

Proposed Conditions AE

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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2 yr. storm	Type III 24-hr		Default	24.00	1	3.40	2
2	10 yr. storm	Type III 24-hr		Default	24.00	1	4.70	2
3	100 yr. storm	Type III 24-hr		Default	24.00	1	7.00	2

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
3.747	61	>75% Grass cover, Good, HSG B (SUB-1)
0.017	85	Gravel Driveway, HSG B (SUB-1)
0.156	98	Paved Driveway (SUB-1)
0.094	98	Roof (SUB-2)
4.013	63	TOTAL AREA

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Type III 24-hr 2 yr. storm Rainfall=3.40"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment SUB-1: Runoff Area=170,748 sf 3.98% Impervious Runoff Depth=0.61"
Tc=6.0 min CN=63 Runoff=2.14 cfs 0.200 af

Subcatchment SUB-2: Roof Runoff Area=4,073 sf 100.00% Impervious Runoff Depth=3.17"
Tc=6.0 min CN=98 Runoff=0.31 cfs 0.025 af

Reach DP-1: Inflow=2.14 cfs 0.200 af
Outflow=2.14 cfs 0.200 af

Pond 1P: Drywell Peak Elev=29.68' Storage=177 cf Inflow=0.31 cfs 0.025 af
Discarded=0.09 cfs 0.025 af Primary=0.00 cfs 0.000 af Outflow=0.09 cfs 0.025 af

Total Runoff Area = 4.013 ac Runoff Volume = 0.224 af Average Runoff Depth = 0.67"
93.78% Pervious = 3.764 ac 6.22% Impervious = 0.250 ac

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Type III 24-hr 2 yr. storm Rainfall=3.40"

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Summary for Subcatchment SUB-1:

Runoff = 2.14 cfs @ 12.11 hrs, Volume= 0.200 af, Depth= 0.61"
 Routed to Reach DP-1 :

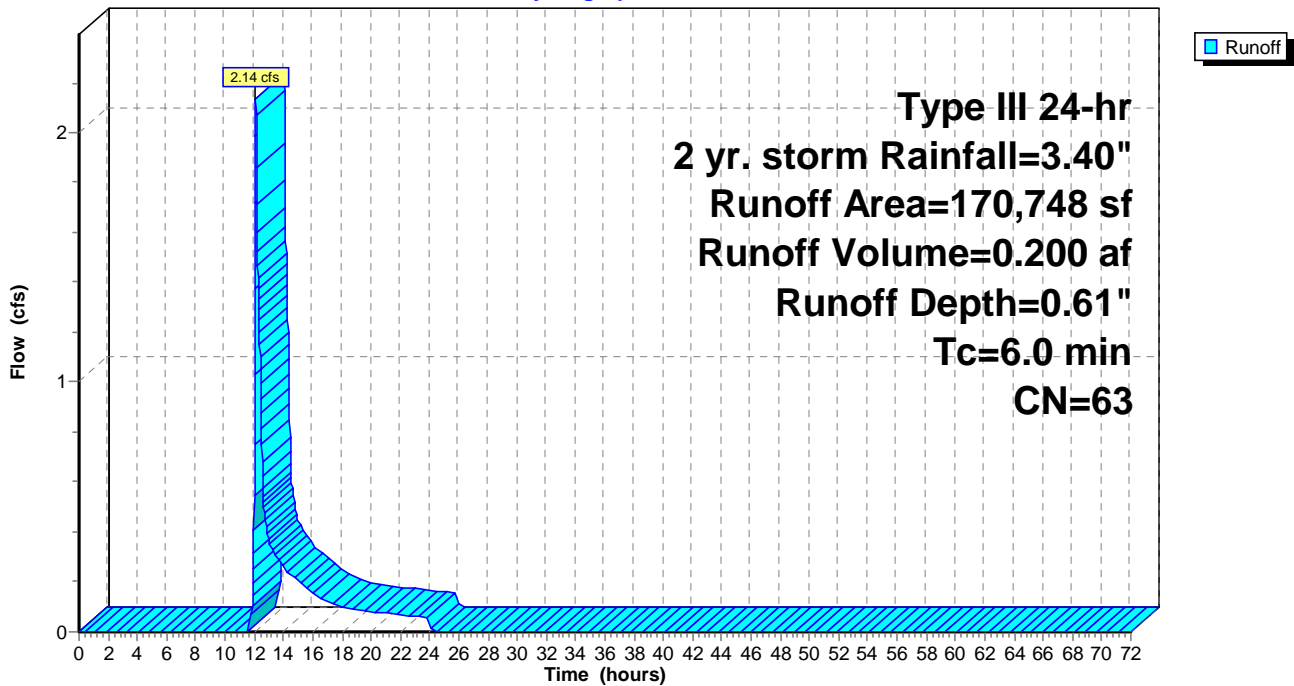
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Type III 24-hr 2 yr. storm Rainfall=3.40"

	Area (sf)	CN	Description
*	720	85	Gravel Driveway, HSG B
*	6,801	98	Paved Driveway
	163,227	61	>75% Grass cover, Good, HSG B
	170,748	63	Weighted Average
	163,947		96.02% Pervious Area
	6,801		3.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment SUB-1:

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Type III 24-hr 2 yr. storm Rainfall=3.40"

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Summary for Subcatchment SUB-2: Roof

Runoff = 0.31 cfs @ 12.08 hrs, Volume= 0.025 af, Depth= 3.17"

Routed to Pond 1P : Drywell

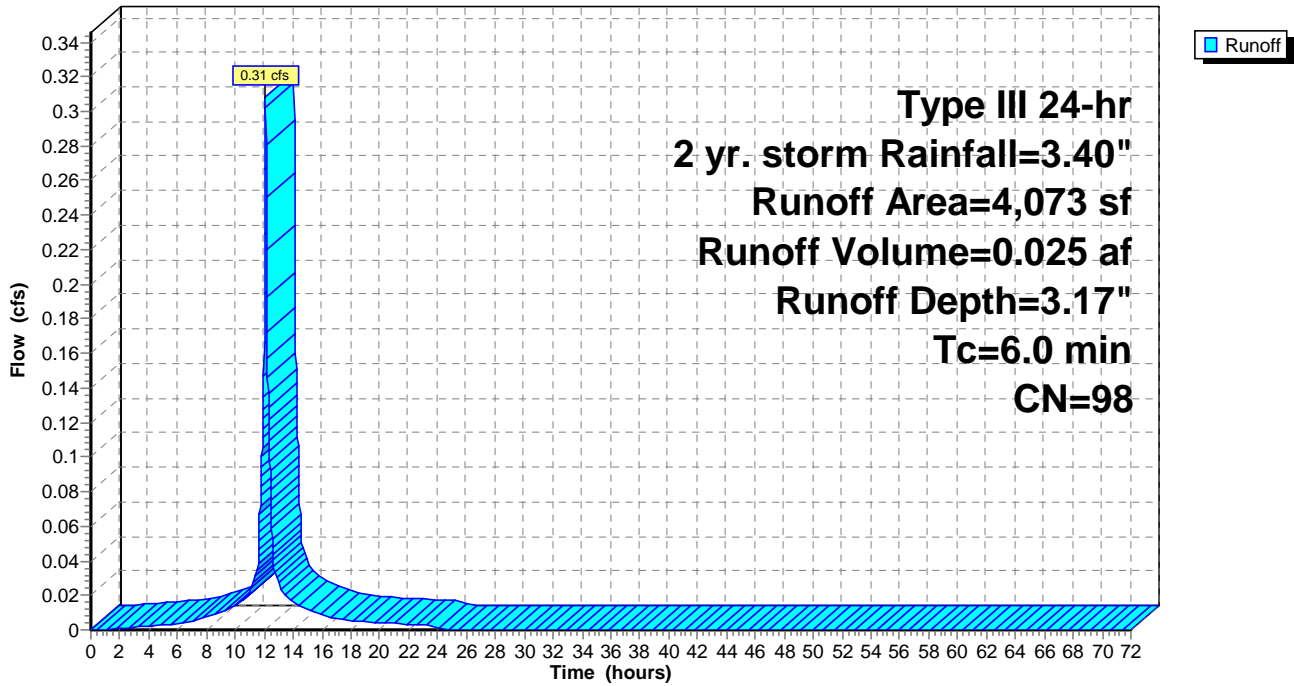
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Type III 24-hr 2 yr. storm Rainfall=3.40"

