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Stormwater Facility Name: WATER QUALITY POND B

Facility Location & Jurisdiction: WINSOME FILING NO 1, EL PASO COUNTY

User Input: Watershed Characteristics

Watershed Slope = 0.019 ft/ft 1048 Watershed Length = ft Watershed Area = 11.00 acres 11.0% Watershed Imperviousness = percent Percentage Hydrologic Soil Group A = 0.0% percent Percentage Hydrologic Soil Group B = 100.0% percent Percentage Hydrologic Soil Groups C/D = 0.0% percent

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

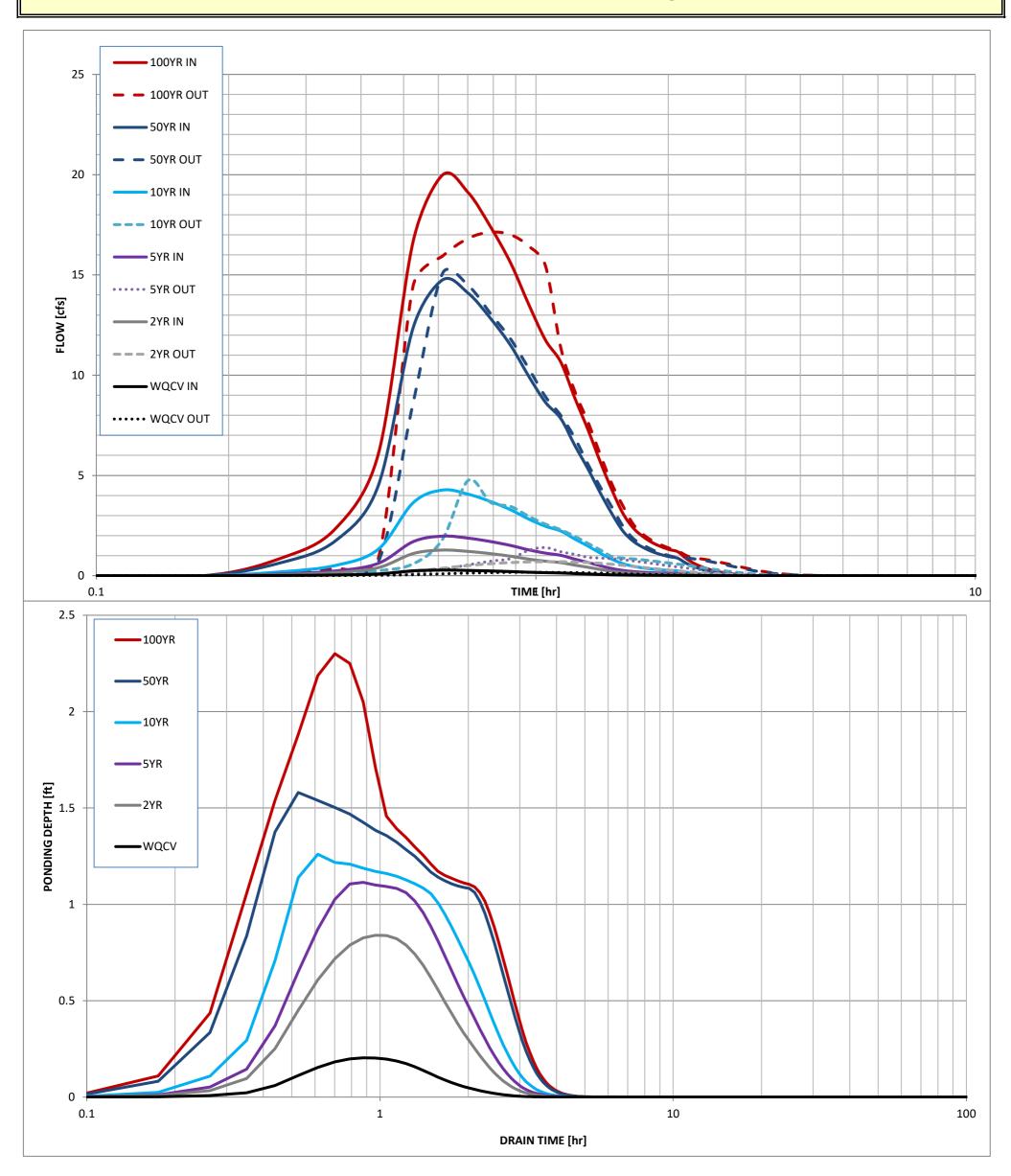
User Input

WQCV Treatment Method = Extended Detention

User Defined	User Defined	User Defined	User Defined
Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]
0.00	1,064	0.00	0.00
1.00	2,091	1.08	0.90
2.00	3,221	1.13	1.70
3.00	4,547	1.14	1.90
4.00	5,974	1.25	4.50
		1.46	11.50
		1.55	15.00
		2.28	17.10
		4.00	20.00

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.

	Mouteu Hyure	Si apii Kesaits					
Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.067	0.080	0.123	0.268	0.939	1.277	acre-ft
OPTIONAL Override Runoff Volume =	0.02						acre-ft
Inflow Hydrograph Volume =	0.017	0.079	0.122	0.268	0.938	1.276	acre-ft
Time to Drain 97% of Inflow Volume =	2.5	2.6	2.7	2.6	2.5	2.3	hours
Time to Drain 99% of Inflow Volume =	2.9	3.1	3.2	3.1	3.1	3.0	hours
Maximum Ponding Depth =	0.20	0.84	1.11	1.26	1.58	2.30	ft
Maximum Ponded Area =	0.03	0.04	0.05	0.05	0.06	0.08	acres
Maximum Volume Stored =	0.005	0.029	0.042	0.049	0.068	0.121	acre-ft



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Stormwater Facility Name: WATER QUALITY POND C

Facility Location & Jurisdiction: WINSOME FILING NO 1, EL PASO COUNTY

User Input: Watershed Characteristics

Watershed Slope = 0.026 ft/ft Watershed Length = 6193 ft Watershed Area = 136.50 acres Watershed Imperviousness = 3.7% percent Percentage Hydrologic Soil Group A = 0.0% percent Percentage Hydrologic Soil Group B = 100.0% percent Percentage Hydrologic Soil Groups C/D = 0.0% percent

