

**Development with stormwater ponds in series**

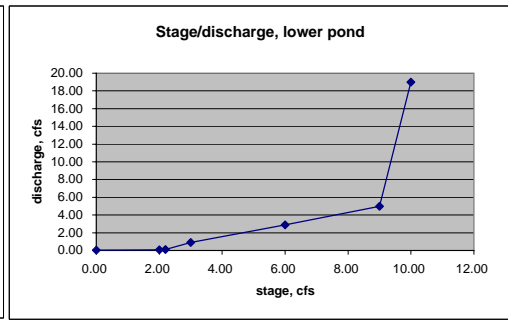
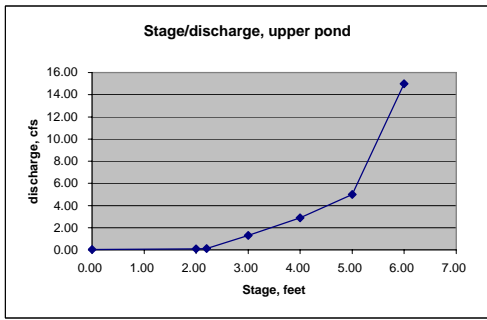
**A Communication graphic for quality and quantity control facility design results**

**Note:**  
*This is a fictitious example, for purposes of illustration*  
*Actual data will replace example data.*  
 An abbreviated version of this graphic can be used for single pond systems

Example developed by MEB of COB

Storm Drain connection from \_\_\_\_\_  
 Impervious area = \_\_\_\_  
 Pervious area = \_\_\_\_  
 Pervious area CN = \_\_\_\_  
 Tc = \_\_\_\_  
 Peak Qwq = \_\_\_\_  
 Peak Q2 = 11.74  
 Peak Q10 = 19.19  
 Peak Q25 = 22.91  
 Peak Q100 = 28.00

Storm Drain connection from \_\_\_\_\_  
 Impervious area = 0.26  
 Pervious area = 0.11  
 Pervious area CN = 84.00  
 Tc = 5.00  
 Peak Qwq = \_\_\_\_  
 Peak Q2 = 0.19  
 Peak Q10 = 0.29  
 Peak Q25 = 0.33  
 Peak Q100 = 0.39



**Combined Information**  
 Peak Q2 = 27.14  
 Peak Q10 = 43.94  
 Peak Q25 = 52.28  
 Peak Q100 = 62.56  
 Attached plot of (Q2 through Q25) hydrograph

Upper Pond (Provide data point at each change)				
Pond Water Surface Elev (feet)	Data Number	Stage Relative Elev (feet)	Discharge (cfs)	Storage Volume (cubic-feet)
322.00	1	0.00	0.03	0
324.00	2	2.00	0.09	12,500
324.20	3	2.20	0.12	14,500
325.00	4	3.00	1.30	24,000
326.00	5	4.00	2.90	40,000
327.00	6	5.00	5.00	61,000
328.00	7	6.00	15.00	80,000

**Hydrograph out from upper pond to lower pond.**  
 Peak Q2 = 9.39  
 Peak Q10 = 40.87  
 Peak Q25 = 51.54  
 Peak Q100 = 64.08  
 Attached plot of (Q2 through Q25) hydrograph

**Combined Information**  
 Peak Q2 = 10.13  
 Peak Q10 = 41.97  
 Peak Q25 = 52.88  
 Peak Q100 = 65.56  
 Attached plot of (Q2 through Q25) hydrograph

Lower Pond (Provide data points at each change)				
Pond Water Surface Elev (feet)	Data Number	Stage Relative Elev (feet)	Discharge (cfs)	Storage Volume (cubic-feet)
296.00	1	0.00	0.03	0
298.00	2	2.00	0.09	10,000
298.20	3	2.20	0.10	10,450
299.00	4	3.00	0.90	17,000
302.00	5	6.00	2.90	45,000
305.00	6	9.00	5.00	74,000
306.00	7	10.00	19.00	85,000

