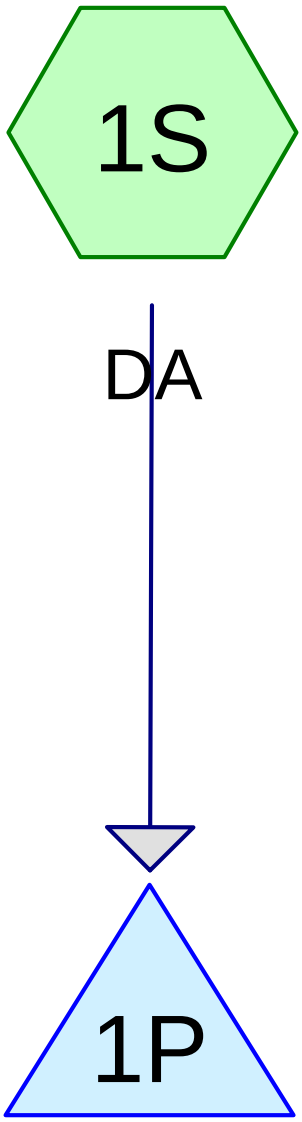


SG 6x4

Subcat Reach Pond Link

Routing Diagram for SG-6x4_(RCN-98)
Prepared by {enter your company name here}, Printed 1/30/2018

Summary for Pond 1P: SG 6x4

Inflow Area = 0.100 ac,100.00% Impervious, Inflow Depth = 0.79" for WQv Storm event
Inflow = 0.13 cfs @ 11.96 hrs, Volume= 0.007 af
Outflow = 0.08 cfs @ 11.90 hrs, Volume= 0.006 af, Atten= 37%, Lag= 0.0 min
Primary = 0.08 cfs @ 11.90 hrs, Volume= 0.006 af

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 0.74' @ 12.04 hrs Surf.Area= 24 sf Storage= 18 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 3.2 min (787.8 - 784.6)

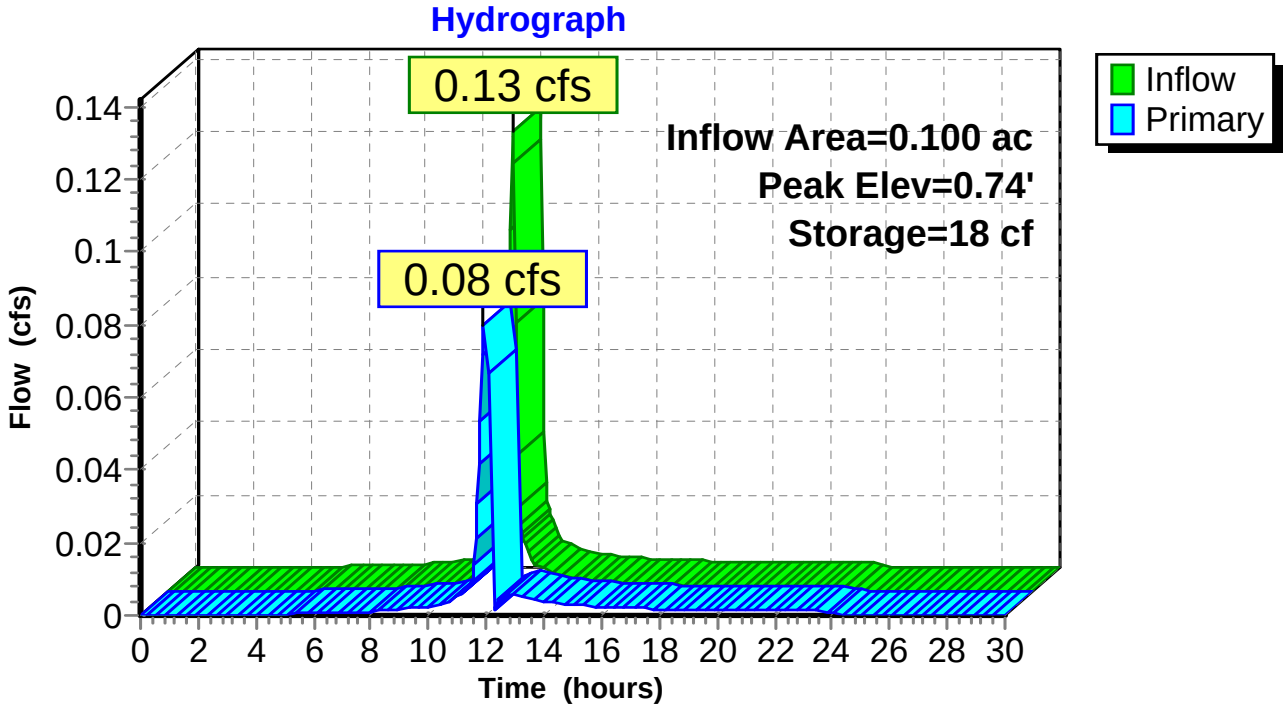
Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	18 cf	**Storage Above Filter (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
0.00	24	0	0
0.75	24	18	18