Area (sf)	CN	Description
* 4,073	98	Roof
4,073		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment SUB-2: Roof

Hydrograph



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Type III 24-hr 2 yr. storm Rainfall=3.40"

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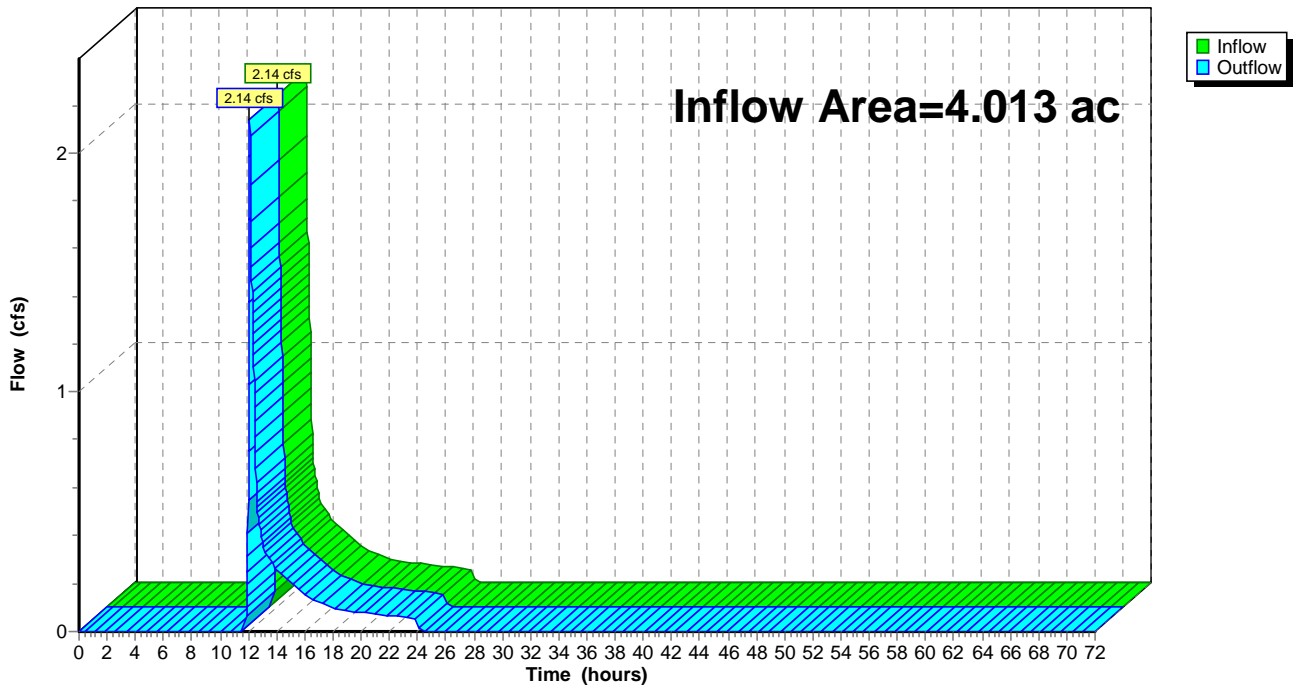
Summary for Reach DP-1:

Inflow Area = 4.013 ac, 6.22% Impervious, Inflow Depth = 0.60" for 2 yr. storm event
Inflow = 2.14 cfs @ 12.11 hrs, Volume= 0.200 af
Outflow = 2.14 cfs @ 12.11 hrs, Volume= 0.200 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach DP-1:

Hydrograph



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Type III 24-hr 2 yr. storm Rainfall=3.40"

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Summary for Pond 1P: Drywell

Inflow Area = 0.094 ac, 100.00% Impervious, Inflow Depth = 3.17" for 2 yr. storm event
 Inflow = 0.31 cfs @ 12.08 hrs, Volume= 0.025 af
 Outflow = 0.09 cfs @ 12.40 hrs, Volume= 0.025 af, Atten= 70%, Lag= 19.0 min
 Discarded = 0.09 cfs @ 12.40 hrs, Volume= 0.025 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routed to Reach DP-1 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 29.68' @ 12.40 hrs Surf.Area= 429 sf Storage= 177 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 8.6 min (763.7 - 755.1)

Volume	Invert	Avail.Storage	Storage Description
#1	29.00'	194 cf	Stone (Conic) Listed below (Recalc) 678 cf Overall - 192 cf Embedded = 486 cf x 40.0% Voids
#2	29.00'	192 cf	Chambers Listed below Inside #1
		386 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
29.00	429	0	0	429
30.00	429	429	429	502
30.33	429	142	571	527
30.58	429	107	678	545

Elevation (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
29.00	0	0
30.33	192	192

Device	Routing	Invert	Outlet Devices
#1	Primary	30.34'	4.0" Horiz. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads
#2	Discarded	29.00'	8.270 in/hr Exfiltration over Wetted area

Discarded OutFlow Max=0.09 cfs @ 12.40 hrs HW=29.68' (Free Discharge)
 ↳ **2=Exfiltration** (Exfiltration Controls 0.09 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=29.00' TW=0.00' (Dynamic Tailwater)
 ↳ **1=Orifice/Grate** (Controls 0.00 cfs)

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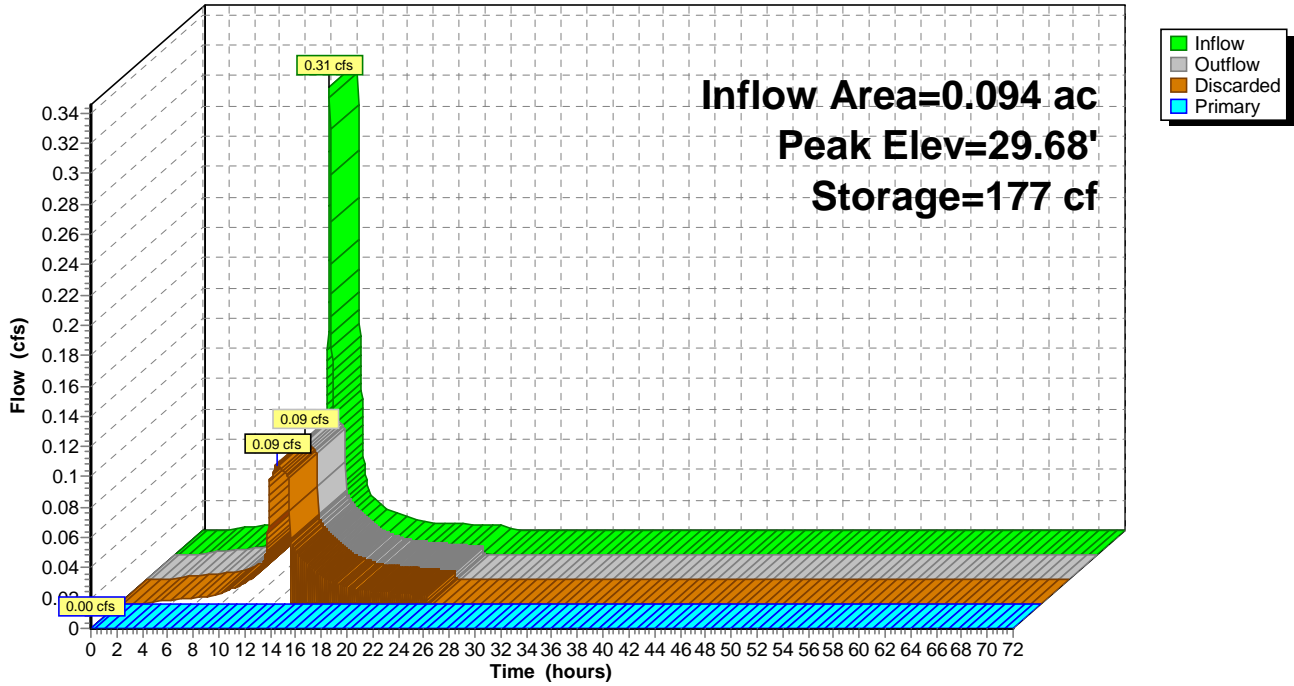
Type III 24-hr 2 yr. storm Rainfall=3.40"

