

Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: **Pond E2**

Facility Location & Jurisdiction: **Creekside South at Lorson Ranch, El Paso County, CO**

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 = ▼

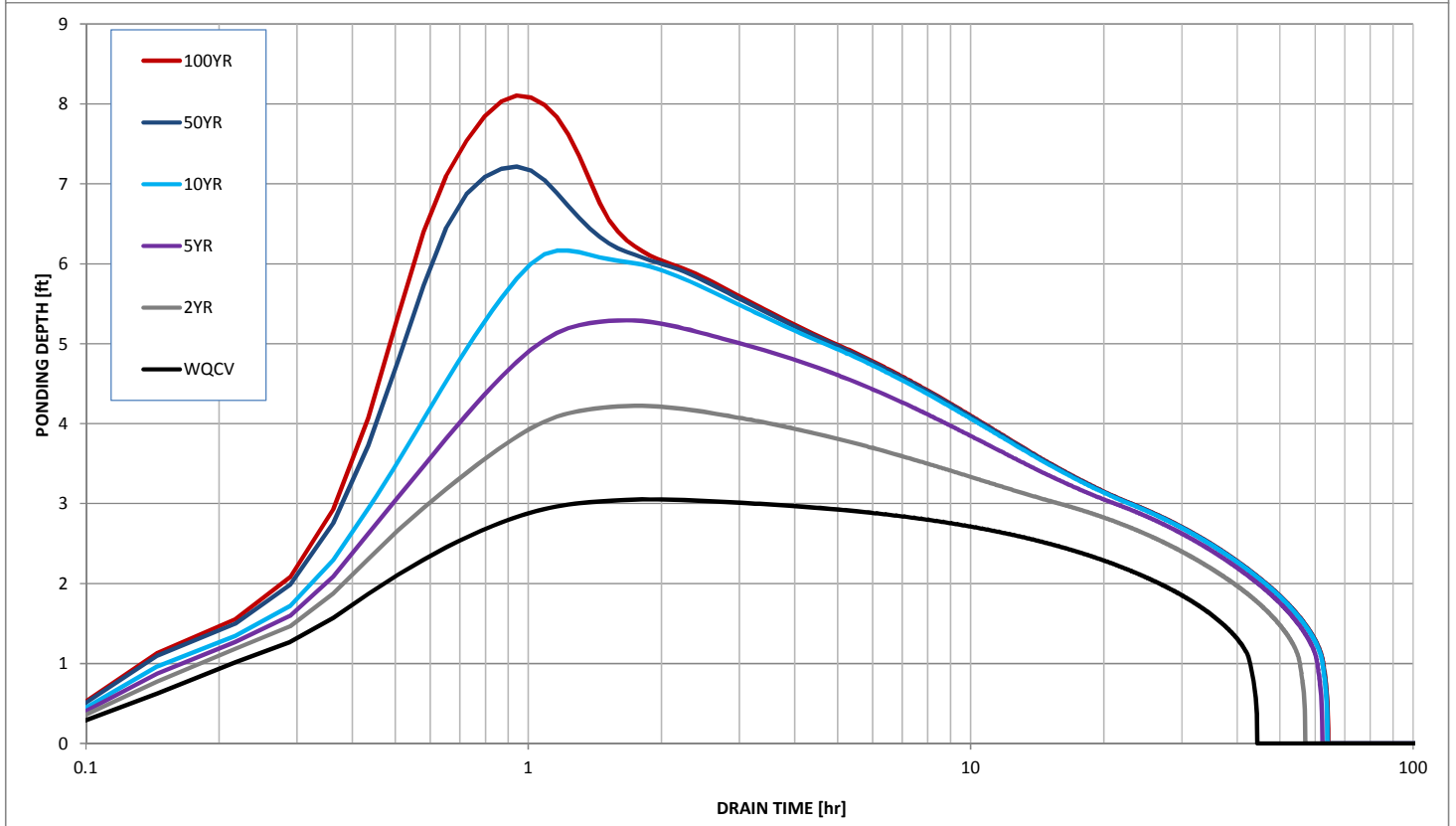
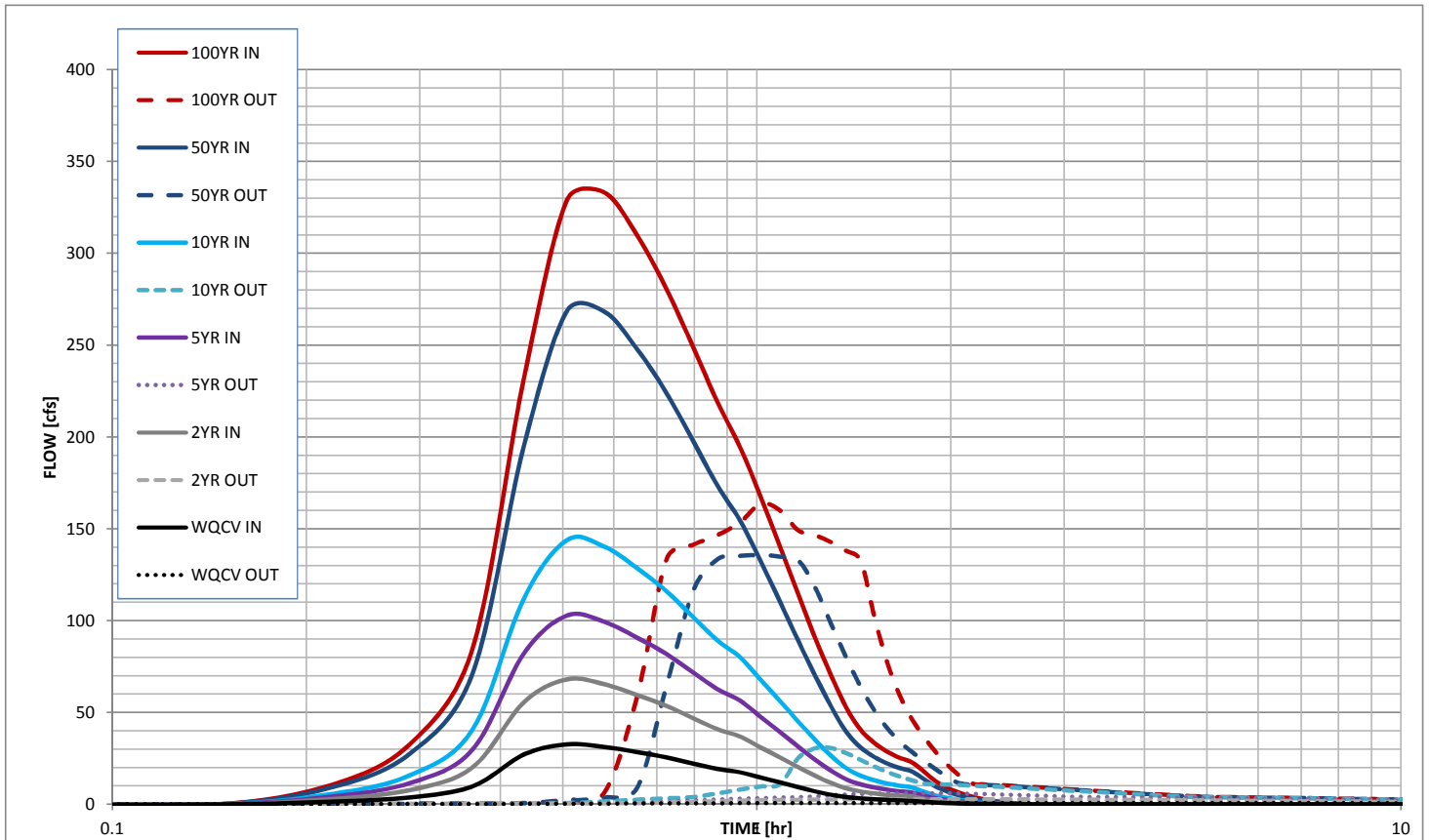
User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	20	0.00	0.00
0.33	50	0.33	0.10
1.00	2,250	1.00	0.17
2.00	35,024	2.00	0.42
3.00	62,057	3.00	0.73
4.00	65,120	4.00	2.47
5.00	68,248	5.00	4.08
6.00	71,443	6.00	11.09
7.00	74,705	7.00	132.07
8.00	78,040	8.00	149.44
9.00	81,442	9.00	284.79

