Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Retreat at TimberRidge Filing No. 3 - Rain Garden 1 **Stormwater Facility Name:**

Approx. 1200' East of int. of Vollmer Rd. and Arroya Lane, El Paso County

Facility Location & Jurisdiction:

User (Input) Watershed Characteristics 0.044 Watershed Slope = ft/ft Watershed Length-to-Width Ratio = 2.00 L:W 5.00 Watershed Area = acres Watershed Imperviousness = 22.4% percent 0.0% Percentage Hydrologic Soil Group A = percent 100.0% Percentage Hydrologic Soil Group B = percent Percentage Hydrologic Soil Groups C/D = 0.0% percent Location for 1-hr Rainfall Depths (use dropdown): User Input ▼

User Input: Detention Basin Characteristics

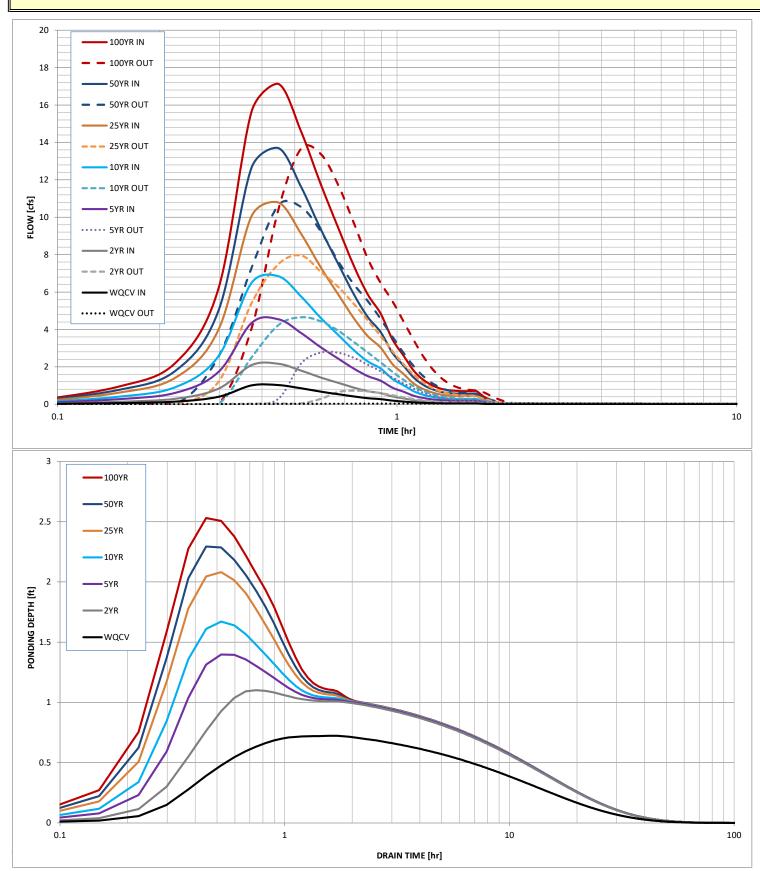
WQCV Design Drain Time = 12.00 hours

User Defined	User Defined	User Defined	User Defined	
Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]	
0.00	1,935	0.00	0.00	
1.00	2,718	1.00	0.05	
2.00	3,613	2.00	6.95	
3.00	4,621	3.00	19.73	
4.00	5,745	4.00	83.61	

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	25 Year	50 Year	100 Year		
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.00	2.25	2.52	in	
Calculated Runoff Volume =	0.041	0.086	0.182	0.275	0.433	0.551	0.688	acre-ft	
OPTIONAL Override Runoff Volume =								acre-ft	
Inflow Hydrograph Volume =	0.041	0.086	0.182	0.275	0.433	0.550	0.688	acre-ft	
Time to Drain 97% of Inflow Volume =	40	37	29	24	19	17	14	hours	
Time to Drain 99% of Inflow Volume =	52	49	41	36	32	29	26	hours	
Maximum Ponding Depth =	0.72	1.10	1.40	1.67	2.08	2.29	2.53	ft	
Maximum Ponded Area =	0.057	0.064	0.070	0.076	0.085	0.090	0.095	acres	
Maximum Volume Stored =	0.037	0.060	0.080	0.100	0.133	0.151	0.173	acre-ft	



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