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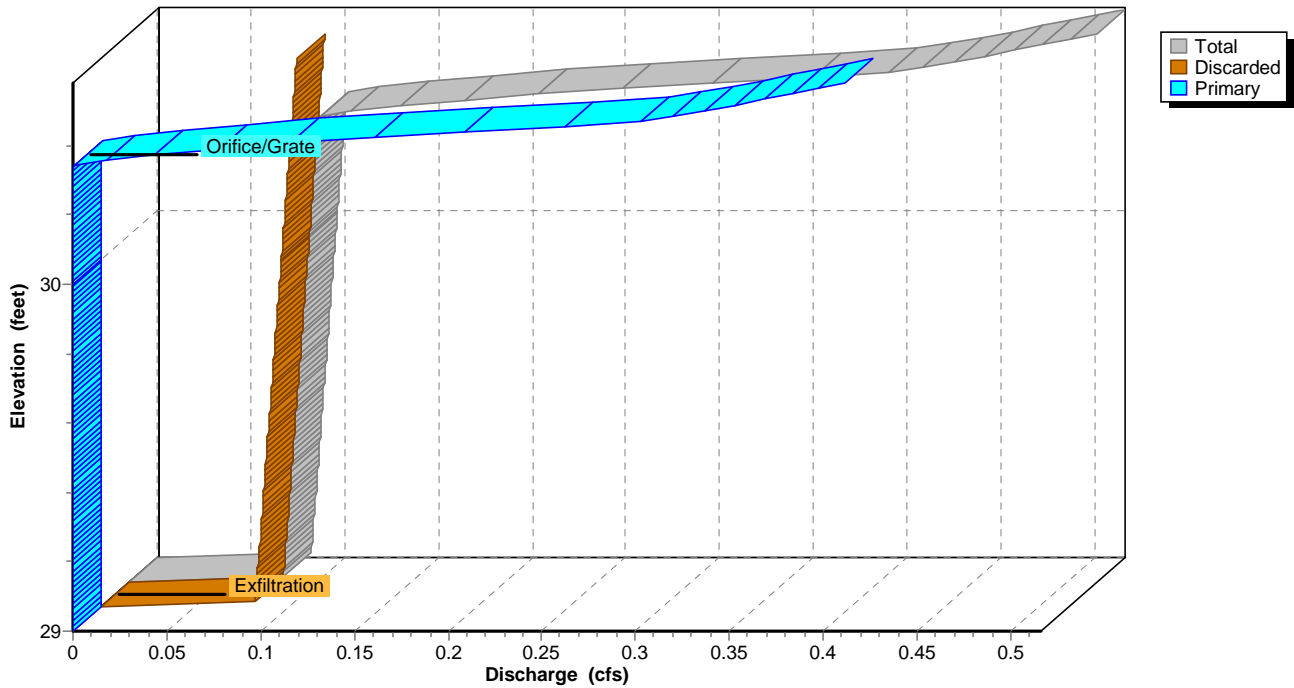
Pond 1P: Drywell

Hydrograph



Pond 1P: Drywell

Stage-Discharge



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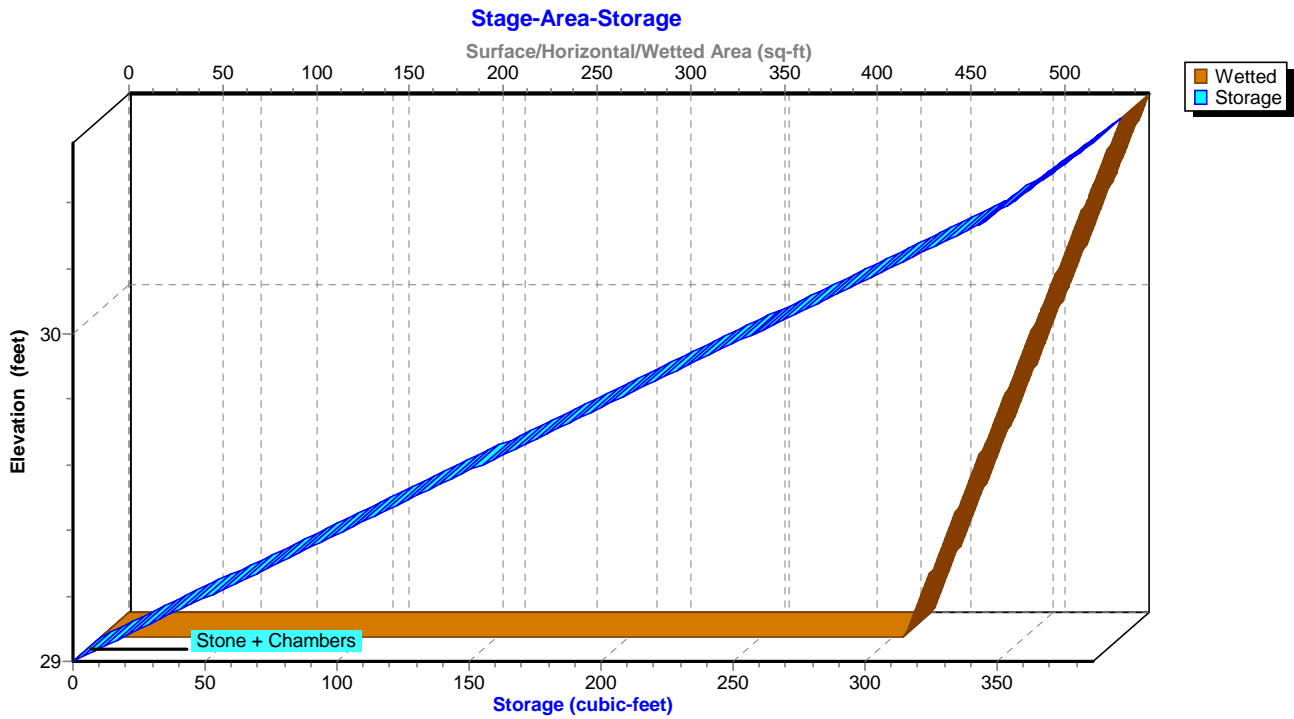
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Type III 24-hr 2 yr. storm Rainfall=3.40"

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Pond 1P: Drywell



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Type III 24-hr 10 yr. storm Rainfall=4.70"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment SUB-1: Runoff Area=170,748 sf 3.98% Impervious Runoff Depth=1.32"
Tc=6.0 min CN=63 Runoff=5.56 cfs 0.432 af

Subcatchment SUB-2: Roof Runoff Area=4,073 sf 100.00% Impervious Runoff Depth=4.46"
Tc=6.0 min CN=98 Runoff=0.43 cfs 0.035 af

Reach DP-1: Inflow=5.56 cfs 0.432 af
Outflow=5.56 cfs 0.432 af

Pond 1P: Drywell Peak Elev=30.25' Storage=323 cf Inflow=0.43 cfs 0.035 af
Discarded=0.10 cfs 0.035 af Primary=0.00 cfs 0.000 af Outflow=0.10 cfs 0.035 af

Total Runoff Area = 4.013 ac Runoff Volume = 0.467 af Average Runoff Depth = 1.40"
93.78% Pervious = 3.764 ac 6.22% Impervious = 0.250 ac

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Type III 24-hr 10 yr. storm Rainfall=4.70"

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Summary for Subcatchment SUB-1:

Runoff = 5.56 cfs @ 12.10 hrs, Volume= 0.432 af, Depth= 1.32"
 Routed to Reach DP-1 :

