Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected Worksheet Protected

Stormwater Facility Name: Pond 1

Facility Location & Jurisdiction: Bradley Point Filing No. 1

User Input: Watershed Characteristics

Watershed Slope =	0.006	ft/ft
Watershed Length =	500	ft
Watershed Area =	4.47	acres
Watershed Imperviousness =	82.0%	percent
Percentage Hydrologic Soil Group A =	100.0%	percent
Percentage Hydrologic Soil Group B =	0.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent

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

WQCV Treatment Method = Sand Filter

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	3,863	0.00	0.00
1.00	4,725	1.00	0.44
2.00	5,661	2.00	0.63
3.00	6,669	3.00	0.74
4.00	7,749	4.00	0.86
5.00	8,901	5.00	0.99
6.00	10,125	6.00	1.13
7.00	11,421	7.00	1.27

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	50 Year	100 Year	
One-Hour Rainfall Depth =	0.50	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.102	0.336	0.431	0.522	0.734	0.843	acre-ft
OPTIONAL Override Runoff Volume =	0.12	0.12	0.17	0.22	0.50	0.70	acre-ft
Inflow Hydrograph Volume =	0.121	0.117	0.167	0.214	0.503	0.699	acre-ft
Time to Drain 97% of Inflow Volume =	9.6	9.6	**9.8**	10.2	12.8	14.5	hours
Time to Drain 99% of Inflow Volume =	12.3	12.3	12.5	12.9	15.5	**17.2**	hours
Maximum Ponding Depth =	0.90	0.88	1.23	1.56	3.35	4.35	ft
Maximum Ponded Area =	0.11	0.11	0.11	0.12	0.16	**0.19**	acres
Maximum Volume Stored =	0.088	0.085	0.124	0.162	0.413	0.588	acre-ft

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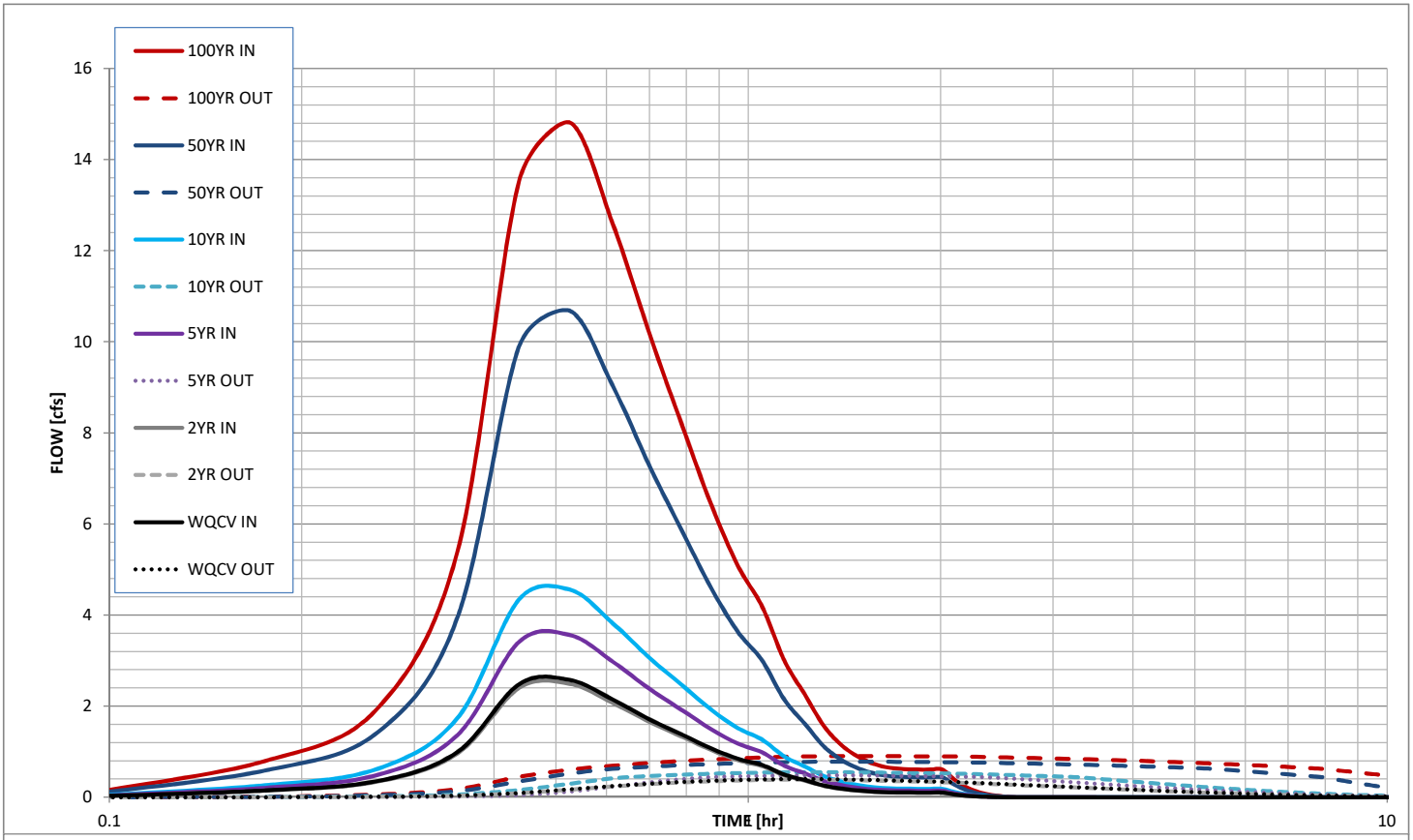