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

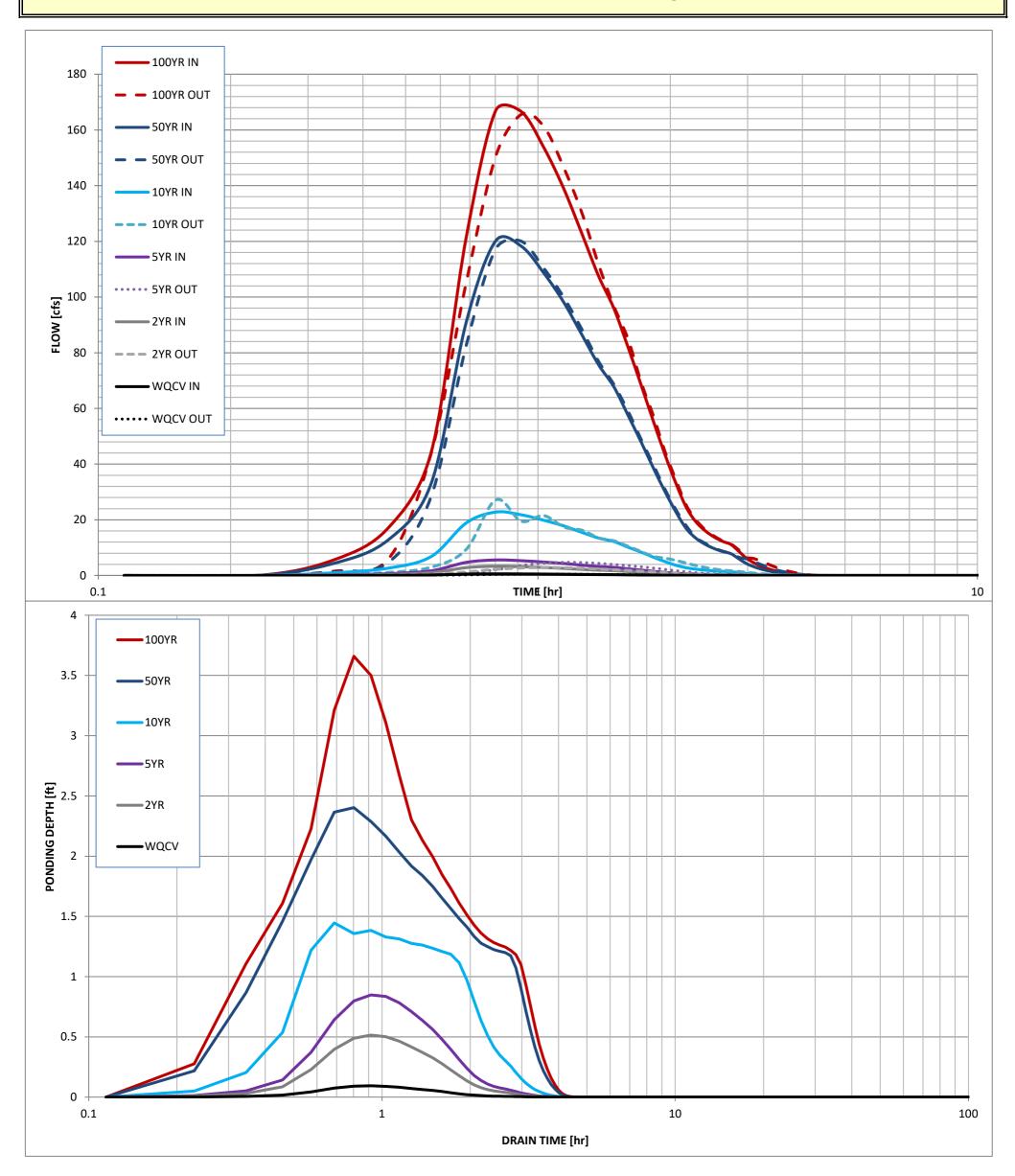
User Input lacktriangle

WQCV Treatment Method = Extended Detention

User Defined User Defined User Defined User Defined Stage [ft] Area [ft^2] Stage [ft] Discharge [cfs] 0.00 2,847 0.00 0.00 1.00 4,198 1.18 6.60 2.00 5,625 1.41 23.60 3.00 7,312 1.99 84.80 9,122 2.39 119.70 4.00 5.00 10,981 3.61 165.50 5.00 166.90

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WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
0.53	1.19	1.50	1.75	2.25	2.52	in
0.310	0.273	0.461	1.910	10.442	14.689	acre-ft
0.05						acre-ft
0.048	0.272	0.460	1.910	10.437	14.686	acre-ft
1.9	2.1	2.1	2.2	0.9	0.9	hours
2.5	2.6	2.6	2.7	2.4	1.8	hours
0.09	0.51	0.85	1.45	2.40	3.66	ft
0.07	0.08	0.09	0.11	0.14	0.20	acres
0.006	0.038	0.066	0.127	0.249	0.461	acre-ft