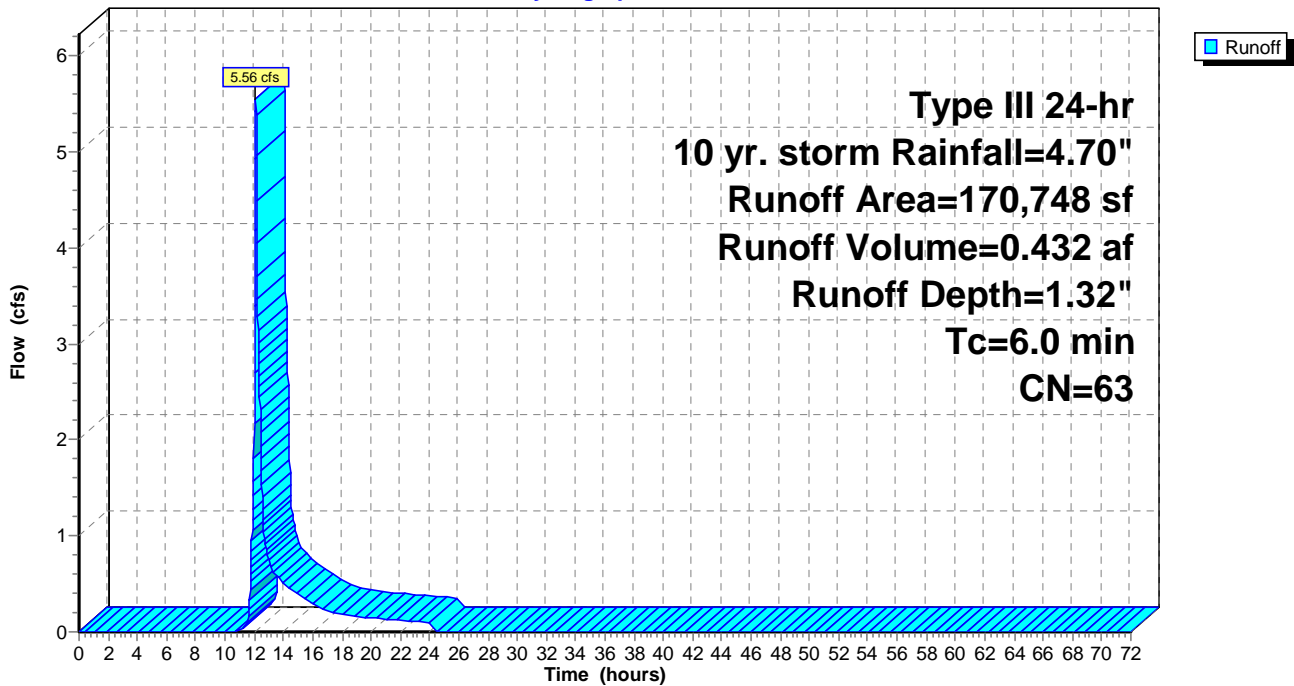
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Type III 24-hr 10 yr. storm Rainfall=4.70"

	Area (sf)	CN	Description
*	720	85	Gravel Driveway, HSG B
*	6,801	98	Paved Driveway
	163,227	61	>75% Grass cover, Good, HSG B
	170,748	63	Weighted Average
	163,947		96.02% Pervious Area
	6,801		3.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment SUB-1:

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Type III 24-hr 10 yr. storm Rainfall=4.70"

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Summary for Subcatchment SUB-2: Roof

Runoff = 0.43 cfs @ 12.08 hrs, Volume= 0.035 af, Depth= 4.46"

Routed to Pond 1P : Drywell

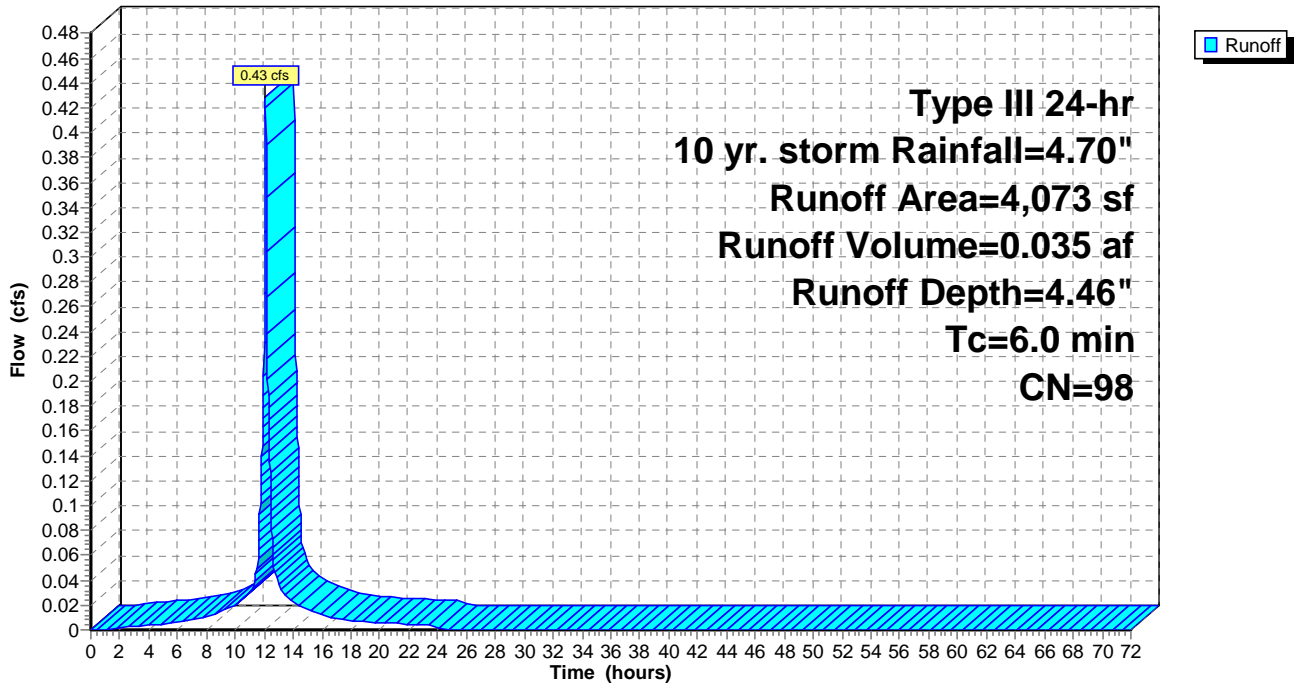
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Type III 24-hr 10 yr. storm Rainfall=4.70"

Area (sf)	CN	Description
* 4,073	98	Roof
4,073		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment SUB-2: Roof

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Type III 24-hr 10 yr. storm Rainfall=4.70"

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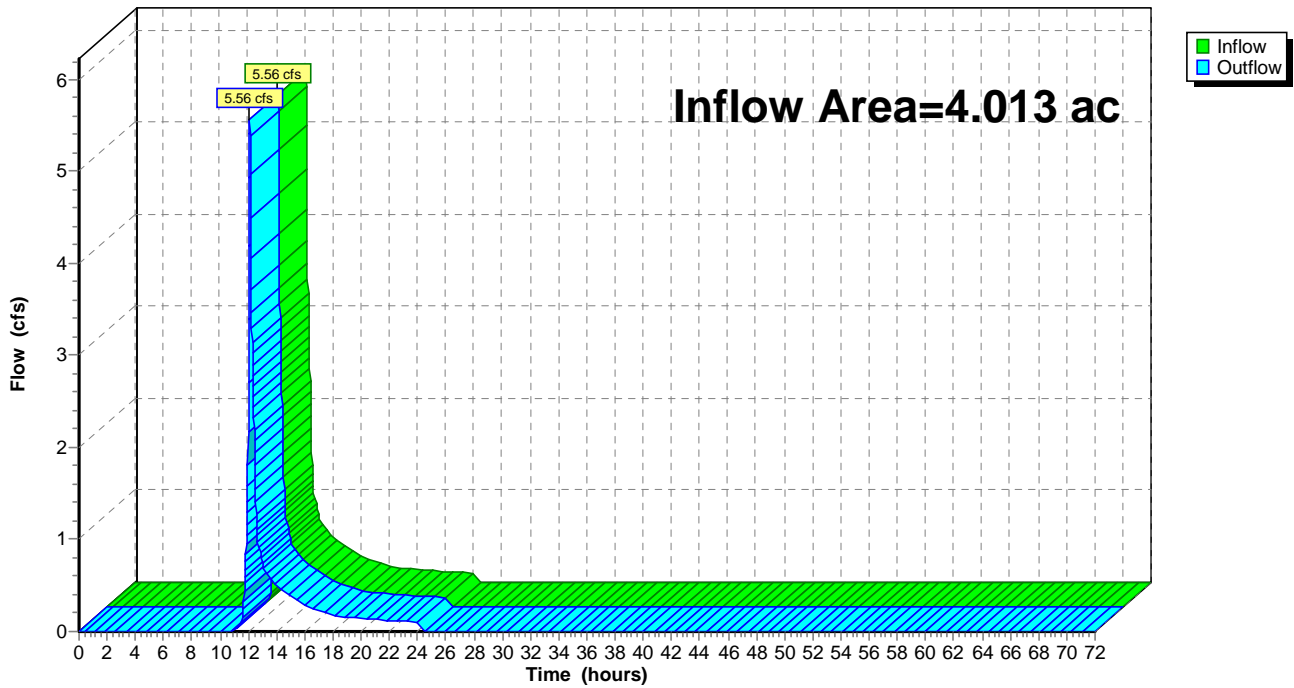
Summary for Reach DP-1:

Inflow Area = 4.013 ac, 6.22% Impervious, Inflow Depth = 1.29" for 10 yr. storm event
Inflow = 5.56 cfs @ 12.10 hrs, Volume= 0.432 af
Outflow = 5.56 cfs @ 12.10 hrs, Volume= 0.432 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach DP-1:

Hydrograph



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Type III 24-hr 10 yr. storm Rainfall=4.70"

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Summary for Pond 1P: Drywell

Inflow Area = 0.094 ac, 100.00% Impervious, Inflow Depth = 4.46" for 10 yr. storm event
 Inflow = 0.43 cfs @ 12.08 hrs, Volume= 0.035 af
 Outflow = 0.10 cfs @ 12.47 hrs, Volume= 0.035 af, Atten= 77%, Lag= 23.3 min
 Discarded = 0.10 cfs @ 12.47 hrs, Volume= 0.035 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routed to Reach DP-1 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 30.25' @ 12.47 hrs Surf.Area= 429 sf Storage= 323 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 16.3 min (765.4 - 749.1)

Volume	Invert	Avail.Storage	Storage Description
#1	29.00'	194 cf	Stone (Conic) Listed below (Recalc) 678 cf Overall - 192 cf Embedded = 486 cf x 40.0% Voids
#2	29.00'	192 cf	Chambers Listed below Inside #1
		386 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
29.00	429	0	0	429
30.00	429	429	429	502
30.33	429	142	571	527
30.58	429	107	678	545

Elevation (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
29.00	0	0
30.33	192	192

Device	Routing	Invert	Outlet Devices
#1	Primary	30.34'	4.0" Horiz. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads
#2	Discarded	29.00'	8.270 in/hr Exfiltration over Wetted area

Discarded OutFlow Max=0.10 cfs @ 12.47 hrs HW=30.25' (Free Discharge)
 ↳ **2=Exfiltration** (Exfiltration Controls 0.10 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=29.00' TW=0.00' (Dynamic Tailwater)
 ↳ **1=Orifice/Grate** (Controls 0.00 cfs)

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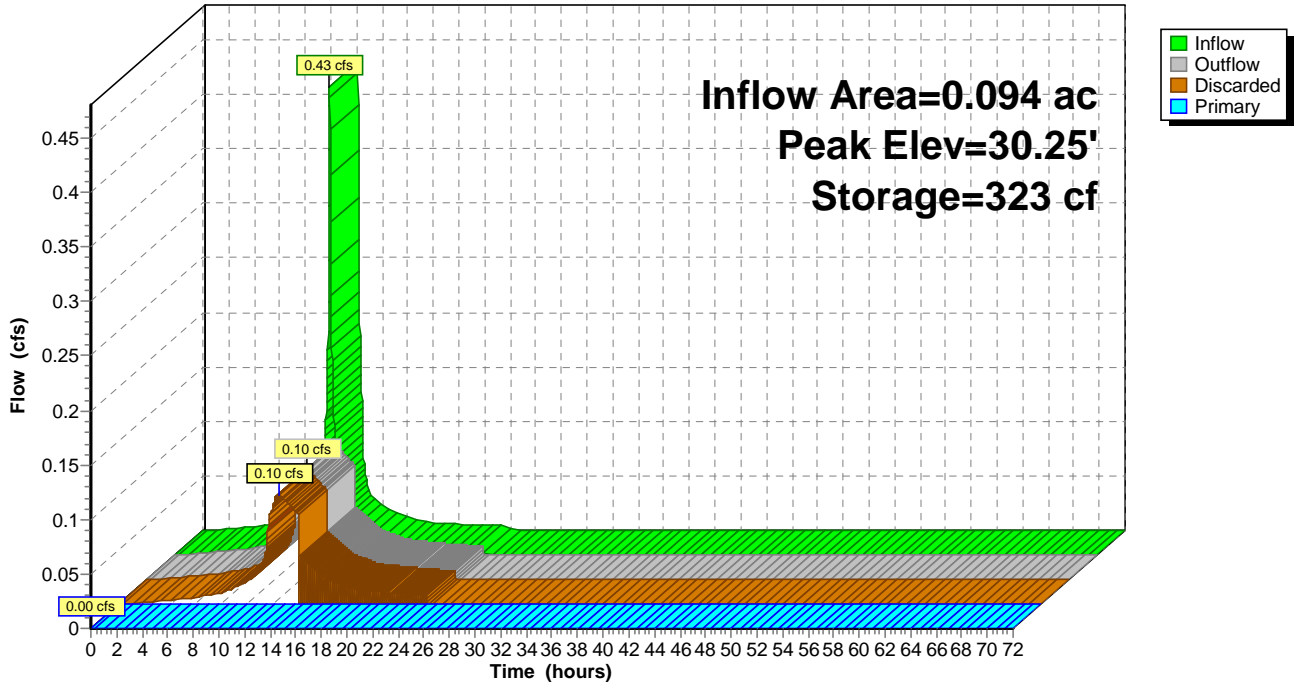
Type III 24-hr 10 yr. storm Rainfall=4.70"

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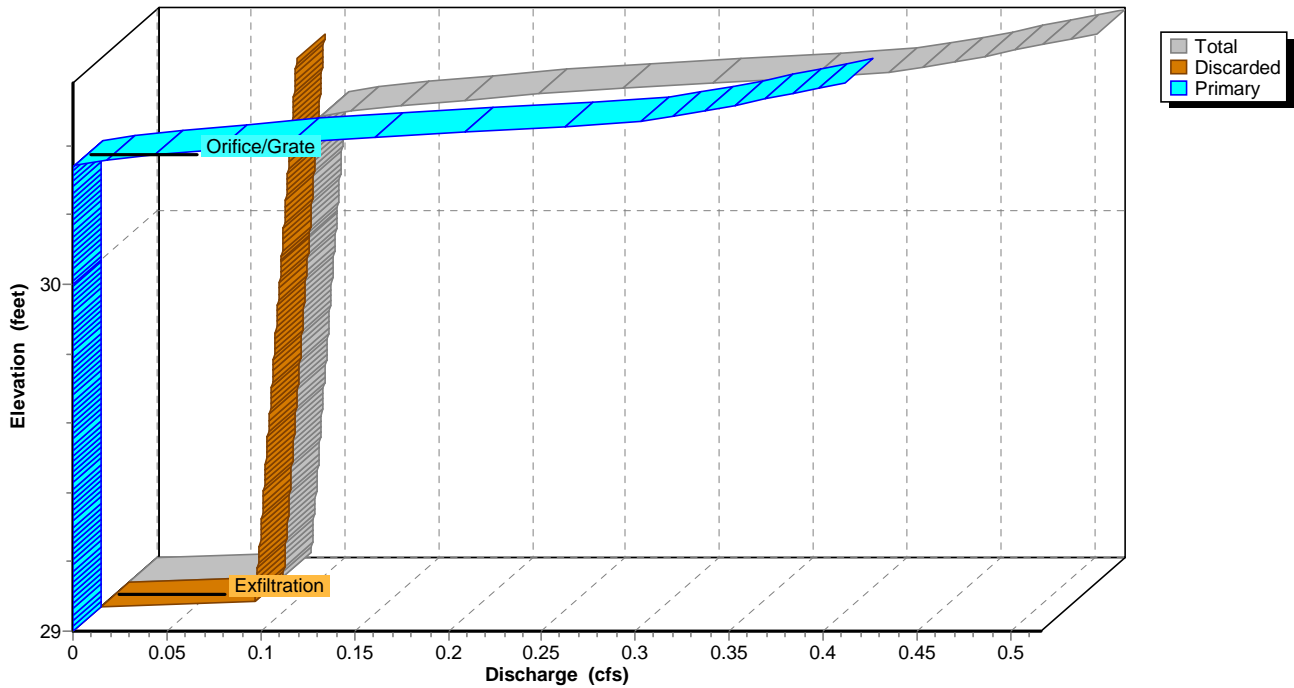
Pond 1P: Drywell

