.75	2.47
7.00	71,775	7.00	2.52
8.00	83,300	8.00	2.69
8.33	95,750	8.33	2.75
9.00	98,912	9.00	2.86
10.00	116,945	10.00	195.02

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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 =	1.410	2.482	3.294	4.124	7.155	9.458	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	1.409	2.481	3.294	4.123	7.151	9.453	acre-ft
Time to Drain 97% of Inflow Volume =	38.0	48.2	51.1	54.0	64.5	67.9	hours
Time to Drain 99% of Inflow Volume =	40.8	51.4	54.7	58.0	70.0	74.5	hours
Maximum Ponding Depth =	4.80	5.75	6.30	6.83	8.43	9.11	ft
Maximum Poned Area =	0.79	1.21	1.41	1.58	2.21	2.31	acres
Maximum Volume Stored =	1.322	2.272	3.004	3.792	6.730	8.264	acre-ft

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