



TOWNSHIP of HOPEWELL
MERCER COUNTY

201 WASHINGTON CROSSING – PENNINGTON ROAD
TITUSVILLE, NEW JERSEY 08560-1410

PROJECT / APPLICATION

BLOCK:

LOT:

ADDRESS:

PROJECT NAME:

**REPORTS AND SUPPORTING
DOCUMENTS**

STORMWATER MANAGEMENT - FILE 2

2024-06-25 Existing- 081391

Prepared by Bowman Consulting Group

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HydroCAD® 10.20-3c s/n 09435 © 2023 HydroCAD Software Solutions LLC

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Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.760	98	(X-6I)
33.440	71	Row crops, C&T, Good, HSG B (X-5P, X-6P)
9.510	78	Row crops, C&T, Good, HSG C (X-5P, X-6P)
0.120	81	Row crops, C&T, Good, HSG D (X-6P)
6.820	55	Woods, Good, HSG B (X-6P)
10.710	70	Woods, Good, HSG C (X-6P)
4.480	77	Woods, Good, HSG D (X-6P)

Summary for Subcatchment X-5P: XDA-5 (pervious)

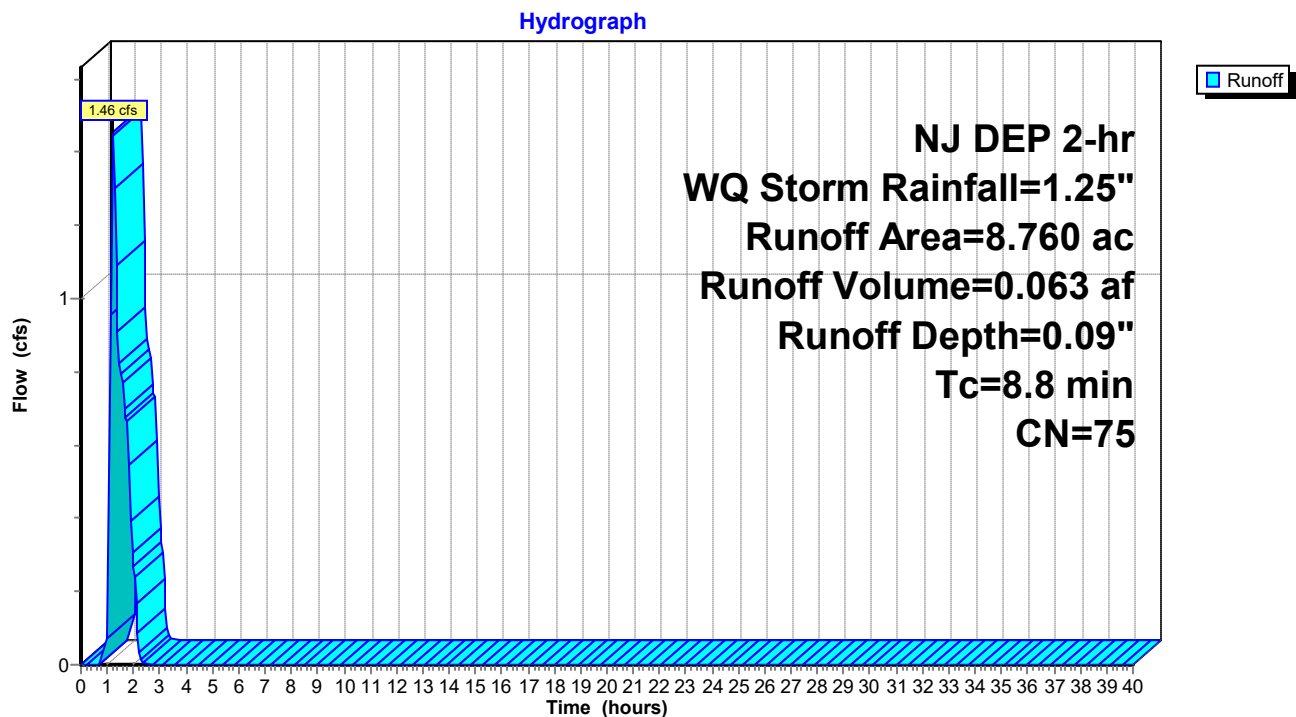
Runoff = 1.46 cfs @ 1.23 hrs, Volume= 0.063 af, Depth= 0.09"
Routed to Link XDA-5 : Existing Drainage Area #5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)



Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 2.02 cfs @ 1.13 hrs, Volume= 0.066 af, Depth= 1.03"
Routed to Link XDA-6 : Existing Drainage Area #6

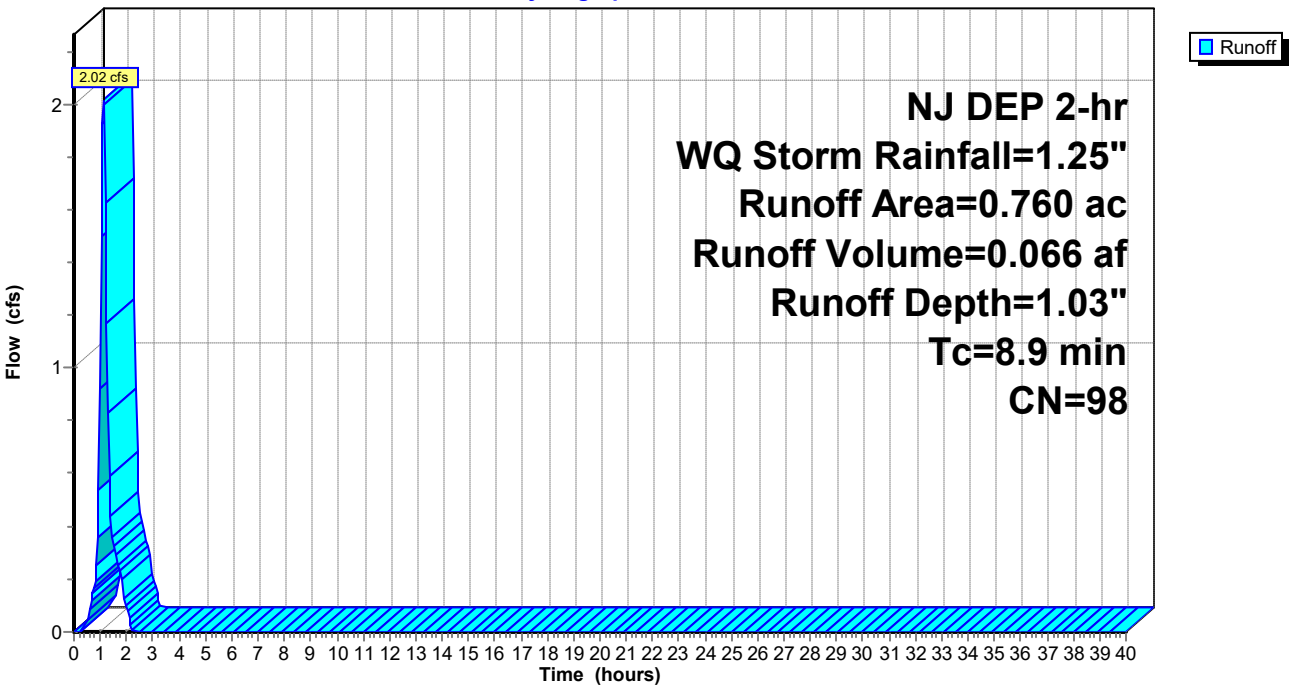
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 2.54 cfs @ 1.33 hrs, Volume= 0.155 af, Depth= 0.03"
 Routed to Link XDA-6 : Existing Drainage Area #6

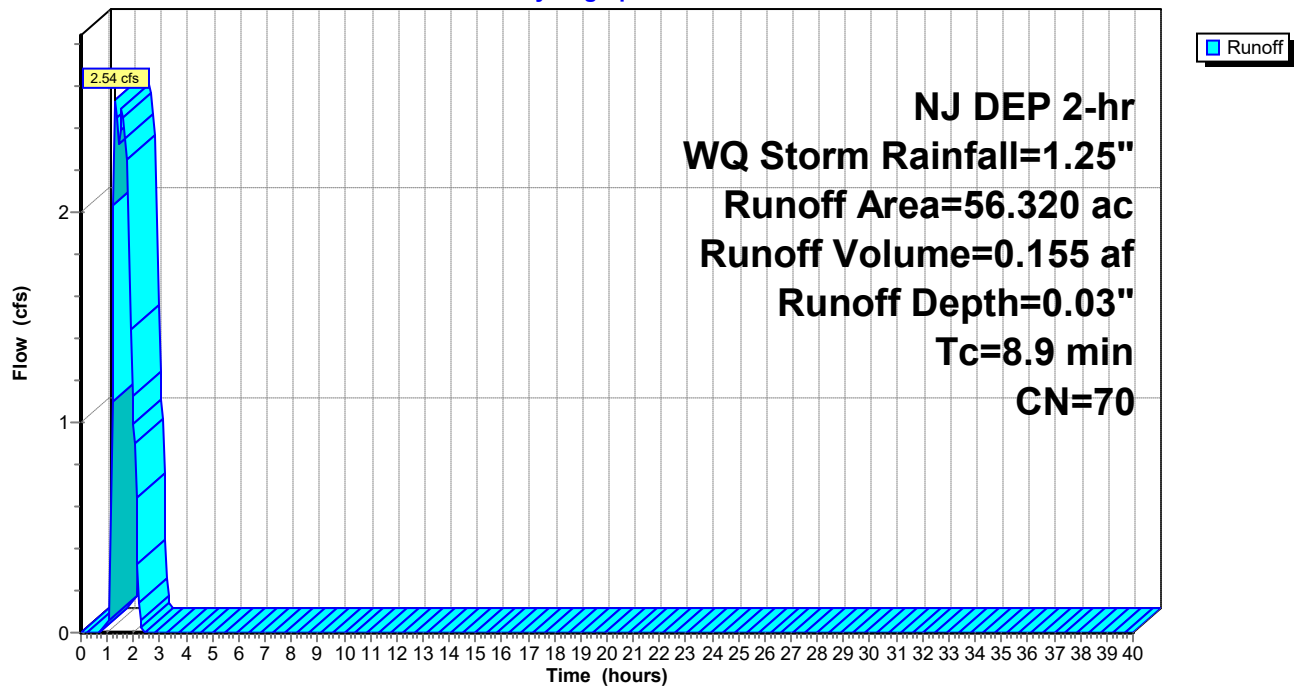
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

Hydrograph



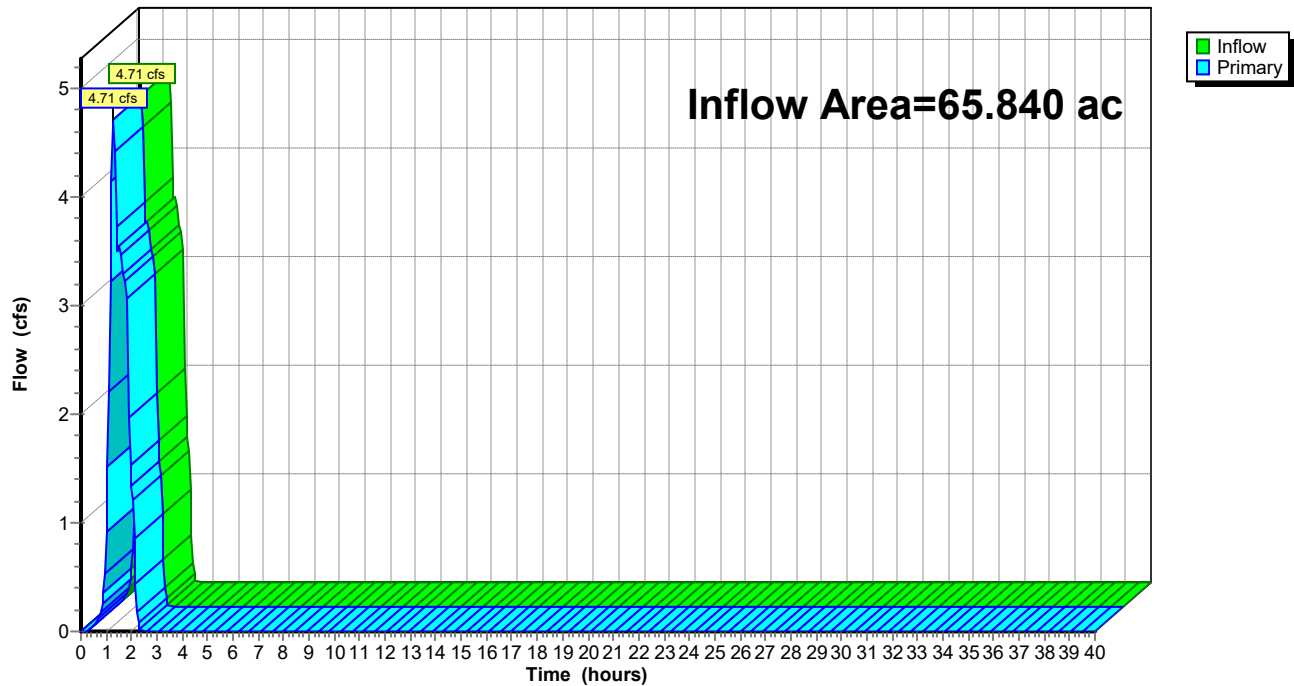
Summary for Link DP-3: Design Pont #3 (Woolsey Creek)

Inflow Area = 65.840 ac, 1.15% Impervious, Inflow Depth = 0.05" for WQ Storm event
Inflow = 4.71 cfs @ 1.27 hrs, Volume= 0.284 af
Primary = 4.71 cfs @ 1.27 hrs, Volume= 0.284 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link DP-3: Design Pont #3 (Woolsey Creek)

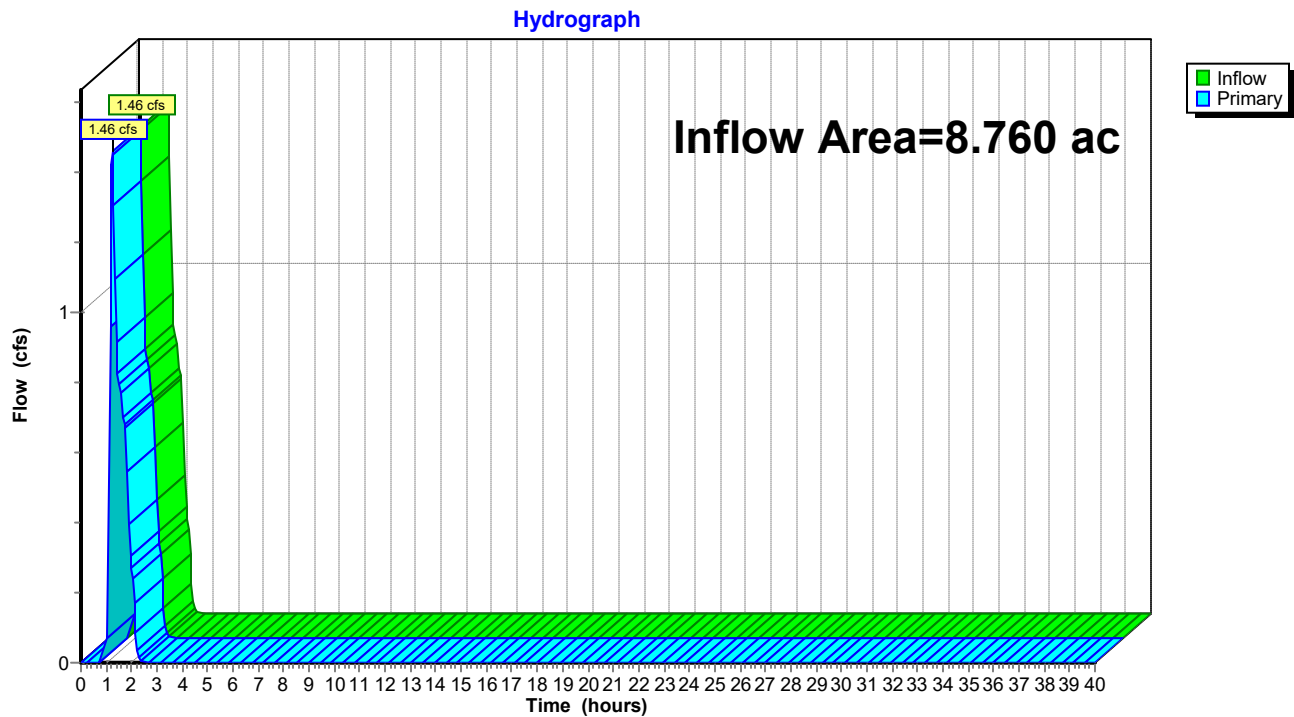
Hydrograph



Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 0.09" for WQ Storm event
Inflow = 1.46 cfs @ 1.23 hrs, Volume= 0.063 af
Primary = 1.46 cfs @ 1.23 hrs, Volume= 0.063 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

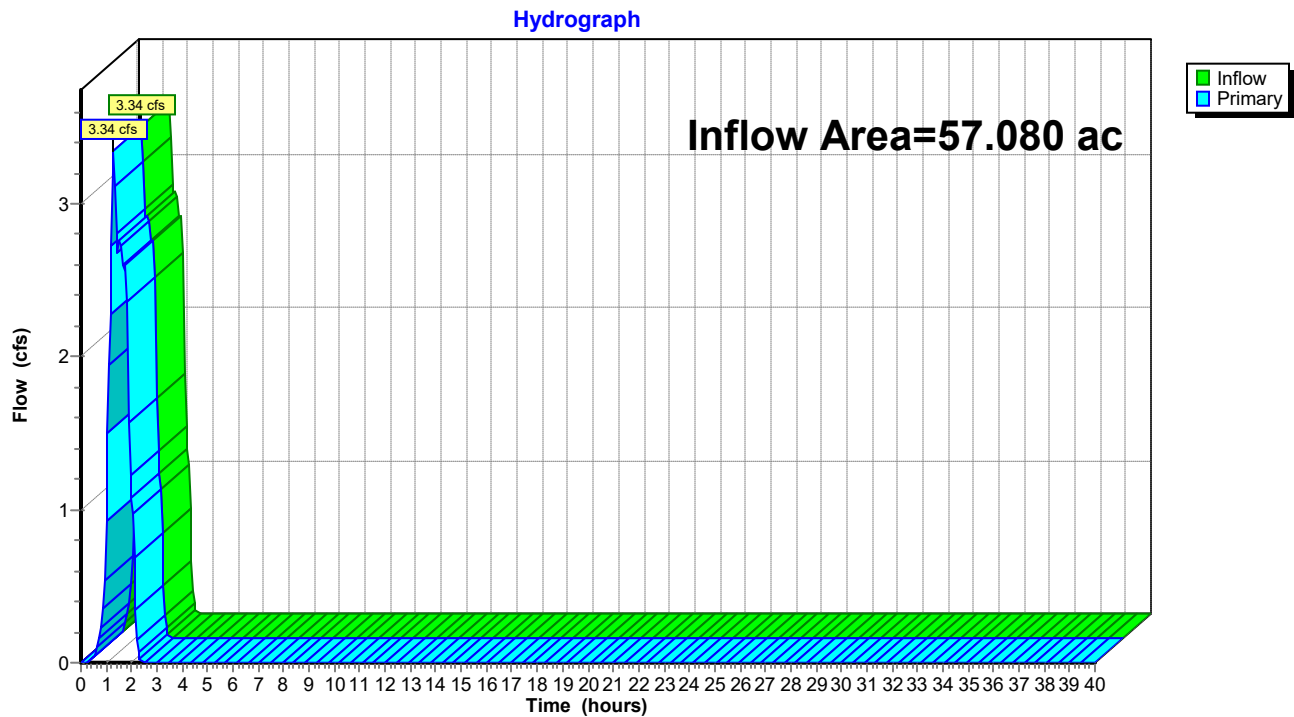
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-5: Existing Drainage Area #5

Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 0.05" for WQ Storm event
Inflow = 3.34 cfs @ 1.29 hrs, Volume= 0.220 af
Primary = 3.34 cfs @ 1.29 hrs, Volume= 0.220 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 11.91 cfs @ 12.17 hrs, Volume= 0.874 af, Depth= 1.20"
 Routed to Link XDA-5 : Existing Drainage Area #5

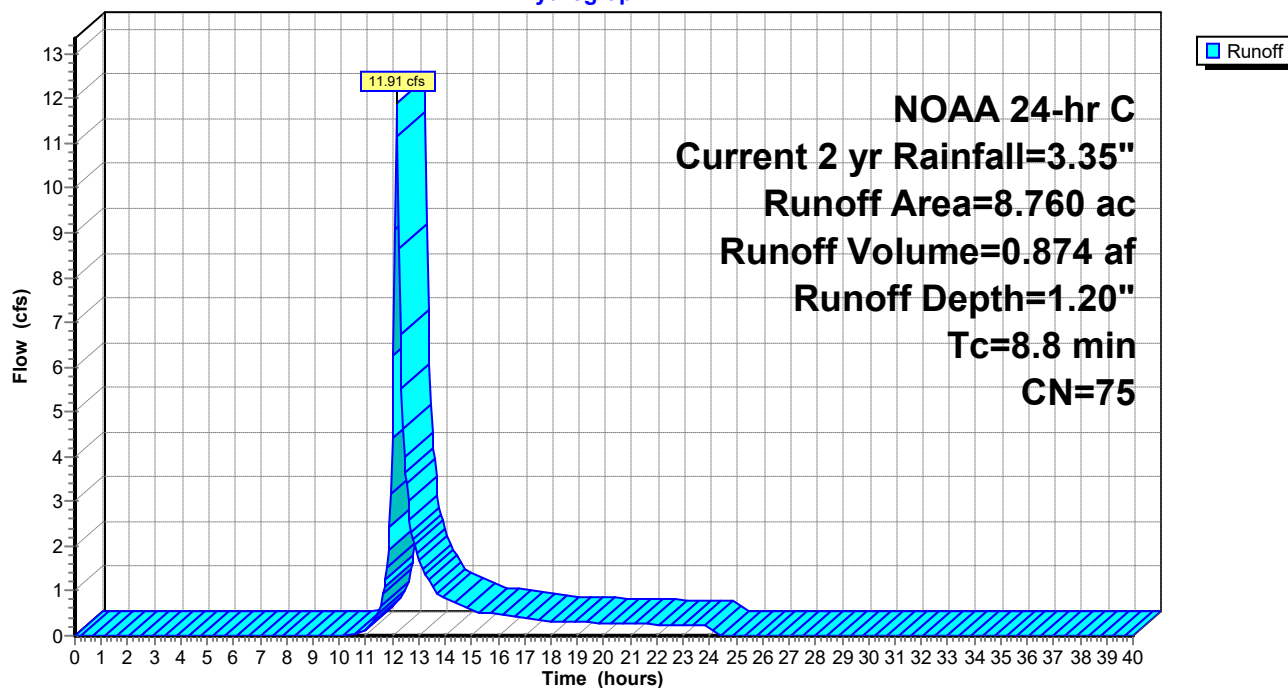
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

Hydrograph



Summary for Subcatchment X-6I: XDA-6 (impervious)

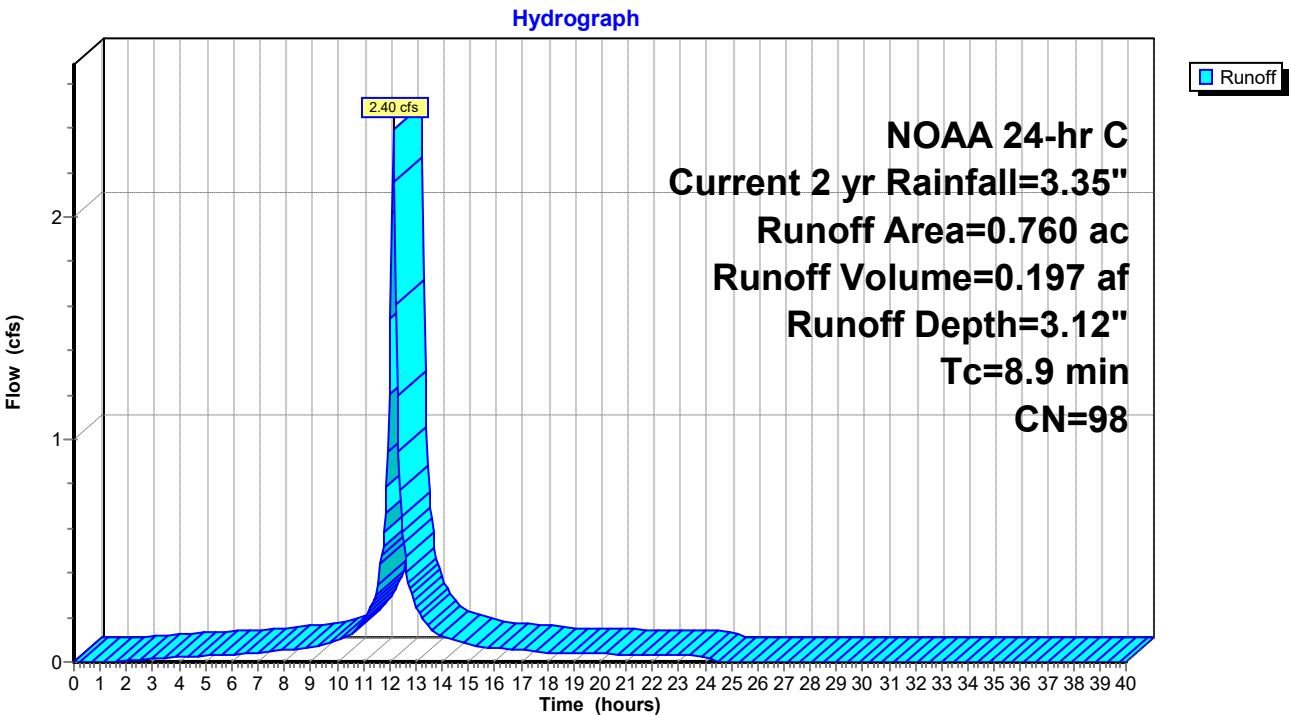
Runoff = 2.40 cfs @ 12.16 hrs, Volume= 0.197 af, Depth= 3.12"
Routed to Link XDA-6 : Existing Drainage Area #6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 55.83 cfs @ 12.17 hrs, Volume= 4.303 af, Depth= 0.92"
Routed to Link XDA-6 : Existing Drainage Area #6

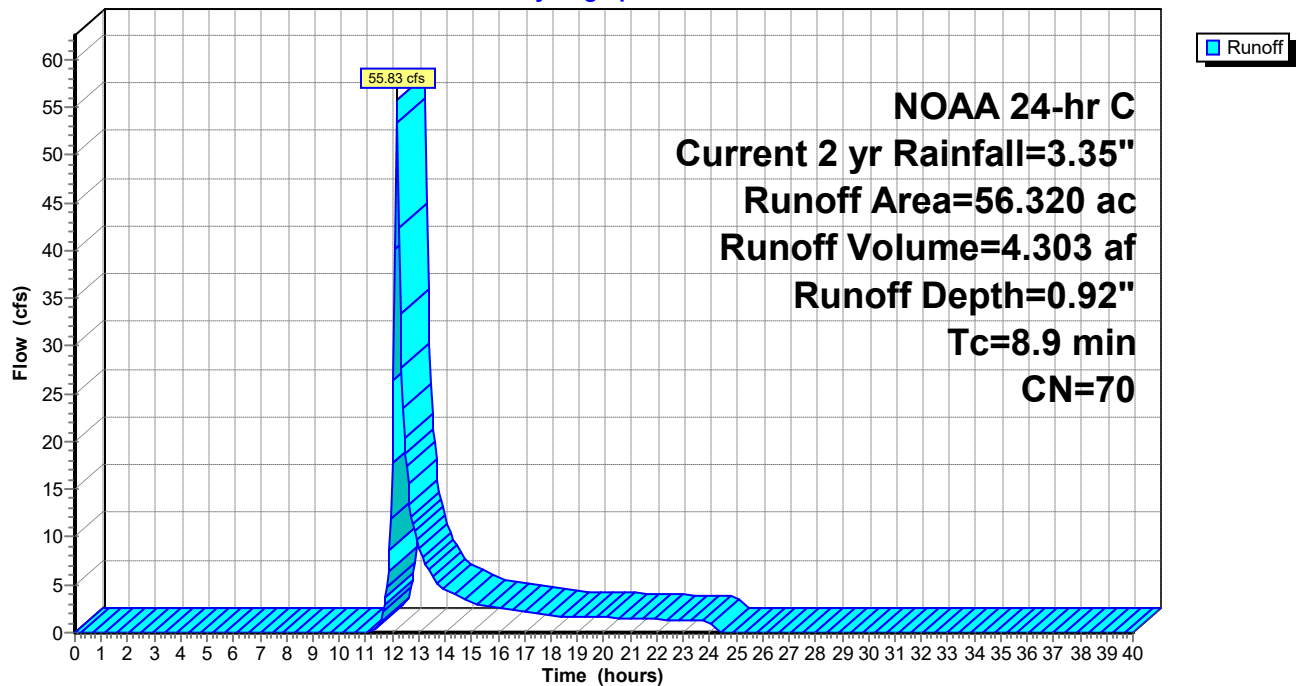
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

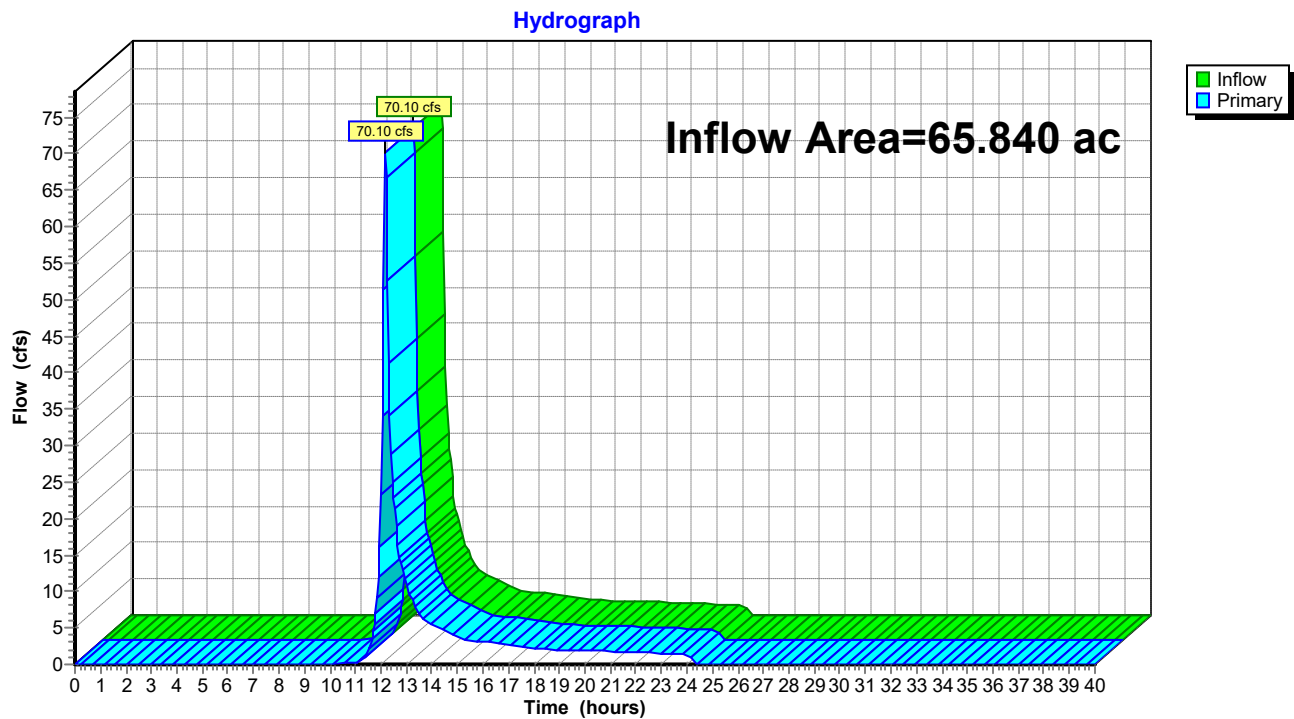
Hydrograph



Summary for Link DP-3: Design Pont #3 (Woolsey Creek)

Inflow Area = 65.840 ac, 1.15% Impervious, Inflow Depth = 0.98" for Current 2 yr event
Inflow = 70.10 cfs @ 12.17 hrs, Volume= 5.374 af
Primary = 70.10 cfs @ 12.17 hrs, Volume= 5.374 af, Atten= 0%, Lag= 0.0 min

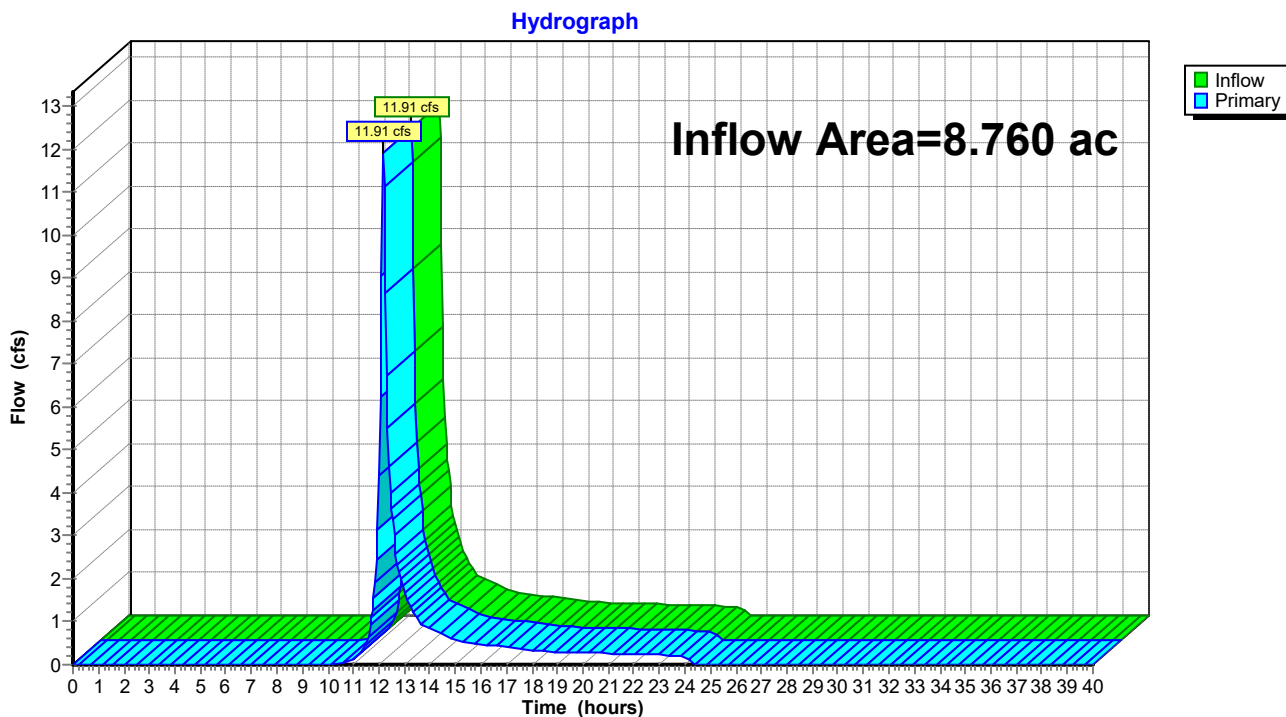
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link DP-3: Design Pont #3 (Woolsey Creek)

Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 1.20" for Current 2 yr event
Inflow = 11.91 cfs @ 12.17 hrs, Volume= 0.874 af
Primary = 11.91 cfs @ 12.17 hrs, Volume= 0.874 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

