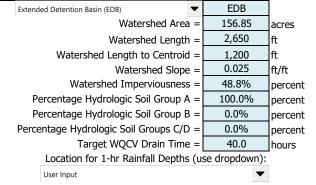
Stormwater Detention and Infiltration Design Data Sheet

SDI-Design Data v2.00, Released January 2020

Stormwater Facility Name: Sterling Ranch East Filing No. 1 - Pond 14A

Facility Location & Jurisdiction: Sterling Ranch Metropolitan District - Private Facility

User Input: Watershed Characteristics



After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'.

User Defined	User Defined	User Defined User Defined		
Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]	
0.00	1,070	0.00	0.00	
0.50	1,070	0.50	0.14	
1.00	1,835	1.00	0.20	
2.00	15,728	2.00	0.28	
3.00	47,089	3.00	0.83	
5.00	103,984	5.00	1.90	
7.00	129,654	7.00	12.36	
9.00	144,608	9.00	123.85	
11.00	160,255	11.00	1889.70	
12.00	168,321	12.00	3597.60	

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	
N/A	1.19	1.50	1.75	2.25	2.52	in
2.653	6.608	8.791	10.519	16.062	19.552	acre-ft
N/A	6.608	8.791	10.519	16.062	19.552	acre-ft
40.8	56.2	56.5	56.4	53.2	51.2	hours
43.7	62.5	64.4	65.3	63.8	62.3	hours
4.18	5.65	6.32	6.81	7.76	8.39	ft
1.85	2.58	2.77	2.92	3.10	3.21	acres
2.671	6.029	7.781	9.208	12.055	14.060	acre-ft
	N/A 2.653 N/A 40.8 43.7 4.18 1.85	N/A 1.19 2.653 6.608 N/A 6.608 40.8 56.2 43.7 62.5 4.18 5.65 1.85 2.58	N/A 1.19 1.50 2.653 6.608 8.791 N/A 6.608 8.791 40.8 56.2 56.5 43.7 62.5 64.4 4.18 5.65 6.32 1.85 2.58 2.77	N/A 1.19 1.50 1.75 2.653 6.608 8.791 10.519 N/A 6.608 8.791 10.519 N/A 6.608 8.791 10.519 40.8 56.2 56.5 56.4 43.7 62.5 64.4 65.3 4.18 5.65 6.32 6.81 1.85 2.58 2.77 2.92	N/A 1.19 1.50 1.75 2.25 2.653 6.608 8.791 10.519 16.062 N/A 6.608 8.791 10.519 16.062 40.8 56.2 56.5 56.4 53.2 43.7 62.5 64.4 65.3 63.8 4.18 5.65 6.32 6.81 7.76 1.85 2.58 2.77 2.92 3.10	N/A 1.19 1.50 1.75 2.25 2.52 2.653 6.608 8.791 10.519 16.062 19.552 N/A 6.608 8.791 10.519 16.062 19.552 N/A 6.608 8.791 10.519 16.062 19.552 40.8 56.2 56.5 56.4 53.2 51.2 43.7 62.5 64.4 65.3 63.8 62.3 4.18 5.65 6.32 6.81 7.76 8.39 1.85 2.58 2.77 2.92 3.10 3.21

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