

SPI-Design Data v2.00, Released January 2020

Facility Location & Jurisdiction: **2510 & 2522 Canada DR, Colorado Springs, Co 80922; El Paso County MS4**

Extended Detention Basin (EDB)		EDB	
Watershed Area =	2.59	acres	
Watershed Length =	400	ft	
Watershed Length to Centroid =	175	ft	
Watershed Slope =	0.050	ft/ft	
Watershed Imperviousness =	68.1%	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	
Target WQCV Drain Time =	40.0	hours	

User Input

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'.

[illegible]

<https://maperture.digitaldataservices.com/qvh/?viewer=cswdif>

Create a new stormwater facility, and attach the PDF of this worksheet to that record.

	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
Design Storm Return Period =							
One-Hour Rainfall Depth =	N/A	1.19	1.50	1.75	2.25	2.52	in
CUHP Runoff Volume =	0.058	0.148	0.193	0.229	0.321	0.376	acre-ft
Inflow Hydrograph Volume =	N/A	0.148	0.193	0.229	0.321	0.376	acre-ft
Time to Drain 97% of Inflow Volume =	57.4	58.2	57.7	57.0	51.9	49.3	hours
Time to Drain 99% of Inflow Volume =	75.4	76.1	75.6	75.0	69.9	67.3	hours
Maximum Ponding Depth =	0.91	2.14	2.77	3.28	3.74	3.95	ft
Maximum Poned Area =	0.06	0.06	0.06	0.06	0.06	0.06	acres
Maximum Volume Stored =	0.058	0.135	0.175	0.207	0.236	0.249	acre-ft

Stormwater Detention and Infiltration Design Data Sheet

