

# Single Stormwater Detention Facility Data Sheet

Project title: *(Insert project name, and location here)*

**Notes to developer's civil engineer:**

- 1) The data shown hereon is for a fictitious example.
  - 2) Actual data will replace example data shown in blue font(*blue when displayed on computer screen*).
  - 3) When the detention element of a stormwater pond is "stacked on top" of Water Quality element of a pond, assume WQ pond element is full at start of 2-100 year design storm.
  - 4) Delete these notes (in red) and fill in the information (in blue) and submit with plots of hydrographs.
- in the drainage report. (red or blue when displayed on computer screen)*

Storm Drain connection from:	
Impervious area =	xx
Pervious area =	xx
Pervious area CN =	xx
Tc =	xx
Peak Q2 =	xx
Peak Q10 =	xx
Peak Q25 =	xx
Peak Q100 =	xx

For stormwater ponds with combined water quality and quantity functions	
Water surface elevation at maximum WQ depth =	xxx.xx

Combined Information	
Peak Q2 =	xx
Peak Q10 =	xx
Peak Q25 =	xx
Peak Q100 =	xx
Attached plot of (Q2, Q10, & Q25) hydrograph	

Stage/Discharge/Storage Data				
<i>(Note: Provide data at each change point in the stage/discharge or stage/storage)</i>				
Pond Water Surface Elev (feet)	Data Number	Stage Relative Elev (feet)	Discharge (cfs)	Storage Volume (cubic-feet)
245.30	1	0.00	0.000	0
246.00	3	0.70	0.055	1,405
247.00	4	1.70	0.085	3,976
247.20	5	1.90	0.090	4,625
248.00	6	2.70	0.107	7,222
248.70	7	3.40	0.120	10,005
249.00	8	3.70	0.125	11,197
249.30	9	4.00	0.130	12,464
250.00	10	4.70	0.141	15,421

Storm Drain connection from:	
Impervious area =	xx
Pervious area =	xx
Pervious area CN =	xx
Tc =	xx
Peak Q2 =	xx
Peak Q10 =	xx
Peak Q25 =	xx
Peak Q100 =	xx

Results:	
Water surface Elevation for:	
Q2 ws elev =	XX
Q10 ws elev =	XX
Q25 ws elev =	XX
Q100 ws elev =	XX

Results:	Hydrograph out from facility.	Add flow from undetained areas	Totals
Peak Qwg =			
Peak Q2 =	xxx	xxx	YYY
Peak Q10 =	xxx	xxx	YYY
Peak Q25 =	xxx	xxx	YYY
Peak Q100 =	xxx	xxx	YYY
Attached plot of (Q2 through Q25) hydrograph			

Comparison with Pre-developed Condition	
Peak Q2 =	XX
Peak Q10 =	XX
Peak Q25 =	XX
Peak Q100 =	XX
Attached plot of (Q2, Q10, & Q25) hydrograph	

Compare

Stormwater detention facility flow control elevations data			
Type	Datum Elevation (ft)	Diameter (inch)	Orifice/Weir Coef
Detention Orifice (#1)	245.30	1.55	0.62
Detention Orifice (#2)	247.20	3.64	0.62
Detention Orifice (#3)	248.70	6.32	0.62
Spillway	249.30	4.74	2.6

4.71' length