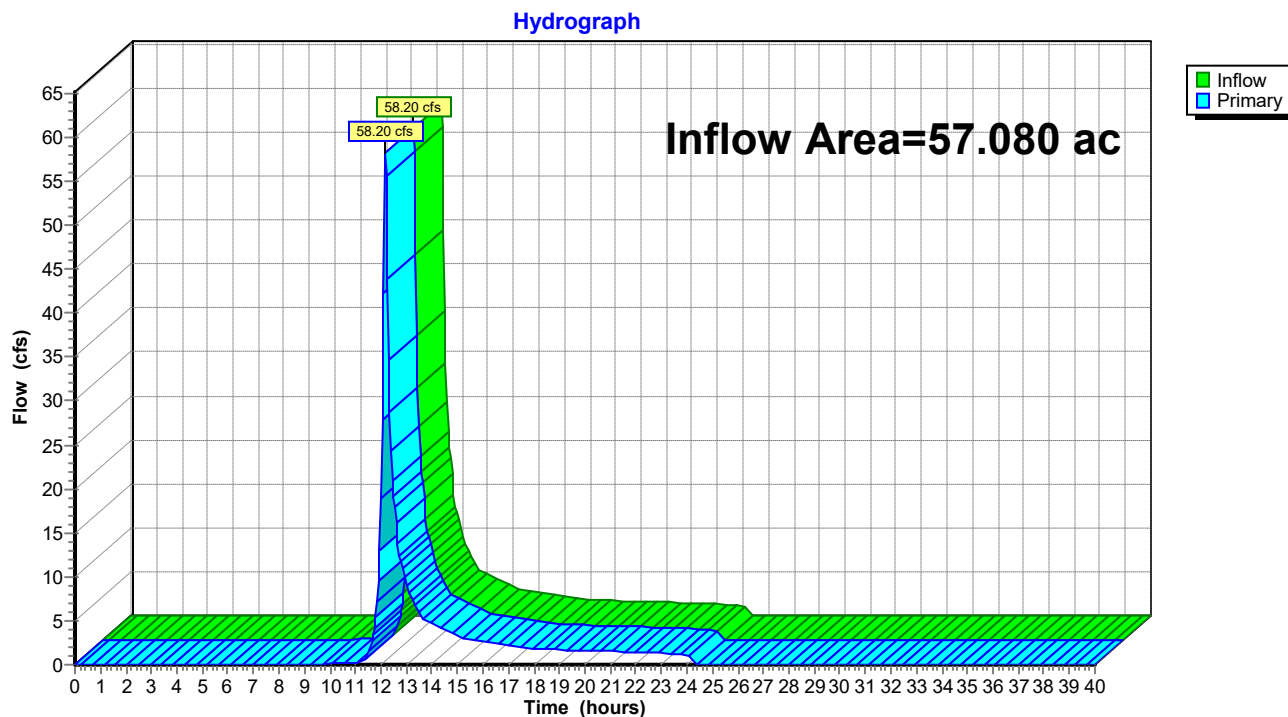
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-5: Existing Drainage Area #5

Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 0.95" for Current 2 yr event
Inflow = 58.20 cfs @ 12.17 hrs, Volume= 4.500 af
Primary = 58.20 cfs @ 12.17 hrs, Volume= 4.500 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 25.74 cfs @ 12.16 hrs, Volume= 1.847 af, Depth= 2.53"
 Routed to Link XDA-5 : Existing Drainage Area #5

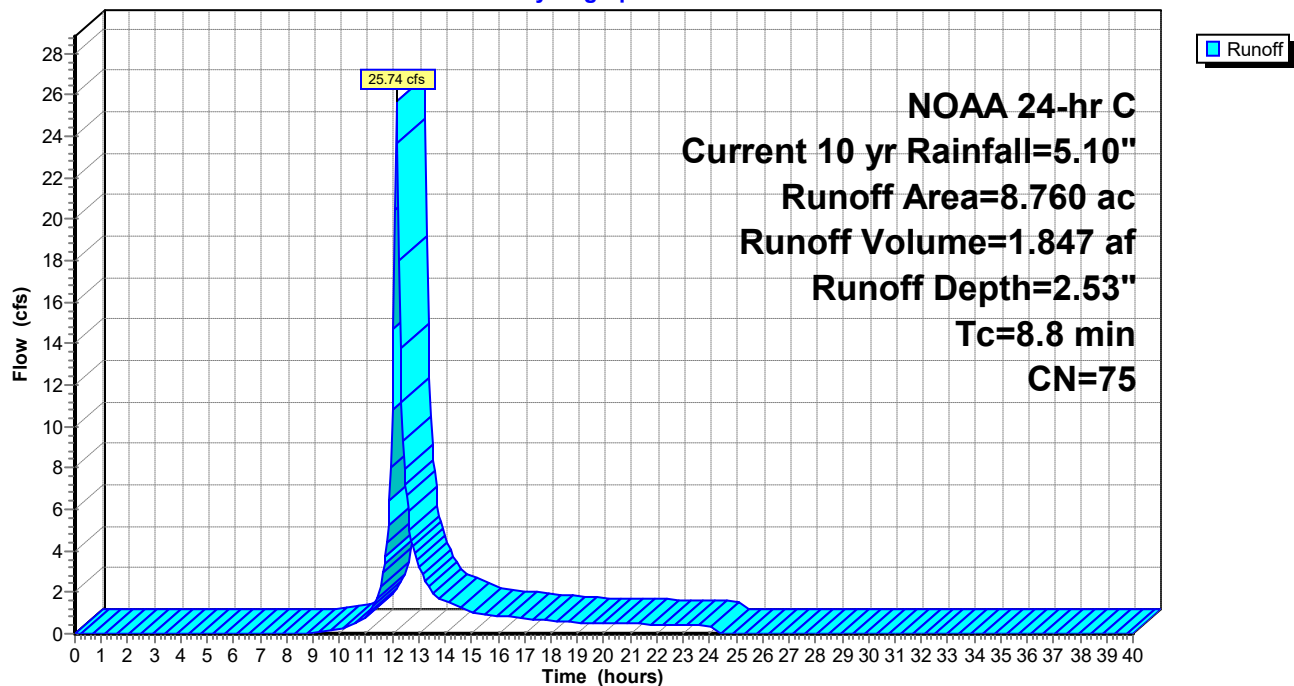
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

Hydrograph



Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 3.68 cfs @ 12.16 hrs, Volume= 0.308 af, Depth= 4.86"
 Routed to Link XDA-6 : Existing Drainage Area #6

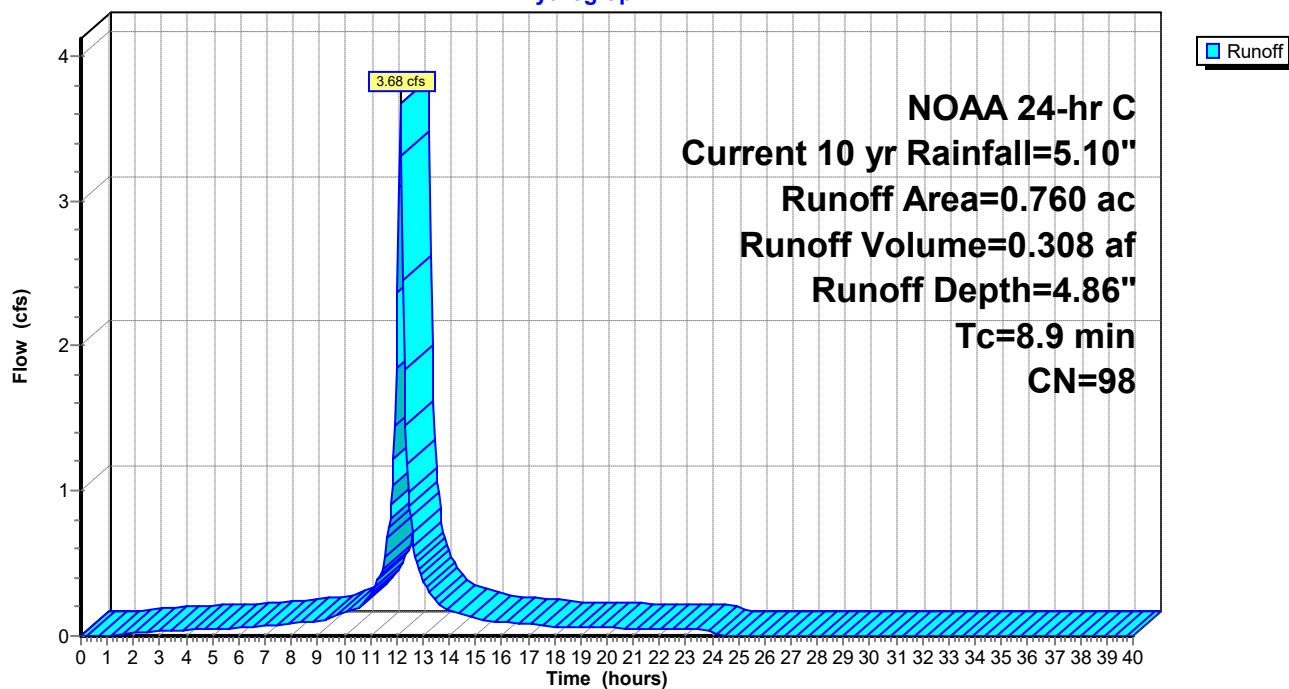
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 136.54 cfs @ 12.17 hrs, Volume= 9.907 af, Depth= 2.11"
 Routed to Link XDA-6 : Existing Drainage Area #6

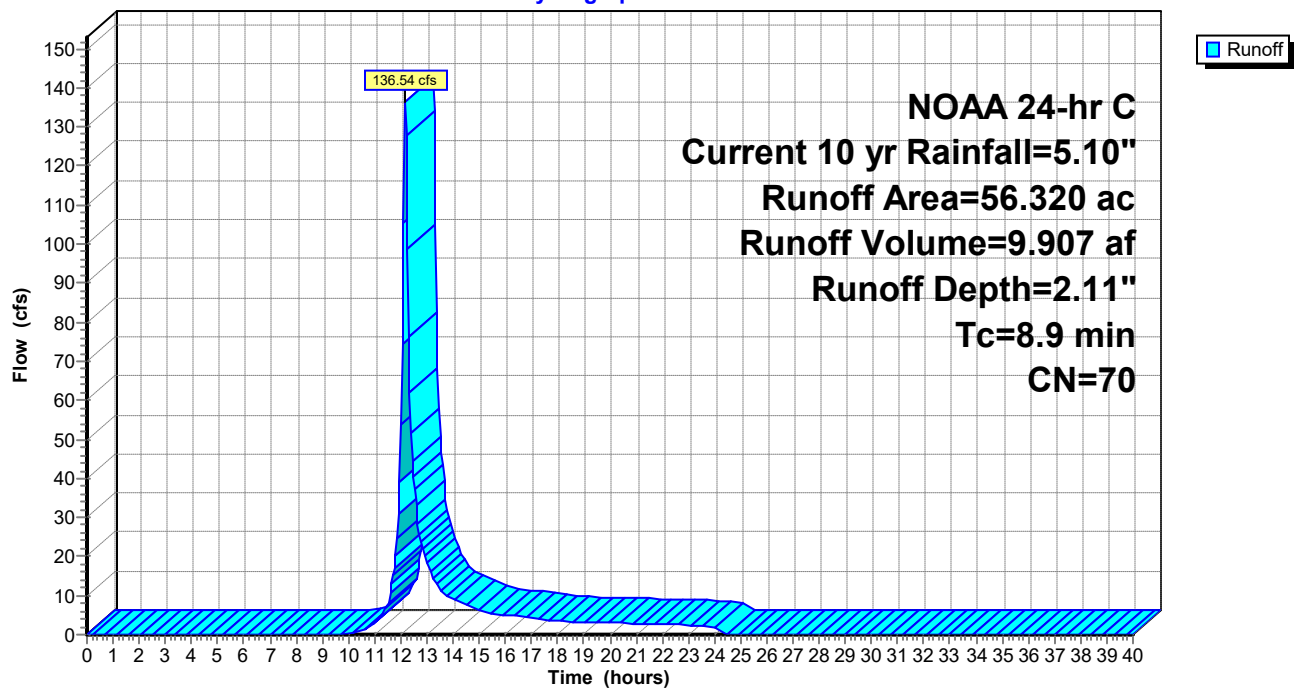
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

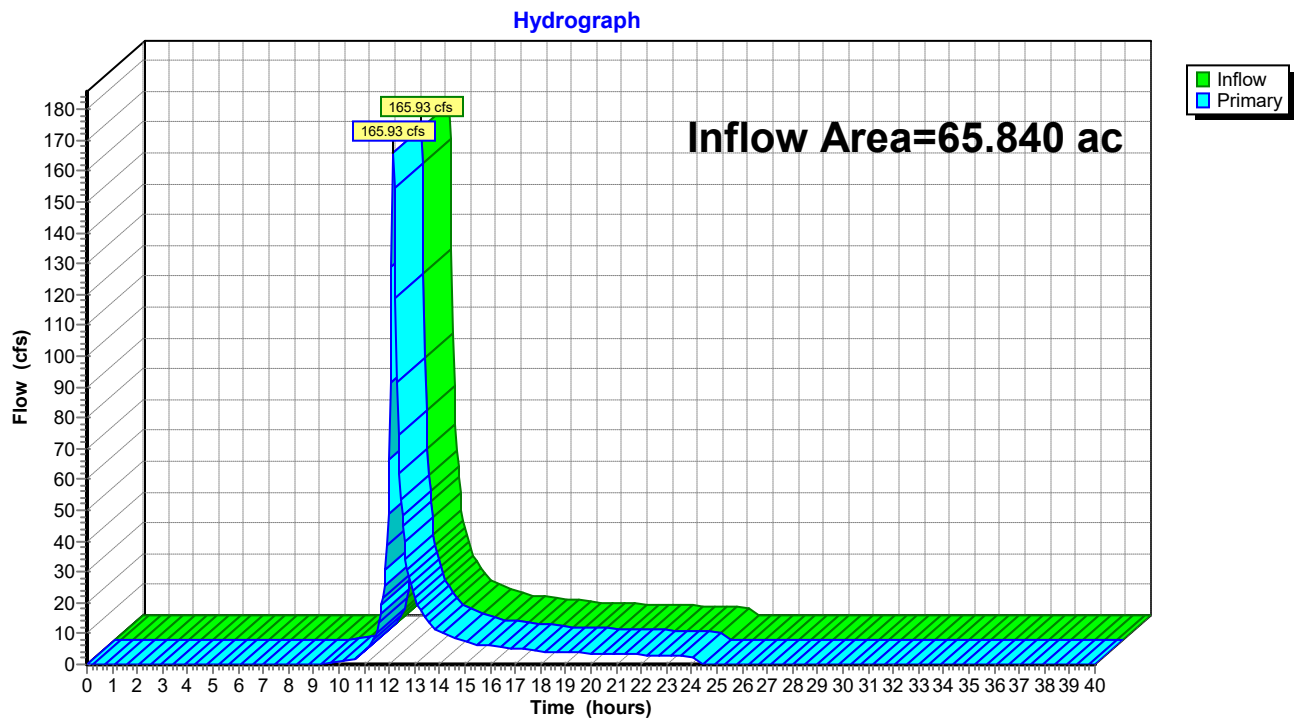
Hydrograph



Summary for Link DP-3: Design Pont #3 (Woolsey Creek)

Inflow Area = 65.840 ac, 1.15% Impervious, Inflow Depth = 2.20" for Current 10 yr event
Inflow = 165.93 cfs @ 12.16 hrs, Volume= 12.062 af
Primary = 165.93 cfs @ 12.16 hrs, Volume= 12.062 af, Atten= 0%, Lag= 0.0 min

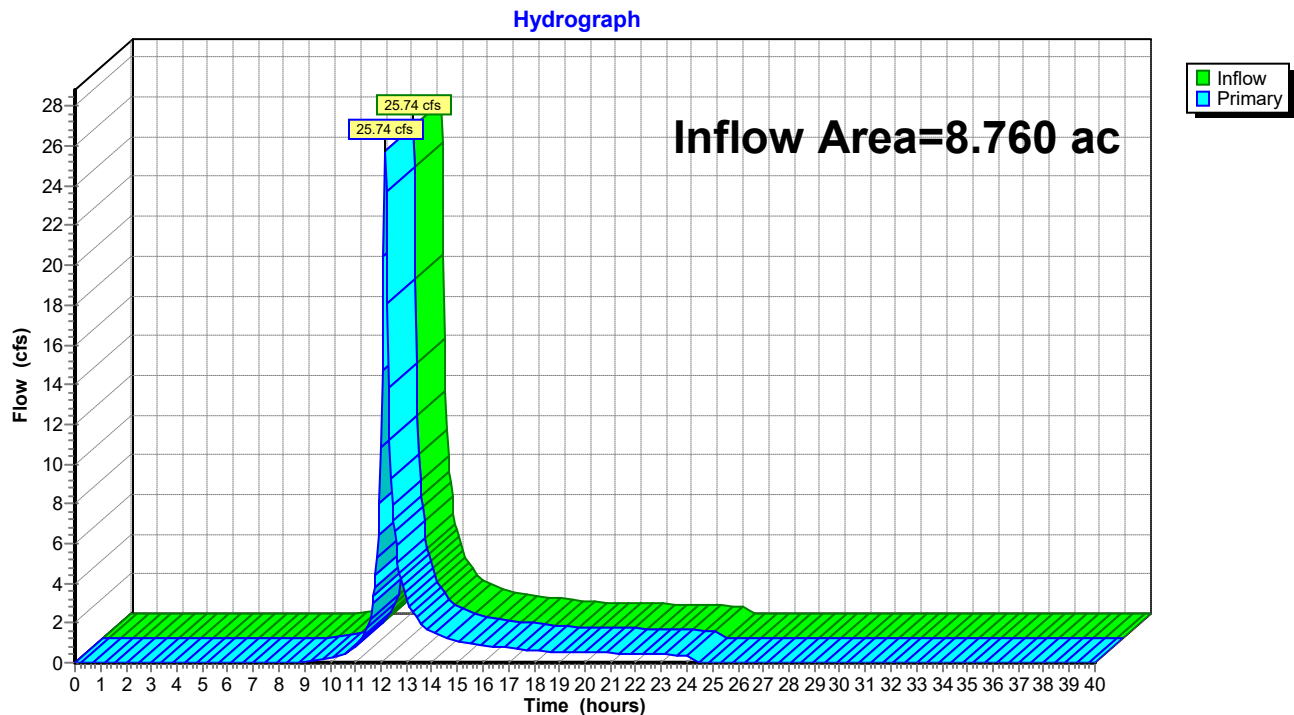
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link DP-3: Design Pont #3 (Woolsey Creek)

Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 2.53" for Current 10 yr event
Inflow = 25.74 cfs @ 12.16 hrs, Volume= 1.847 af
Primary = 25.74 cfs @ 12.16 hrs, Volume= 1.847 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

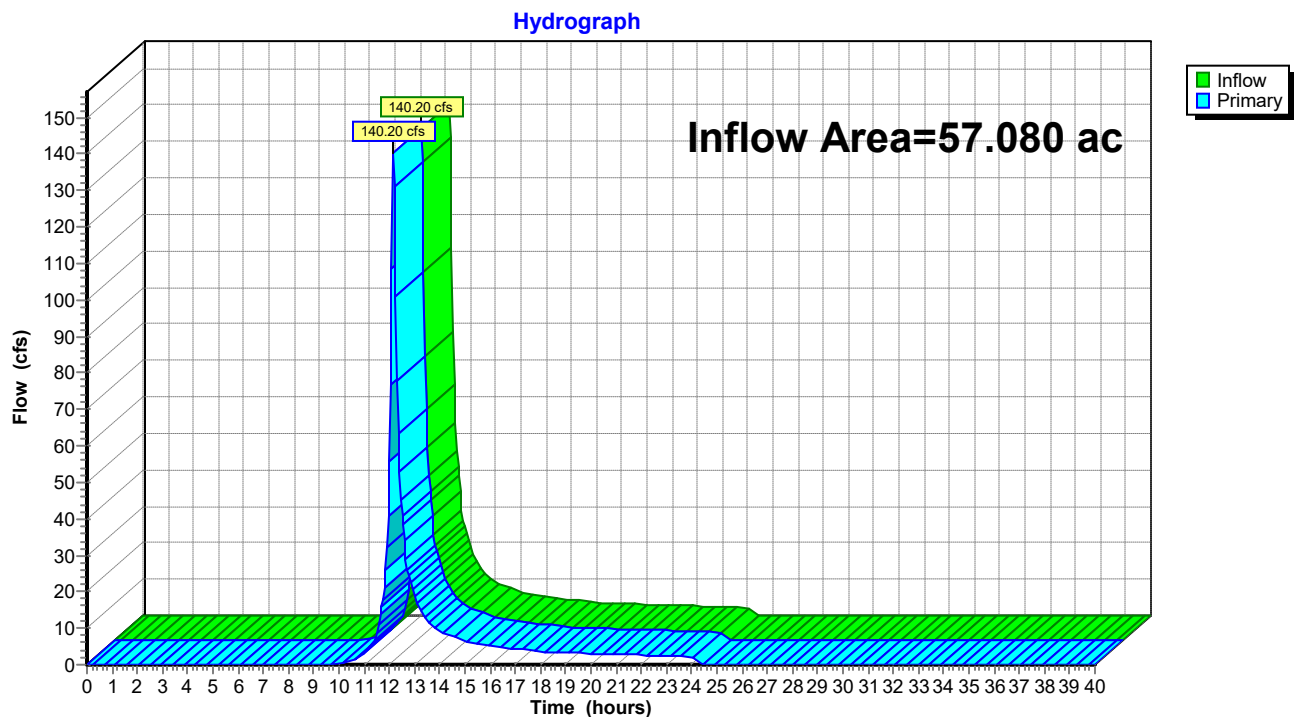
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-5: Existing Drainage Area #5

Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 2.15" for Current 10 yr event
Inflow = 140.20 cfs @ 12.16 hrs, Volume= 10.215 af
Primary = 140.20 cfs @ 12.16 hrs, Volume= 10.215 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 55.94 cfs @ 12.16 hrs, Volume= 4.071 af, Depth= 5.58"
Routed to Link XDA-5 : Existing Drainage Area #5

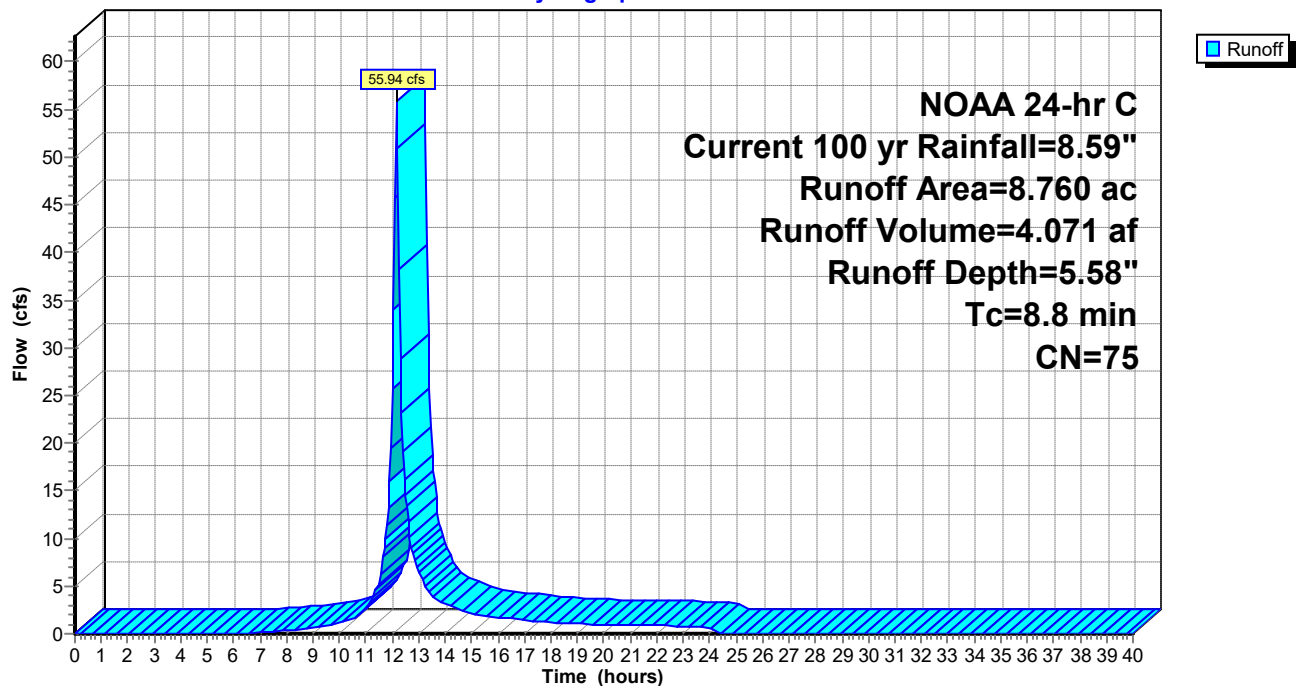
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

Hydrograph



Summary for Subcatchment X-6I: XDA-6 (impervious)

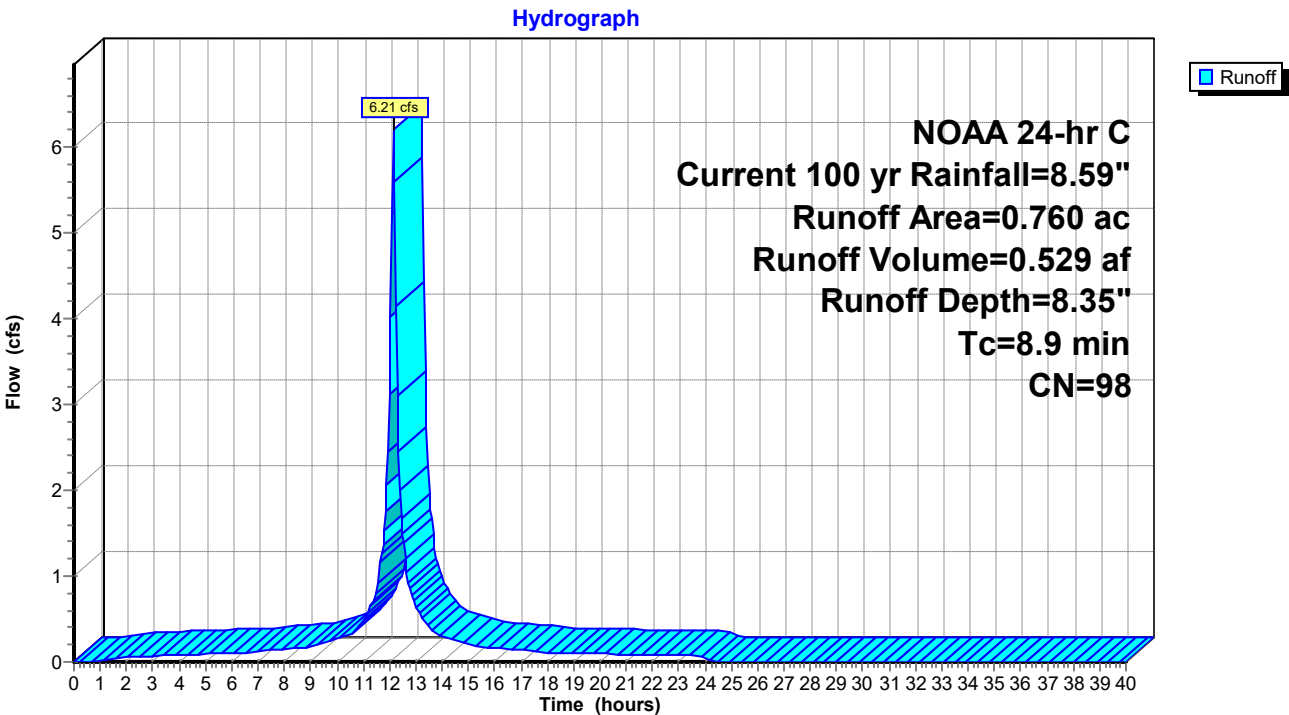
Runoff = 6.21 cfs @ 12.16 hrs, Volume= 0.529 af, Depth= 8.35"
Routed to Link XDA-6 : Existing Drainage Area #6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 323.09 cfs @ 12.16 hrs, Volume= 23.351 af, Depth= 4.98"
 Routed to Link XDA-6 : Existing Drainage Area #6

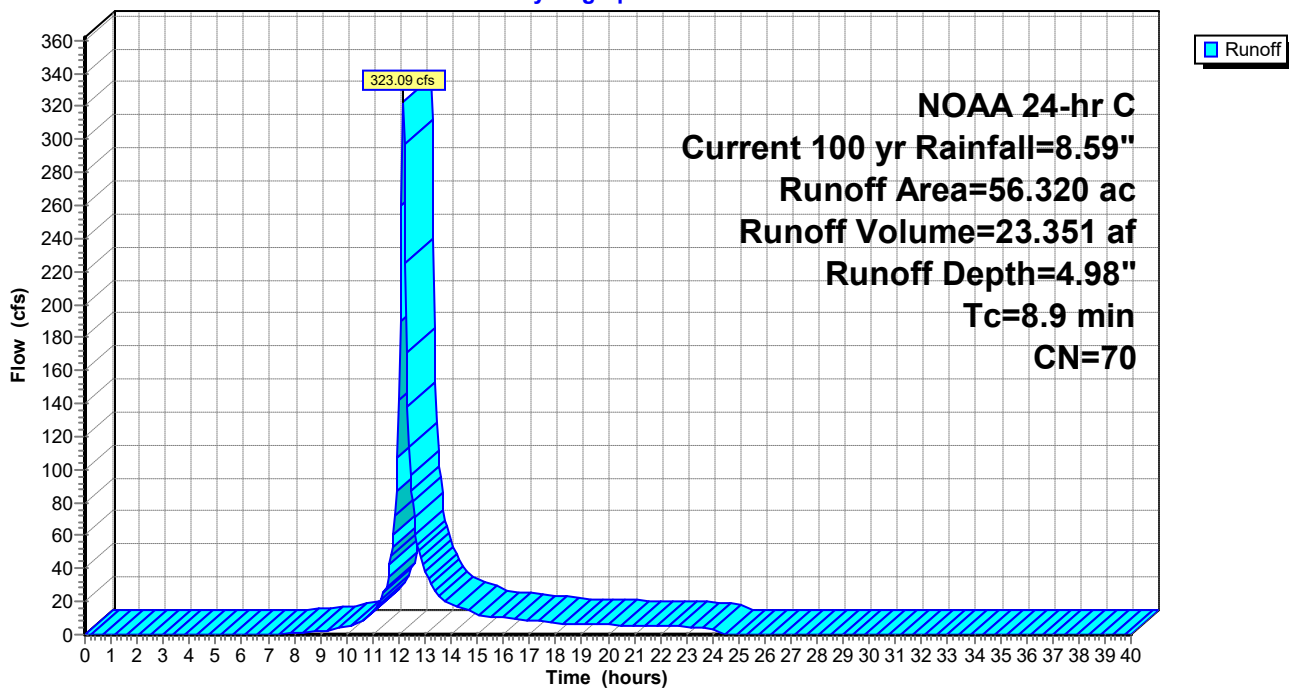
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

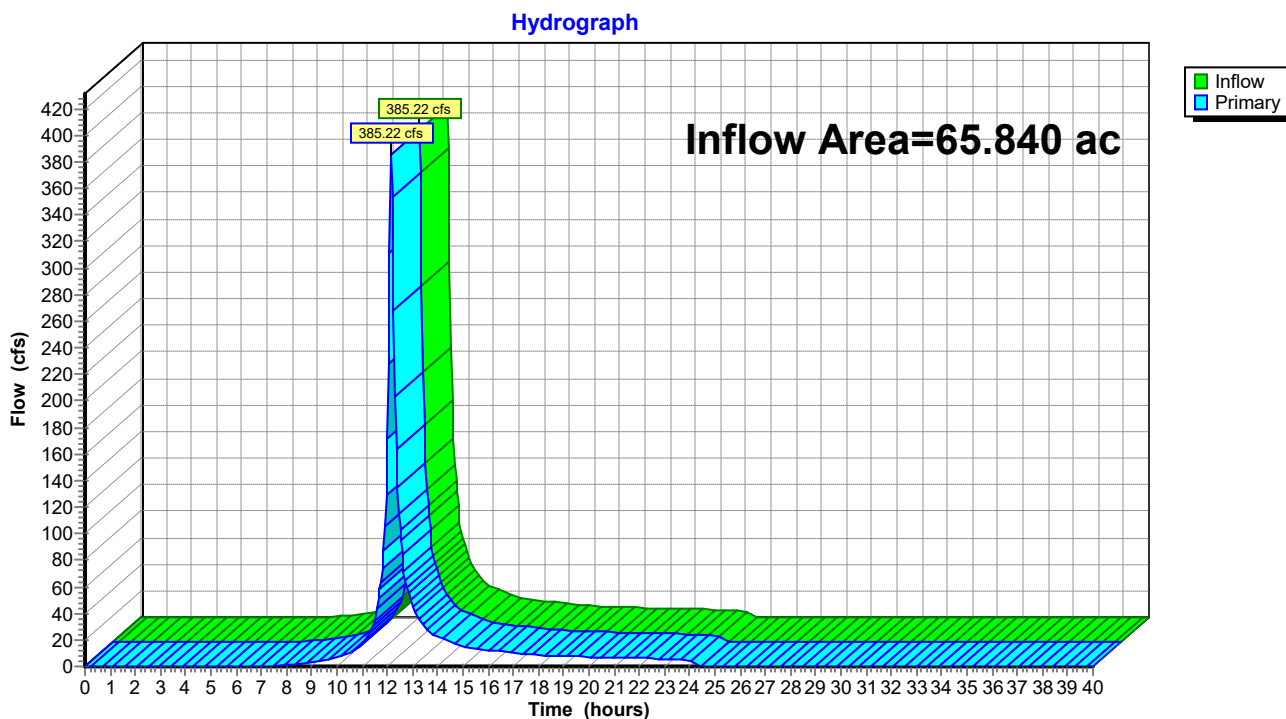
Hydrograph



Summary for Link DP-3: Design Pont #3 (Woolsey Creek)

Inflow Area = 65.840 ac, 1.15% Impervious, Inflow Depth = 5.09" for Current 100 yr event
Inflow = 385.22 cfs @ 12.16 hrs, Volume= 27.951 af
Primary = 385.22 cfs @ 12.16 hrs, Volume= 27.951 af, Atten= 0%, Lag= 0.0 min

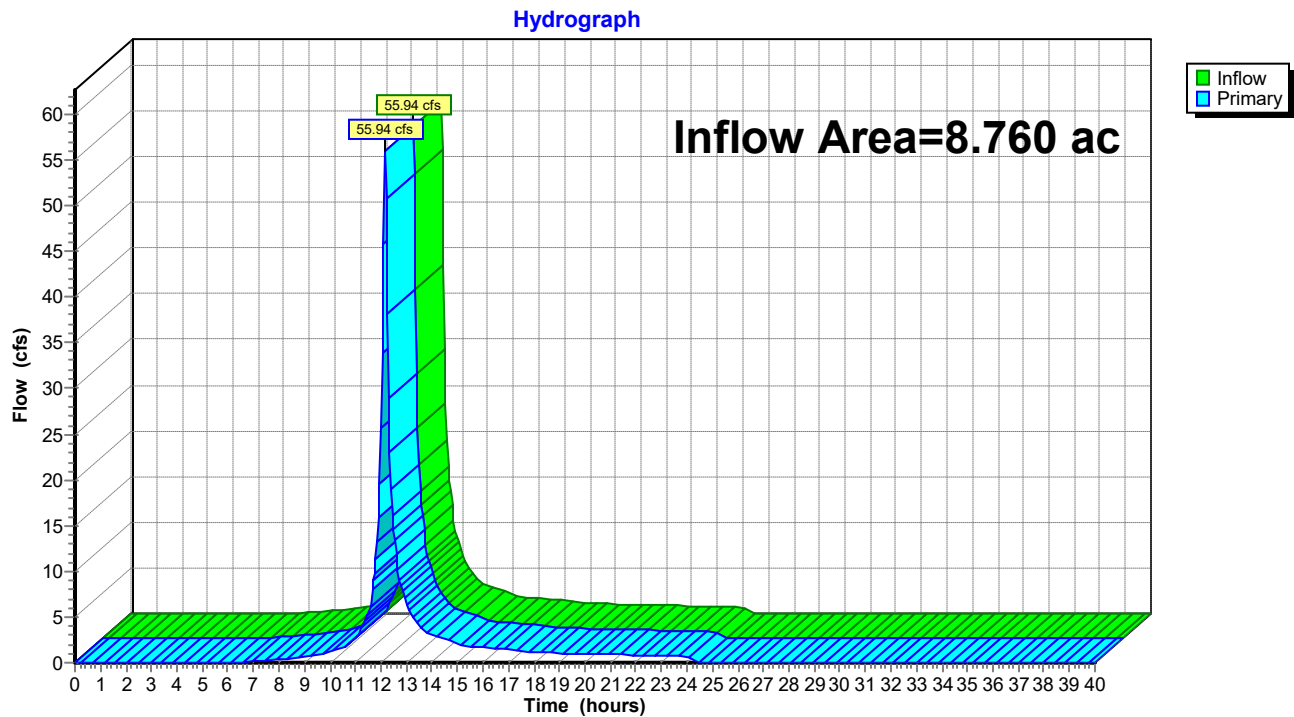
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link DP-3: Design Pont #3 (Woolsey Creek)

Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 5.58" for Current 100 yr event
Inflow = 55.94 cfs @ 12.16 hrs, Volume= 4.071 af
Primary = 55.94 cfs @ 12.16 hrs, Volume= 4.071 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

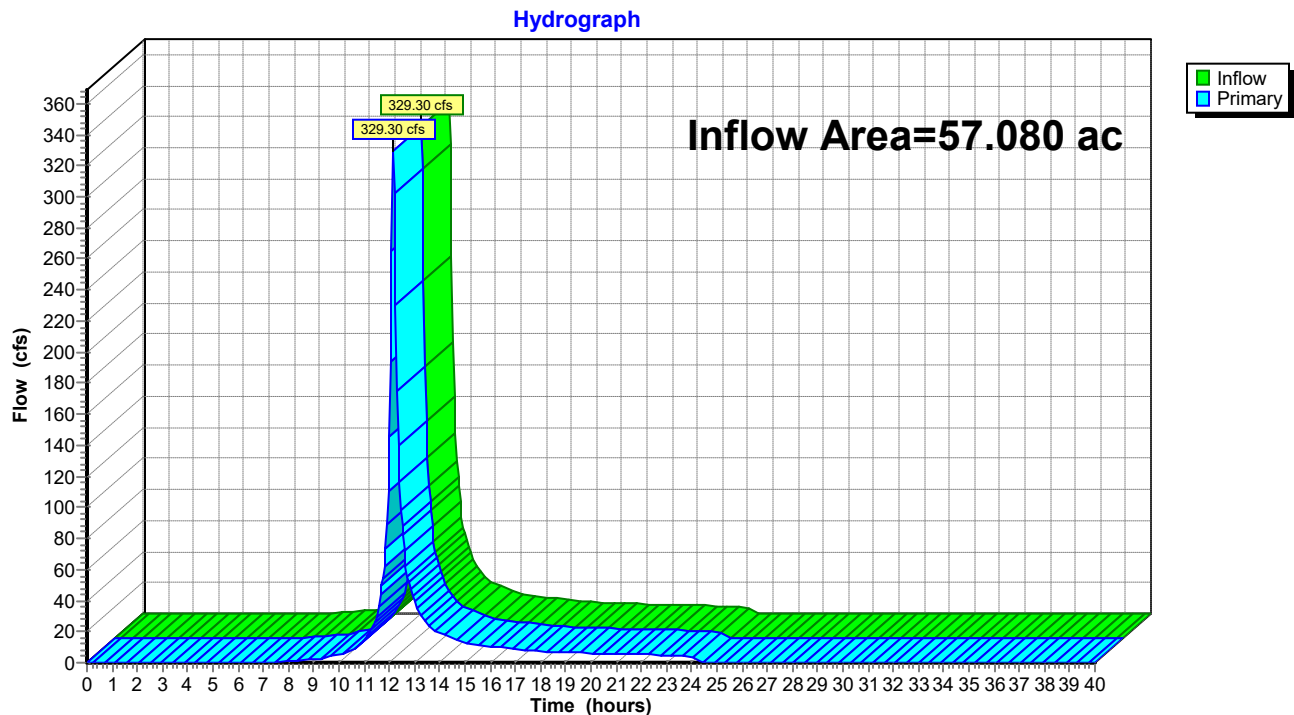
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-5: Existing Drainage Area #5

Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 5.02" for Current 100 yr event
Inflow = 329.30 cfs @ 12.16 hrs, Volume= 23.880 af
Primary = 329.30 cfs @ 12.16 hrs, Volume= 23.880 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 15.67 cfs @ 12.16 hrs, Volume= 1.135 af, Depth= 1.56"
Routed to Link XDA-5 : Existing Drainage Area #5

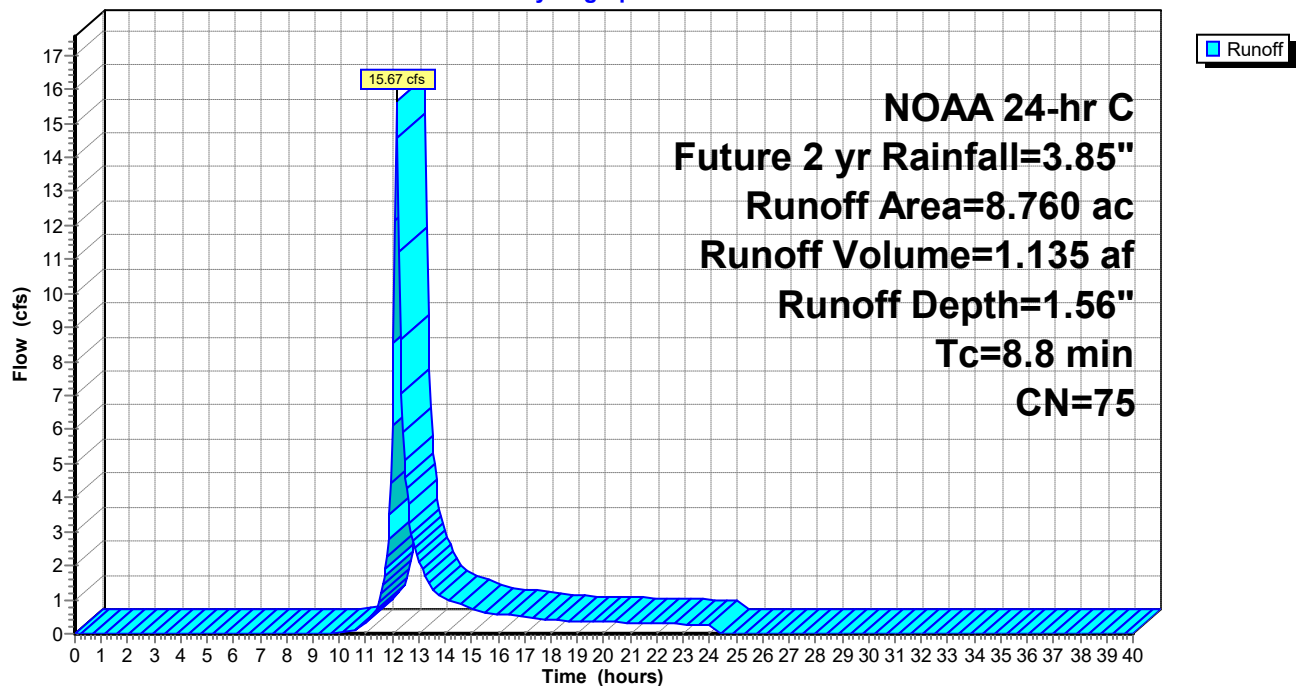
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

Hydrograph



Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 2.77 cfs @ 12.16 hrs, Volume= 0.229 af, Depth= 3.62"

Routed to Link XDA-6 : Existing Drainage Area #6

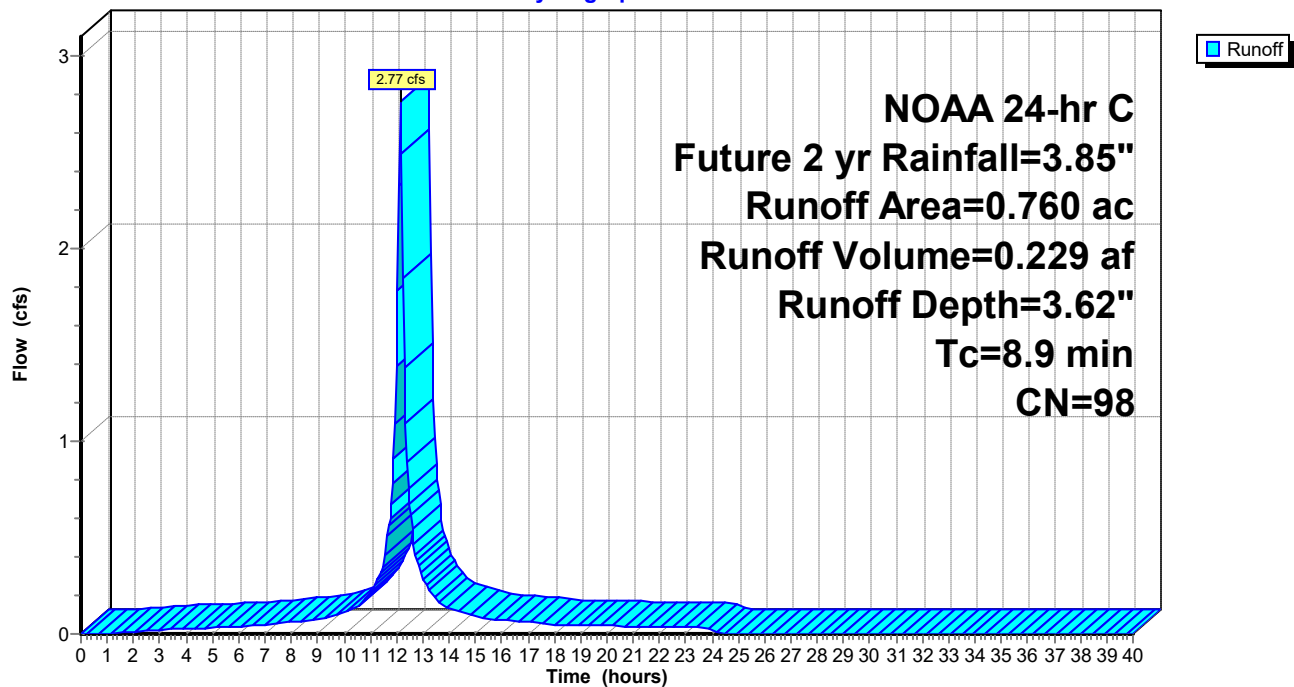
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 77.25 cfs @ 12.17 hrs, Volume= 5.776 af, Depth= 1.23"
 Routed to Link XDA-6 : Existing Drainage Area #6

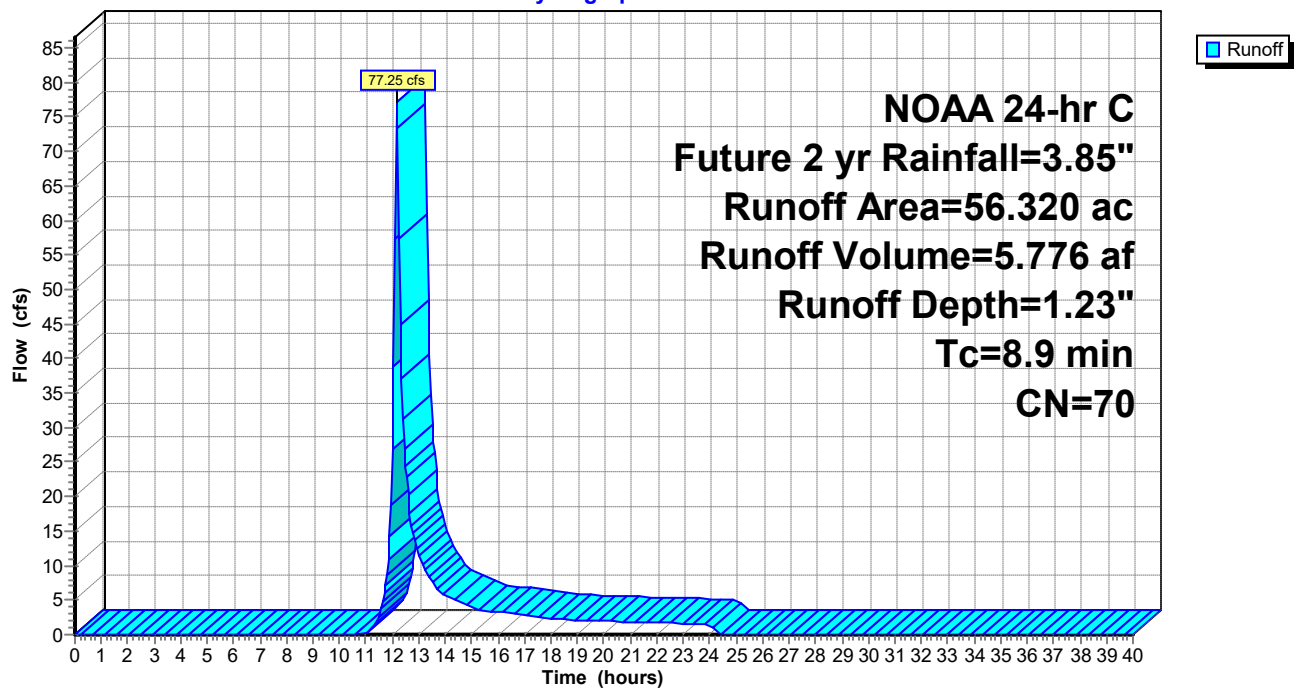
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

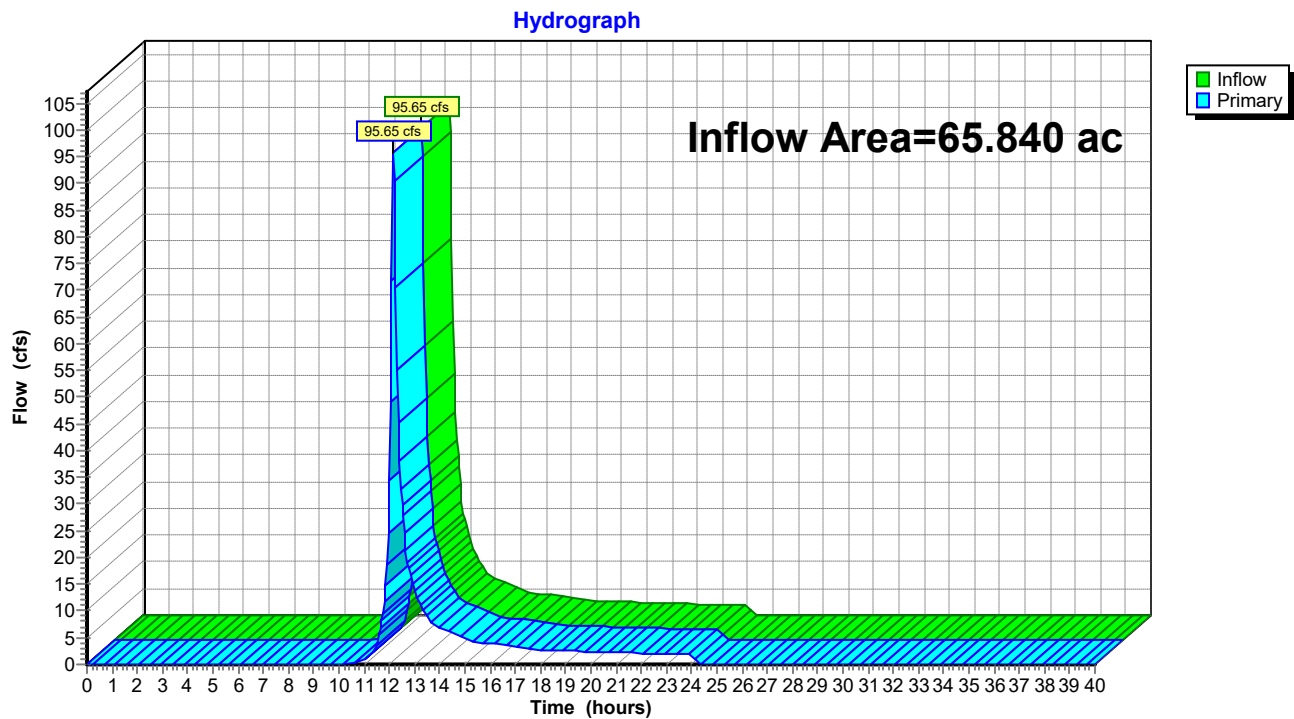
Hydrograph



Summary for Link DP-3: Design Pont #3 (Woolsey Creek)

Inflow Area = 65.840 ac, 1.15% Impervious, Inflow Depth = 1.30" for Future 2 yr event
Inflow = 95.65 cfs @ 12.17 hrs, Volume= 7.140 af
Primary = 95.65 cfs @ 12.17 hrs, Volume= 7.140 af, Atten= 0%, Lag= 0.0 min

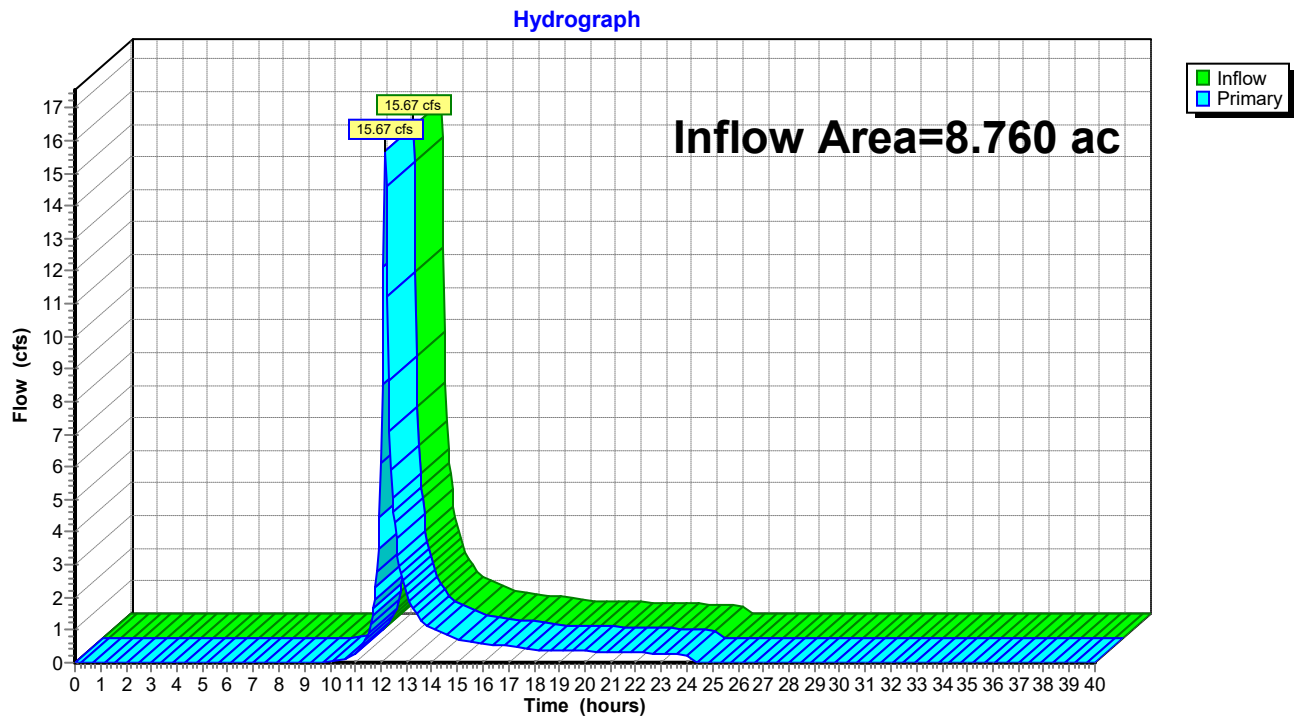
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link DP-3: Design Pont #3 (Woolsey Creek)

Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 1.56" for Future 2 yr event
Inflow = 15.67 cfs @ 12.16 hrs, Volume= 1.135 af
Primary = 15.67 cfs @ 12.16 hrs, Volume= 1.135 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

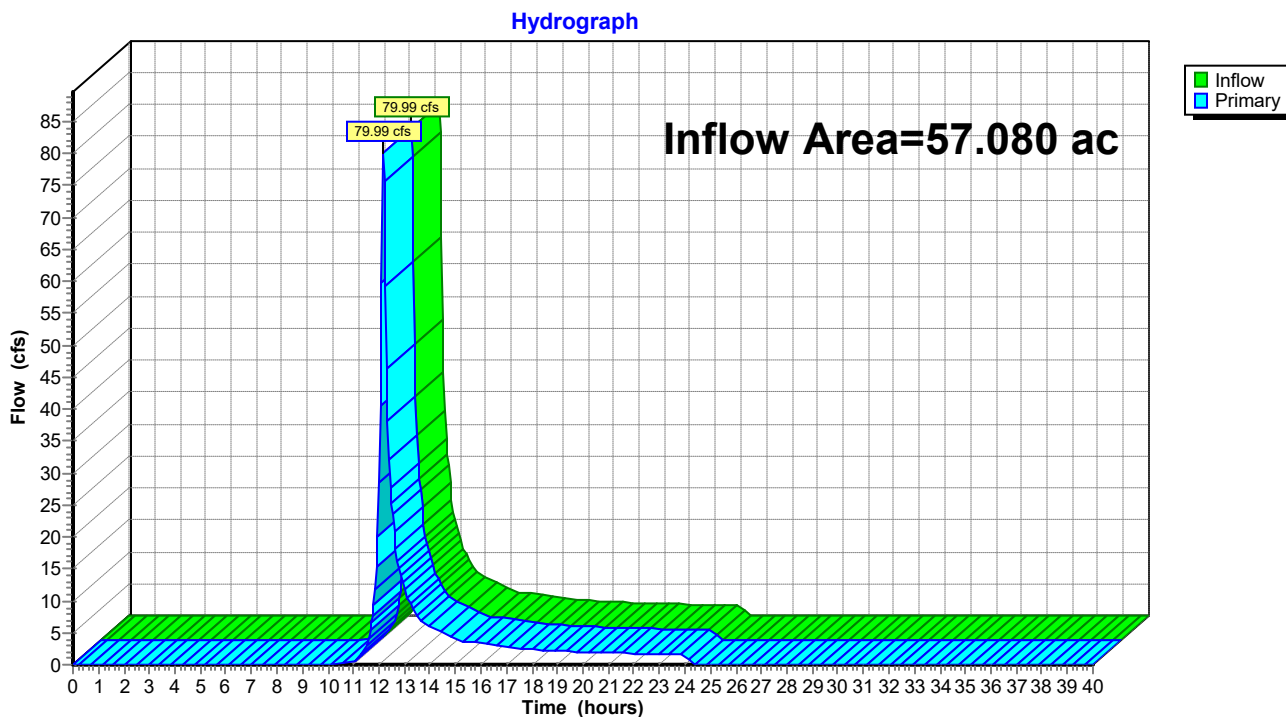
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-5: Existing Drainage Area #5

Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 1.26" for Future 2 yr event
Inflow = 79.99 cfs @ 12.17 hrs, Volume= 6.005 af
Primary = 79.99 cfs @ 12.17 hrs, Volume= 6.005 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 32.06 cfs @ 12.16 hrs, Volume= 2.303 af, Depth= 3.15"
 Routed to Link XDA-5 : Existing Drainage Area #5

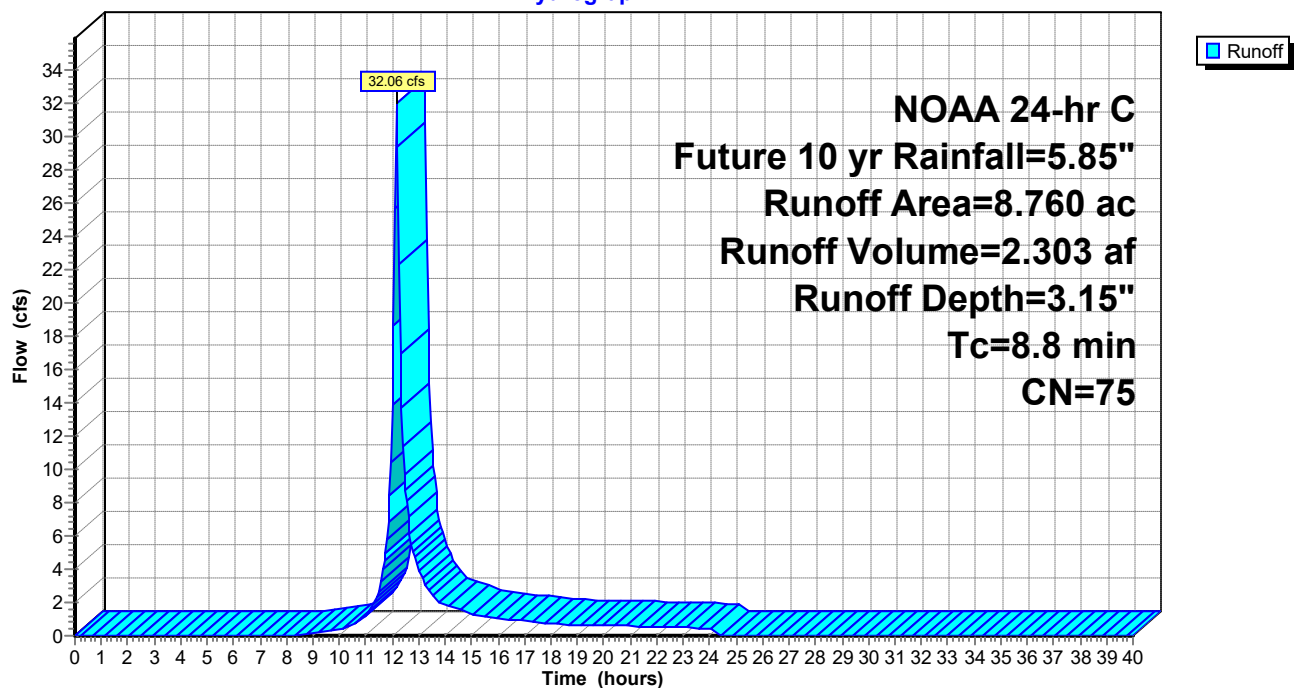
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

Hydrograph



Summary for Subcatchment X-6I: XDA-6 (impervious)

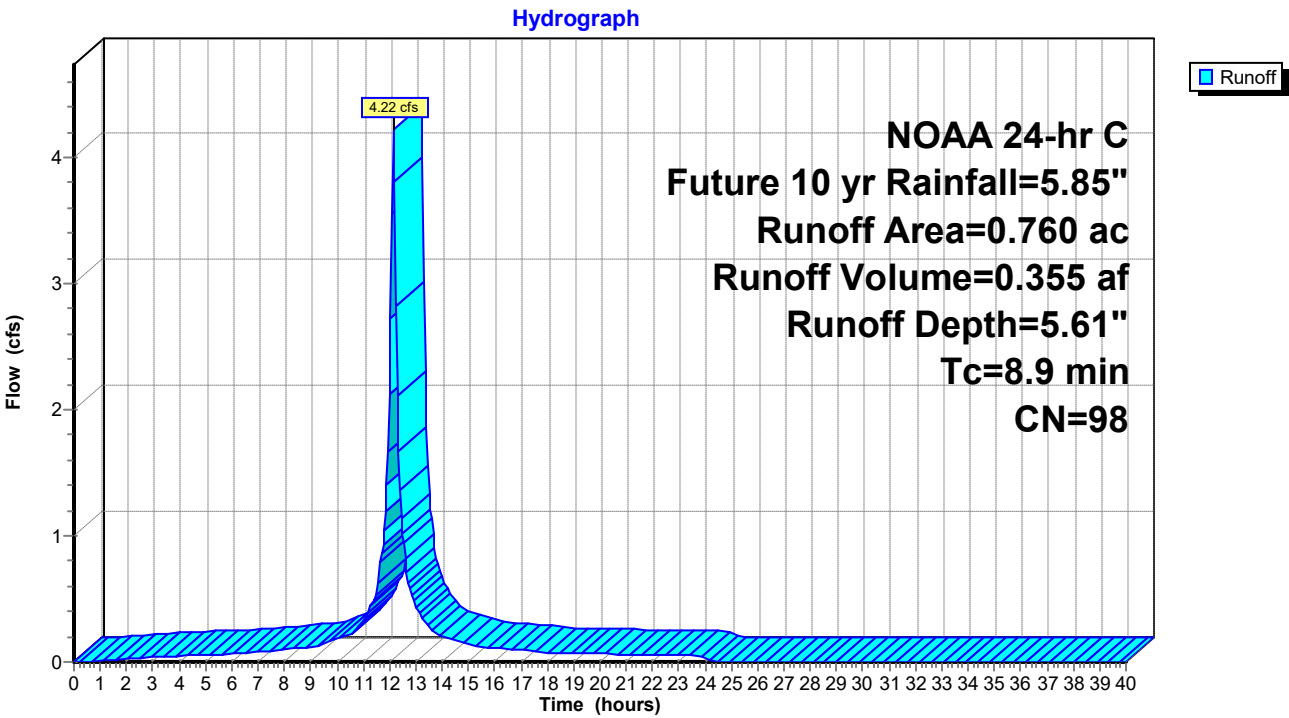
Runoff = 4.22 cfs @ 12.16 hrs, Volume= 0.355 af, Depth= 5.61"
Routed to Link XDA-6 : Existing Drainage Area #6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 174.78 cfs @ 12.16 hrs, Volume= 12.610 af, Depth= 2.69"
 Routed to Link XDA-6 : Existing Drainage Area #6

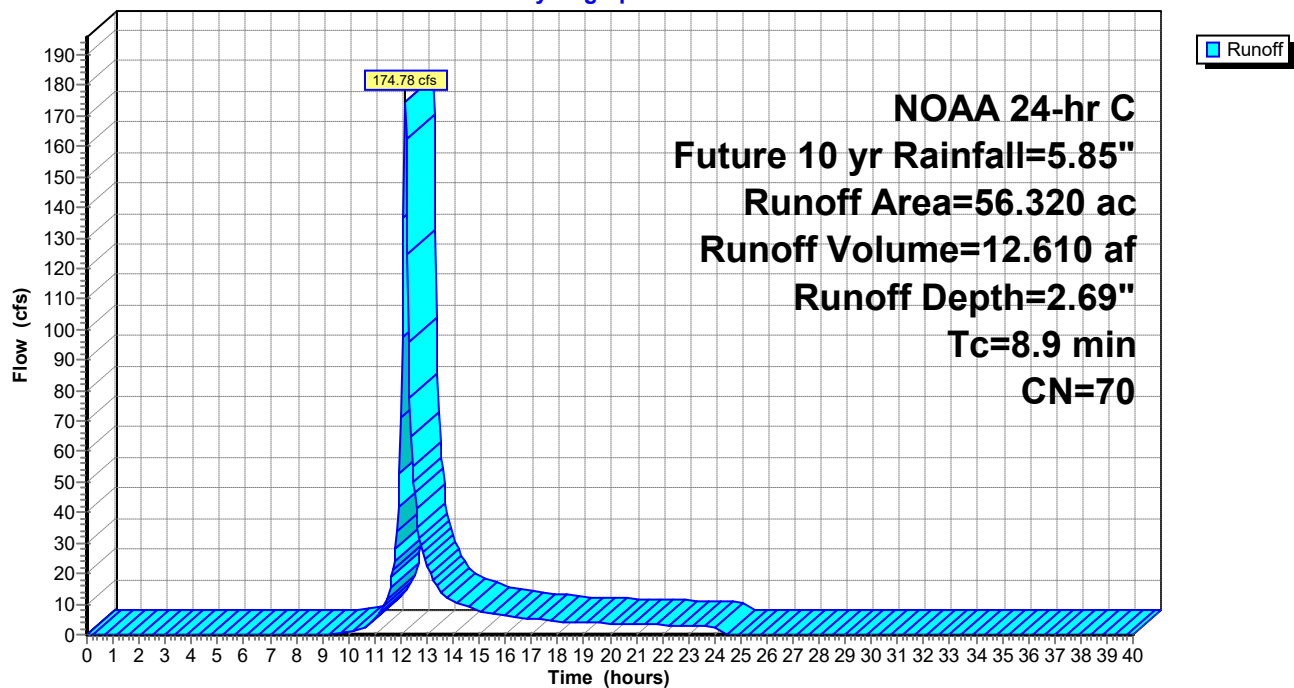
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

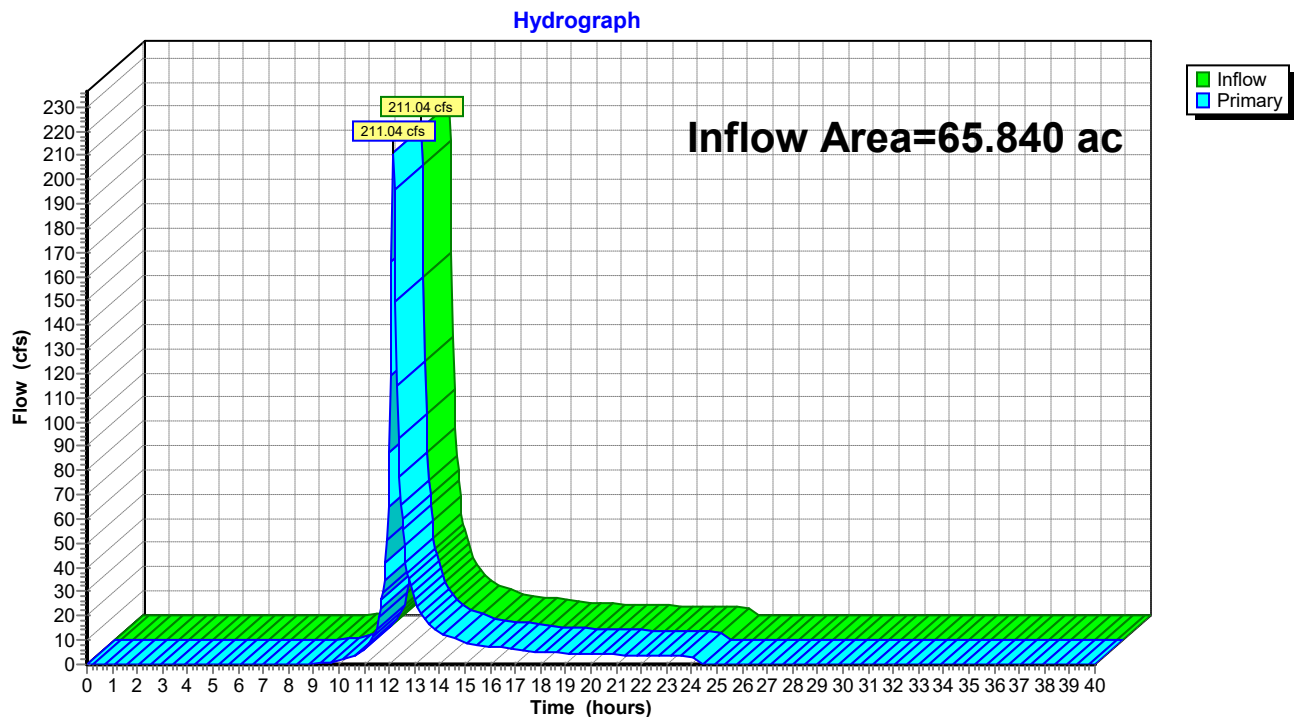
Hydrograph



Summary for Link DP-3: Design Pont #3 (Woolsey Creek)

Inflow Area = 65.840 ac, 1.15% Impervious, Inflow Depth = 2.78" for Future 10 yr event
Inflow = 211.04 cfs @ 12.16 hrs, Volume= 15.268 af
Primary = 211.04 cfs @ 12.16 hrs, Volume= 15.268 af, Atten= 0%, Lag= 0.0 min

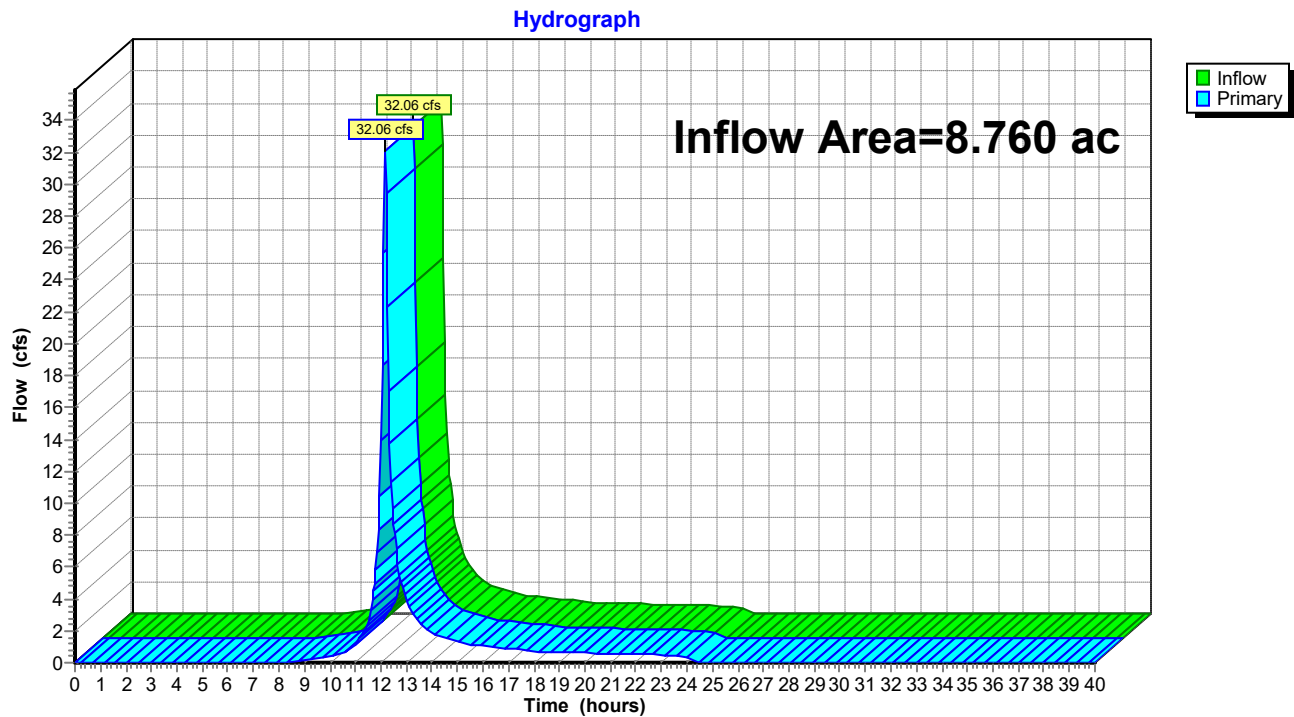
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link DP-3: Design Pont #3 (Woolsey Creek)

Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 3.15" for Future 10 yr event
Inflow = 32.06 cfs @ 12.16 hrs, Volume= 2.303 af
Primary = 32.06 cfs @ 12.16 hrs, Volume= 2.303 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

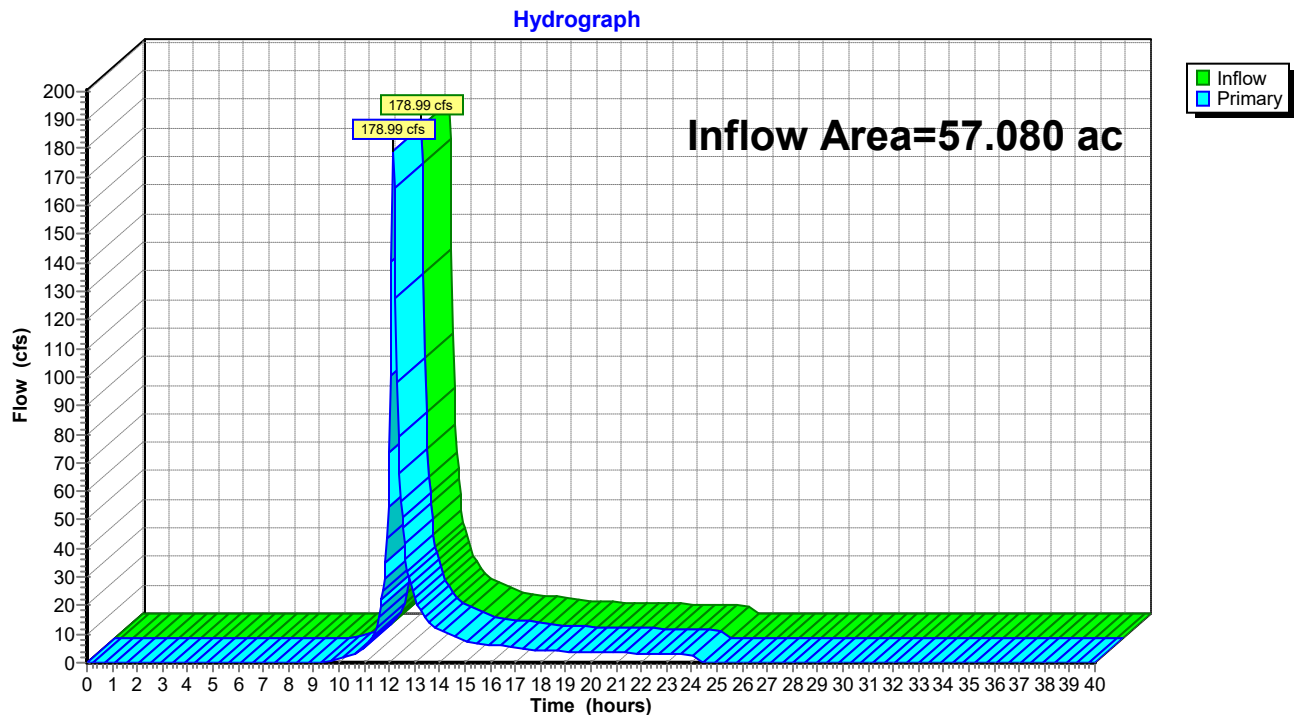
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-5: Existing Drainage Area #5

Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 2.73" for Future 10 yr event
Inflow = 178.99 cfs @ 12.16 hrs, Volume= 12.965 af
Primary = 178.99 cfs @ 12.16 hrs, Volume= 12.965 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 79.30 cfs @ 12.16 hrs, Volume= 5.862 af, Depth= 8.03"
 Routed to Link XDA-5 : Existing Drainage Area #5

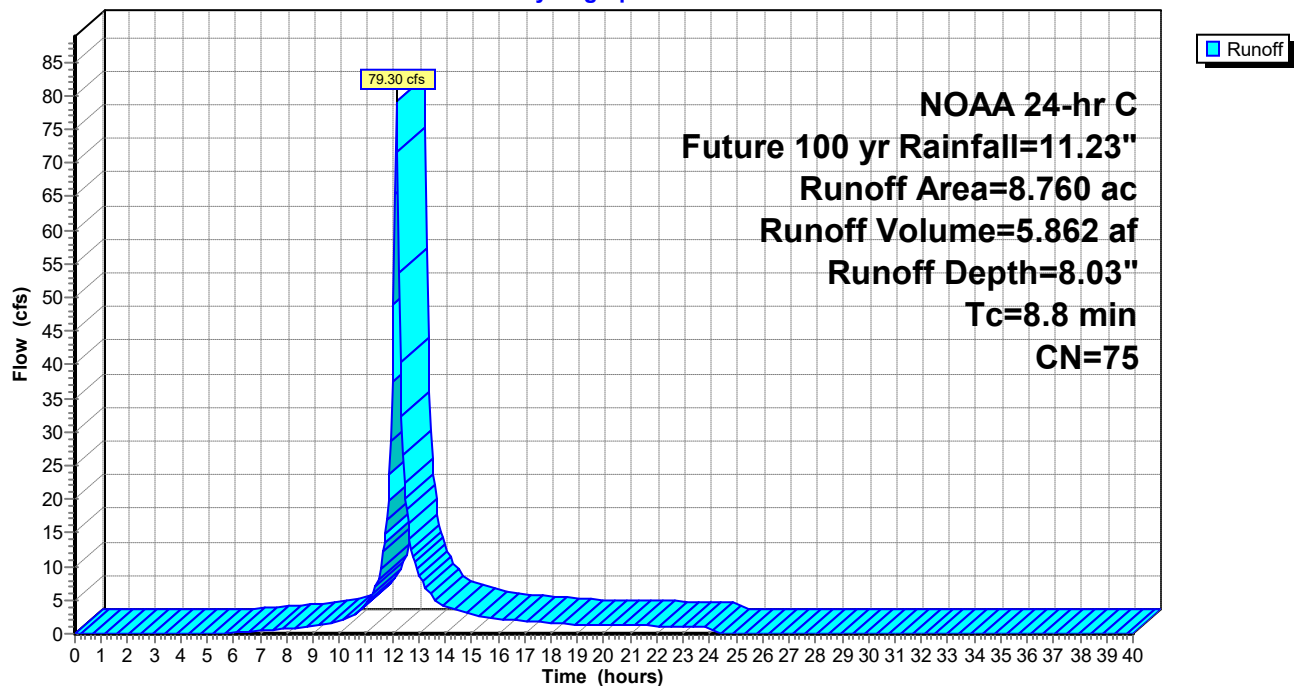
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

Hydrograph



Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 8.13 cfs @ 12.16 hrs, Volume= 0.696 af, Depth=10.99"
Routed to Link XDA-6 : Existing Drainage Area #6

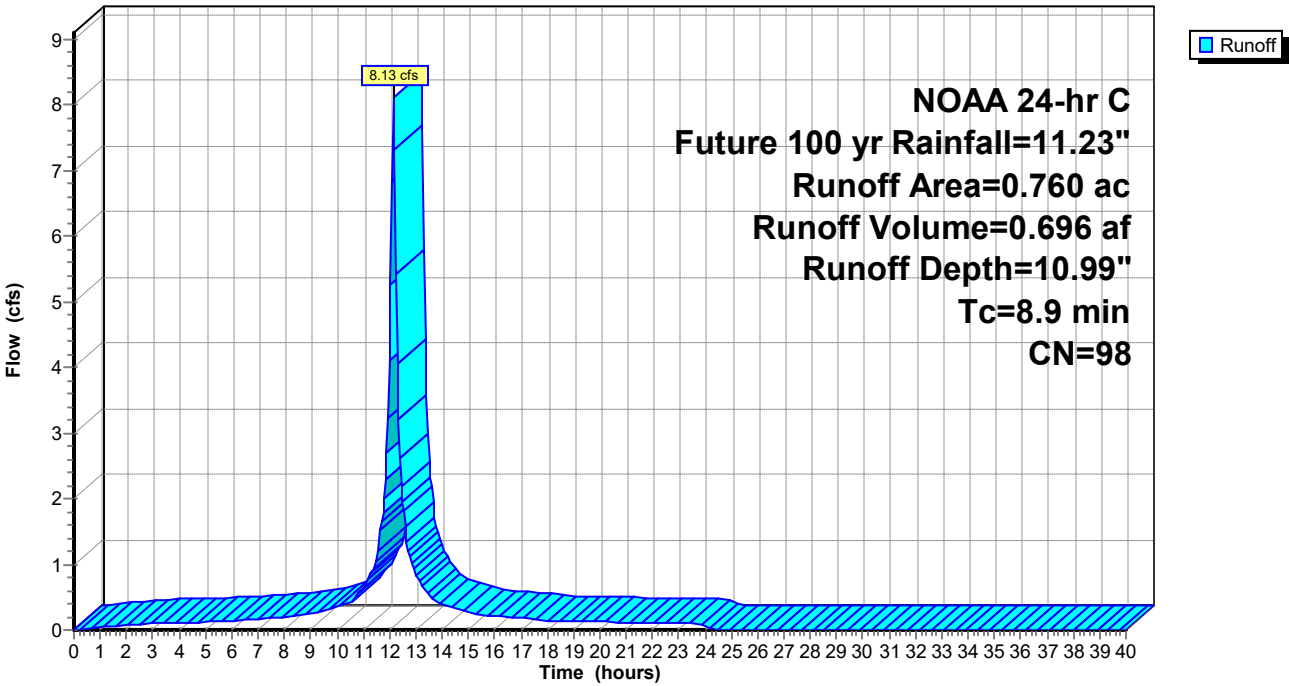
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 471.45 cfs @ 12.16 hrs, Volume= 34.450 af, Depth= 7.34"
 Routed to Link XDA-6 : Existing Drainage Area #6

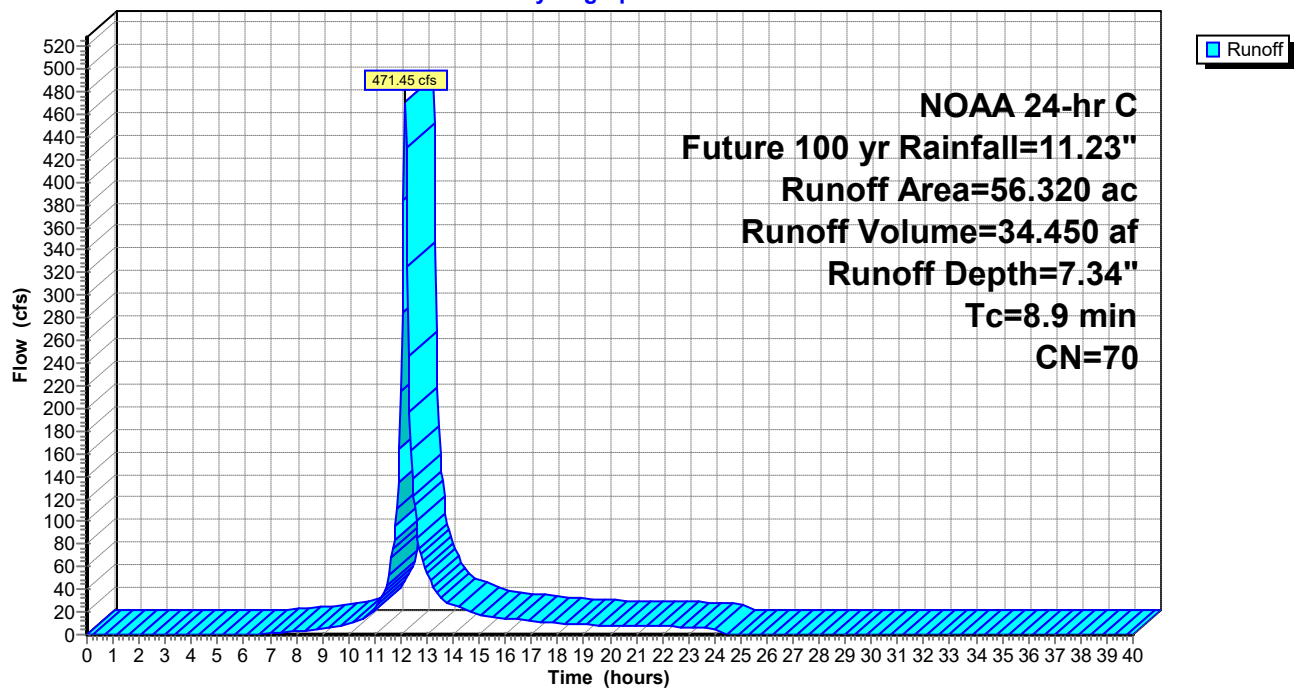
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

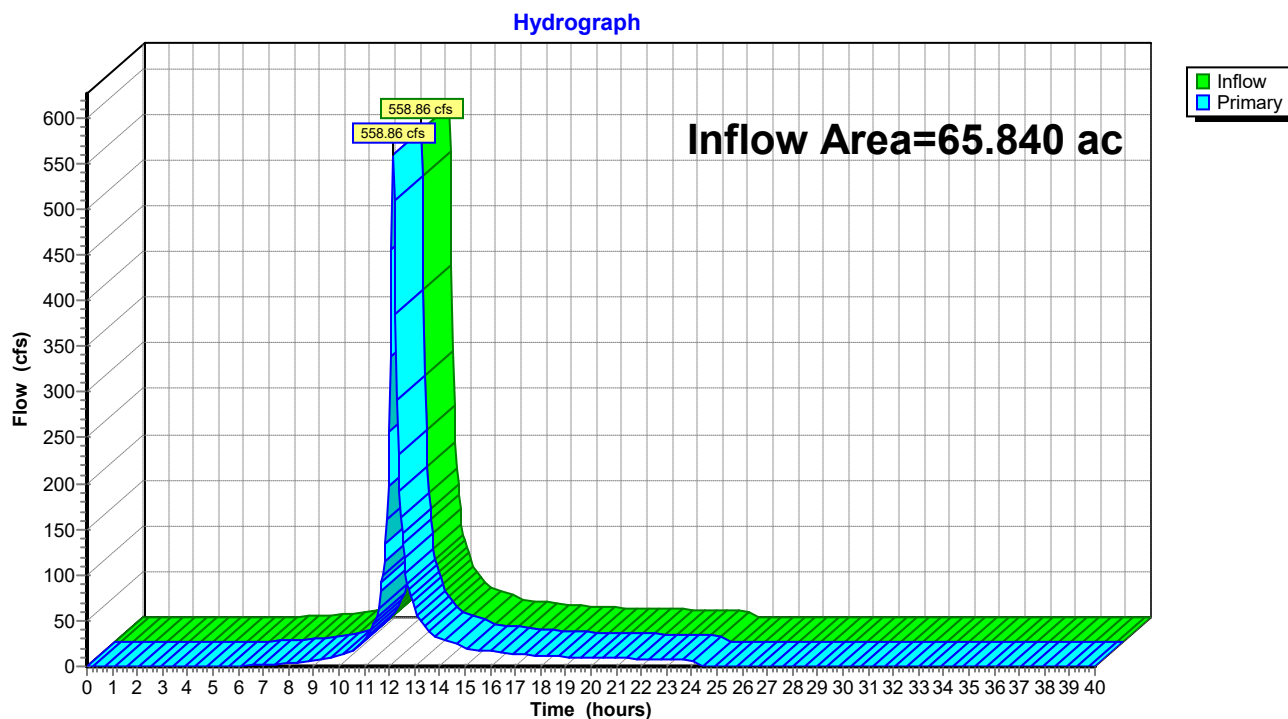
Hydrograph



Summary for Link DP-3: Design Pont #3 (Woolsey Creek)

Inflow Area = 65.840 ac, 1.15% Impervious, Inflow Depth = 7.47" for Future 100 yr event
Inflow = 558.86 cfs @ 12.16 hrs, Volume= 41.007 af
Primary = 558.86 cfs @ 12.16 hrs, Volume= 41.007 af, Atten= 0%, Lag= 0.0 min

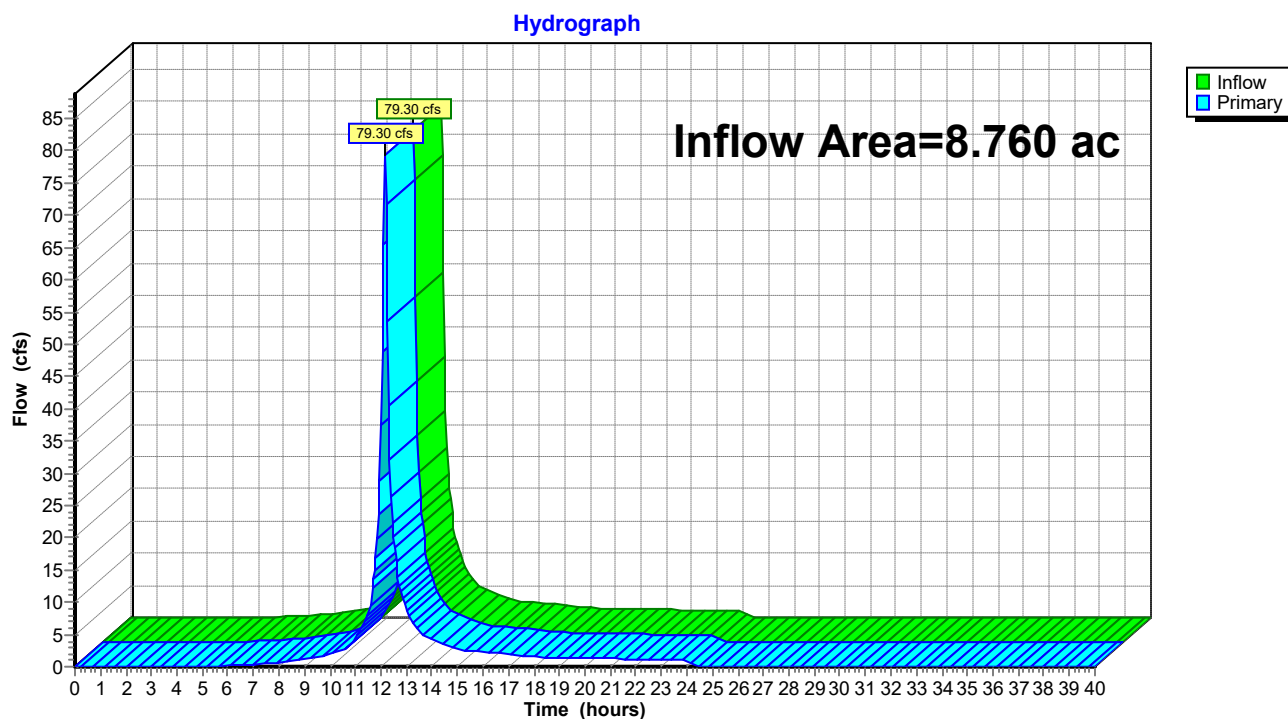
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link DP-3: Design Pont #3 (Woolsey Creek)

Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 8.03" for Future 100 yr event
Inflow = 79.30 cfs @ 12.16 hrs, Volume= 5.862 af
Primary = 79.30 cfs @ 12.16 hrs, Volume= 5.862 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

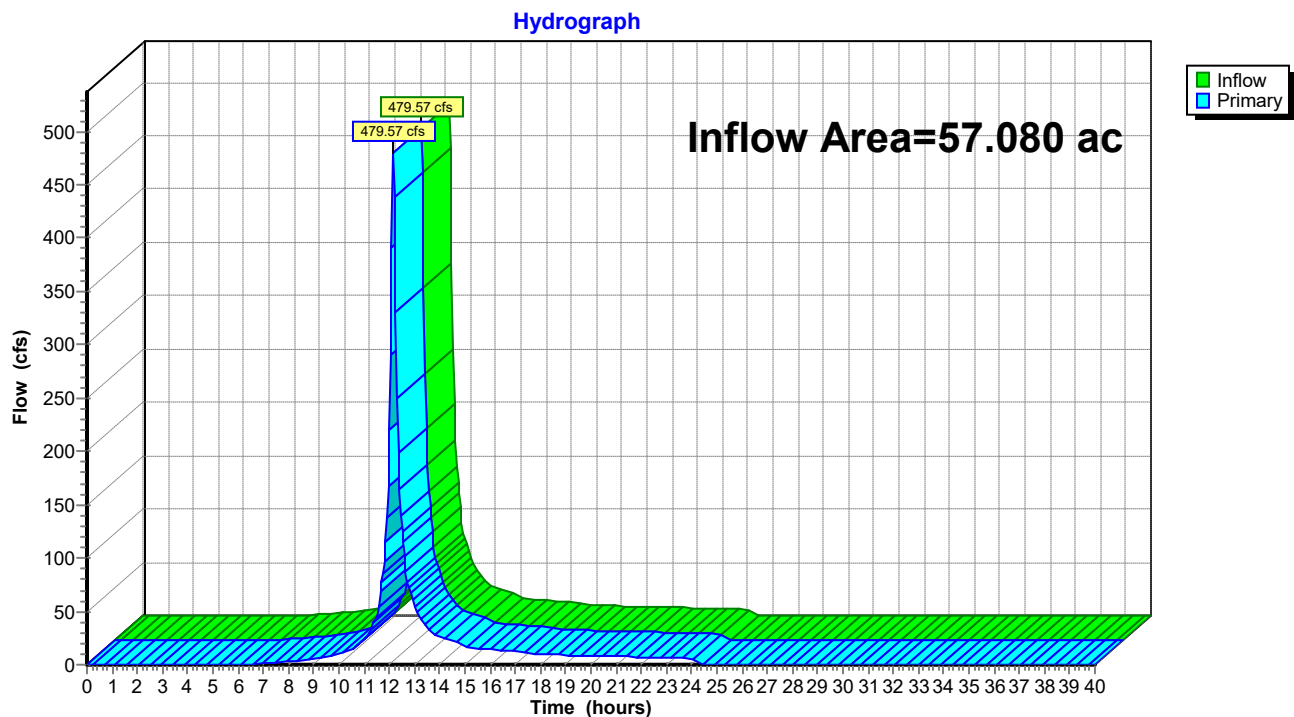
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-5: Existing Drainage Area #5

Summary for Link XDA-6: Existing Drainage Area #6

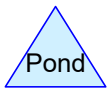
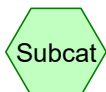
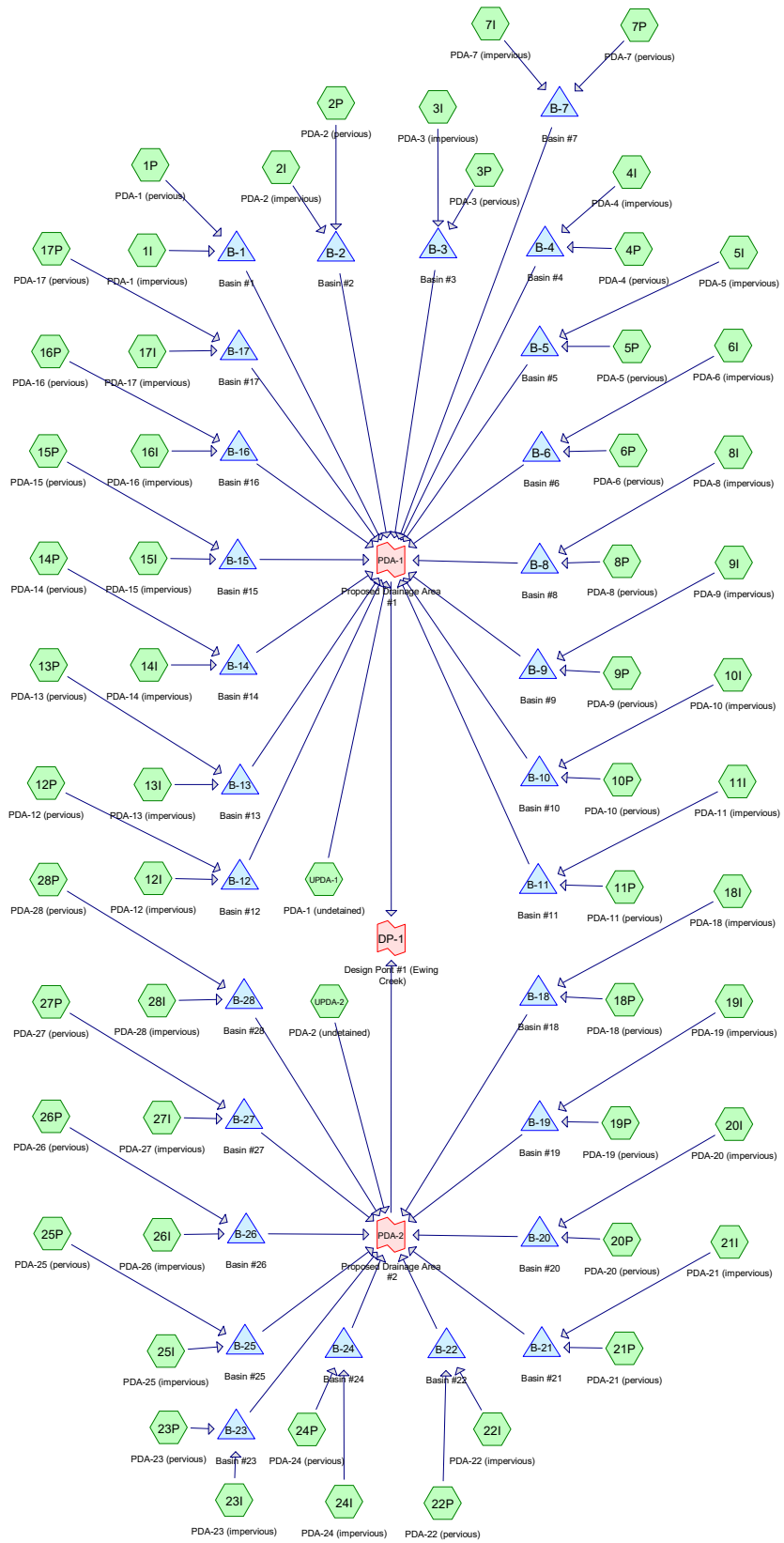
Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 7.39" for Future 100 yr event
Inflow = 479.57 cfs @ 12.16 hrs, Volume= 35.146 af
Primary = 479.57 cfs @ 12.16 hrs, Volume= 35.146 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-3 : Design Pont #3 (Woolsey Creek)

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-6: Existing Drainage Area #6

APPENDIX 3

TR-55 CALCULATIONS – PROPOSED CONDITIONS



Routing Diagram for 2024-06-25 Proposed- 081391
Prepared by Bowman Consulting Group, Printed 6/25/2024
HydroCAD® 10.20-3c s/n 09435 © 2023 HydroCAD Software Solutions LLC

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
99.611	74	>75% Grass cover, Good, HSG C (1P, 2P, 3P, 4P, 5P, 6P, 7P, 8P, 9P, 10P, 11P, 12P, 13P, 14P, 15P, 16P, 17P, 18P, 19P, 20P, 21P, 22P, 23P, 24P, 25P, 26P, 27P, 28P, UPDA-1, UPDA-2)
0.403	98	Concrete, HSC C (20I, 21I, 22I, 24I, 25I, 26I, 27I, 28I)
2.269	98	Concrete, HSG C (1I, 2I, 3I, 4I, 5I, 6I, 7I, 8I, 9I, 10I, 11I, 12I, 13I, 14I, 15I, 16I, 18I, 19I, 23I)
12.651	98	Pavement, HSG C (1I, 2I, 3I, 4I, 5I, 6I, 7I, 8I, 9I, 10I, 12I, 13I, 14I, 15I, 16I, 18I, 19I, 20I, 21I, 22I, 23I, 24I, 25I, 26I, 27I, 28I)
11.527	98	Roof, HSG C (2I, 6I, 8I, 9I, 10I, 12I, 13I, 14I, 15I, 16I, 17I, 18I, 19I, 20I, 21I, 22I, 24I, 25I, 26I, 27I, 28I)

Summary for Subcatchment 1I: PDA-1 (impervious)

Runoff = 0.31 cfs @ 1.15 hrs, Volume= 0.010 af, Depth= 1.03"
 Routed to Pond B-1 : Basin #1

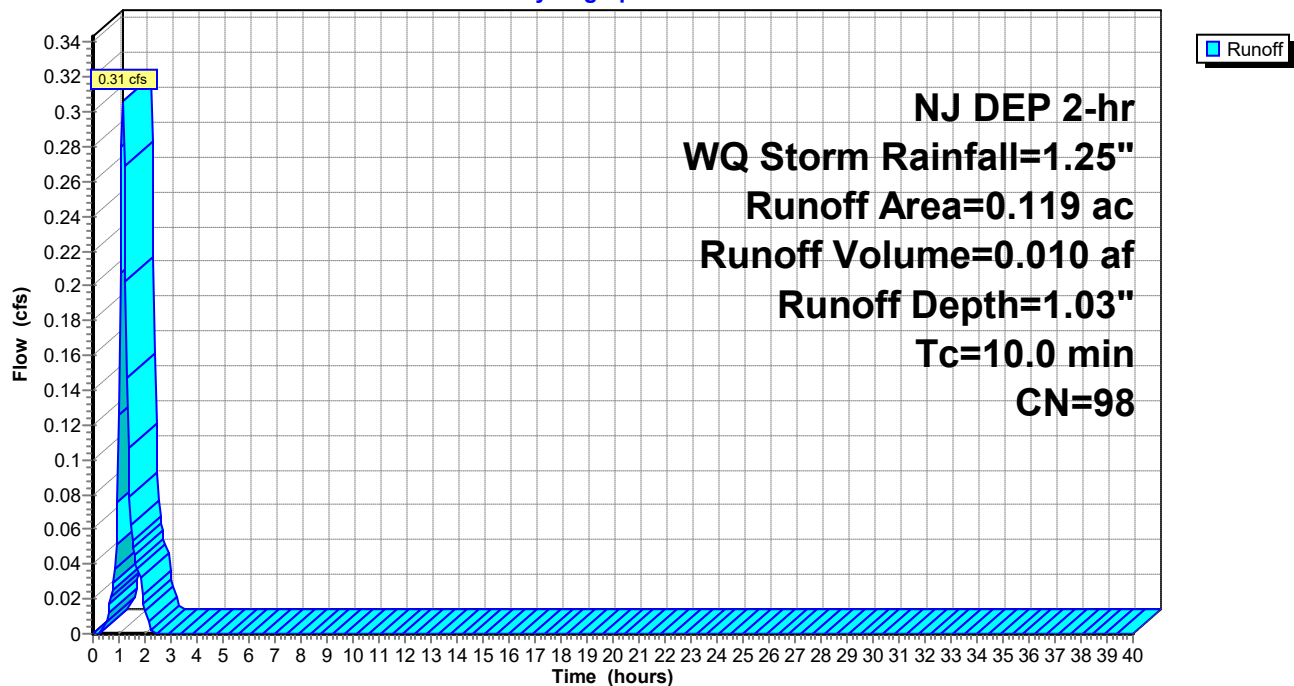
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.115	98	Pavement, HSG C
* 0.004	98	Concrete, HSG C
0.119	98	Weighted Average
0.119		100.00% Impervious Area

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

Subcatchment 1I: PDA-1 (impervious)

Hydrograph



Summary for Subcatchment 1P: PDA-1 (pervious)

Runoff = 0.31 cfs @ 1.27 hrs, Volume= 0.015 af, Depth= 0.07"
 Routed to Pond B-1 : Basin #1

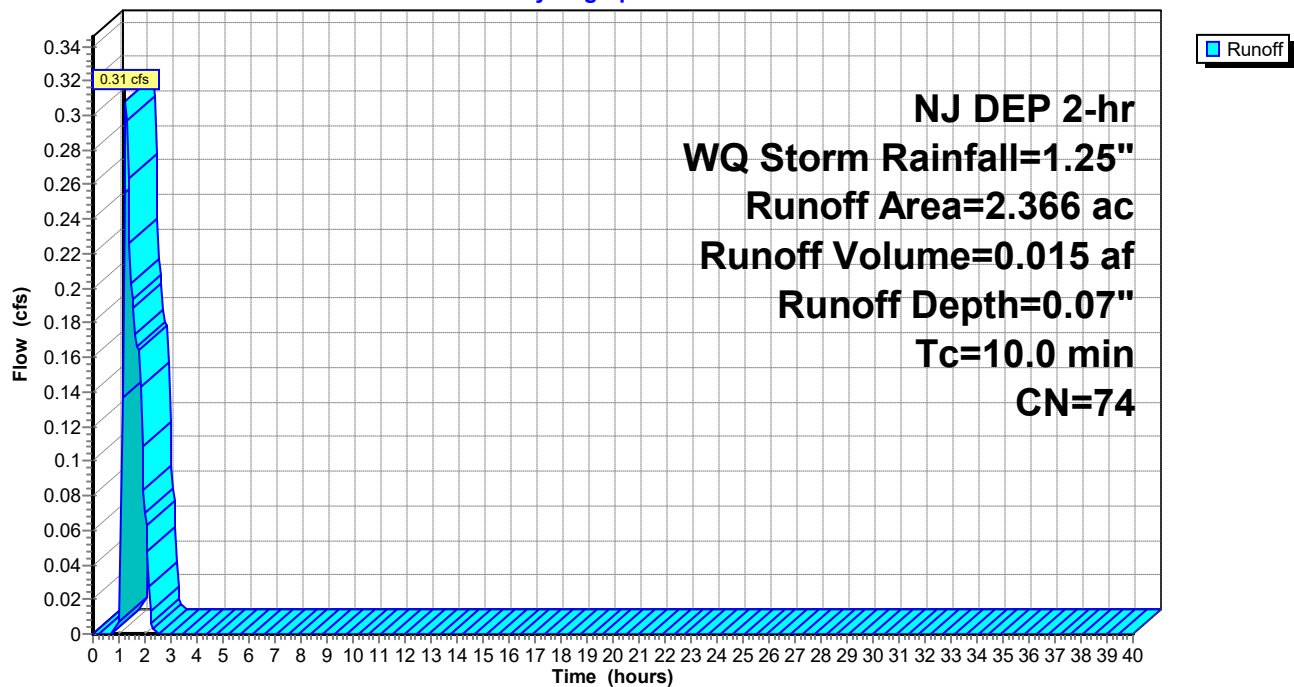
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
2.366	74	>75% Grass cover, Good, HSG C
2.366		100.00% Pervious Area

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

Subcatchment 1P: PDA-1 (pervious)

Hydrograph



Summary for Subcatchment 2I: PDA-2 (impervious)

Runoff = 2.09 cfs @ 1.15 hrs, Volume= 0.070 af, Depth= 1.03"
 Routed to Pond B-2 : Basin #2