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	**0.08 cfs Exfiltration (k = 140 in/hr) at all elevations**

Primary OutFlow Max=0.08 cfs @ 11.90 hrs HW=0.06' (Free Discharge)
└**1=Exfiltration (k = 140 in/hr)** (Exfiltration Controls 0.08 cfs)

Pond 1P: SG 6x4



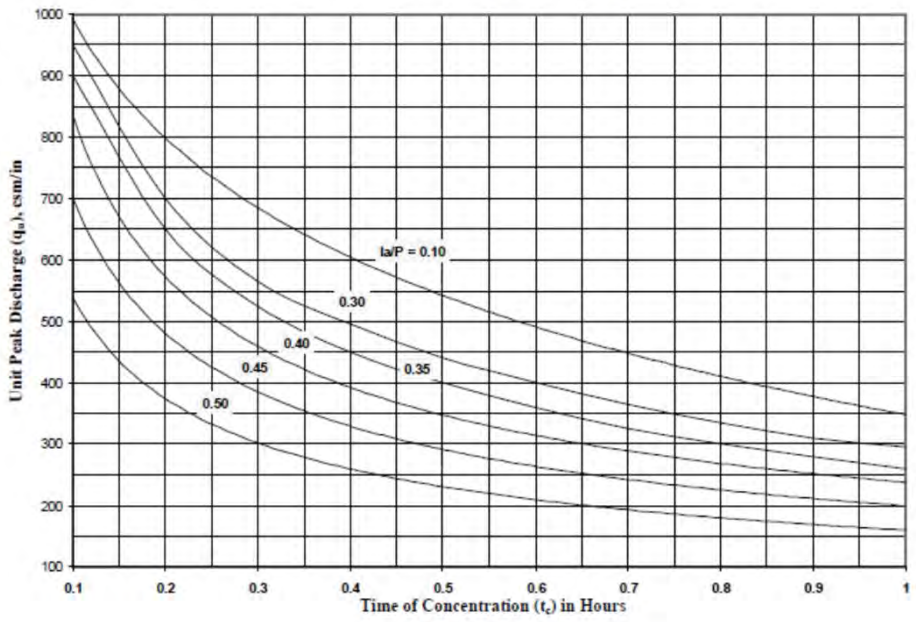
ROTONDO Environmental Solutions LLC

StormGarden Size: 6' x 4'
RCN: 98
Date: January 30, 2018

WQv Peak Discharge:

0.100	ac	= Contributing Drainage Area
0.087	ac	= Impervious Area
87.00%		= I (Percent Impervious)
1.00	in	= P (Rainfall Depth)
0.833		= Rv = 0.05 + 0.009(I)
0.833	in	= Qa = P x Rv
98		= CN (Curve Number)
6	min	= Tc (Time of Concentration)
0.0315		= Ia = (200/CN) - 2
0.0315		= Ia/P
1000	csm/in	= qu (from TR-55 exhibit 4-II)
0.0002	mi^2	= A (Area)
0.13	cfs	= Qp (Peak Discharge) = qu x A x Qa