Hydrograph



Pond 1P: Drywell

Stage-Discharge



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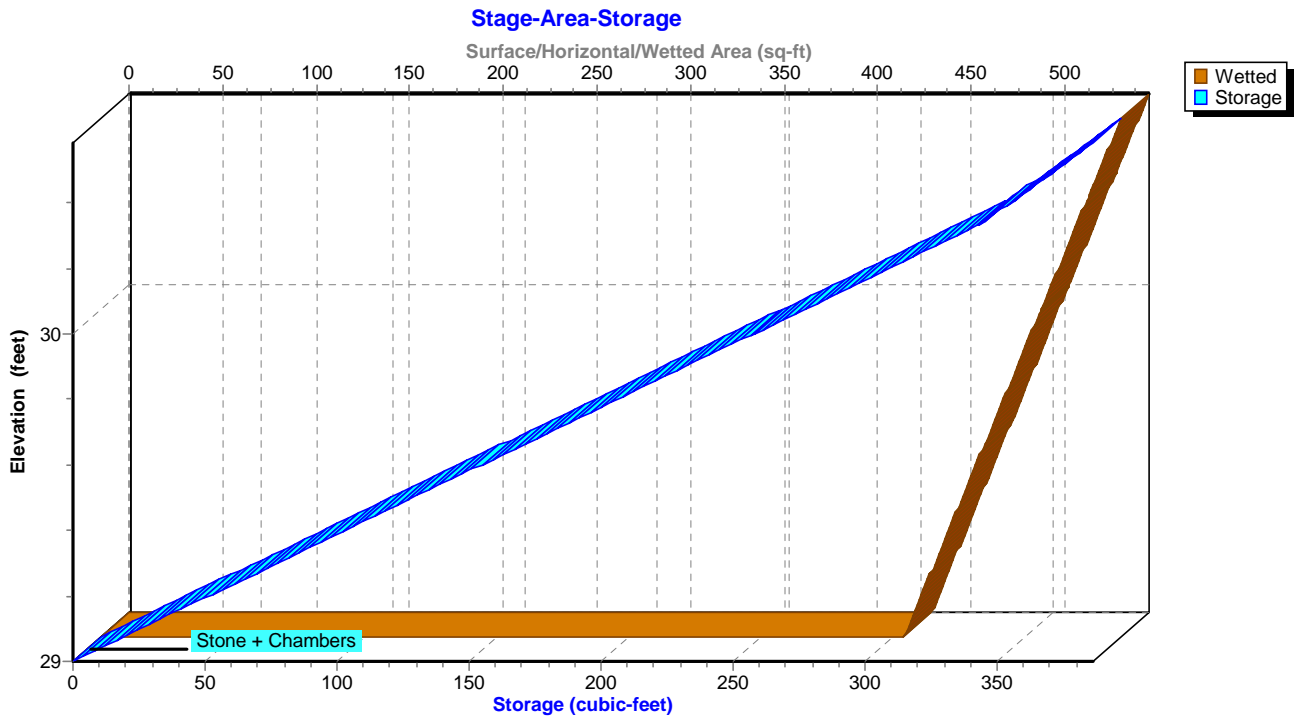
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Type III 24-hr 10 yr. storm Rainfall=4.70"

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Pond 1P: Drywell



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Type III 24-hr 100 yr. storm Rainfall=7.00"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment SUB-1: Runoff Area=170,748 sf 3.98% Impervious Runoff Depth=2.90"
Tc=6.0 min CN=63 Runoff=13.09 cfs 0.948 af

Subcatchment SUB-2: Roof Runoff Area=4,073 sf 100.00% Impervious Runoff Depth=6.76"
Tc=6.0 min CN=98 Runoff=0.64 cfs 0.053 af

Reach DP-1: Inflow=13.06 cfs 0.954 af
Outflow=13.06 cfs 0.954 af

Pond 1P: Drywell Peak Elev=30.53' Storage=377 cf Inflow=0.64 cfs 0.053 af
Discarded=0.10 cfs 0.047 af Primary=0.36 cfs 0.006 af Outflow=0.47 cfs 0.053 af

Total Runoff Area = 4.013 ac Runoff Volume = 1.000 af Average Runoff Depth = 2.99"
93.78% Pervious = 3.764 ac 6.22% Impervious = 0.250 ac

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Type III 24-hr 100 yr. storm Rainfall=7.00"

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Summary for Subcatchment SUB-1:

Runoff = 13.09 cfs @ 12.09 hrs, Volume= 0.948 af, Depth= 2.90"

Routed to Reach DP-1 :

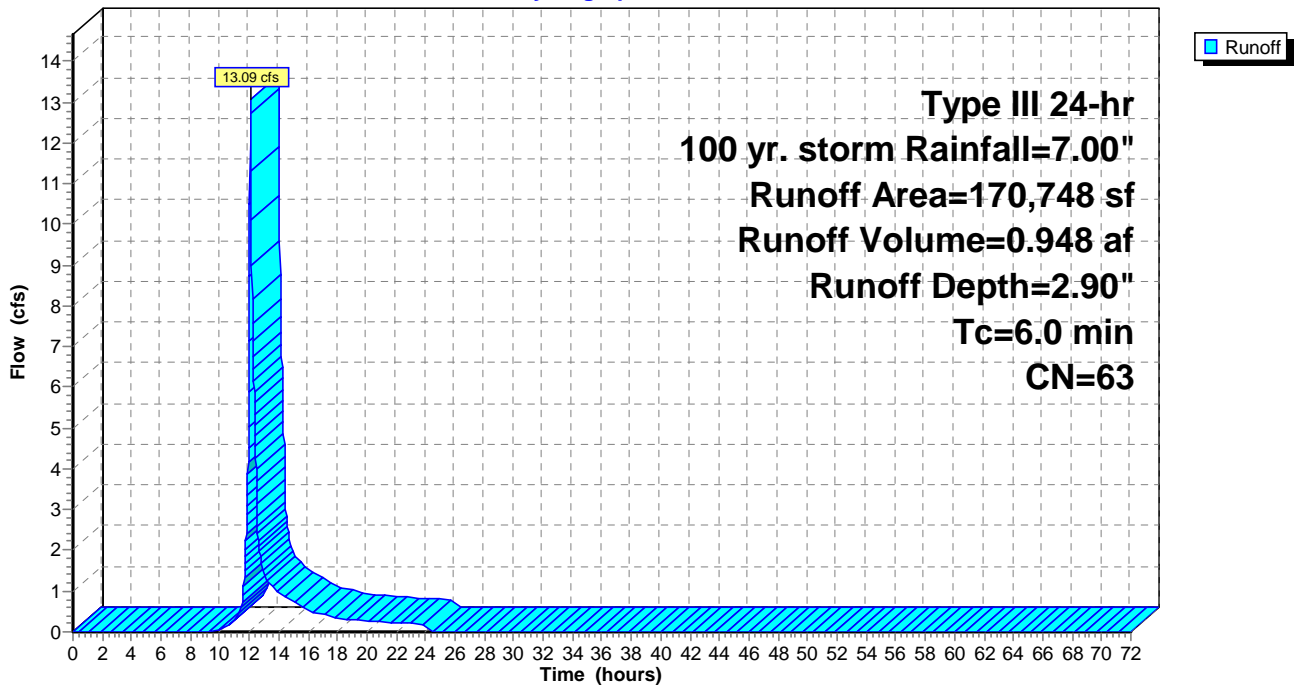
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Type III 24-hr 100 yr. storm Rainfall=7.00"

	Area (sf)	CN	Description
*	720	85	Gravel Driveway, HSG B
*	6,801	98	Paved Driveway
	163,227	61	>75% Grass cover, Good, HSG B
	170,748	63	Weighted Average
	163,947		96.02% Pervious Area
	6,801		3.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment SUB-1:

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Type III 24-hr 100 yr. storm Rainfall=7.00"

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Summary for Subcatchment SUB-2: Roof

Runoff = 0.64 cfs @ 12.08 hrs, Volume= 0.053 af, Depth= 6.76"