	WQCV 0.53 0.310 0.05 0.048 1.9 2.5 0.09 0.07	0.53	WQCV 2 Year 5 Year 0.53 1.19 1.50 0.310 0.273 0.461 0.05 0.048 0.272 0.460 1.9 2.1 2.1 2.5 2.6 2.6 0.09 0.51 0.85 0.07 0.08 0.09	WQCV 2 Year 5 Year 10 Year 0.53 1.19 1.50 1.75 0.310 0.273 0.461 1.910 0.05 0.048 0.272 0.460 1.910 1.9 2.1 2.1 2.2 2.5 2.6 2.7 2.7 0.09 0.51 0.85 1.45 0.07 0.08 0.09 0.11	WQCV 2 Year 5 Year 10 Year 50 Year 0.53 1.19 1.50 1.75 2.25 0.310 0.273 0.461 1.910 10.442 0.05 0.048 0.272 0.460 1.910 10.437 1.9 2.1 2.1 2.2 0.9 2.5 2.6 2.6 2.7 2.4 0.09 0.51 0.85 1.45 2.40 0.07 0.08 0.09 0.11 0.14	WQCV 2 Year 5 Year 10 Year 50 Year 100 Year 0.53 1.19 1.50 1.75 2.25 2.52 0.310 0.273 0.461 1.910 10.442 14.689 0.05 0.048 0.272 0.460 1.910 10.437 14.686 1.9 2.1 2.1 2.2 0.9 0.9 2.5 2.6 2.6 2.7 2.4 1.8 0.09 0.51 0.85 1.45 2.40 3.66 0.07 0.08 0.09 0.11 0.14 0.20