Figure D.11.1 SCS Graphical Method of Determining Peak Discharge (q_u) in csm/in for 24-Hour Type II Storm Distribution



Summary for Pond 1P: SG 6x4

Inflow Area = 0.133 ac, 0.00% Impervious, Inflow Depth = 0.56" for WQv Storm event
Inflow = 0.13 cfs @ 11.97 hrs, Volume= 0.006 af
Outflow = 0.08 cfs @ 11.90 hrs, Volume= 0.006 af, Atten= 38%, Lag= 0.0 min
Primary = 0.08 cfs @ 11.90 hrs, Volume= 0.006 af

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 0.74' @ 12.05 hrs Surf.Area= 24 sf Storage= 18 cf

Plug-Flow detention time= 47.5 min calculated for 0.006 af (92% of inflow)
Center-of-Mass det. time= 6.9 min (827.9 - 820.9)

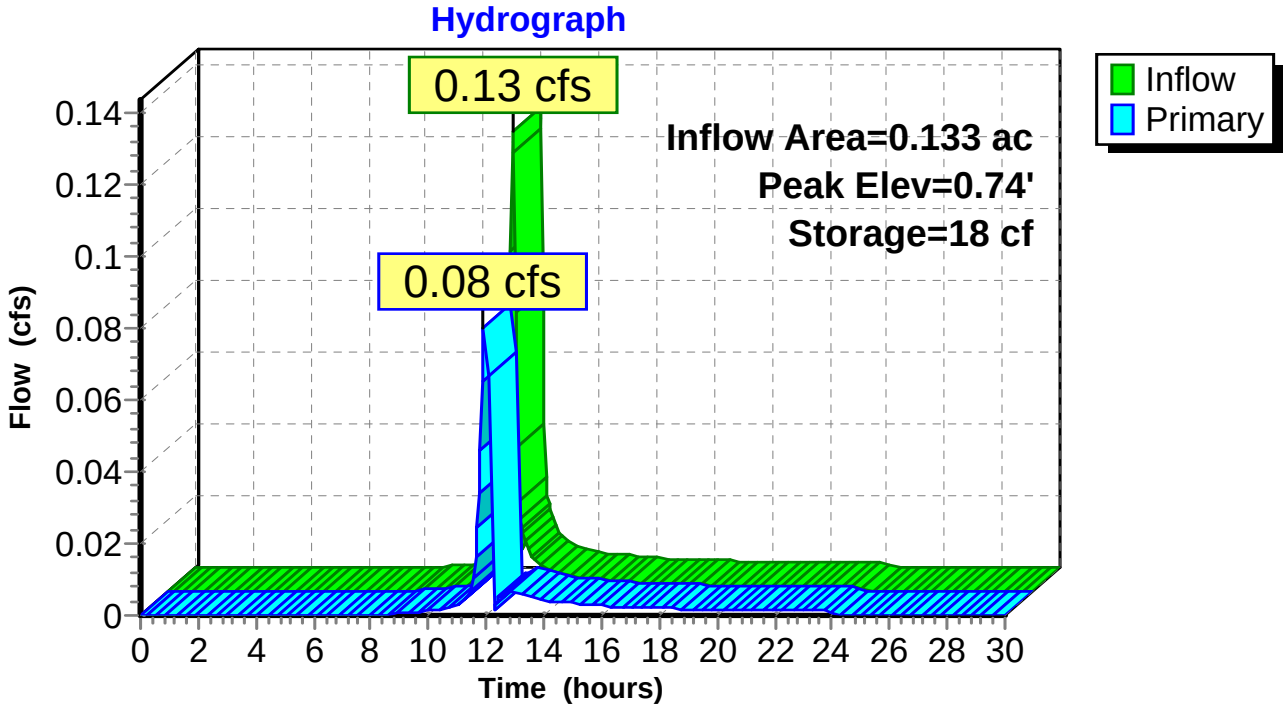
Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	18 cf	**Storage Above Filter (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
0.00	24	0	0
0.75	24	18	18

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	**0.08 cfs Exfiltration (k = 140 in/hr) at all elevations**