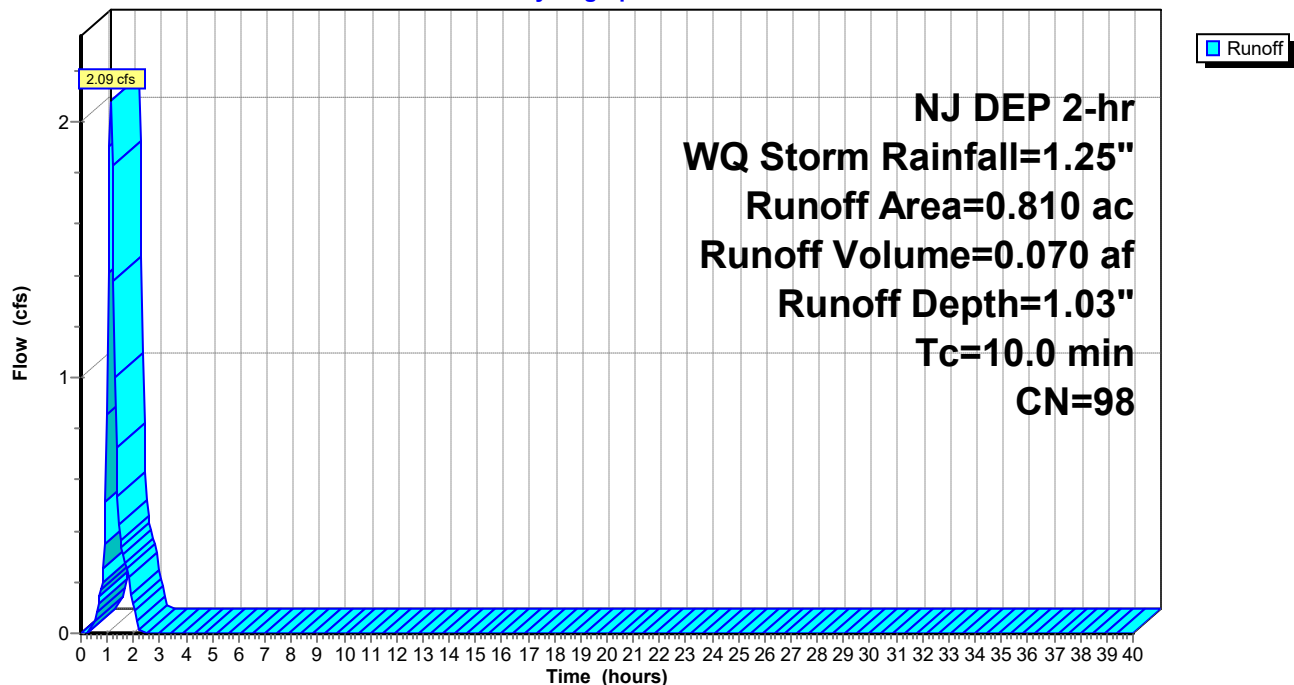
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.490	98	Roof, HSG C
* 0.269	98	Pavement, HSG C
* 0.051	98	Concrete, HSG C
0.810	98	Weighted Average
0.810		100.00% Impervious Area

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

Subcatchment 2I: PDA-2 (impervious)

Hydrograph



Summary for Subcatchment 2P: PDA-2 (pervious)

Runoff = 0.14 cfs @ 1.27 hrs, Volume= 0.006 af, Depth= 0.07"
Routed to Pond B-2 : Basin #2

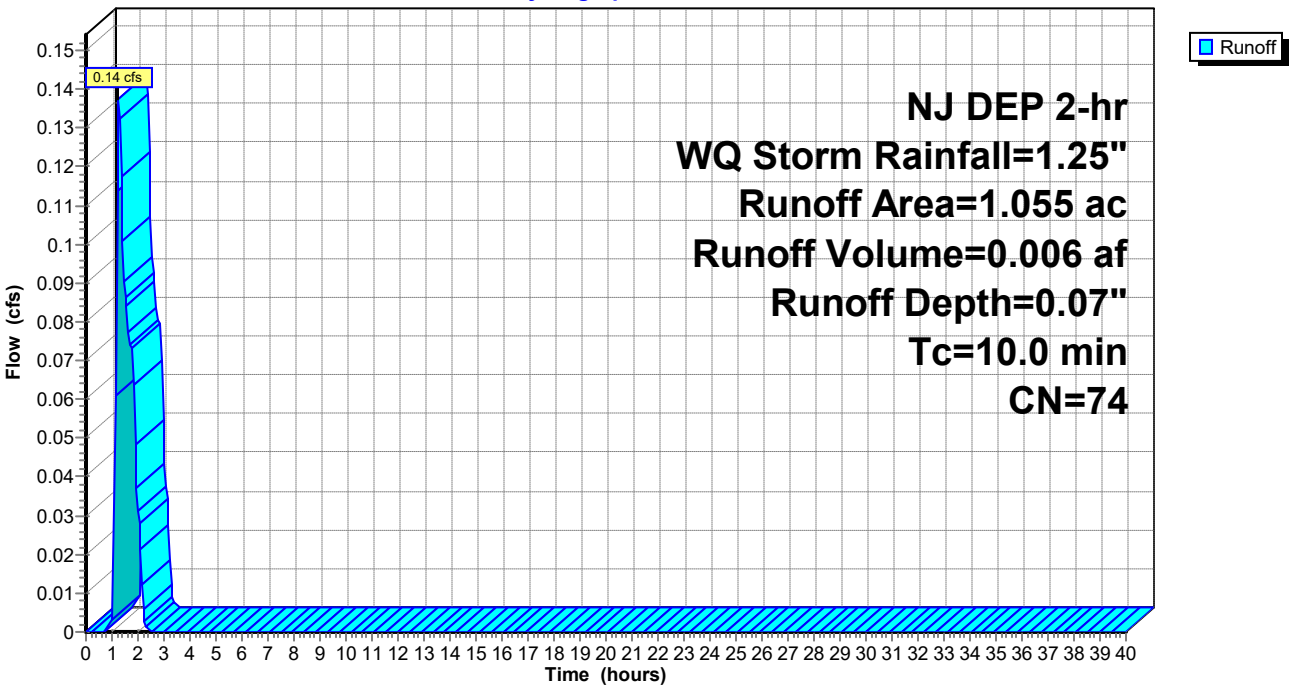
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.055	74	>75% Grass cover, Good, HSG C
1.055		100.00% Pervious Area

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

Subcatchment 2P: PDA-2 (pervious)

Hydrograph



Summary for Subcatchment 3I: PDA-3 (impervious)

Runoff = 3.20 cfs @ 1.15 hrs, Volume= 0.107 af, Depth= 1.03"
 Routed to Pond B-3 : Basin #3

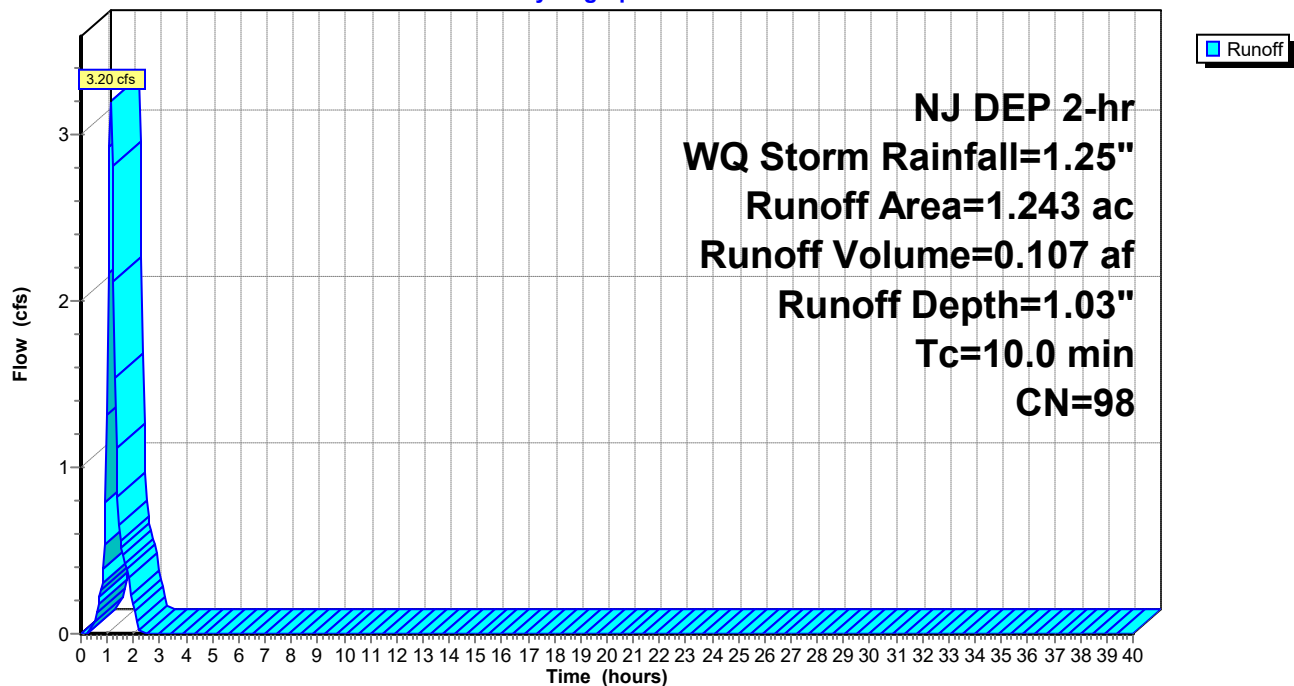
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 1.162	98	Pavement, HSG C
* 0.081	98	Concrete, HSG C
1.243	98	Weighted Average
1.243		100.00% Impervious Area

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

Subcatchment 3I: PDA-3 (impervious)

Hydrograph



Summary for Subcatchment 3P: PDA-3 (pervious)

Runoff = 0.22 cfs @ 1.27 hrs, Volume= 0.010 af, Depth= 0.07"
Routed to Pond B-3 : Basin #3

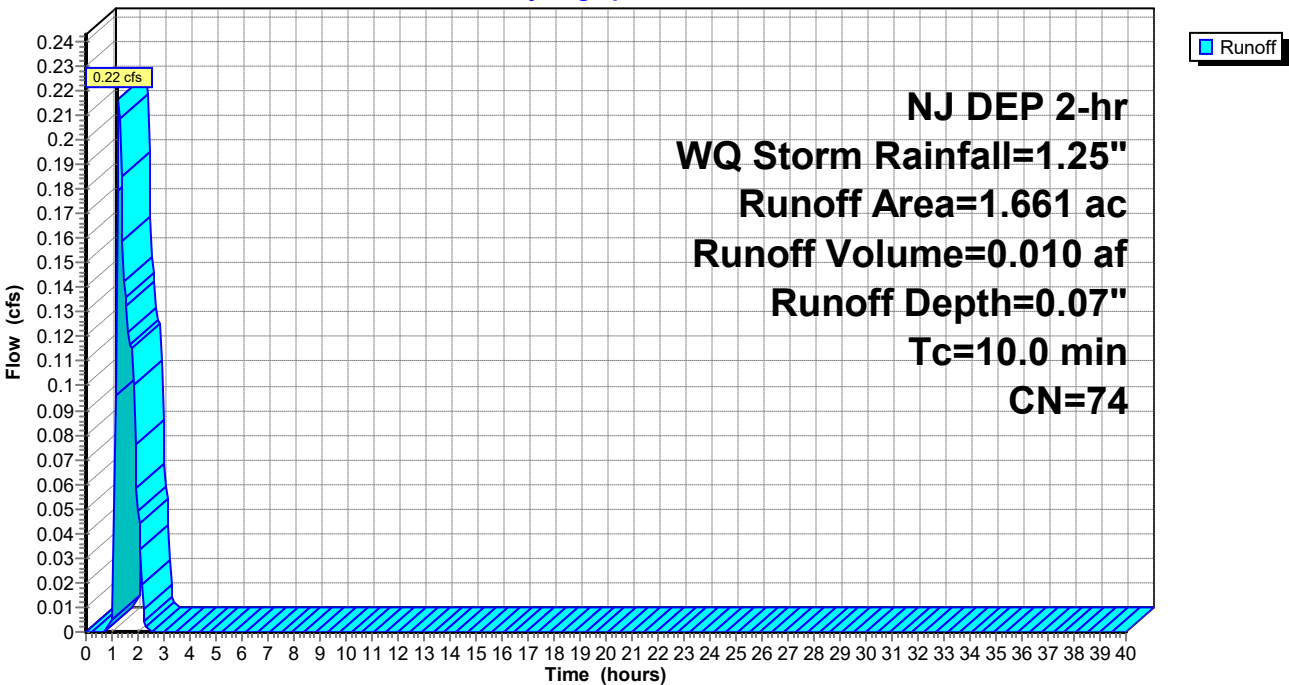
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.661	74	>75% Grass cover, Good, HSG C
1.661		100.00% Pervious Area

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

Subcatchment 3P: PDA-3 (pervious)

Hydrograph



Summary for Subcatchment 4I: PDA-4 (impervious)

Runoff = 1.75 cfs @ 1.15 hrs, Volume= 0.059 af, Depth= 1.03"
 Routed to Pond B-4 : Basin #4

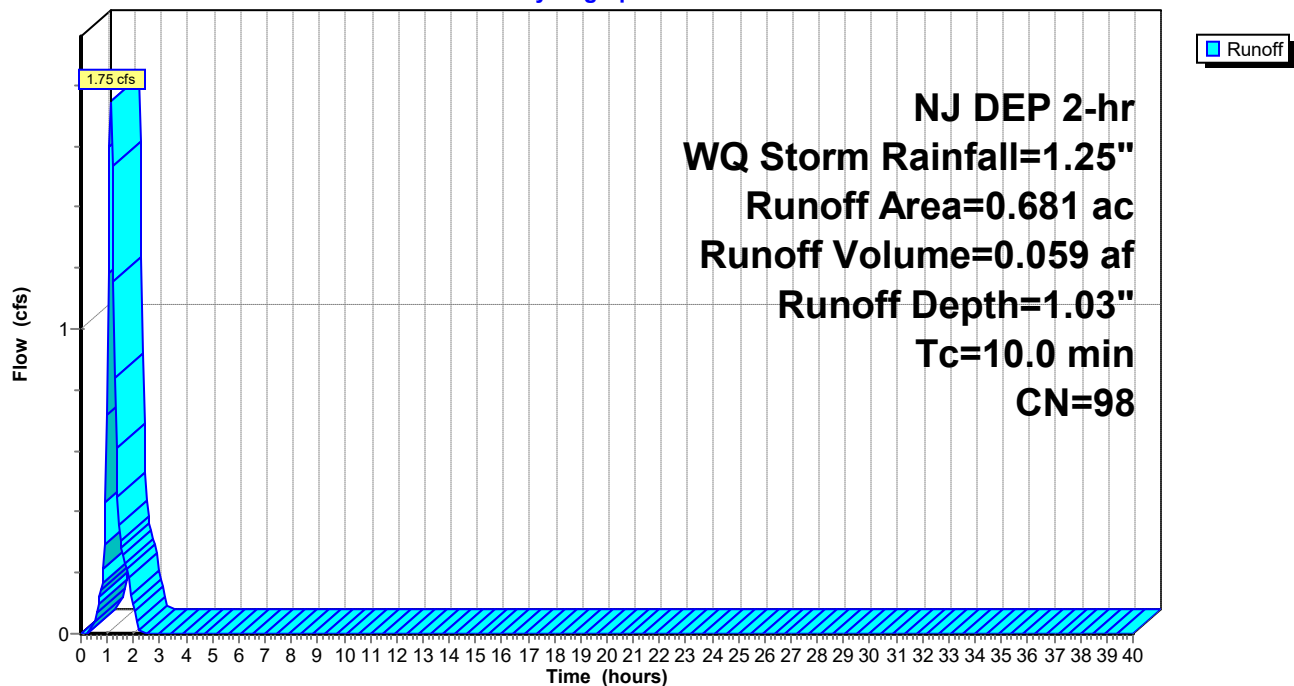
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.433	98	Pavement, HSG C
* 0.248	98	Concrete, HSG C
0.681	98	Weighted Average
0.681		100.00% Impervious Area

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

Subcatchment 4I: PDA-4 (impervious)

Hydrograph



Summary for Subcatchment 4P: PDA-4 (pervious)

Runoff = 0.27 cfs @ 1.27 hrs, Volume= 0.013 af, Depth= 0.07"
 Routed to Pond B-4 : Basin #4

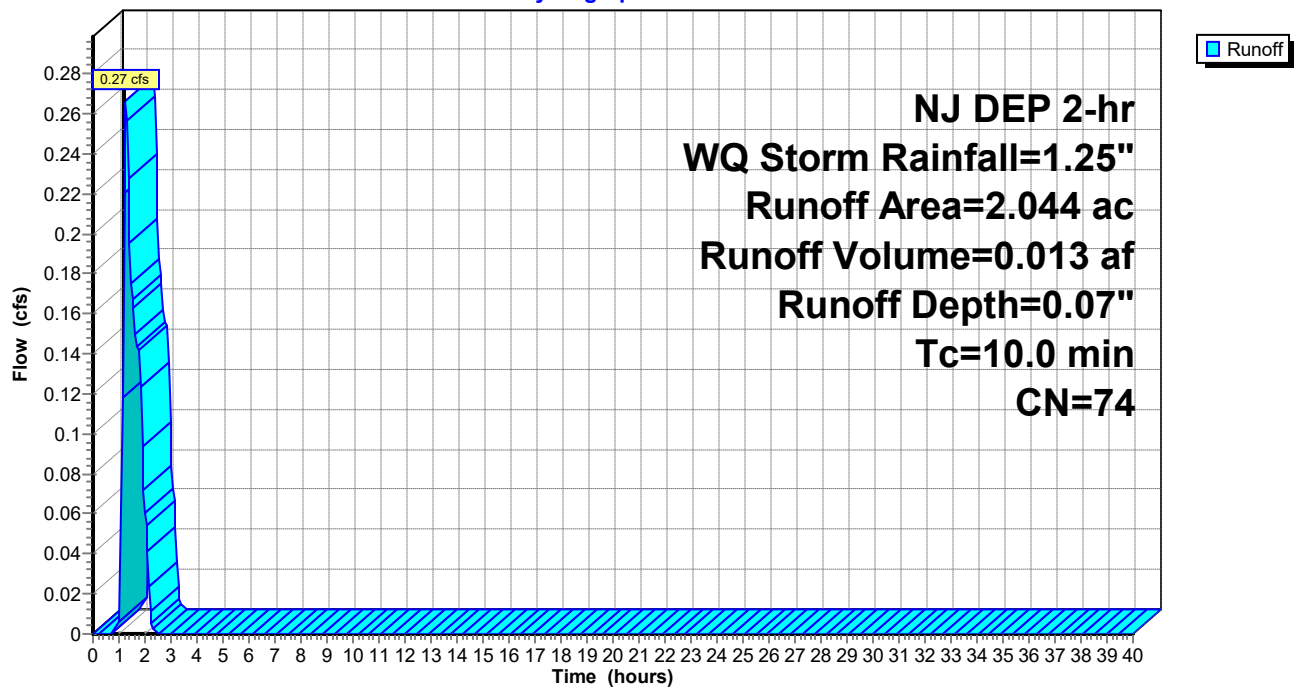
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
2.044	74	>75% Grass cover, Good, HSG C
2.044		100.00% Pervious Area

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

Subcatchment 4P: PDA-4 (pervious)

Hydrograph



Summary for Subcatchment 5I: PDA-5 (impervious)

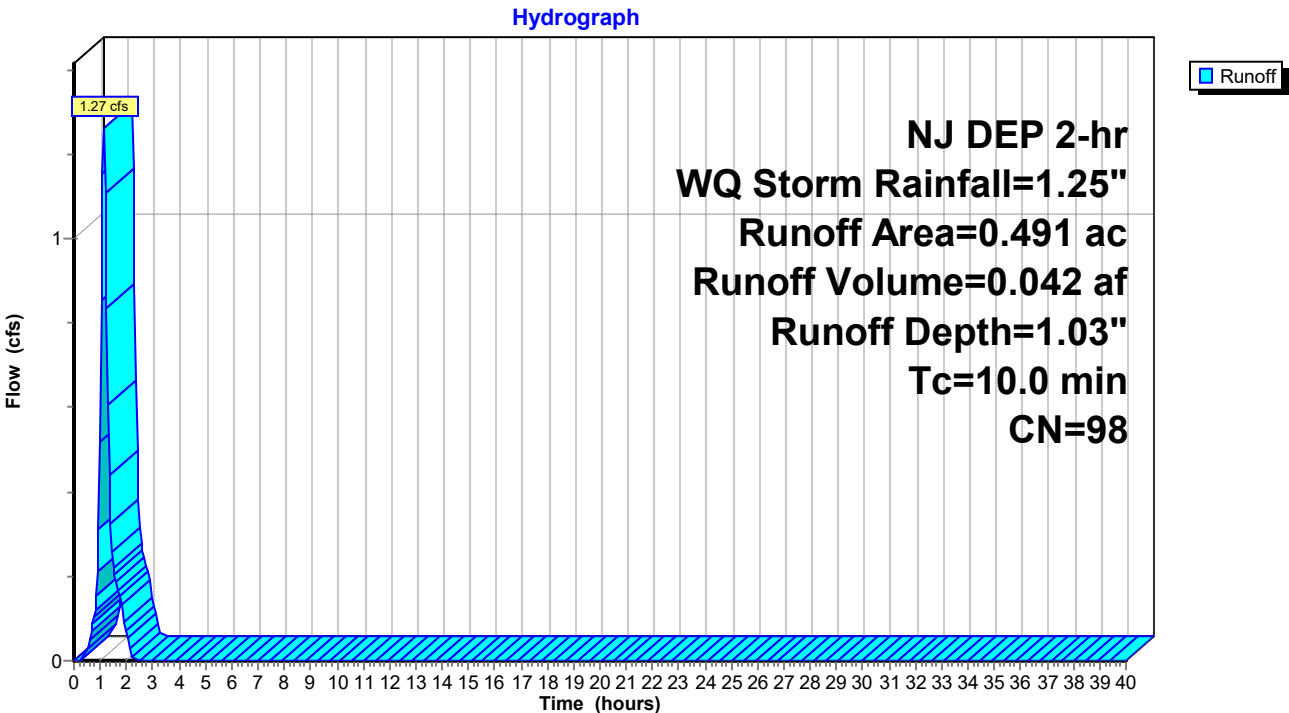
Runoff = 1.27 cfs @ 1.15 hrs, Volume= 0.042 af, Depth= 1.03"
Routed to Pond B-5 : Basin #5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.393	98	Pavement, HSG C
* 0.098	98	Concrete, HSG C
0.491	98	Weighted Average
0.491		100.00% Impervious Area

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

Subcatchment 5I: PDA-5 (impervious)



Summary for Subcatchment 5P: PDA-5 (pervious)

Runoff = 0.12 cfs @ 1.27 hrs, Volume= 0.006 af, Depth= 0.07"
 Routed to Pond B-5 : Basin #5

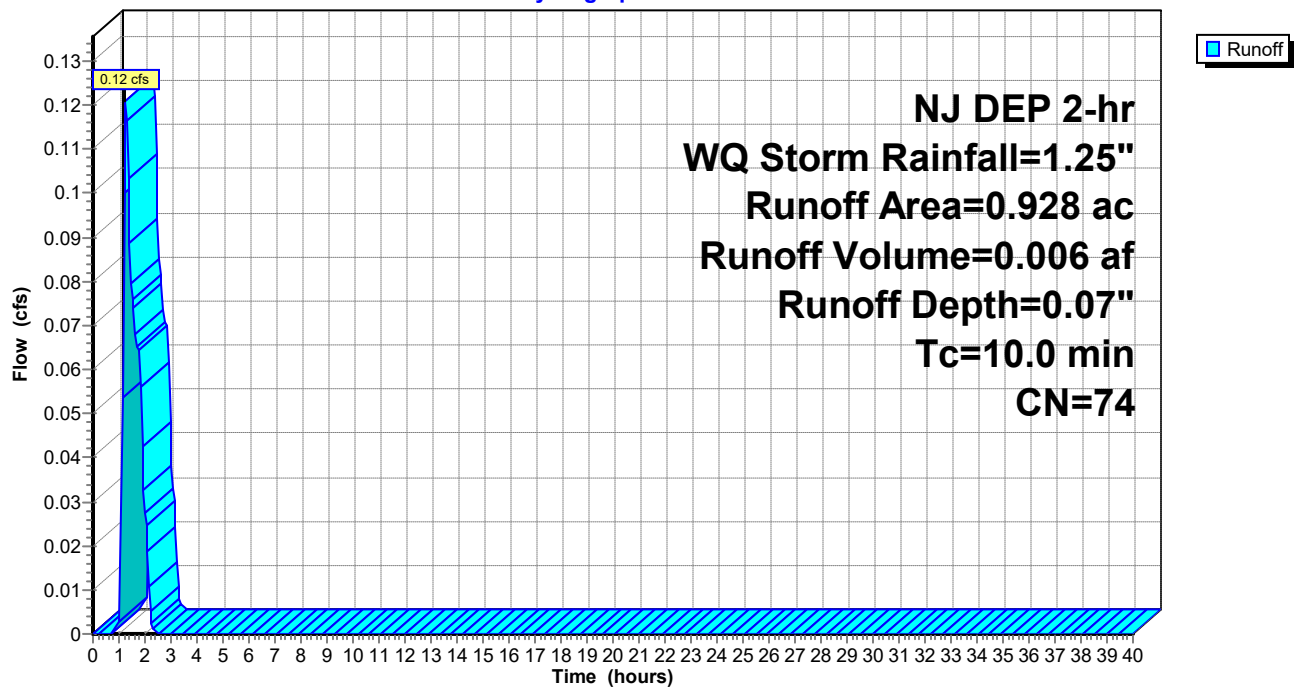
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
0.928	74	>75% Grass cover, Good, HSG C
0.928		100.00% Pervious Area

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

Subcatchment 5P: PDA-5 (pervious)

Hydrograph



Summary for Subcatchment 6I: PDA-6 (impervious)

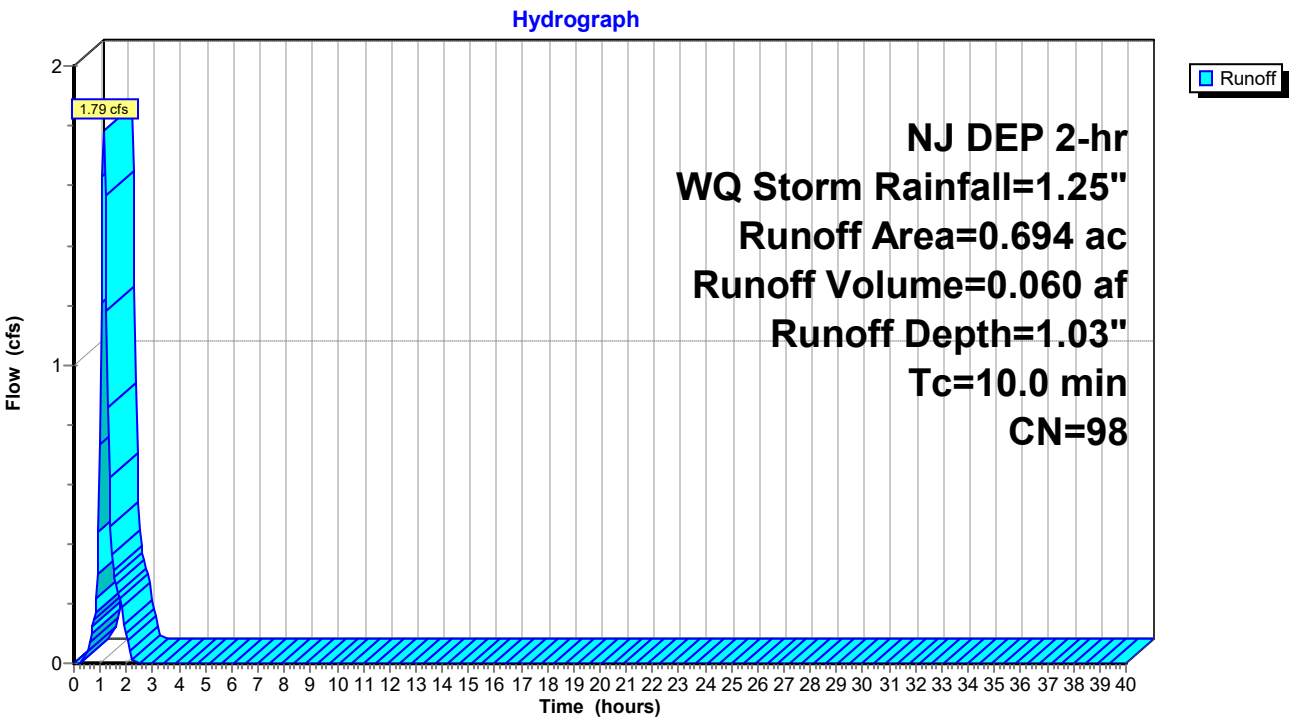
Runoff = 1.79 cfs @ 1.15 hrs, Volume= 0.060 af, Depth= 1.03"
Routed to Pond B-6 : Basin #6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.459	98	Pavement, HSG C
* 0.129	98	Roof, HSG C
* 0.106	98	Concrete, HSG C
0.694	98	Weighted Average
0.694		100.00% Impervious Area

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

Subcatchment 6I: PDA-6 (impervious)



Summary for Subcatchment 6P: PDA-6 (pervious)

Runoff = 0.06 cfs @ 1.27 hrs, Volume= 0.003 af, Depth= 0.07"
Routed to Pond B-6 : Basin #6

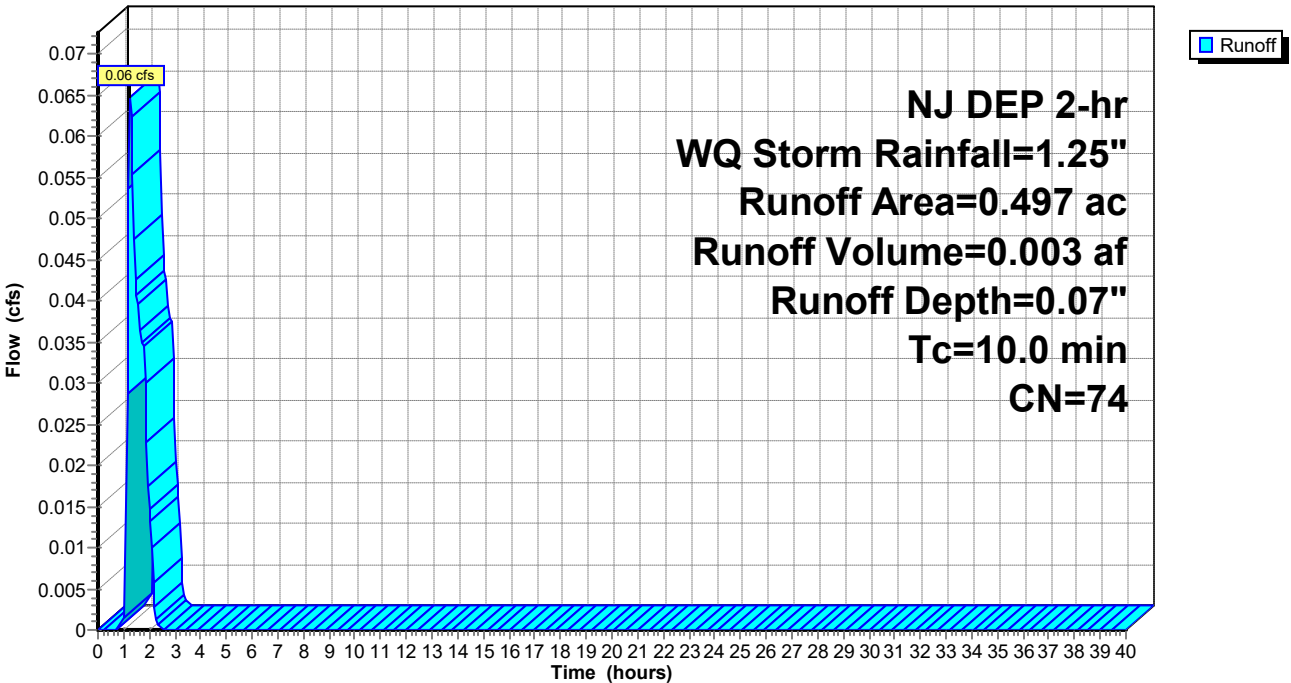
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
0.497	74	>75% Grass cover, Good, HSG C
0.497		100.00% Pervious Area

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

Subcatchment 6P: PDA-6 (pervious)

Hydrograph



Summary for Subcatchment 7I: PDA-7 (impervious)

Runoff = 2.53 cfs @ 1.15 hrs, Volume= 0.085 af, Depth= 1.03"
 Routed to Pond B-7 : Basin #7

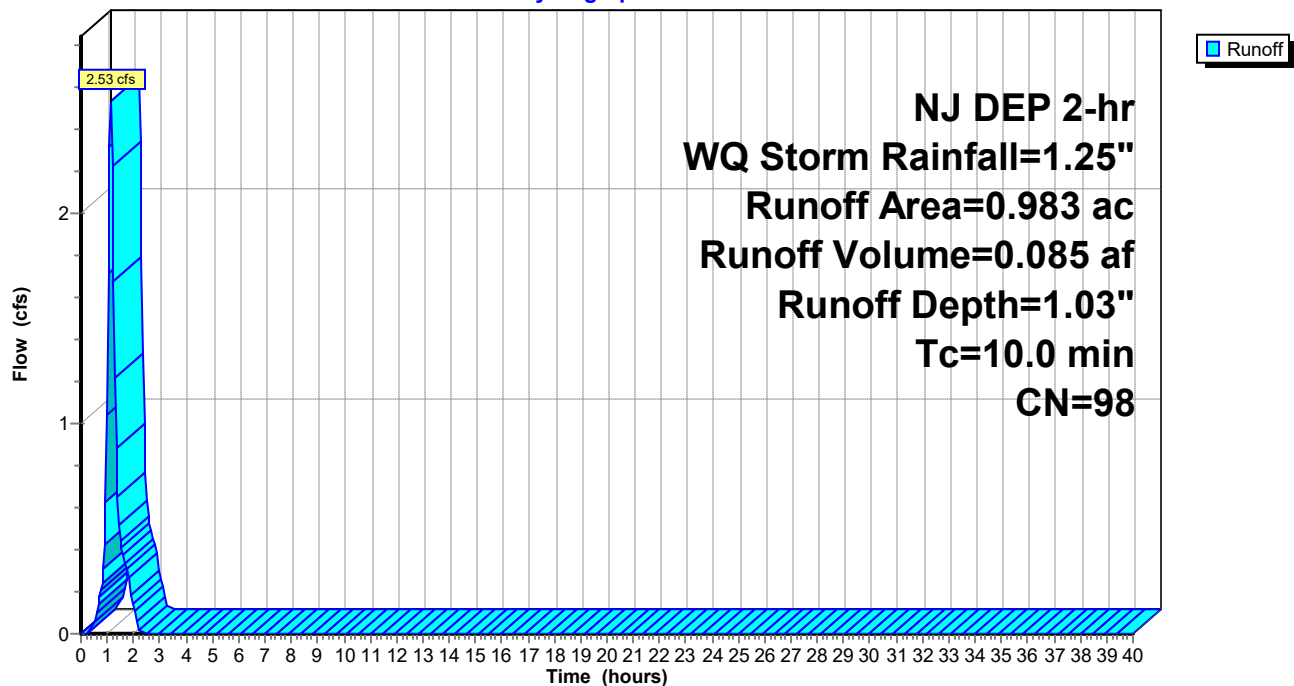
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.886	98	Pavement, HSG C
* 0.097	98	Concrete, HSG C
0.983	98	Weighted Average
0.983		100.00% Impervious Area

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

Subcatchment 7I: PDA-7 (impervious)

Hydrograph



Summary for Subcatchment 7P: PDA-7 (pervious)

Runoff = 0.08 cfs @ 1.27 hrs, Volume= 0.004 af, Depth= 0.07"
Routed to Pond B-7 : Basin #7

