

Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: Judge Orr Road RV and Storage Development

Facility Location & Jurisdiction: 14010 Judge Orr Road, Peyton, Colorado (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 =

The table does not match the values in the UD-Detention worksheet.

Unresolved. We have clouded the numbers that need to be updated per the UD-Detention worksheet

User Defined Stage [ft]	User Defined Area [ft ²]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	0	0.00	0.00
0.33	10	0.33	0.30
0.50	50	0.50	0.30
0.90	203	0.90	0.30
1.00	817	1.00	0.30
1.50	9,974	1.50	0.30
2.00	17,195	2.00	0.30
2.50	18,052	2.50	0.30
3.00	18,910	3.00	0.30
3.50	19,787	3.50	0.30
4.00	20,681	4.00	0.30
4.50	21,594	4.50	0.40
5.00	22,524	5.00	1.00
5.50	23,473	5.50	6.00
6.00	24,439	6.00	15.00
6.50	25,423	6.50	24.00
7.00	26,426	7.00	33.00
7.50	27,446	7.50	37.70
8.00	28,485	8.00	65.00
9.00	30,616	9.00	100.00

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 =	0.489	1.161	1.599	2.210	3.852	4.726	acre-ft
Calculated Runoff Volume =							acre-ft
OPTIONAL Override Runoff Volume =							
Inflow Hydrograph Volume =	19.3	45.6	56.4	57.5	55.9	54.9	hours
Time to Drain 97% of Inflow Volume =	19.7	46.5	57.7	59.2	59.0	58.7	hours
Time to Drain 99% of Inflow Volume =	2.54	4.03	4.84	5.50	6.55	7.05	ft
Maximum Ponding Depth =	0.42	0.48	0.51	0.54	0.59	0.61	acres
Maximum Poned Area =	0.435	1.098	1.499	1.841	2.437	2.735	acre-ft
Maximum Volume Stored =							

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