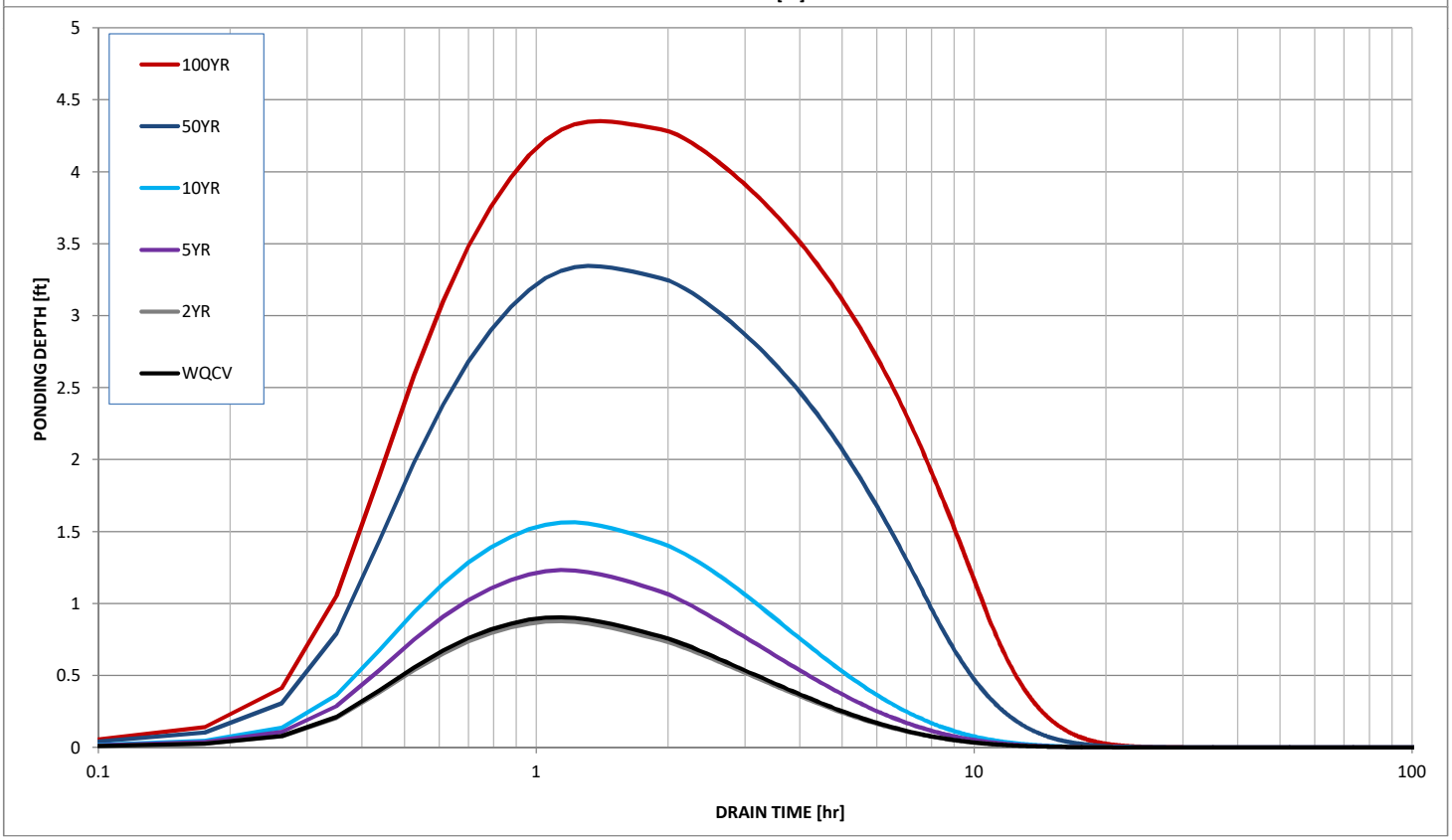

Stormwater Detention and Infiltration Design Data Sheet

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Stormwater Facility Name: Pond 2

Facility Location & Jurisdiction: Bradley Point Filing No. 1

User Input: Watershed Characteristics

Watershed Slope =	0.010	ft/ft
Watershed Length =	640	ft
Watershed Area =	4.17	acres
Watershed Imperviousness =	80.0%	percent
Percentage Hydrologic Soil Group A =	100.0%	percent
Percentage Hydrologic Soil Group B =	0.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent

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

WQCV Treatment Method = Sand Filter

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	3,307	0.00	0.00
1.00	4,162	1.00	0.38
2.00	5,089	2.00	0.56
3.00	6,089	3.00	0.68
4.00	7,160	4.00	0.79
5.00	8,303	5.00	0.92
6.00	9,518	6.00	1.06
7.00	10,804	7.00	1.20

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Routed Hydrograph Results

Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.50	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.091	0.302	0.389	0.472	0.670	0.771	acre-ft
OPTIONAL Override Runoff Volume =	0.12	0.12	0.17	0.22	0.50	0.70	acre-ft
Inflow Hydrograph Volume =	0.121	0.117	0.167	0.214	0.503	0.699	acre-ft
Time to Drain 97% of Inflow Volume =	9.7	9.7	**10.1**	10.4	13.3	15.2	hours
Time to Drain 99% of Inflow Volume =	12.3	12.3	12.7	13.1	15.9	**17.8**	hours
Maximum Ponding Depth =	1.01	0.98	1.38	1.74	3.62	4.66	ft
Maximum Ponded Area =	0.10	0.10	0.10	0.11	0.15	**0.18**	acres
Maximum Volume Stored =	0.087	0.084	0.123	0.162	0.411	0.585	acre-ft

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