Storm Drain connection from \_\_\_\_\_  
 Impervious area = \_\_\_\_  
 Pervious area = \_\_\_\_  
 Pervious area CN = \_\_\_\_  
 Tc = \_\_\_\_  
 Peak Qwq = \_\_\_\_  
 Peak Q2 = 11.74  
 Peak Q10 = 19.19  
 Peak Q25 = 22.91  
 Peak Q100 = 34.56

**Results:**  
 Water surface Elevation for:  
 Qwq ws elev = \_\_\_\_  
 Q2 ws elev = 327.05  
 Q10 ws elev = 327.31  
 Q25 ws elev = 327.37  
 Q100 ws elev = 327.44

Storm Drain connection from \_\_\_\_\_  
 Impervious area = 0.85  
 Pervious area = 0.27  
 Pervious area CN = 80  
 Tc = 7.36  
 Peak Qwq = 0.08  
 Peak Q2 = 0.55  
 Peak Q10 = 0.81  
 Peak Q25 = 0.93  
 Peak Q100 = 1.09

**Results:**  
 Water surface Elevation for:  
 Qwq ws elev = \_\_\_\_  
 Q2 ws elev = 303.53  
 Q10 ws elev = 305.99  
 Q25 ws elev = 307.03  
 Q100 ws elev = 308.69

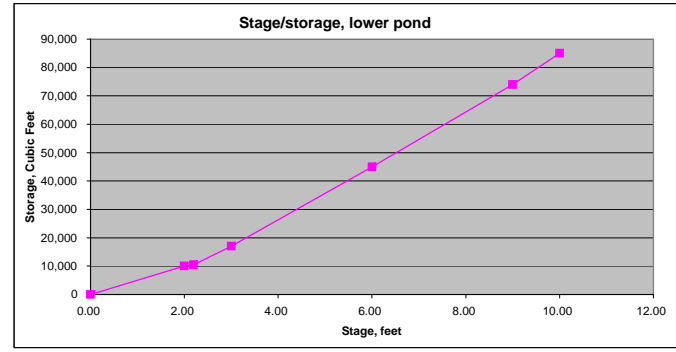
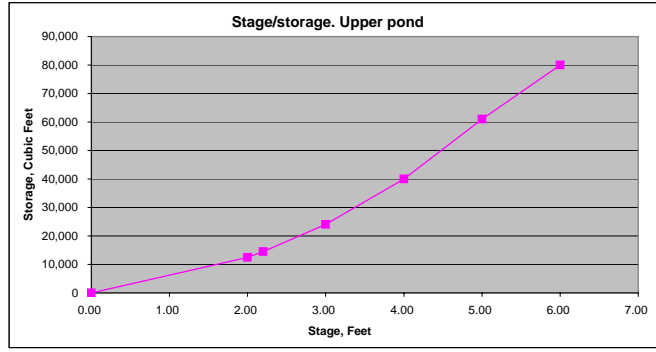
Results:	Hydrograph out from lower pond.	Add flow from undefined areas	Totals
Peak Qwq =			
Peak Q2 =	xxx	xxx	yyy
Peak Q10 =	7.85	xxx	yyy
Peak Q25 =	19.20	xxx	yyy
Peak Q100 =	25.70	xxx	yyy

Attached plot of (Q2 through Q25) hydrograph

Comparison with Pre-developed Condition	
Peak Q2 =	10.89
Peak Q10 =	21.20
Peak Q25 =	26.50
Peak Q100 =	33.60

Attached plot of (Q2 through Q25) hydrograph =

Compare



Flow control elevations data		
Upper Pond		
Type	Elevation	Diameter
Orifice	332.00	
Orifice	324.20	
Spillway	327.00	
Lower Pond		
Type	Elevation	Diameter
Orifice	296.00	
Orifice	298.20	
Spillway	305.00	