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Stormwater Facility Name: WATER QUALITY POND D

Facility Location & Jurisdiction: WINSOME FILING NO 1, EL PASO COUNTY

User Input: Watershed Characteristics

Watershed Slope = 0.034 ft/ft 4370 Watershed Length = ft Watershed Area = 127.00 acres percent Watershed Imperviousness = 7.6% Percentage Hydrologic Soil Group A = 0.0% percent Percentage Hydrologic Soil Group B = 100.0% percent Percentage Hydrologic Soil Groups C/D = 0.0% percent

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

User Input lacktriangle

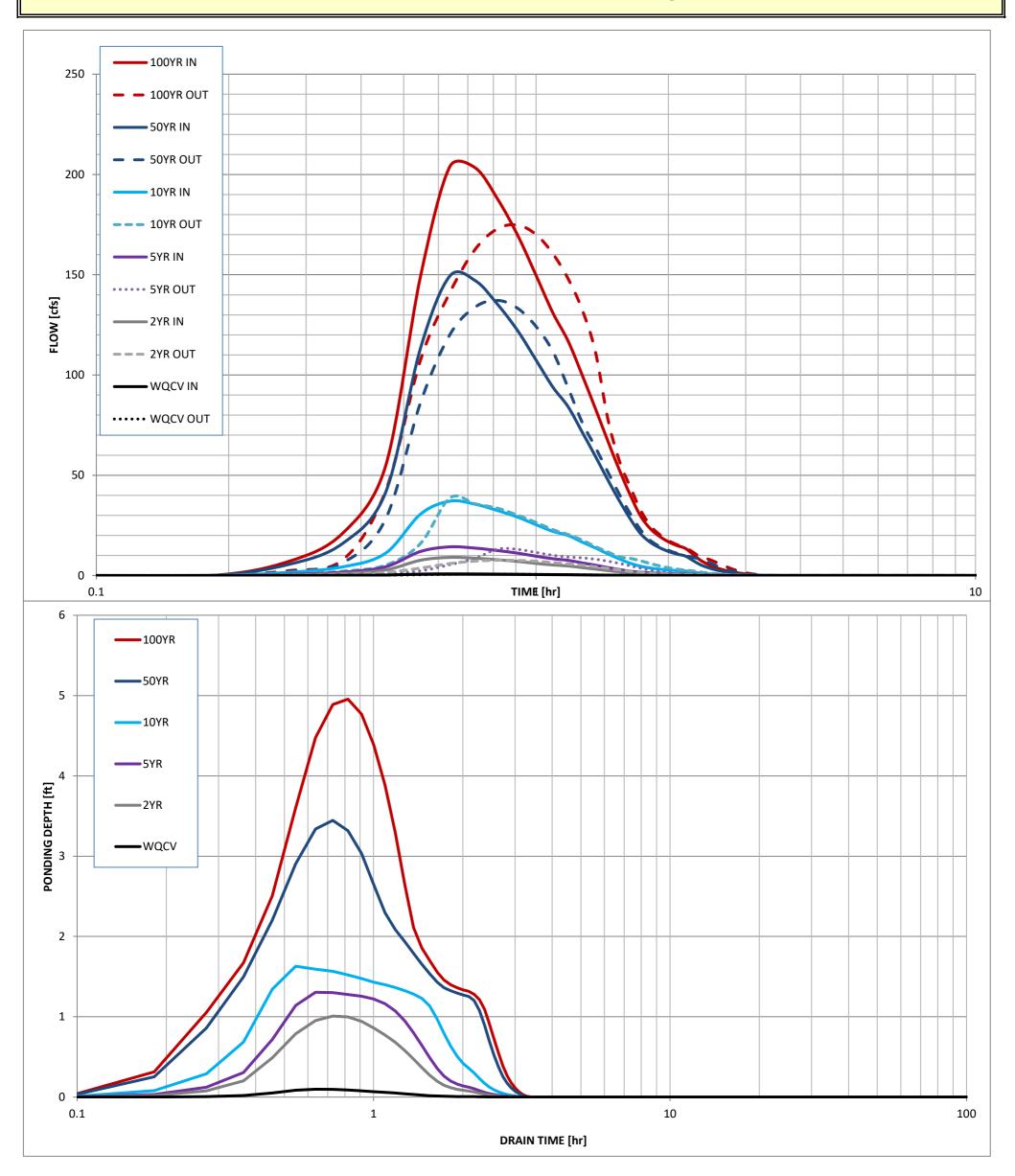
WQCV Treatment Method = Extended Detention