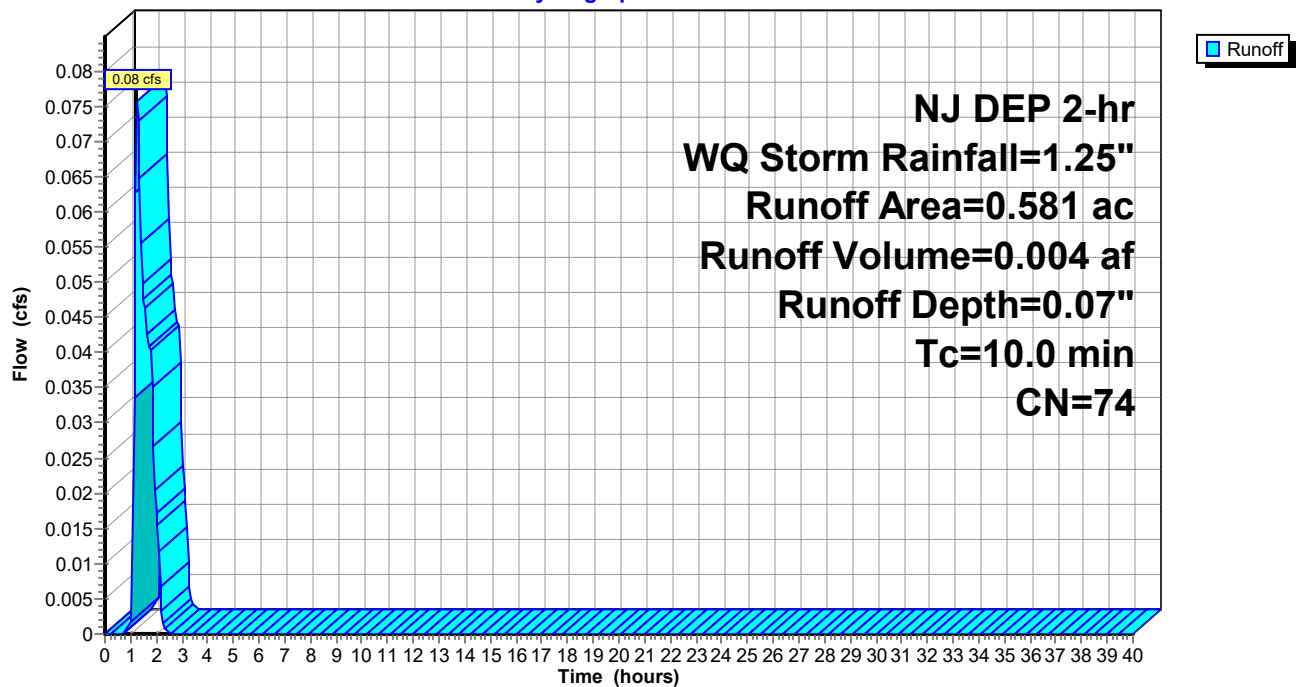
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
0.581	74	>75% Grass cover, Good, HSG C
0.581		100.00% Pervious Area

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

Subcatchment 7P: PDA-7 (pervious)

Hydrograph



Summary for Subcatchment 8I: PDA-8 (impervious)

Runoff = 2.44 cfs @ 1.15 hrs, Volume= 0.082 af, Depth= 1.03"
 Routed to Pond B-8 : Basin #8

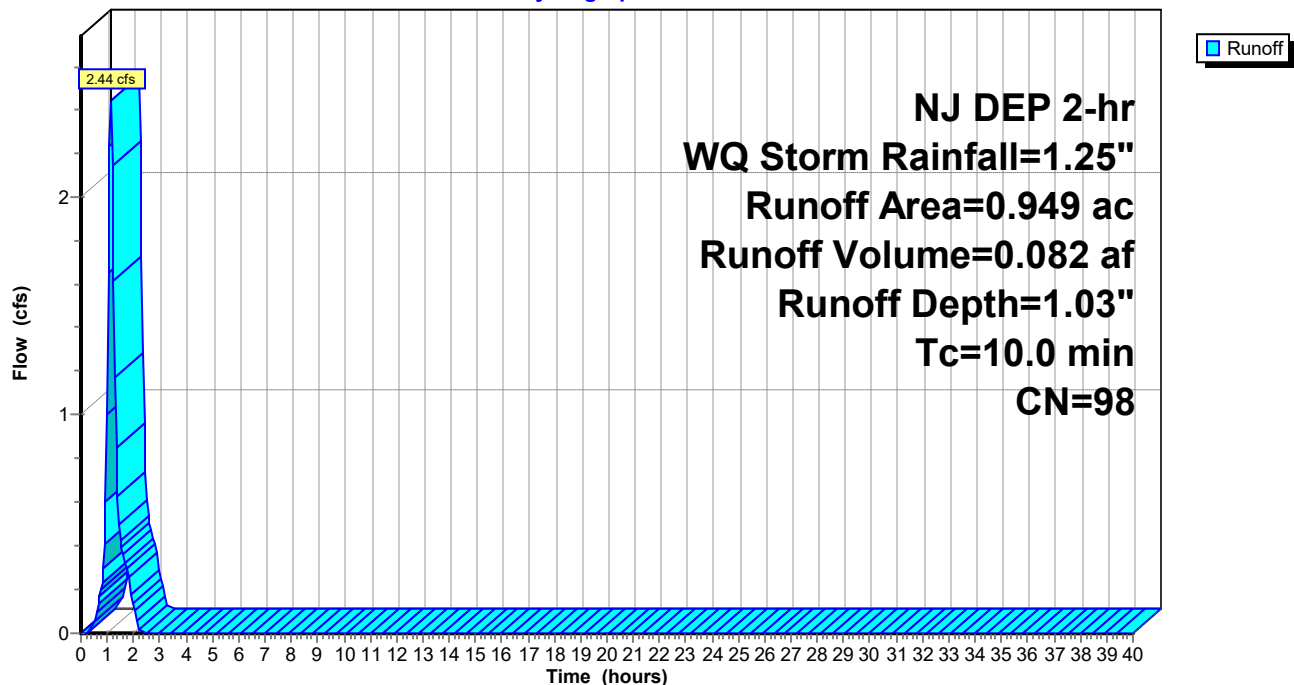
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.300	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.006	98	Concrete, HSG C
0.949	98	Weighted Average
0.949		100.00% Impervious Area

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

Subcatchment 8I: PDA-8 (impervious)

Hydrograph



Summary for Subcatchment 8P: PDA-8 (pervious)

Runoff = 0.21 cfs @ 1.27 hrs, Volume= 0.010 af, Depth= 0.07"
 Routed to Pond B-8 : Basin #8

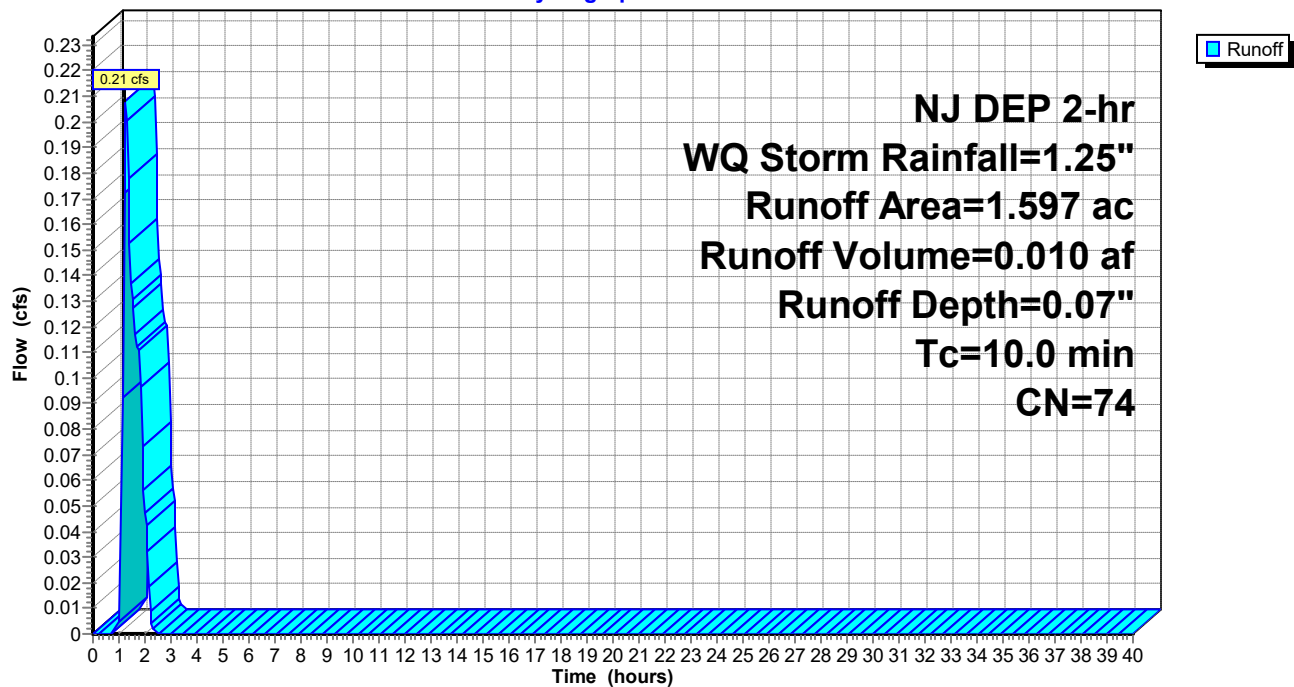
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.597	74	>75% Grass cover, Good, HSG C
1.597		100.00% Pervious Area

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

Subcatchment 8P: PDA-8 (pervious)

Hydrograph



Summary for Subcatchment 9I: PDA-9 (impervious)

Runoff = 2.04 cfs @ 1.15 hrs, Volume= 0.068 af, Depth= 1.03"
 Routed to Pond B-9 : Basin #9

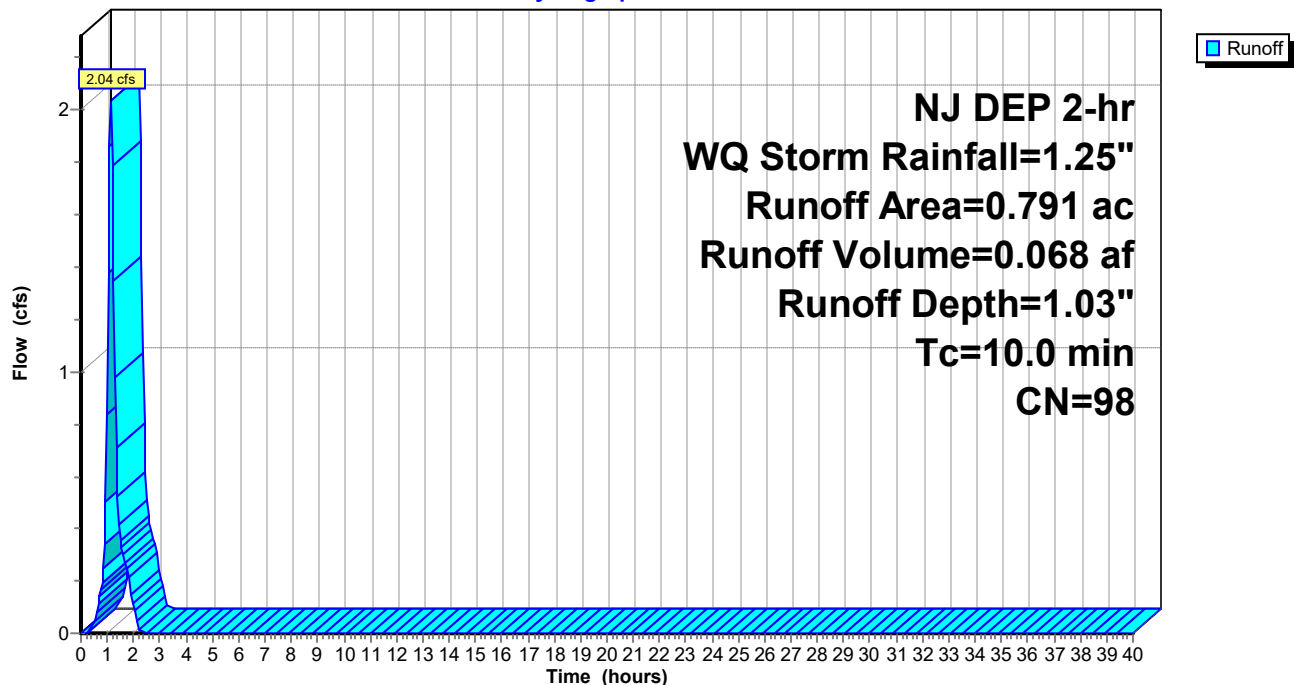
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.286	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.055	98	Concrete, HSG C
0.791	98	Weighted Average
0.791		100.00% Impervious Area

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

Subcatchment 9I: PDA-9 (impervious)

Hydrograph



Summary for Subcatchment 9P: PDA-9 (pervious)

Runoff = 0.09 cfs @ 1.27 hrs, Volume= 0.004 af, Depth= 0.07"
 Routed to Pond B-9 : Basin #9

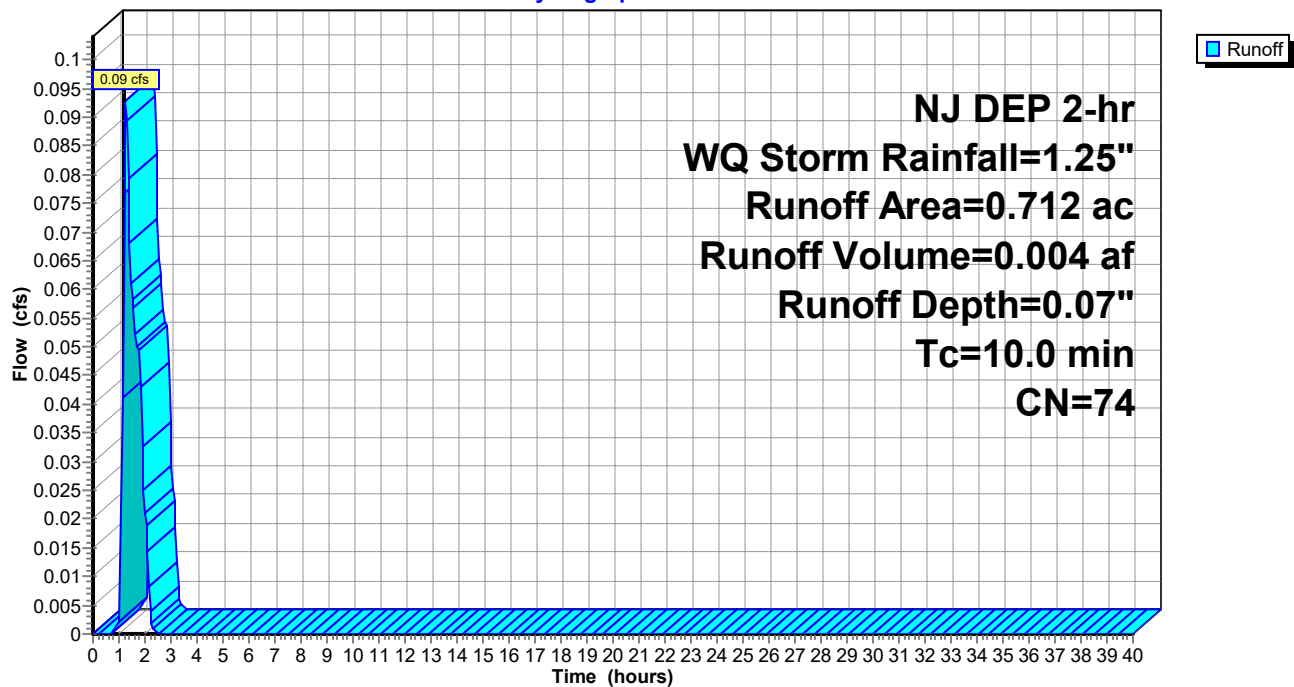
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
0.712	74	>75% Grass cover, Good, HSG C
0.712		100.00% Pervious Area

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

Subcatchment 9P: PDA-9 (pervious)

Hydrograph



Summary for Subcatchment 10I: PDA-10 (impervious)

Runoff = 2.44 cfs @ 1.15 hrs, Volume= 0.082 af, Depth= 1.03"
 Routed to Pond B-10 : Basin #10

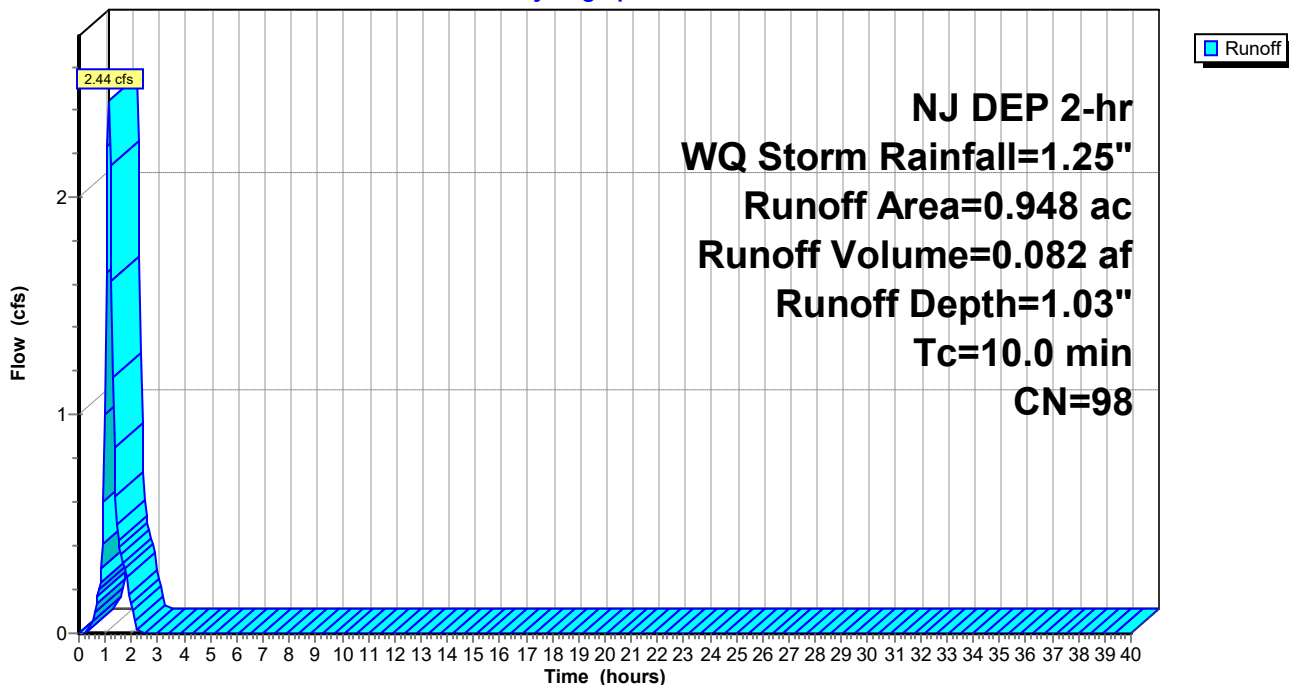
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.570	98	Pavement, HSG C
* 0.321	98	Roof, HSG C
* 0.057	98	Concrete, HSG C
0.948	98	Weighted Average
0.948		100.00% Impervious Area

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

Subcatchment 10I: PDA-10 (impervious)

Hydrograph



Summary for Subcatchment 10P: PDA-10 (pervious)

Runoff = 0.09 cfs @ 1.27 hrs, Volume= 0.004 af, Depth= 0.07"
 Routed to Pond B-10 : Basin #10

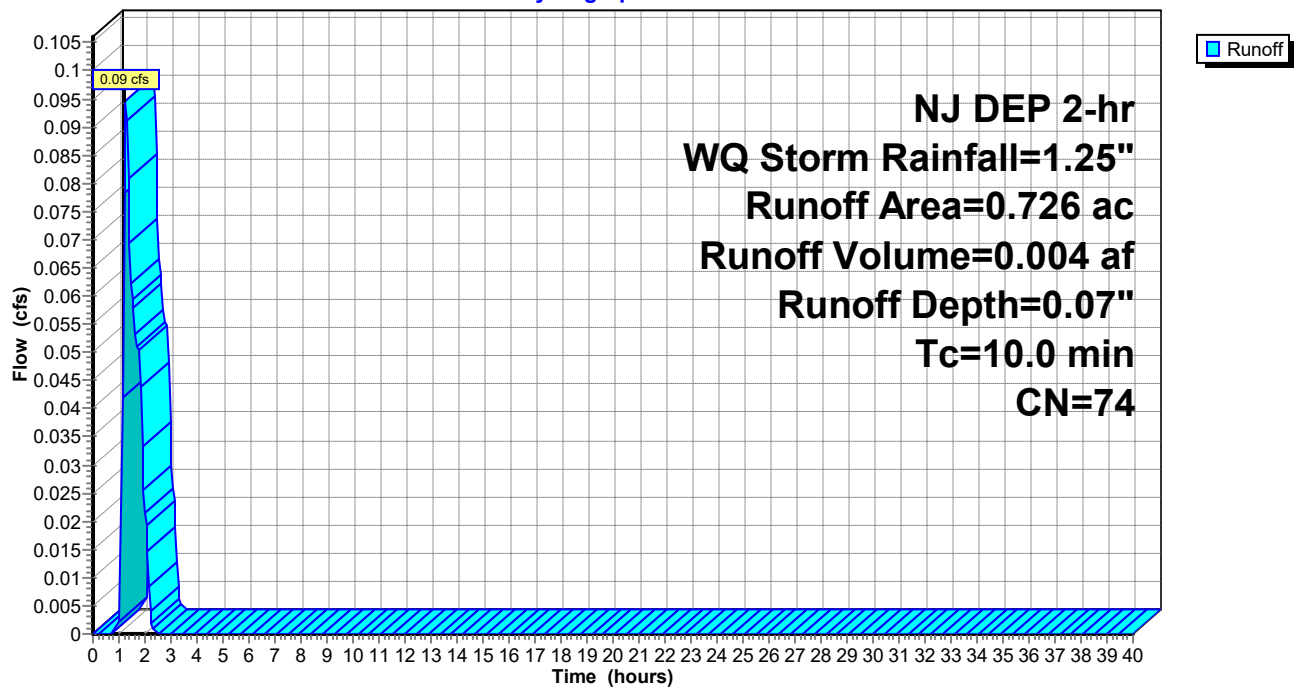
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
0.726	74	>75% Grass cover, Good, HSG C
0.726		100.00% Pervious Area

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

Subcatchment 10P: PDA-10 (pervious)

Hydrograph



Summary for Subcatchment 11I: PDA-11 (impervious)

Runoff = 2.40 cfs @ 1.15 hrs, Volume= 0.080 af, Depth= 1.03"
 Routed to Pond B-11 : Basin #11

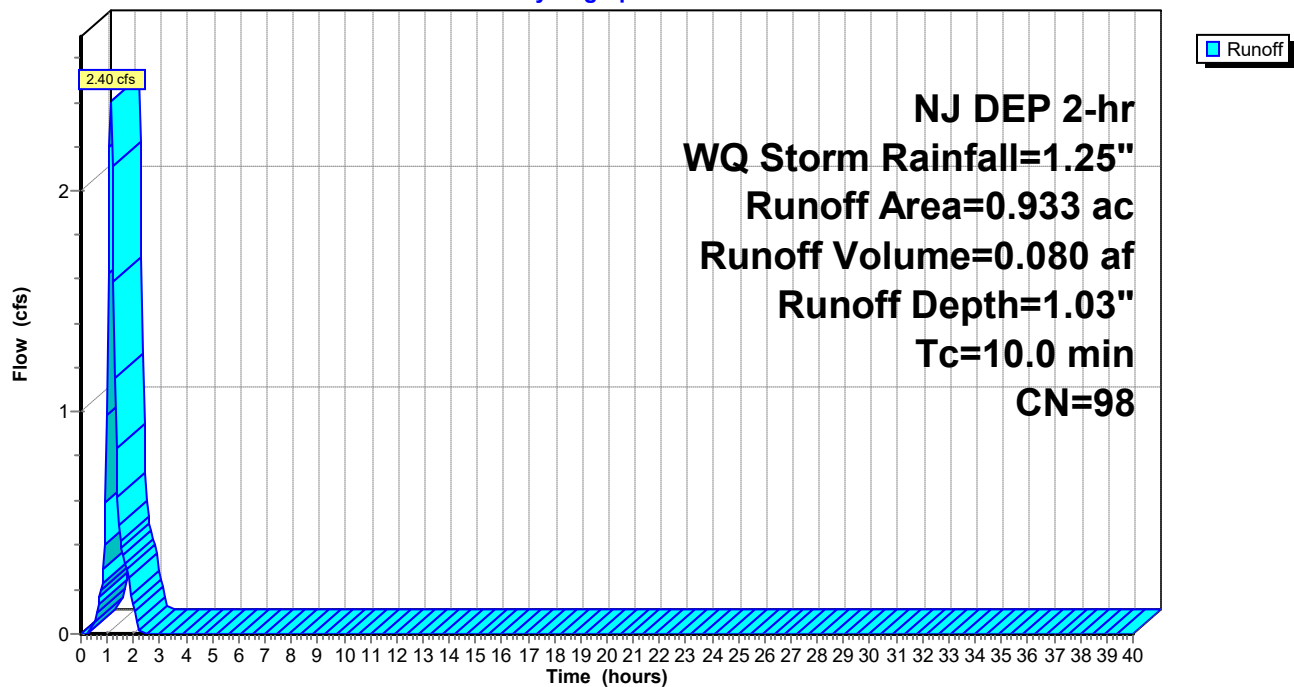
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.933	98	Concrete, HSG C
0.933		100.00% Impervious Area

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

Subcatchment 11I: PDA-11 (impervious)

Hydrograph



Summary for Subcatchment 11P: PDA-11 (pervious)

Runoff = 0.23 cfs @ 1.27 hrs, Volume= 0.011 af, Depth= 0.07"
 Routed to Pond B-11 : Basin #11

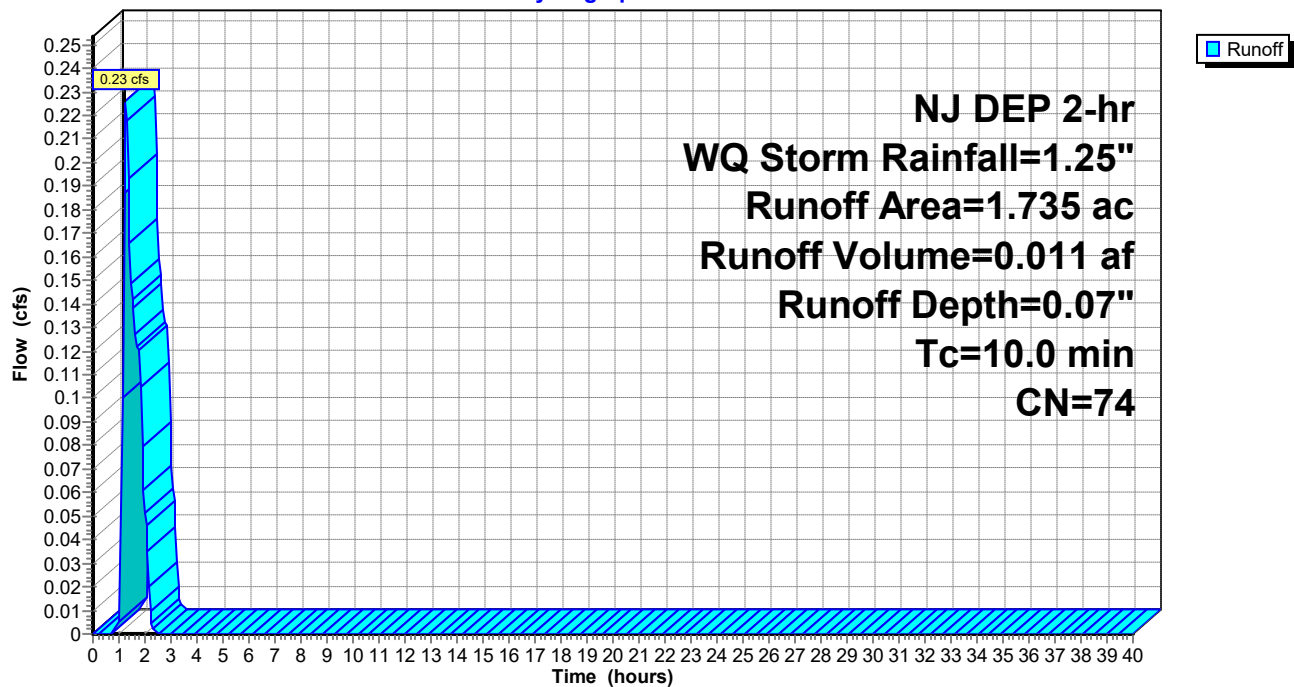
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.735	74	>75% Grass cover, Good, HSG C
1.735		100.00% Pervious Area

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

Subcatchment 11P: PDA-11 (pervious)

Hydrograph



Summary for Subcatchment 12I: PDA-12 (impervious)

Runoff = 3.53 cfs @ 1.15 hrs, Volume= 0.118 af, Depth= 1.03"
 Routed to Pond B-12 : Basin #12

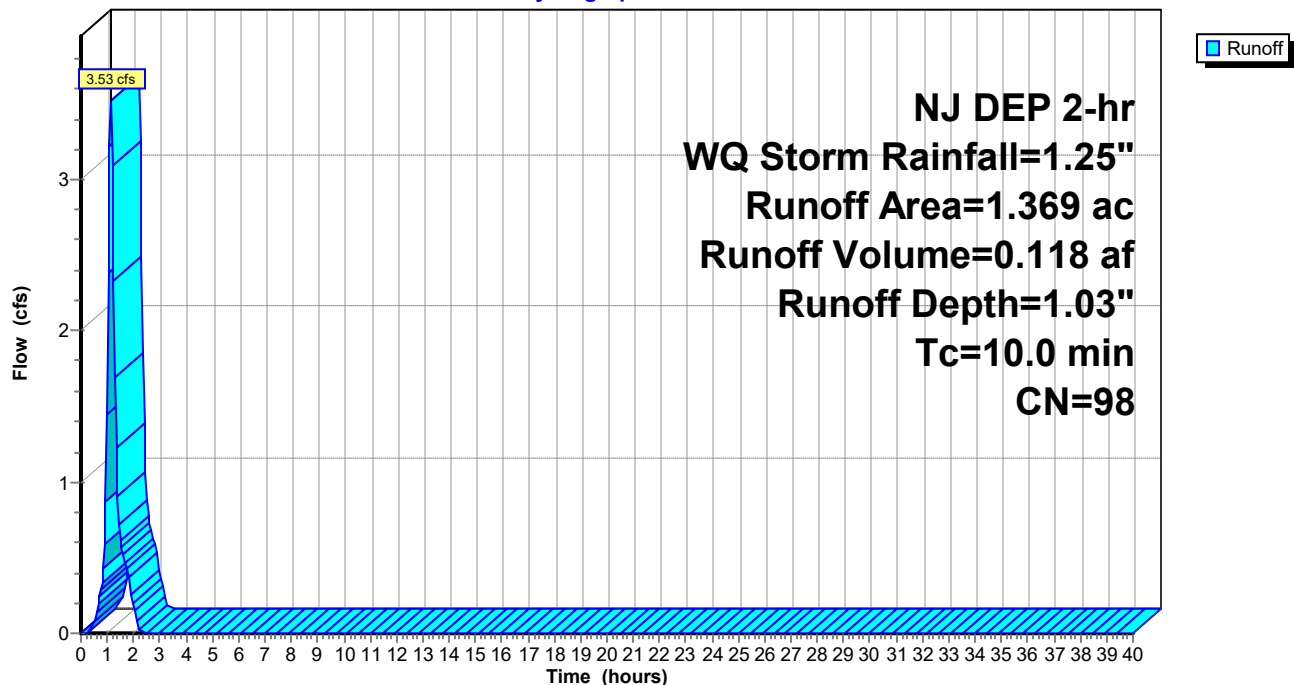
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.559	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.103	98	Concrete, HSG C
1.369	98	Weighted Average
1.369		100.00% Impervious Area

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

Subcatchment 12I: PDA-12 (impervious)

Hydrograph



Summary for Subcatchment 12P: PDA-12 (pervious)

Runoff = 0.08 cfs @ 1.27 hrs, Volume= 0.004 af, Depth= 0.07"
 Routed to Pond B-12 : Basin #12

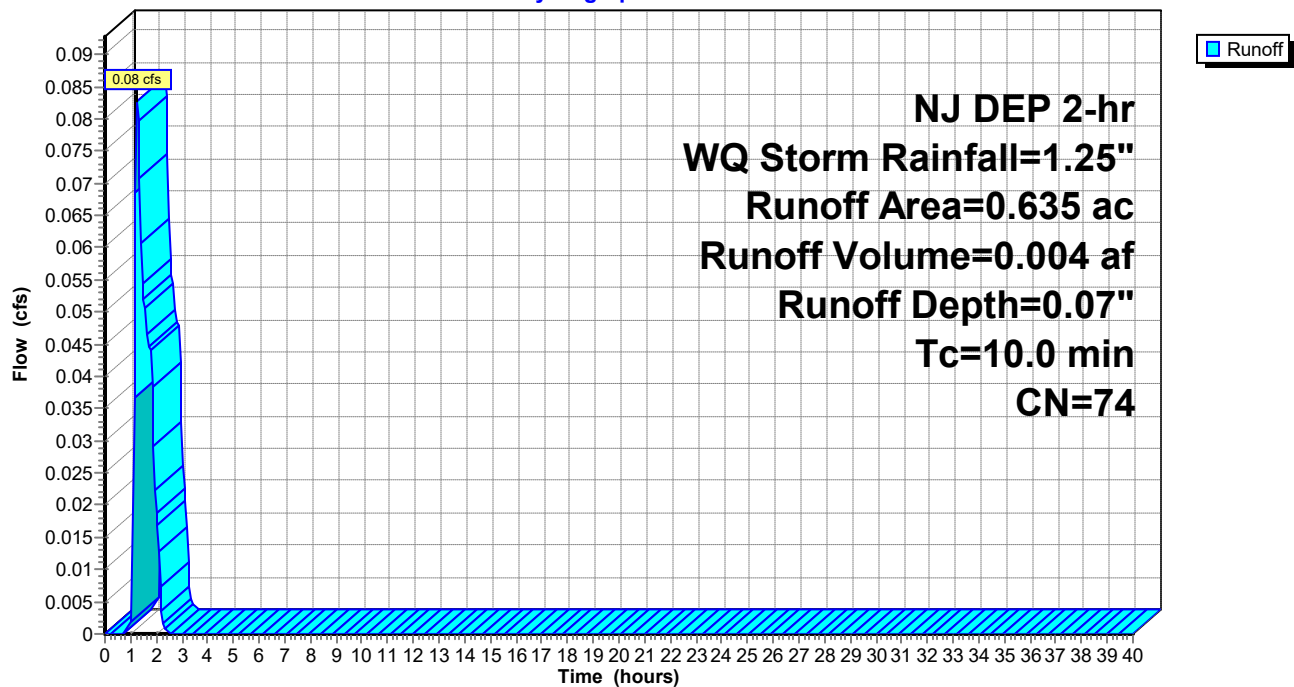
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
0.635	74	>75% Grass cover, Good, HSG C
0.635		100.00% Pervious Area

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

Subcatchment 12P: PDA-12 (pervious)

Hydrograph



Summary for Subcatchment 13I: PDA-13 (impervious)

Runoff = 3.78 cfs @ 1.15 hrs, Volume= 0.126 af, Depth= 1.03"
 Routed to Pond B-13 : Basin #13

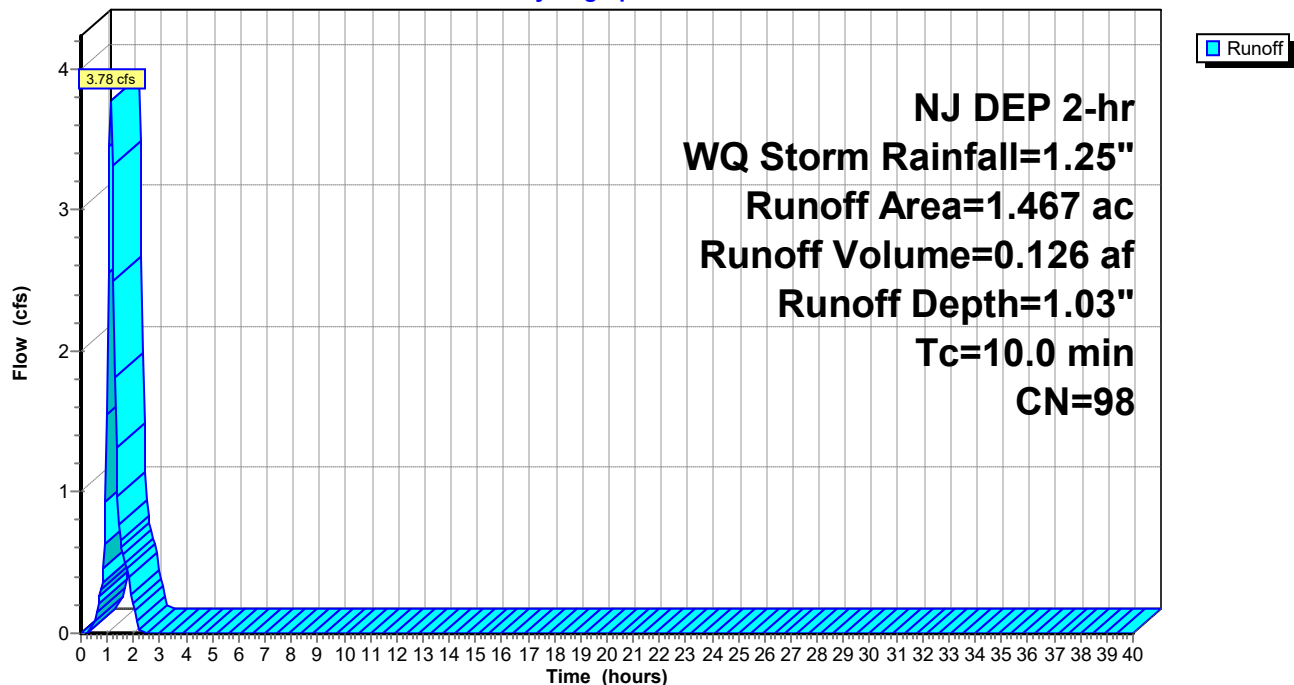
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.678	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.082	98	Concrete, HSG C
1.467	98	Weighted Average
1.467		100.00% Impervious Area