Routed to Pond 1P : Drywell

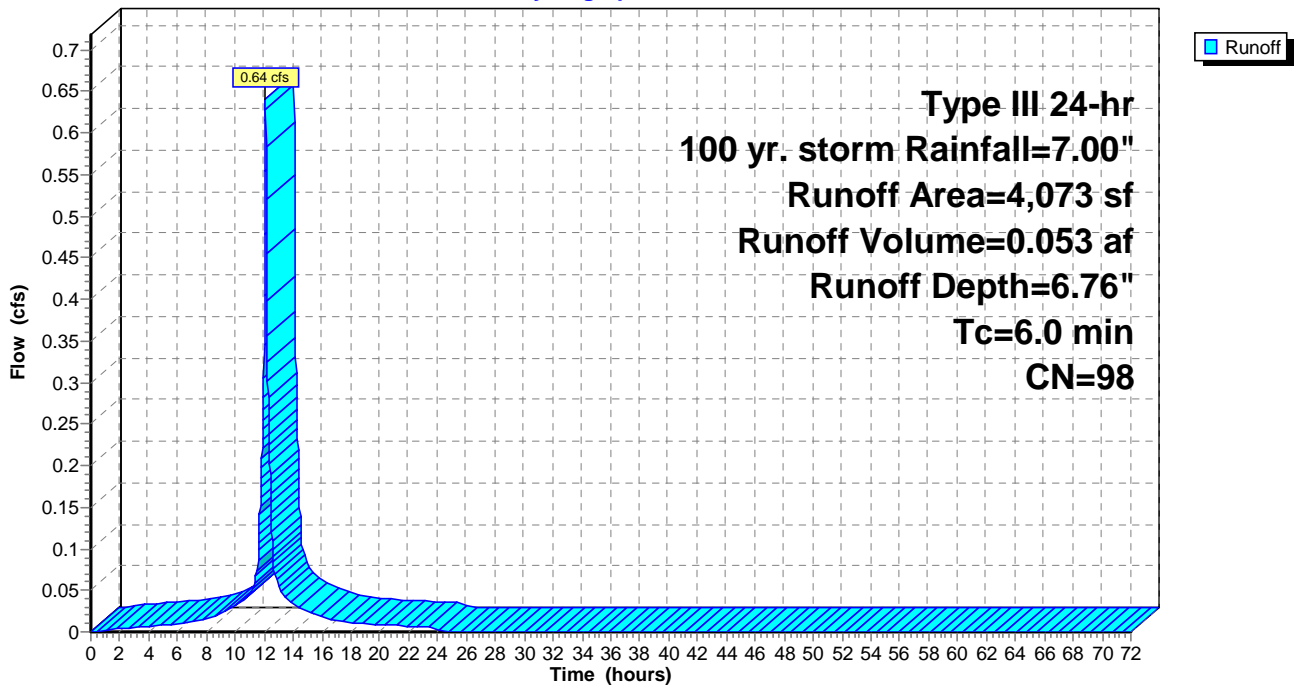
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Type III 24-hr 100 yr. storm Rainfall=7.00"

Area (sf)	CN	Description
* 4,073	98	Roof
4,073		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment SUB-2: Roof

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Type III 24-hr 100 yr. storm Rainfall=7.00"

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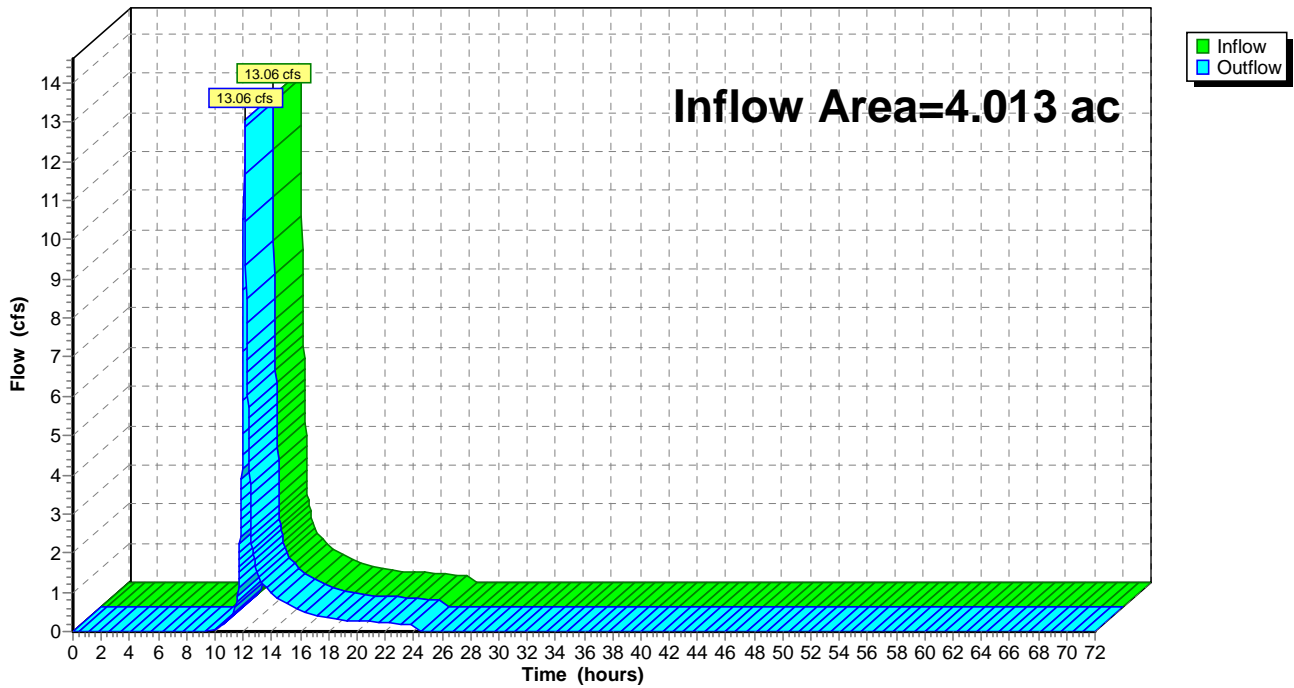
Summary for Reach DP-1:

Inflow Area = 4.013 ac, 6.22% Impervious, Inflow Depth = 2.85" for 100 yr. storm event
Inflow = 13.06 cfs @ 12.09 hrs, Volume= 0.954 af
Outflow = 13.06 cfs @ 12.09 hrs, Volume= 0.954 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach DP-1:

Hydrograph



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Type III 24-hr 100 yr. storm Rainfall=7.00"

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Summary for Pond 1P: Drywell

Inflow Area = 0.094 ac, 100.00% Impervious, Inflow Depth = 6.76" for 100 yr. storm event
 Inflow = 0.64 cfs @ 12.08 hrs, Volume= 0.053 af
 Outflow = 0.47 cfs @ 12.16 hrs, Volume= 0.053 af, Atten= 27%, Lag= 4.6 min
 Discarded = 0.10 cfs @ 12.16 hrs, Volume= 0.047 af
 Primary = 0.36 cfs @ 12.16 hrs, Volume= 0.006 af

Routed to Reach DP-1 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 30.53' @ 12.16 hrs Surf.Area= 429 sf Storage= 377 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 15.7 min (758.7 - 743.0)

Volume	Invert	Avail.Storage	Storage Description
#1	29.00'	194 cf	Stone (Conic) Listed below (Recalc) 678 cf Overall - 192 cf Embedded = 486 cf x 40.0% Voids
#2	29.00'	192 cf	Chambers Listed below Inside #1
		386 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
29.00	429	0	0	429
30.00	429	429	429	502
30.33	429	142	571	527
30.58	429	107	678	545

Elevation (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
29.00	0	0
30.33	192	192

Device	Routing	Invert	Outlet Devices
#1	Primary	30.34'	4.0" Horiz. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads
#2	Discarded	29.00'	8.270 in/hr Exfiltration over Wetted area

Discarded OutFlow Max=0.10 cfs @ 12.16 hrs HW=30.53' (Free Discharge)
 ↳ **2=Exfiltration** (Exfiltration Controls 0.10 cfs)

Primary OutFlow Max=0.36 cfs @ 12.16 hrs HW=30.53' TW=0.00' (Dynamic Tailwater)
 ↳ **1=Orifice/Grate** (Orifice Controls 0.36 cfs @ 2.07 fps)