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 =	0.53	1.19	1.50	1.75	2.25	2.52	in
One-Hour Rainfall Depth =	1.732	3.645	5.556	7.847	14.974	18.724	acre-ft
Calculated Runoff Volume =							acre-ft
OPTIONAL Override Runoff Volume =	1.731	3.645	5.552	7.840	14.964	18.723	acre-ft
Inflow Hydrograph Volume =	40.9	50.8	53.7	52.8	46.2	43.3	hours
Time to Drain 97% of Inflow Volume =	42.9	54.4	58.6	59.1	56.2	54.8	hours
Time to Drain 99% of Inflow Volume =	3.05	4.22	5.29	6.17	7.22	8.11	ft
Maximum Ponding Depth =	1.43	1.51	1.59	1.65	1.73	1.80	acres
Maximum Poned Area =	1.623	3.350	5.003	6.408	8.188	9.760	acre-ft
Maximum Volume Stored =							

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Stormwater Facility Name: **Pond J**

Facility Location & Jurisdiction: **Creekside South at Lorson Ranch, El Paso County, CO**

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	49	0.00	0.00
0.33	50	0.33	0.04
1.33	12,055	1.33	0.13
2.33	28,149	2.33	0.26
3.33	31,772	3.33	1.03
4.33	35,485	4.33	9.30
5.33	39,287	5.33	48.73
6.33	43,178	6.33	65.85
7.33	47,158	7.33	181.06
8.33	51,228	8.33	388.58

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Routed Hydrograph Results

	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
Design Storm Return Period =							
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.623	1.084	1.592	2.509	5.648	7.267	acre-ft
OPTIONAL Override Runoff Volume =							
Inflow Hydrograph Volume =	0.622	1.083	1.592	2.508	5.642	7.261	acre-ft
Time to Drain 97% of Inflow Volume =	44.1	53.3	55.9	53.7	45.0	41.2	hours
Time to Drain 99% of Inflow Volume =	46.4	56.8	60.6	60.3	56.4	54.6	hours
Maximum Ponding Depth =	2.31	2.93	3.49	4.19	5.31	5.93	ft
Maximum Poned Area =	0.64	0.70	0.74	0.80	0.90	0.96	acres
Maximum Volume Stored =	0.581	0.994	1.398	1.941	2.890	3.470	acre-ft

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