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

Subcatchment 13I: PDA-13 (impervious)

Hydrograph



Summary for Subcatchment 13P: PDA-13 (pervious)

Runoff = 0.12 cfs @ 1.27 hrs, Volume= 0.005 af, Depth= 0.07"
 Routed to Pond B-13 : Basin #13

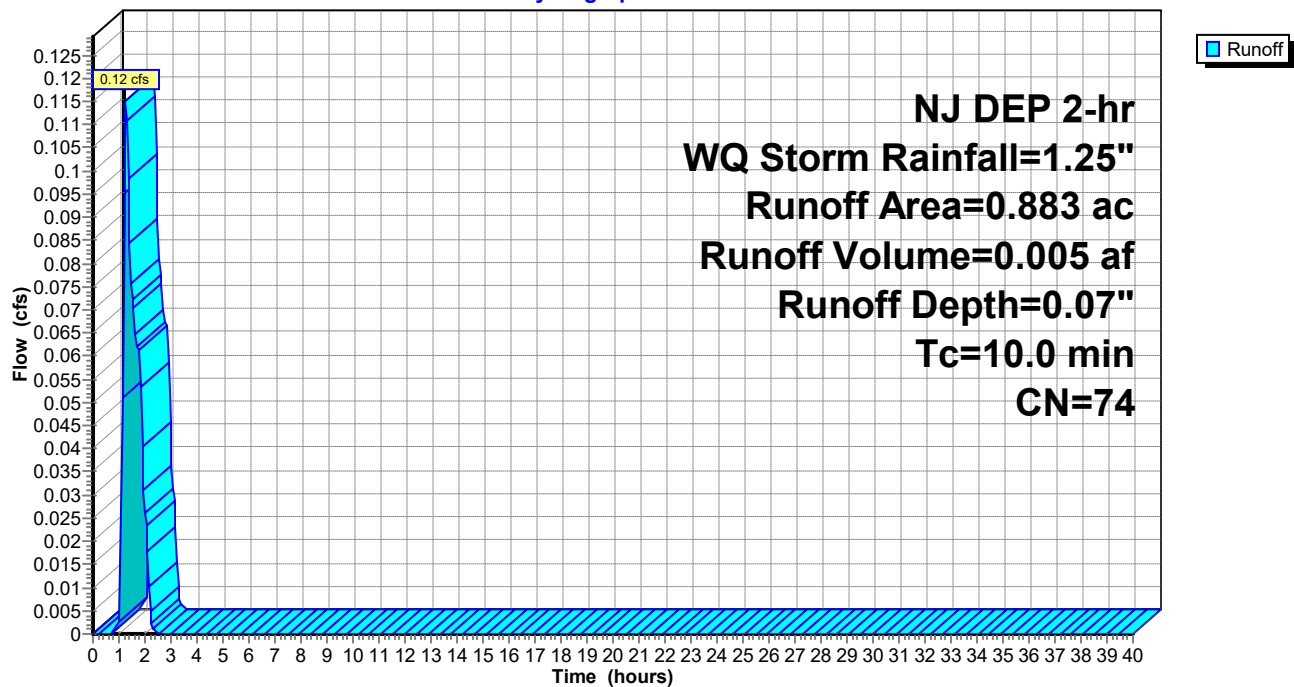
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
0.883	74	>75% Grass cover, Good, HSG C
0.883		100.00% Pervious Area

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

Subcatchment 13P: PDA-13 (pervious)

Hydrograph



Summary for Subcatchment 14I: PDA-14 (impervious)

Runoff = 1.31 cfs @ 1.15 hrs, Volume= 0.044 af, Depth= 1.03"
 Routed to Pond B-14 : Basin #14

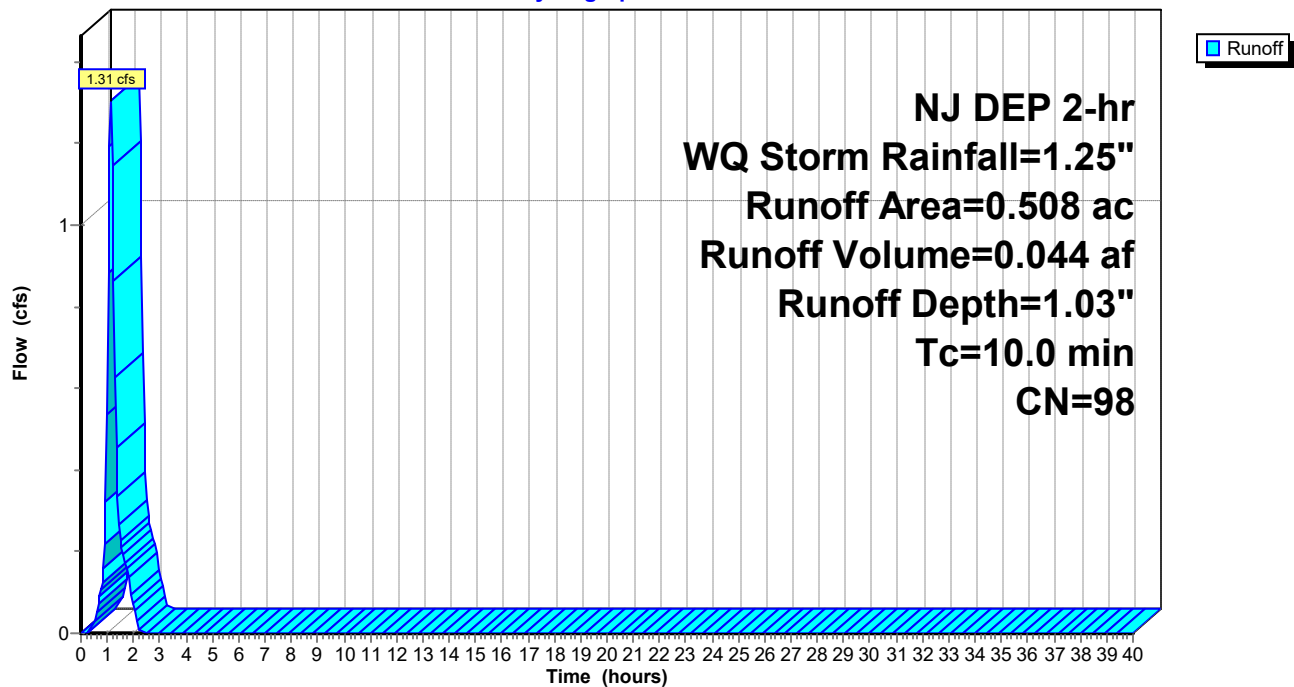
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.308	98	Pavement, HSG C
* 0.064	98	Roof, HSG C
* 0.136	98	Concrete, HSG C
0.508	98	Weighted Average
0.508		100.00% Impervious Area

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

Subcatchment 14I: PDA-14 (impervious)

Hydrograph



Summary for Subcatchment 14P: PDA-14 (pervious)

Runoff = 0.21 cfs @ 1.27 hrs, Volume= 0.010 af, Depth= 0.07"
 Routed to Pond B-14 : Basin #14

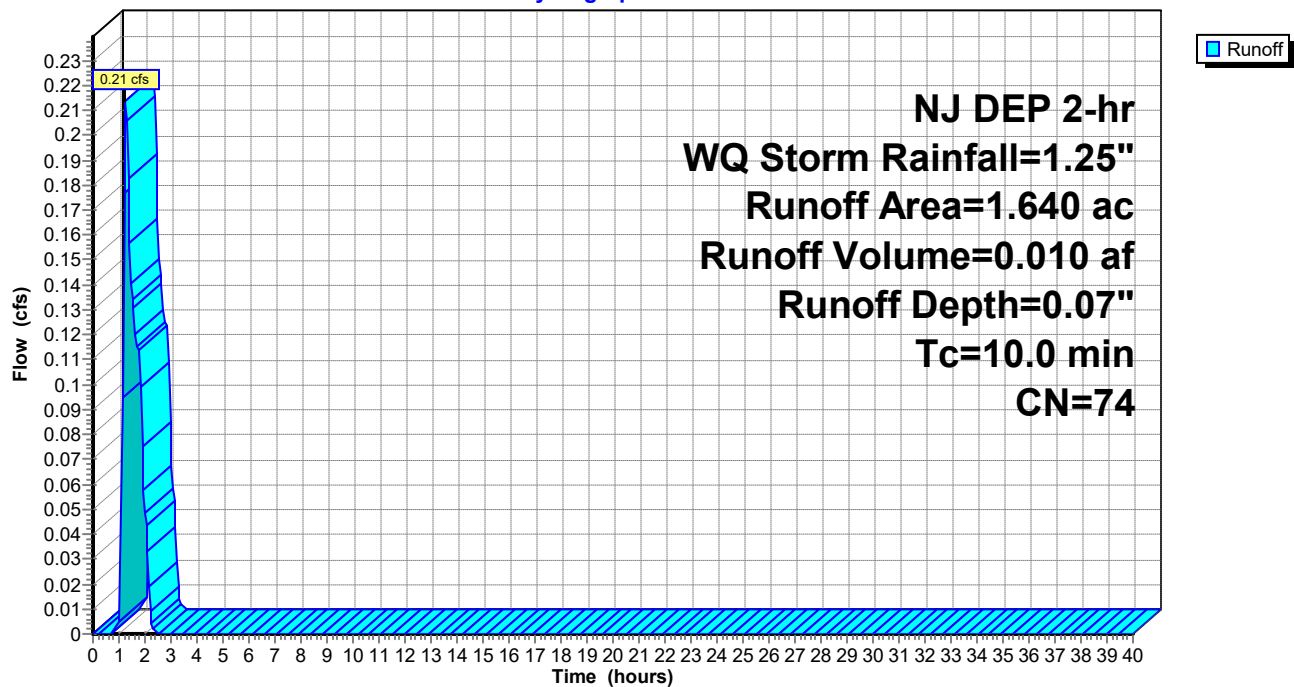
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.640	74	>75% Grass cover, Good, HSG C
1.640		100.00% Pervious Area

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

Subcatchment 14P: PDA-14 (pervious)

Hydrograph



Summary for Subcatchment 15I: PDA-15 (impervious)

Runoff = 3.58 cfs @ 1.15 hrs, Volume= 0.120 af, Depth= 1.03"
 Routed to Pond B-15 : Basin #15

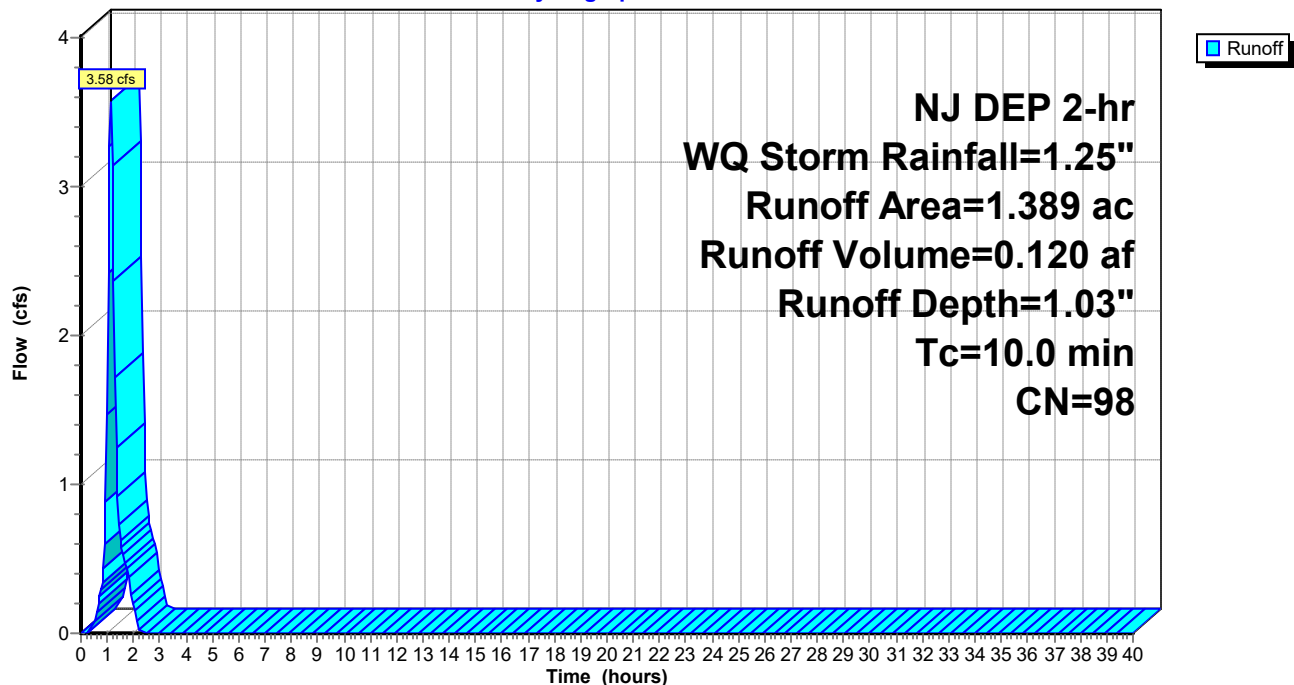
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.501	98	Pavement, HSG C
* 0.836	98	Roof, HSG C
* 0.052	98	Concrete, HSG C
1.389	98	Weighted Average
1.389		100.00% Impervious Area

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

Subcatchment 15I: PDA-15 (impervious)

Hydrograph



Summary for Subcatchment 15P: PDA-15 (pervious)

Runoff = 0.13 cfs @ 1.27 hrs, Volume= 0.006 af, Depth= 0.07"
Routed to Pond B-15 : Basin #15

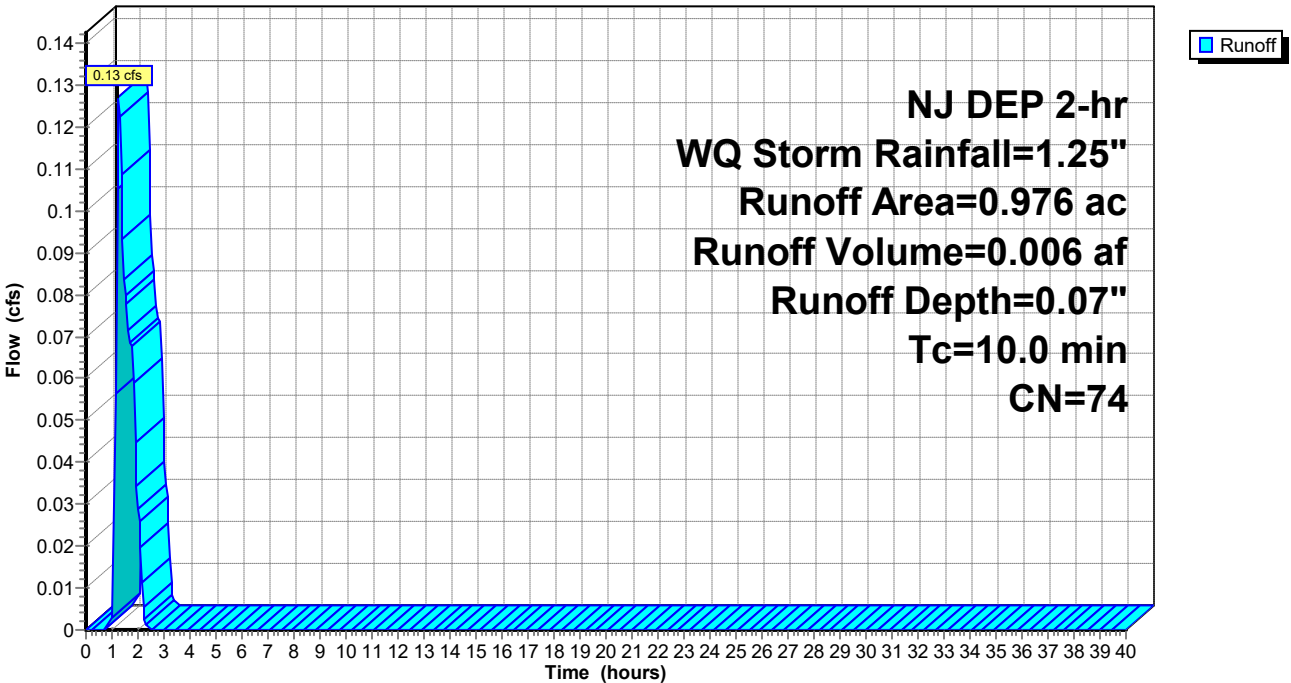
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
0.976	74	>75% Grass cover, Good, HSG C
0.976		100.00% Pervious Area

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

Subcatchment 15P: PDA-15 (pervious)

Hydrograph



Summary for Subcatchment 16I: PDA-16 (impervious)

Runoff = 3.00 cfs @ 1.15 hrs, Volume= 0.100 af, Depth= 1.03"
Routed to Pond B-16 : Basin #16

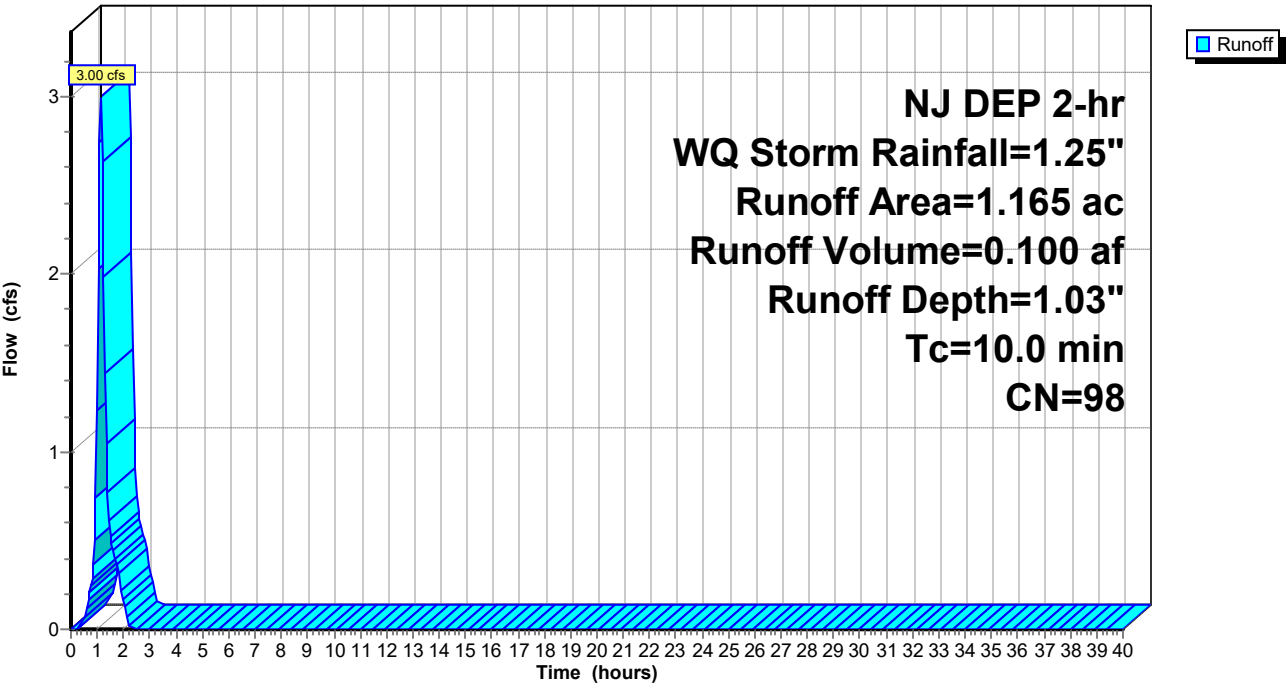
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.712	98	Pavement, HSG C
* 0.386	98	Roof, HSG C
* 0.067	98	Concrete, HSG C
1.165	98	Weighted Average
1.165		100.00% Impervious Area

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

Subcatchment 16I: PDA-16 (impervious)

Hydrograph



Summary for Subcatchment 16P: PDA-16 (pervious)

Runoff = 0.20 cfs @ 1.27 hrs, Volume= 0.009 af, Depth= 0.07"
 Routed to Pond B-16 : Basin #16

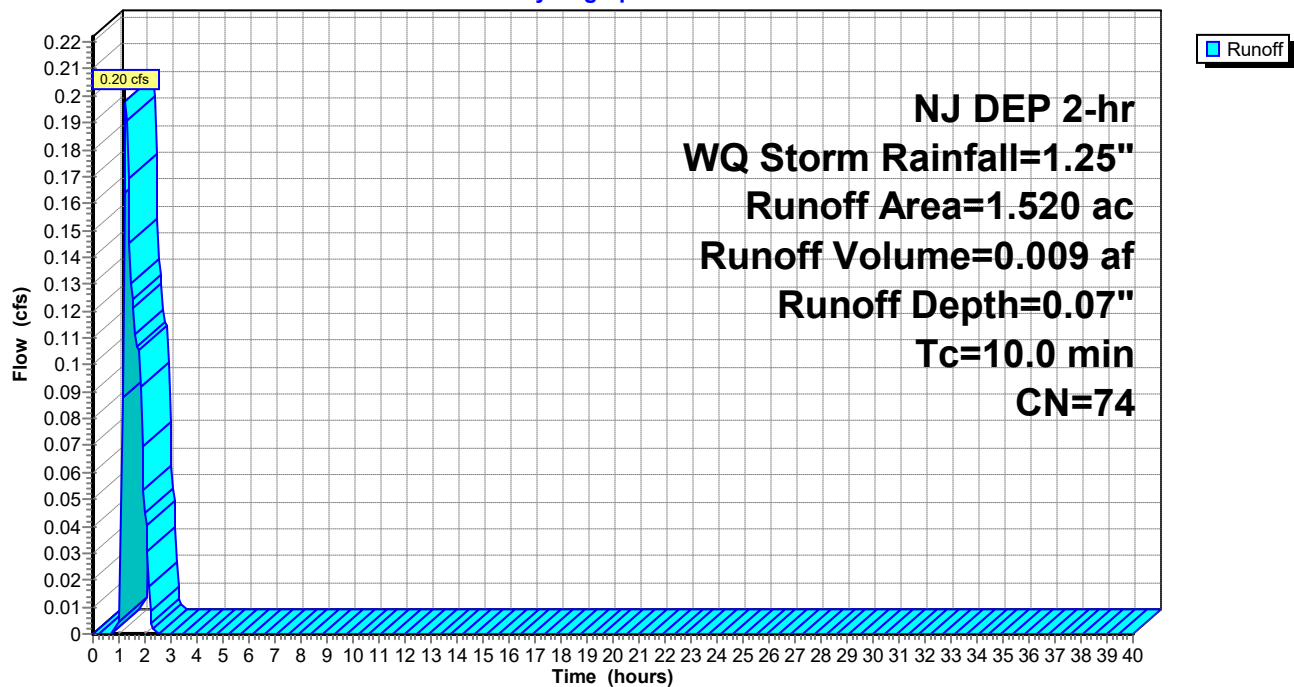
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.520	74	>75% Grass cover, Good, HSG C
1.520		100.00% Pervious Area

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

Subcatchment 16P: PDA-16 (pervious)

Hydrograph



Summary for Subcatchment 17I: PDA-17 (impervious)

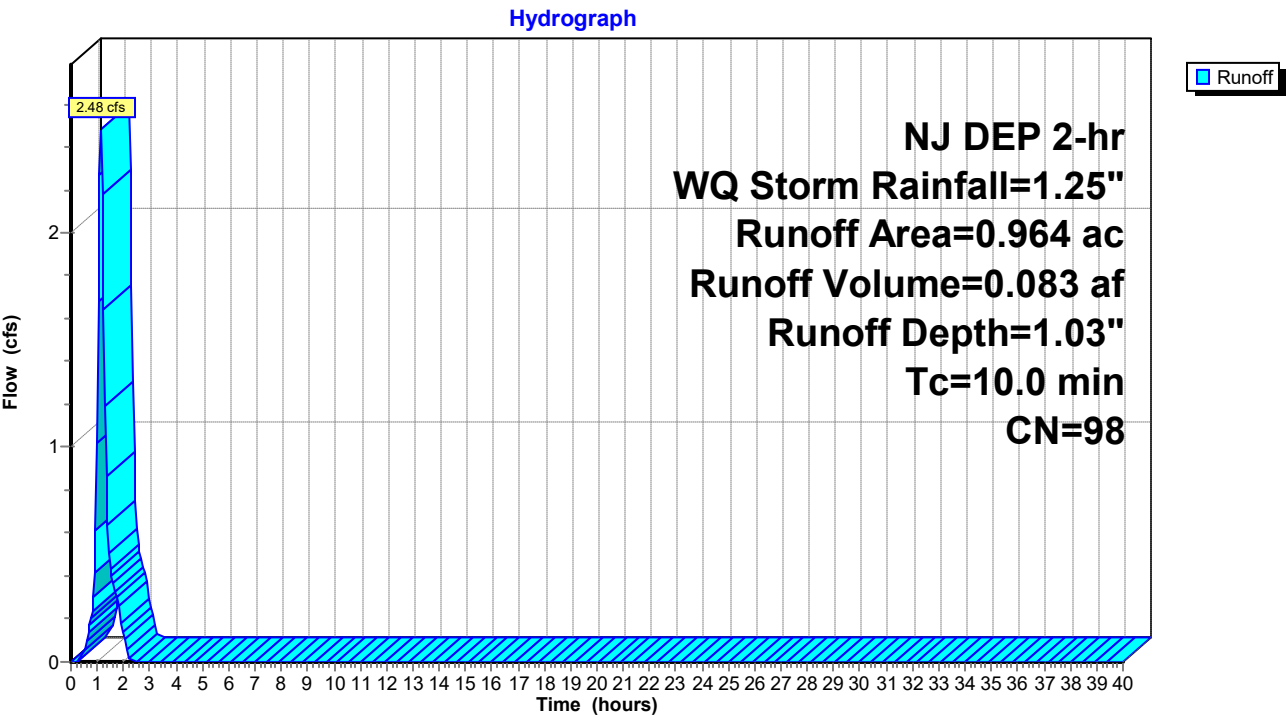
Runoff = 2.48 cfs @ 1.15 hrs, Volume= 0.083 af, Depth= 1.03"
Routed to Pond B-17 : Basin #17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.964	98	Roof, HSG C
0.964		100.00% Impervious Area

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

Subcatchment 17I: PDA-17 (impervious)



Summary for Subcatchment 17P: PDA-17 (pervious)

Runoff = 0.24 cfs @ 1.27 hrs, Volume= 0.011 af, Depth= 0.07"
 Routed to Pond B-17 : Basin #17

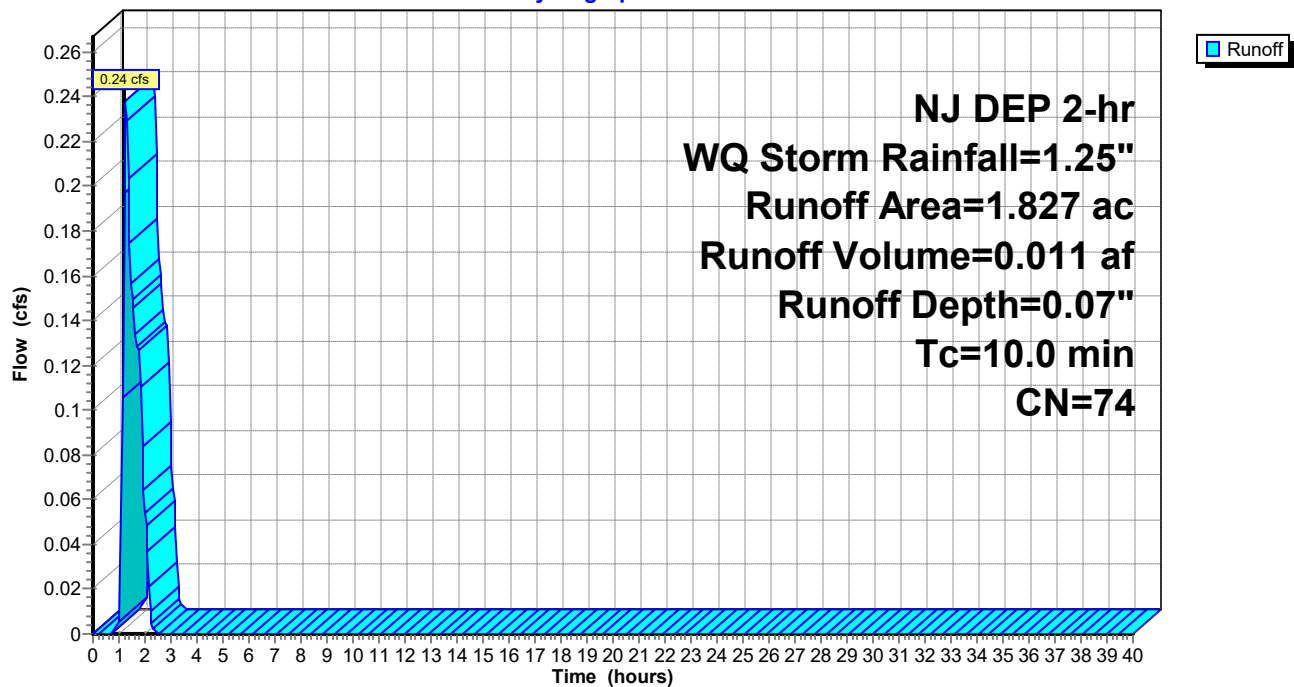
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.827	74	>75% Grass cover, Good, HSG C
1.827		100.00% Pervious Area

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

Subcatchment 17P: PDA-17 (pervious)

Hydrograph



Summary for Subcatchment 18I: PDA-18 (impervious)

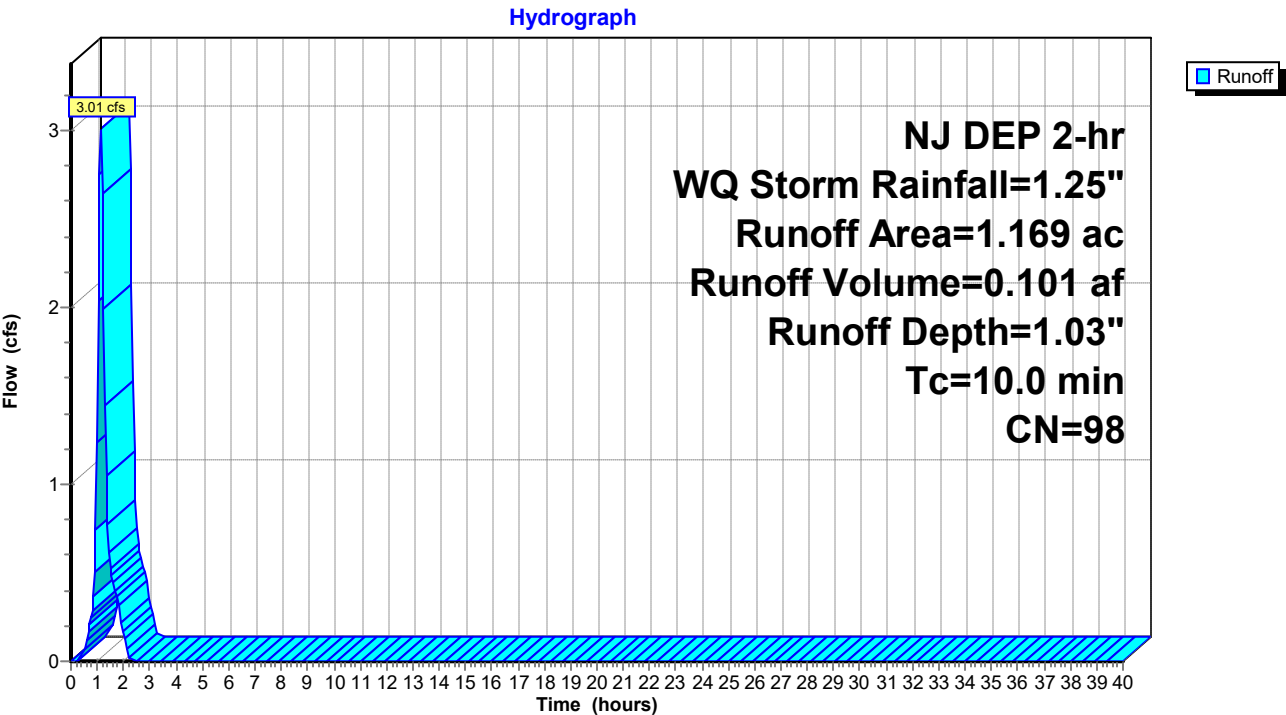
Runoff = 3.01 cfs @ 1.15 hrs, Volume= 0.101 af, Depth= 1.03"
Routed to Pond B-18 : Basin #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.474	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.052	98	Concrete, HSG C
1.169	98	Weighted Average
1.169		100.00% Impervious Area

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

Subcatchment 18I: PDA-18 (impervious)



Summary for Subcatchment 18P: PDA-18 (pervious)

Runoff = 0.17 cfs @ 1.27 hrs, Volume= 0.008 af, Depth= 0.07"
 Routed to Pond B-18 : Basin #18

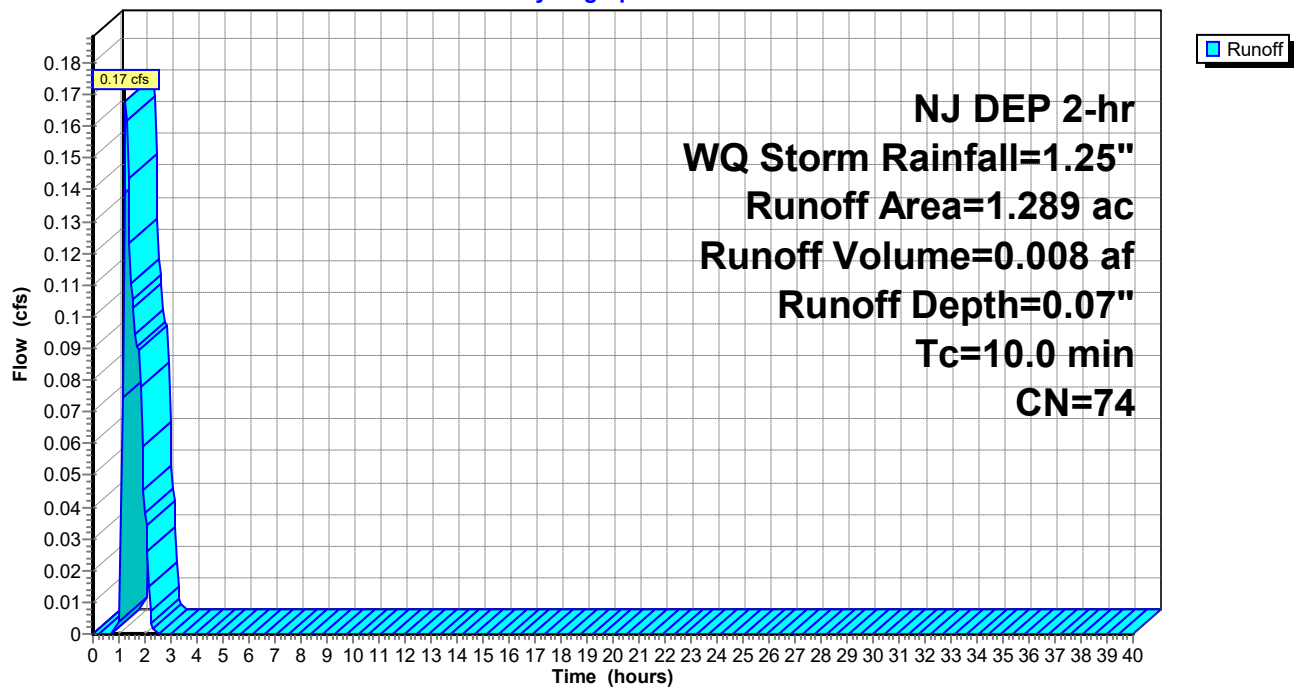
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.289	74	>75% Grass cover, Good, HSG C
1.289		100.00% Pervious Area