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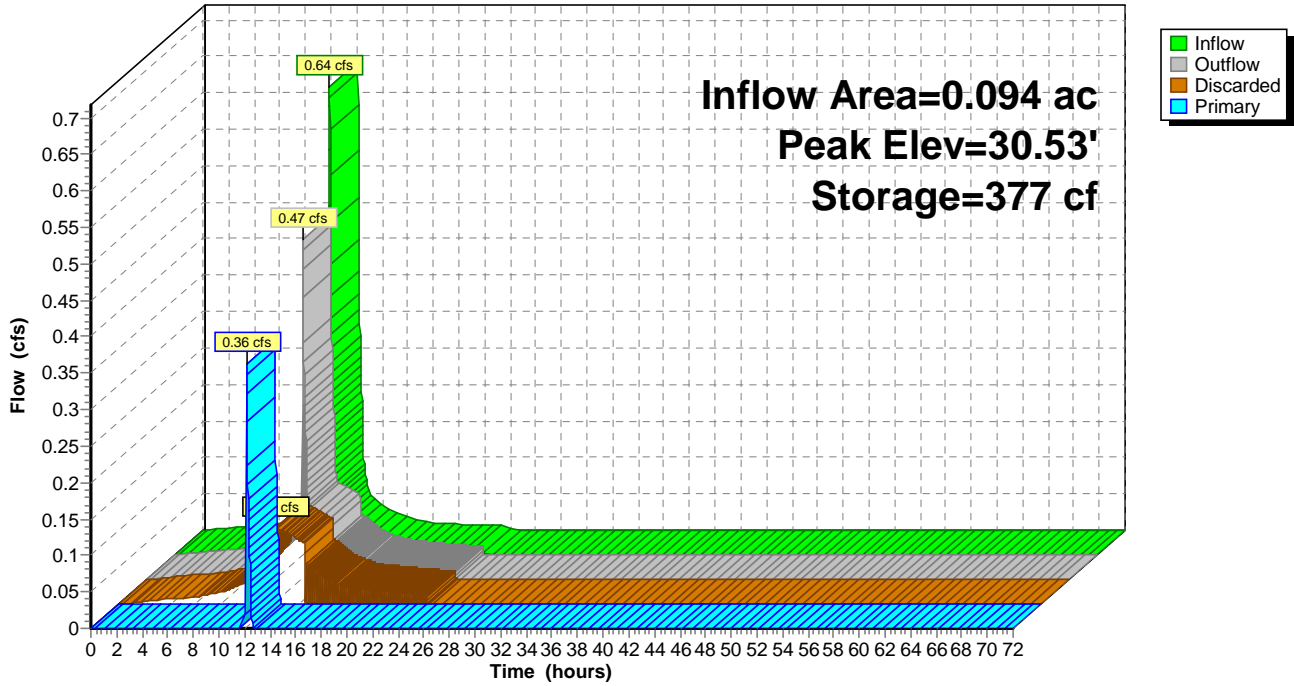
Type III 24-hr 100 yr. storm Rainfall=7.00"

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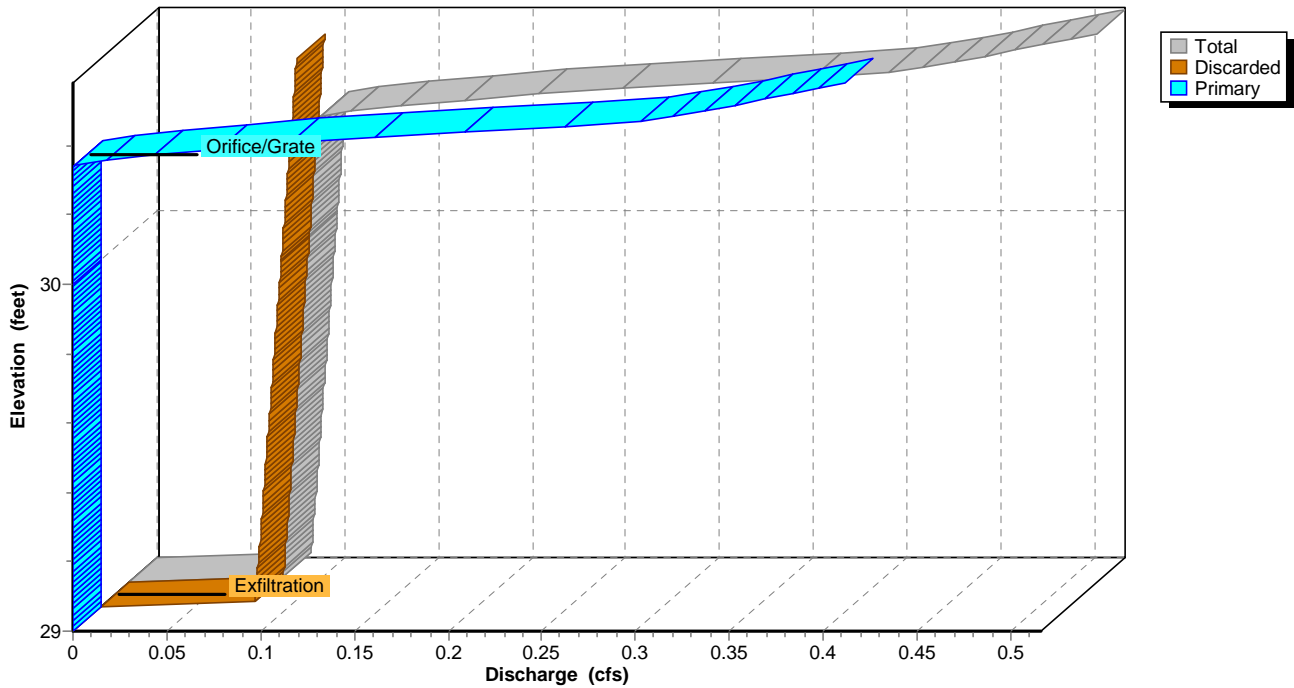
Pond 1P: Drywell

Hydrograph



Pond 1P: Drywell

Stage-Discharge



Proposed Conditions AE

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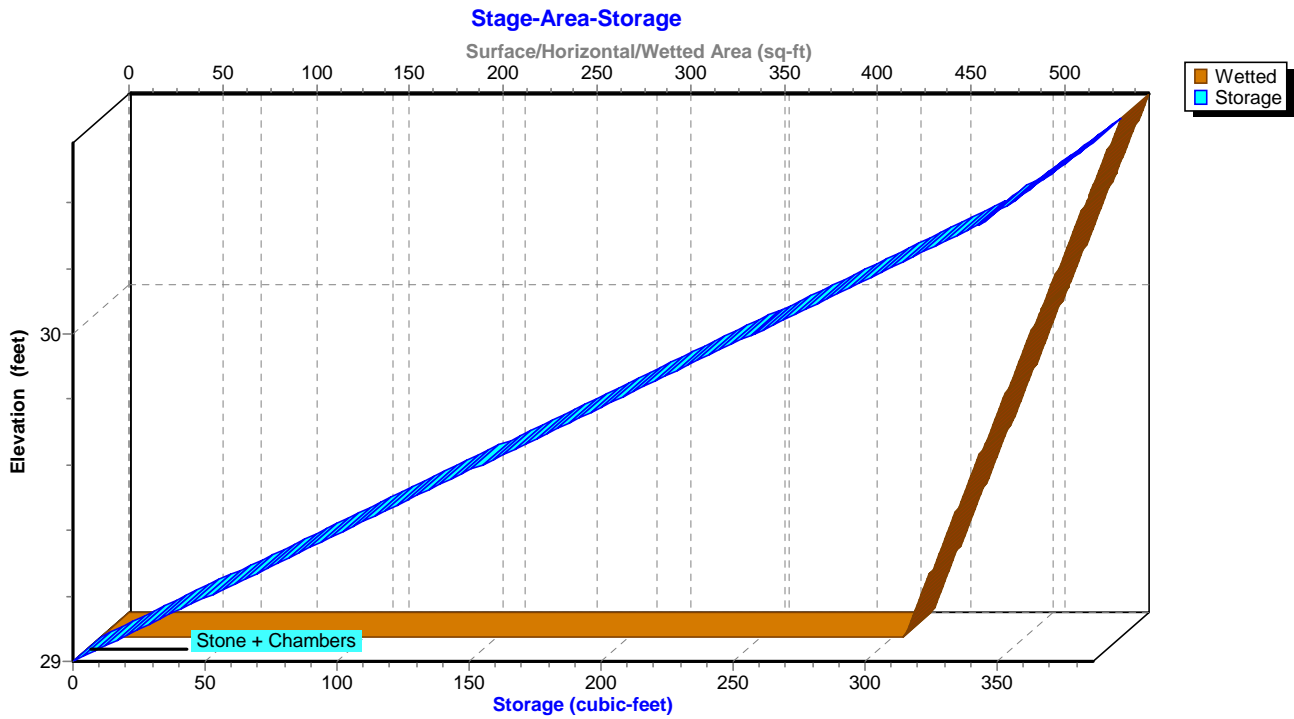
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Type III 24-hr 100 yr. storm Rainfall=7.00"

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Pond 1P: Drywell



Proposed Conditions AE

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