Extended Detention

Stage [ft] Area [ft^2] Stage [ft] Discharge [cfs] 0.00 1,897 0.00 0.00 1.00 4,904 1.24 9.40 1.32 14.20 2.00 10,182 3.00 15,560 1.60 36.40 19,241 2.43 4.00 105.00 5.00 23,109 3.43 136.80 4.94 6.00 25,546 174.30 6.00 203.90

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Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.559	0.594	0.945	2.479	10.317	14.240	acre-ft
OPTIONAL Override Runoff Volume =	0.05						acre-ft
Inflow Hydrograph Volume =	0.050	0.594	0.944	2.479	10.307	14.240	acre-ft
Time to Drain 97% of Inflow Volume =	1.4	1.5	1.6	1.7	1.2	1.3	hours
Time to Drain 99% of Inflow Volume =	1.7	1.8	1.9	2.0	2.3	1.7	hours
Maximum Ponding Depth =	0.10	1.01	1.31	1.63	3.45	4.96	ft
Maximum Ponded Area =	0.05	0.11	0.15	0.19	0.39	0.53	acres
Maximum Volume Stored =	0.005	0.079	0.117	0.172	0.714	1.405	acre-ft



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Stormwater Facility Name: DETENTION POND 3

Facility Location & Jurisdiction: WINSOME FILING NO 1, EL PASO COUNTY

User Input: Watershed Characteristics

Watershed Slope = 0.029 ft/ft 6480 Watershed Length = ft Watershed Area = 101.00 acres Watershed Imperviousness = 6.6% percent Percentage Hydrologic Soil Group A = 0.0% percent Percentage Hydrologic Soil Group B = 97.5% percent Percentage Hydrologic Soil Groups C/D = 2.5% percent

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

User Input

WQCV Treatment Method = Extended Detention

User Defined	User Defined	User Defined	User Defined	
Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]	
0.00	989	0.00	0.00	
1.00	13,752	1.36	0.40	
2.00	39,772	1.66	0.50	
3.00	44,956	1.73	0.50	
4.00	50,317	2.95	0.70	
5.00	55,782	4.07	31.10	
6.00	61,372	4.88	41.00	
7.00	67,078	6.04	52.00	
8.00	73,314	8.00	116.50	

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.

	Mouteu Hyure	Si apii Kesaits					_
Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.392	0.401	0.659	1.857	8.114	11.244	acre-ft
OPTIONAL Override Runoff Volume =	0.01	0.26	0.42	1.20	5.22	7.24	acre-ft
Inflow Hydrograph Volume =	0.014	0.257	0.424	1.194	5.221	7.231	acre-ft
Time to Drain 97% of Inflow Volume =	6.3	16.1	19.9	34.0	39.7	37.6	hours
Time to Drain 99% of Inflow Volume =	7.5	17.9	22.1	37.1	45.6	44.3	hours
Maximum Ponding Depth =	0.17	1.10	1.41	2.31	3.94	4.57	ft
Maximum Ponded Area =	0.07	0.37	0.56	0.95	1.15	1.23	acres
Maximum Volume Stored =	0.008	0.203	0.345	1.059	2.774	3.527	acre-ft

