

Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: Pond A3

Facility Location & Jurisdiction: Ponderosa at Lorson Ranch Filing No. 3, 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	450	0.33	0.02
1.23	4,829	1.23	0.05
2.23	7,607	2.23	0.14
3.23	13,064	3.23	0.41
4.23	20,628	4.23	2.81
5.23	29,434	5.23	7.72
6.23	30,000	6.23	8.48

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 =							
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.178	0.467	0.676	0.872	1.416	1.710	acre-ft
OPTIONAL Override Runoff Volume =							
Inflow Hydrograph Volume =	0.178	0.466	0.675	0.872	1.416	1.709	acre-ft
Time to Drain 97% of Inflow Volume =	33.7	44.0	44.1	43.0	39.6	37.6	hours
Time to Drain 99% of Inflow Volume =	35.6	47.9	49.1	49.1	48.3	47.6	hours
Maximum Ponding Depth =	2.00	3.16	3.60	3.93	4.63	4.92	ft
Maximum Poned Area =	0.16	0.29	0.36	0.42	0.55	0.61	acres
Maximum Volume Stored =	0.159	0.412	0.558	0.687	1.024	1.192	acre-ft

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