Primary OutFlow Max=0.08 cfs @ 11.90 hrs HW=0.04' (Free Discharge)
└**1=Exfiltration (k = 140 in/hr)** (Exfiltration Controls 0.08 cfs)

Pond 1P: SG 6x4



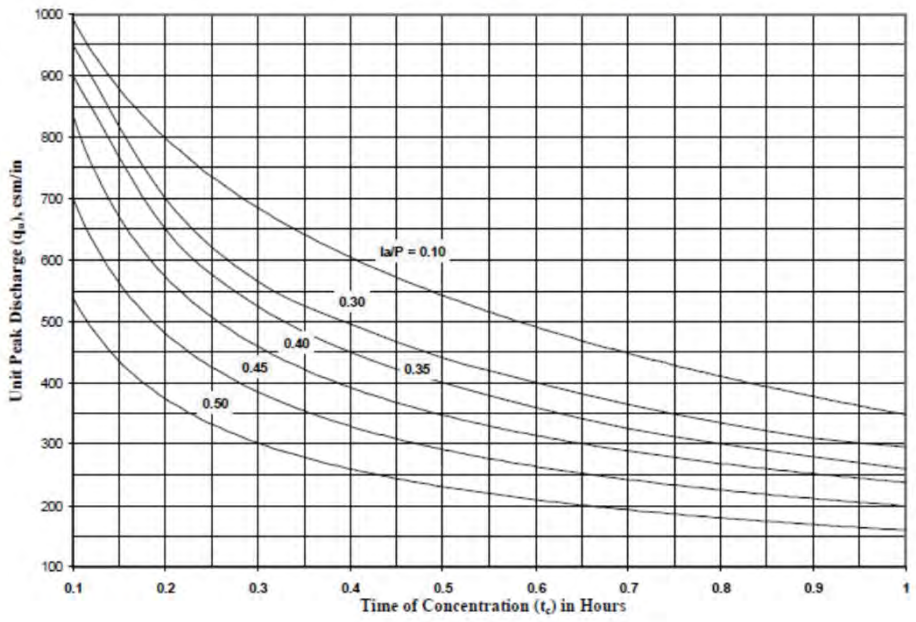
ROTONDO Environmental Solutions LLC

StormGarden Size: 6' x 4'
RCN: 95
Date: January 30, 2018

WQv Peak Discharge:

0.133	ac	= Contributing Drainage Area
0.080	ac	= Impervious Area
60.15%		= I (Percent Impervious)
1.00	in	= P (Rainfall Depth)
0.591		= Rv = 0.05 + 0.009(I)
0.591	in	= Qa = P x Rv
95		= CN (Curve Number)
6	min	= Tc (Time of Concentration)
0.0957		= Ia = (200/CN) - 2
0.0957		= Ia/P
1000	csm/in	= qu (from TR-55 exhibit 4-II)
0.0002	mi^2	= A (Area)
0.12	cfs	= Qp (Peak Discharge) = qu x A x Qa

Figure D.11.1 SCS Graphical Method of Determining Peak Discharge (q_u) in csm/in for 24-Hour Type II Storm Distribution



Summary for Pond 1P: SG 6x4

Inflow Area = 0.275 ac, 0.00% Impervious, Inflow Depth = 0.28" for WQv Storm event
Inflow = 0.13 cfs @ 11.98 hrs, Volume= 0.007 af
Outflow = 0.08 cfs @ 11.90 hrs, Volume= 0.007 af, Atten= 40%, Lag= 0.0 min
Primary = 0.08 cfs @ 11.90 hrs, Volume= 0.007 af

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 0.75' @ 12.06 hrs Surf.Area= 24 sf Storage= 18 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= (not calculated: outflow precedes inflow)

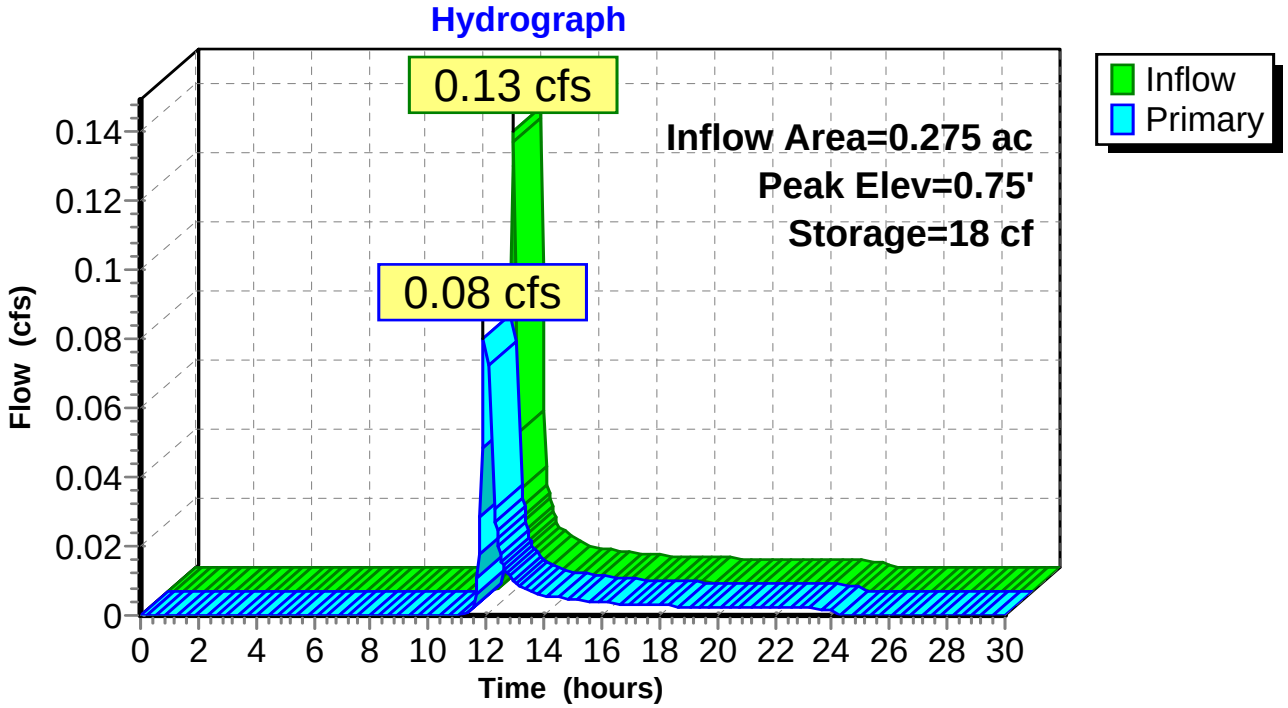
Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	18 cf	**Storage Above Filter (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
0.00	24	0	0
0.75	24	18	18

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	**0.08 cfs Exfiltration (k = 140 in/hr) at all elevations**

Primary OutFlow Max=0.08 cfs @ 11.90 hrs HW=0.01' (Free Discharge)
└**1=Exfiltration (k = 140 in/hr)** (Exfiltration Controls 0.08 cfs)

Pond 1P: SG 6x4



ROTONDO Environmental Solutions LLC

StormGarden Size: 6' x 4'
RCN: 89
Date: January 30, 2018

WQv Peak Discharge:

0.275	ac	= Contributing Drainage Area
0.077	ac	= Impervious Area
28.00%		= I (Percent Impervious)
1.00	in	= P (Rainfall Depth)
0.302		= Rv = 0.05 + 0.009(I)
0.302	in	= Qa = P x Rv
89		= CN (Curve Number)
6	min	= Tc (Time of Concentration)
0.2348		= Ia = (200/CN) - 2
0.2348		= Ia/P
1000	csm/in	= qu (from TR-55 exhibit 4-II)
0.0004	mi^2	= A (Area)
0.13	cfs	= Qp (Peak Discharge) = qu x A x Qa

Figure D.11.1 SCS Graphical Method of Determining Peak Discharge (q_u) in csm/in for 24-Hour Type II Storm Distribution