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

Subcatchment 18P: PDA-18 (pervious)

Hydrograph



Summary for Subcatchment 19I: PDA-19 (impervious)

Runoff = 0.98 cfs @ 1.15 hrs, Volume= 0.033 af, Depth= 1.03"
Routed to Pond B-19 : Basin #19

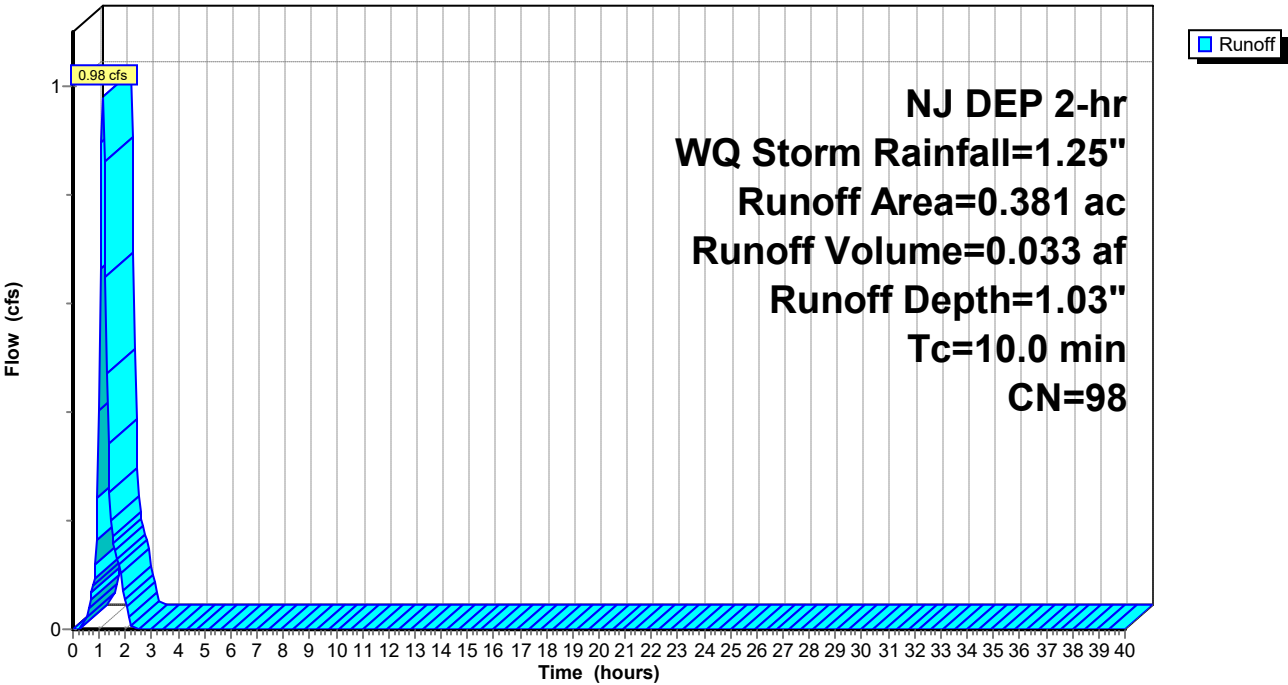
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.167	98	Pavement, HSG C
* 0.193	98	Roof, HSG C
* 0.021	98	Concrete, HSG C
0.381	98	Weighted Average
0.381		100.00% Impervious Area

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

Subcatchment 19I: PDA-19 (impervious)

Hydrograph



Summary for Subcatchment 19P: PDA-19 (pervious)

Runoff = 0.07 cfs @ 1.27 hrs, Volume= 0.003 af, Depth= 0.07"
 Routed to Pond B-19 : Basin #19

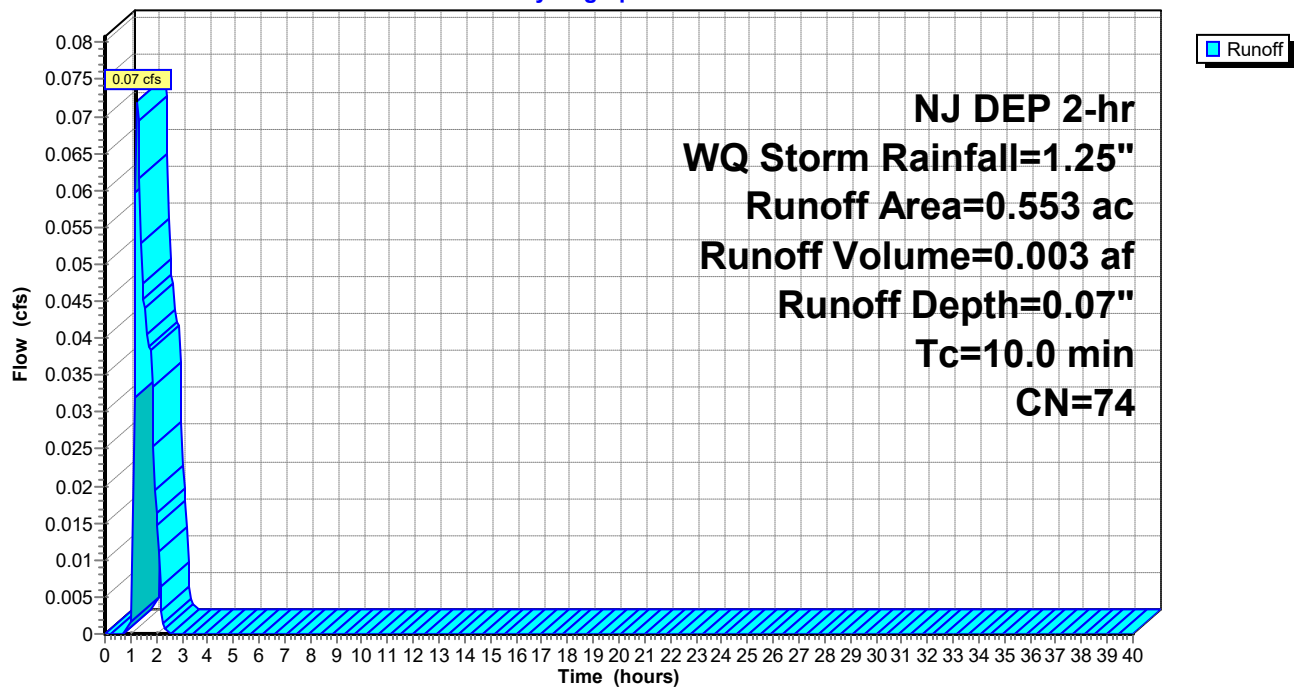
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
0.553	74	>75% Grass cover, Good, HSG C
0.553		100.00% Pervious Area

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

Subcatchment 19P: PDA-19 (pervious)

Hydrograph



Summary for Subcatchment 20I: PDA-20 (impervious)

Runoff = 3.28 cfs @ 1.15 hrs, Volume= 0.110 af, Depth= 1.03"
 Routed to Pond B-20 : Basin #20

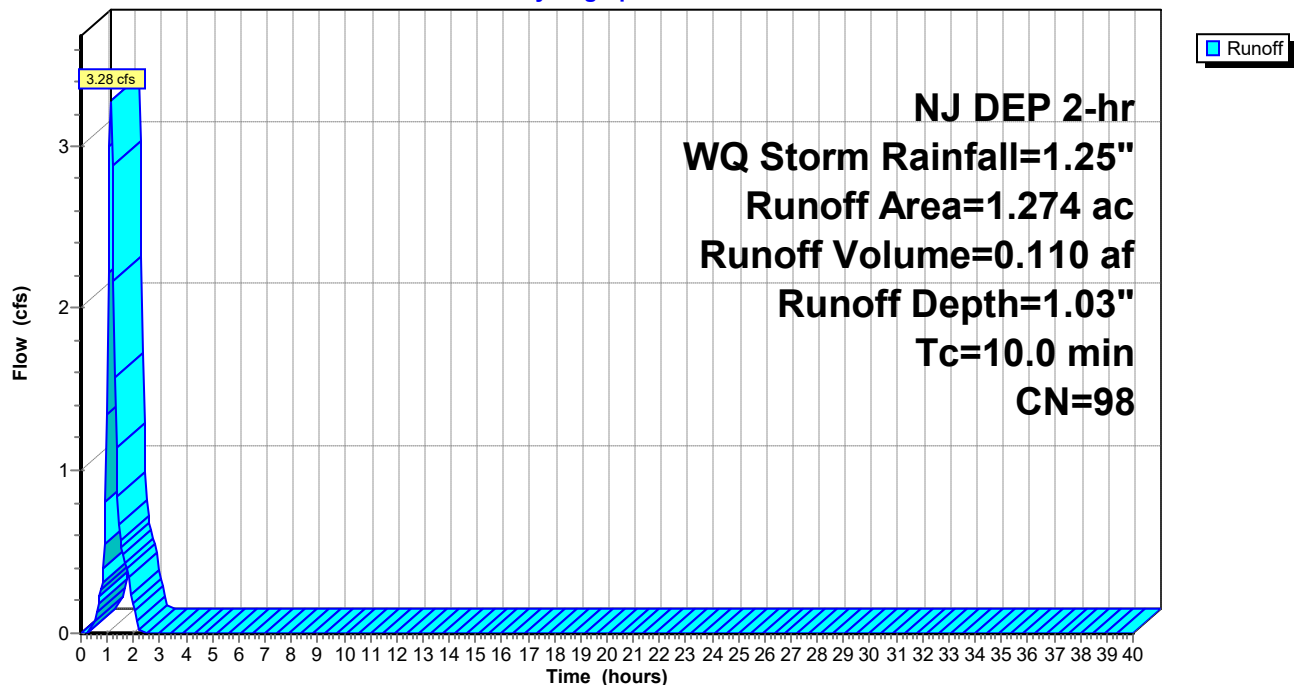
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.500	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.067	98	Concrete, HSC C
1.274	98	Weighted Average
1.274		100.00% Impervious Area

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

Subcatchment 20I: PDA-20 (impervious)

Hydrograph



Summary for Subcatchment 20P: PDA-20 (pervious)

Runoff = 0.18 cfs @ 1.27 hrs, Volume= 0.009 af, Depth= 0.07"
 Routed to Pond B-20 : Basin #20

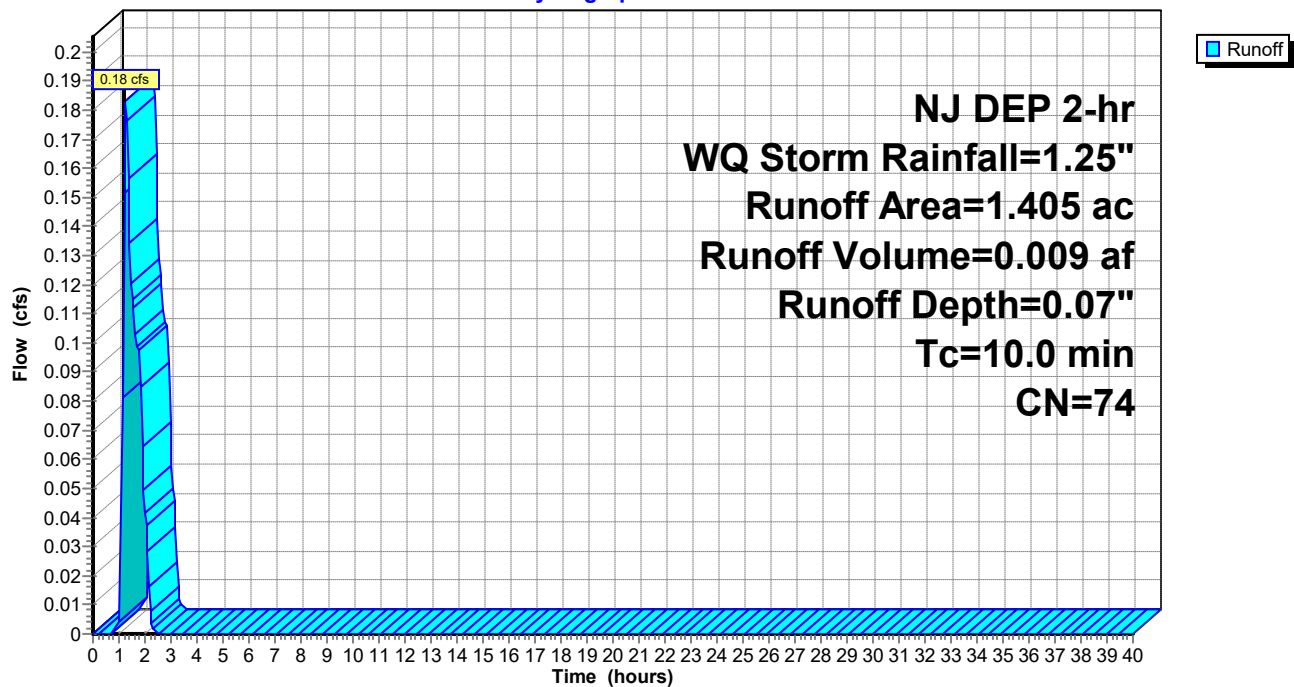
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.405	74	>75% Grass cover, Good, HSG C
1.405		100.00% Pervious Area

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

Subcatchment 20P: PDA-20 (pervious)

Hydrograph



Summary for Subcatchment 21I: PDA-21 (impervious)

Runoff = 2.87 cfs @ 1.15 hrs, Volume= 0.096 af, Depth= 1.03"
Routed to Pond B-21 : Basin #21

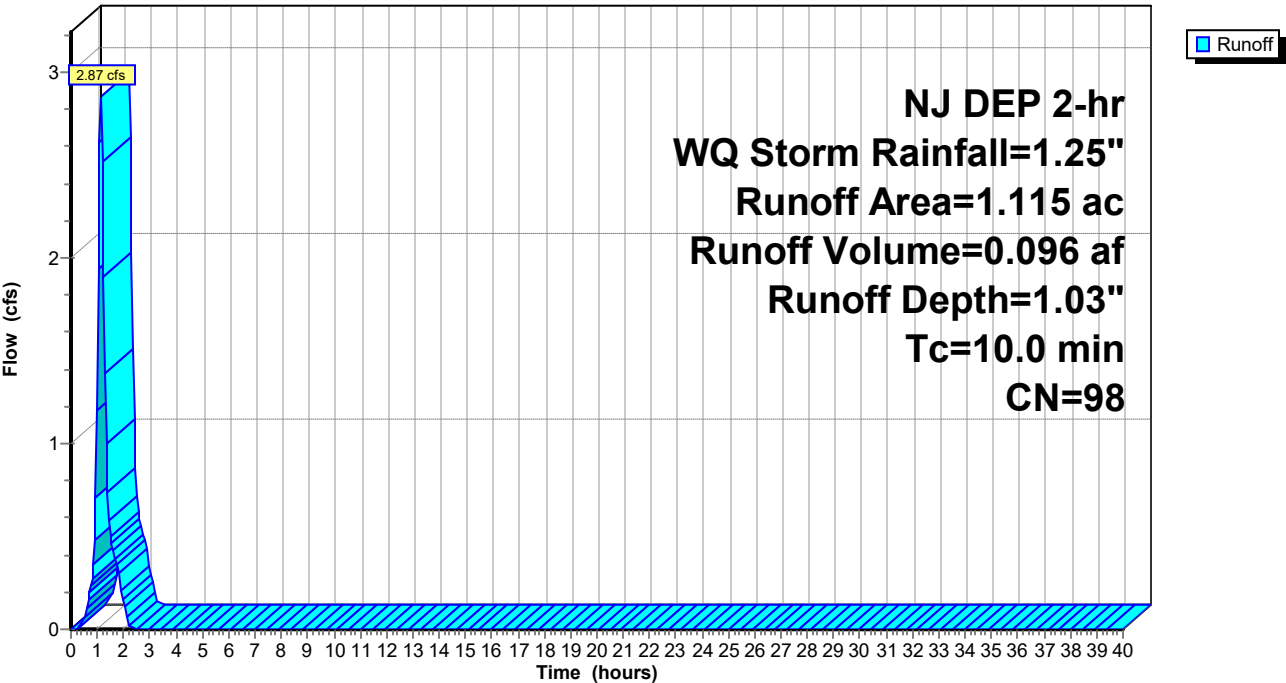
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.556	98	Pavement, HSG C
* 0.514	98	Roof, HSG C
* 0.045	98	Concrete, HSC C
1.115	98	Weighted Average
1.115		100.00% Impervious Area

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

Subcatchment 21I: PDA-21 (impervious)

Hydrograph



Summary for Subcatchment 21P: PDA-21 (pervious)

Runoff = 0.20 cfs @ 1.27 hrs, Volume= 0.010 af, Depth= 0.07"
 Routed to Pond B-21 : Basin #21

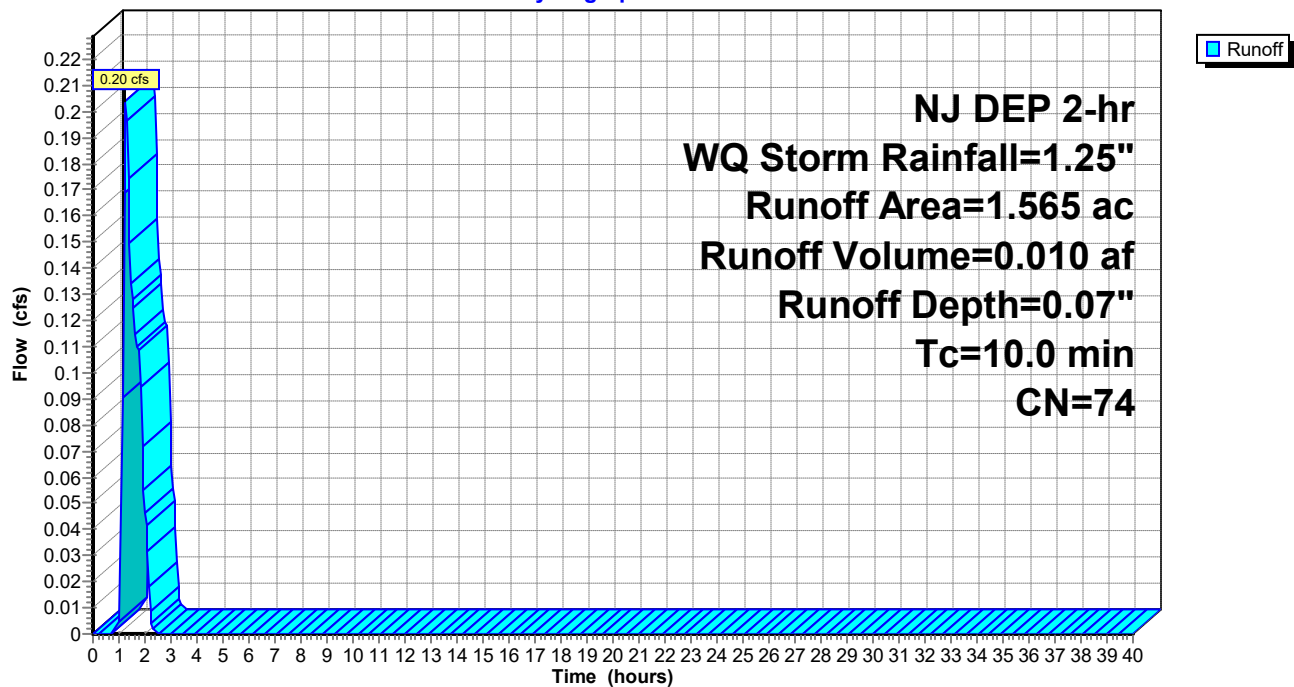
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.565	74	>75% Grass cover, Good, HSG C
1.565		100.00% Pervious Area

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

Subcatchment 21P: PDA-21 (pervious)

Hydrograph



Summary for Subcatchment 22I: PDA-22 (impervious)

Runoff = 2.13 cfs @ 1.15 hrs, Volume= 0.071 af, Depth= 1.03"
 Routed to Pond B-22 : Basin #22

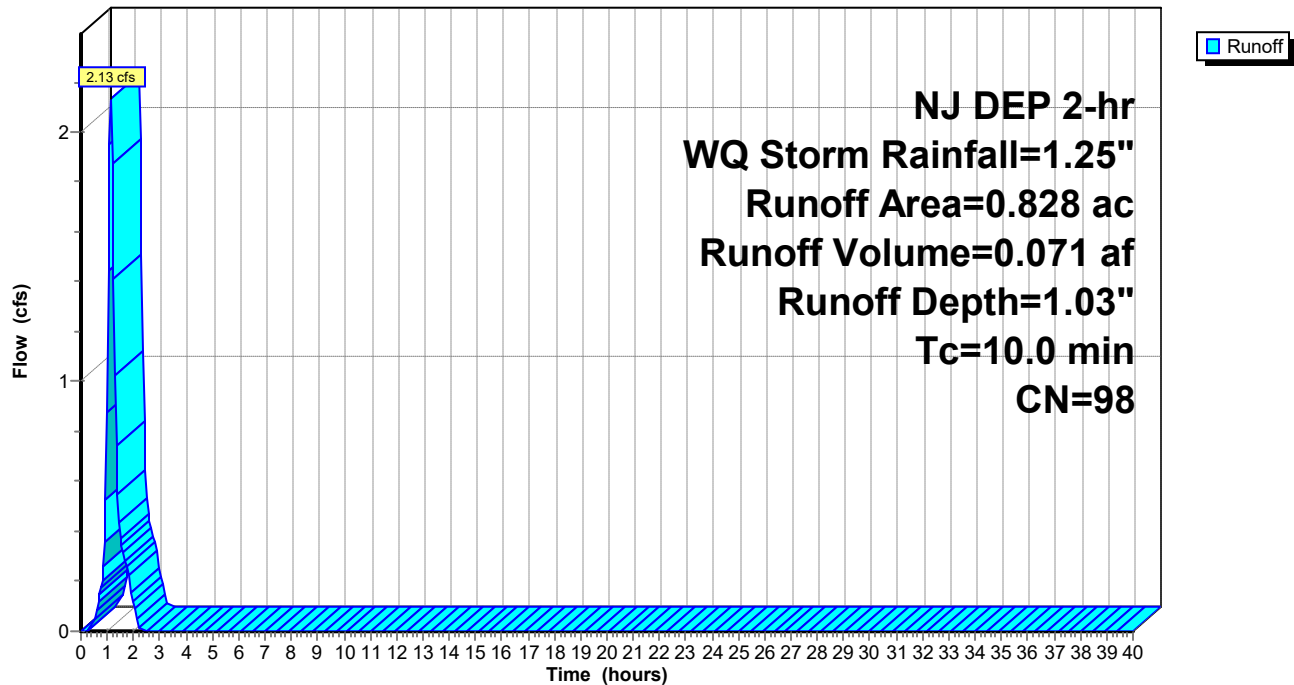
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.372	98	Pavement, HSG C
* 0.386	98	Roof, HSG C
* 0.070	98	Concrete, HSC C
0.828	98	Weighted Average
0.828		100.00% Impervious Area

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

Subcatchment 22I: PDA-22 (impervious)

Hydrograph



Summary for Subcatchment 22P: PDA-22 (pervious)

Runoff = 0.25 cfs @ 1.27 hrs, Volume= 0.012 af, Depth= 0.07"
 Routed to Pond B-22 : Basin #22

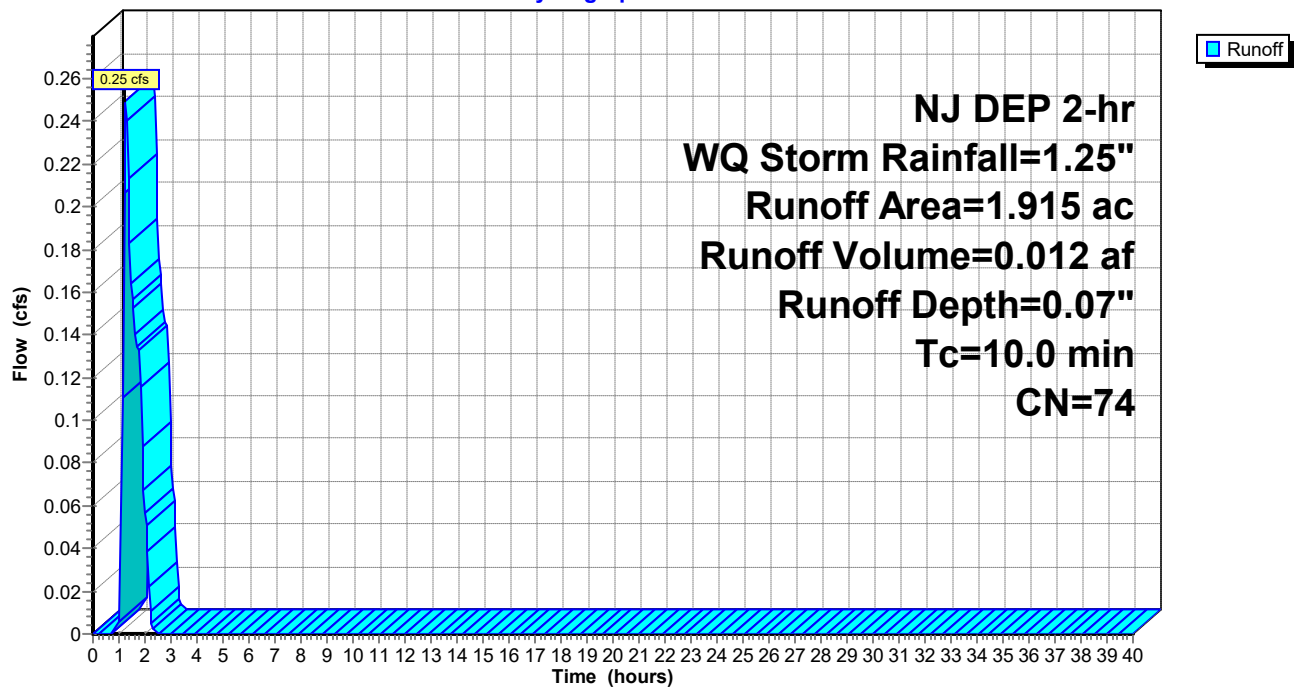
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.915	74	>75% Grass cover, Good, HSG C
1.915		100.00% Pervious Area

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

Subcatchment 22P: PDA-22 (pervious)

Hydrograph



Summary for Subcatchment 23I: PDA-23 (impervious)

Runoff = 2.59 cfs @ 1.15 hrs, Volume= 0.087 af, Depth= 1.03"
 Routed to Pond B-23 : Basin #23

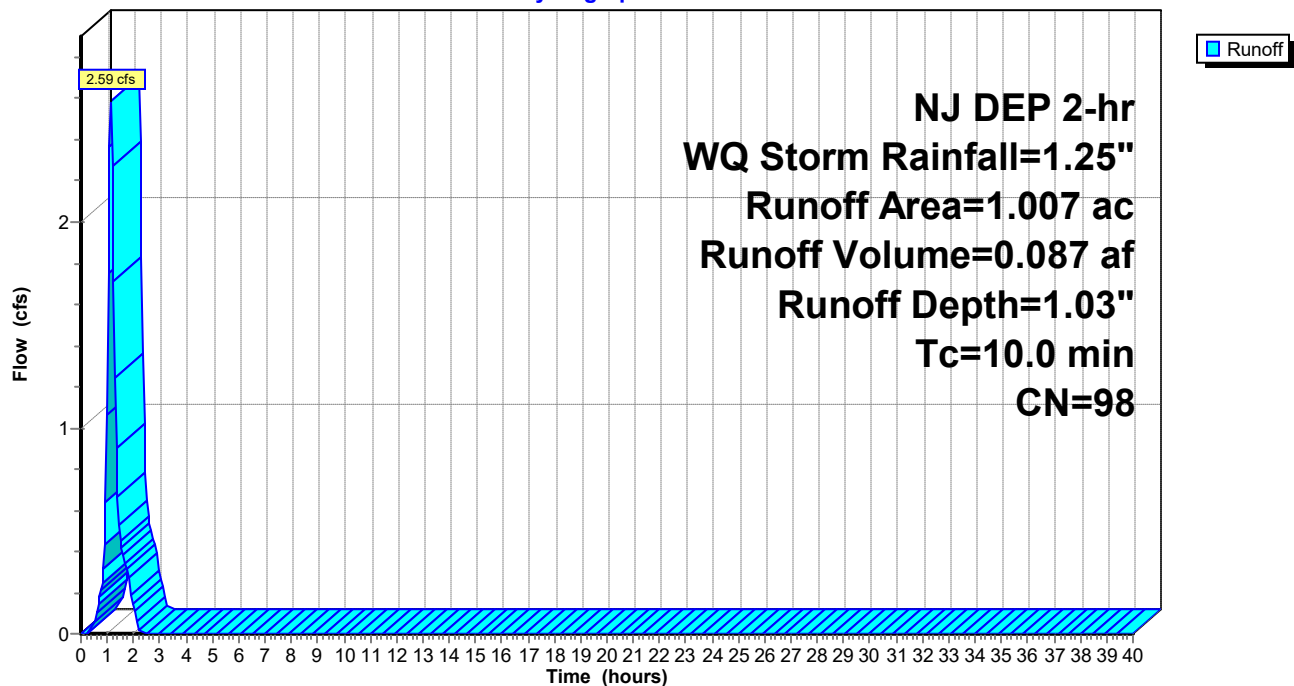
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.987	98	Pavement, HSG C
* 0.020	98	Concrete, HSG C
1.007	98	Weighted Average
1.007		100.00% Impervious Area

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

Subcatchment 23I: PDA-23 (impervious)

Hydrograph



Summary for Subcatchment 23P: PDA-23 (pervious)

Runoff = 0.07 cfs @ 1.27 hrs, Volume= 0.003 af, Depth= 0.07"
 Routed to Pond B-23 : Basin #23

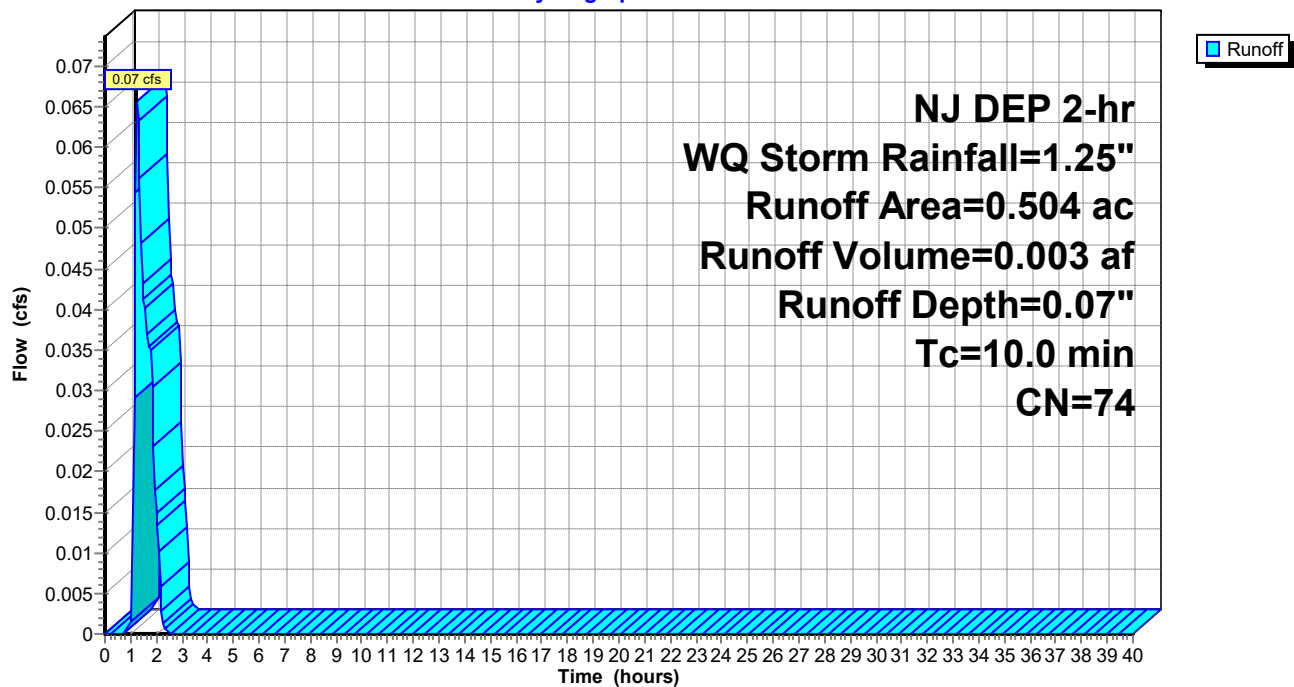
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
0.504	74	>75% Grass cover, Good, HSG C
0.504		100.00% Pervious Area

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

Subcatchment 23P: PDA-23 (pervious)

Hydrograph



Summary for Subcatchment 24I: PDA-24 (impervious)

Runoff = 3.16 cfs @ 1.15 hrs, Volume= 0.106 af, Depth= 1.03"
 Routed to Pond B-24 : Basin #24

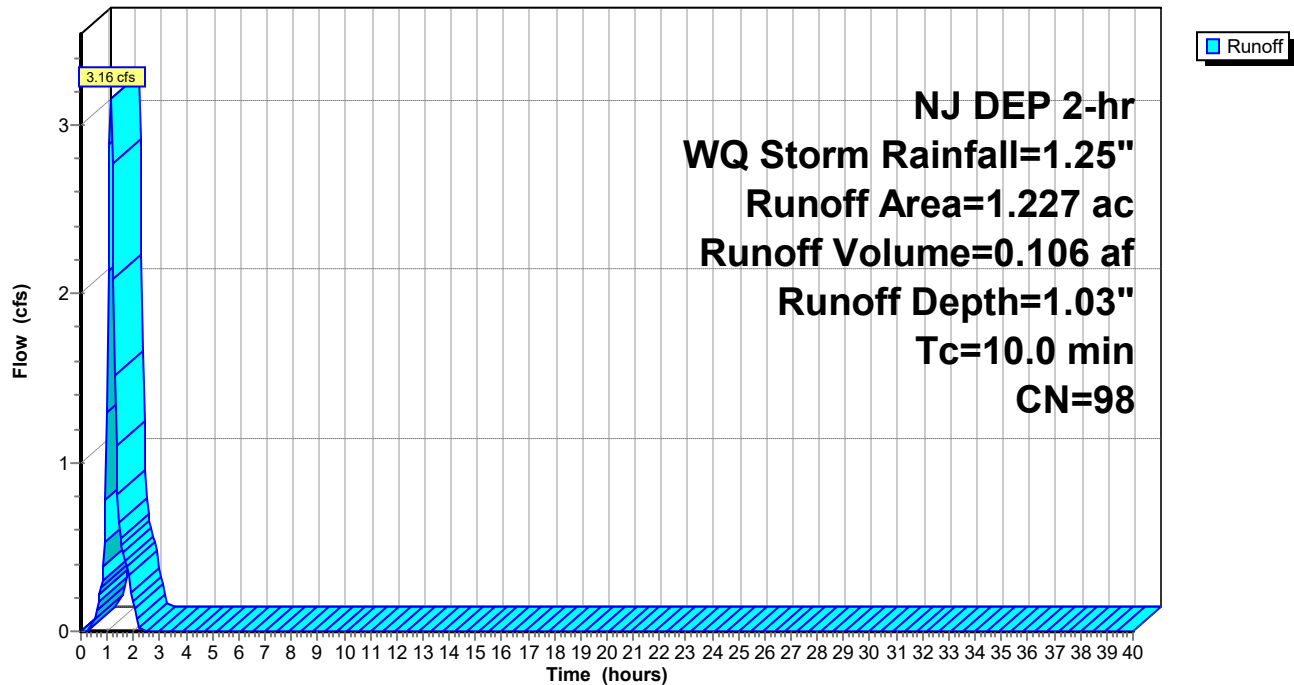
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.525	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.059	98	Concrete, HSC C
1.227	98	Weighted Average
1.227		100.00% Impervious Area

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

Subcatchment 24I: PDA-24 (impervious)

Hydrograph



Summary for Subcatchment 24P: PDA-24 (pervious)

Runoff = 0.20 cfs @ 1.27 hrs, Volume= 0.009 af, Depth= 0.07"
 Routed to Pond B-24 : Basin #24

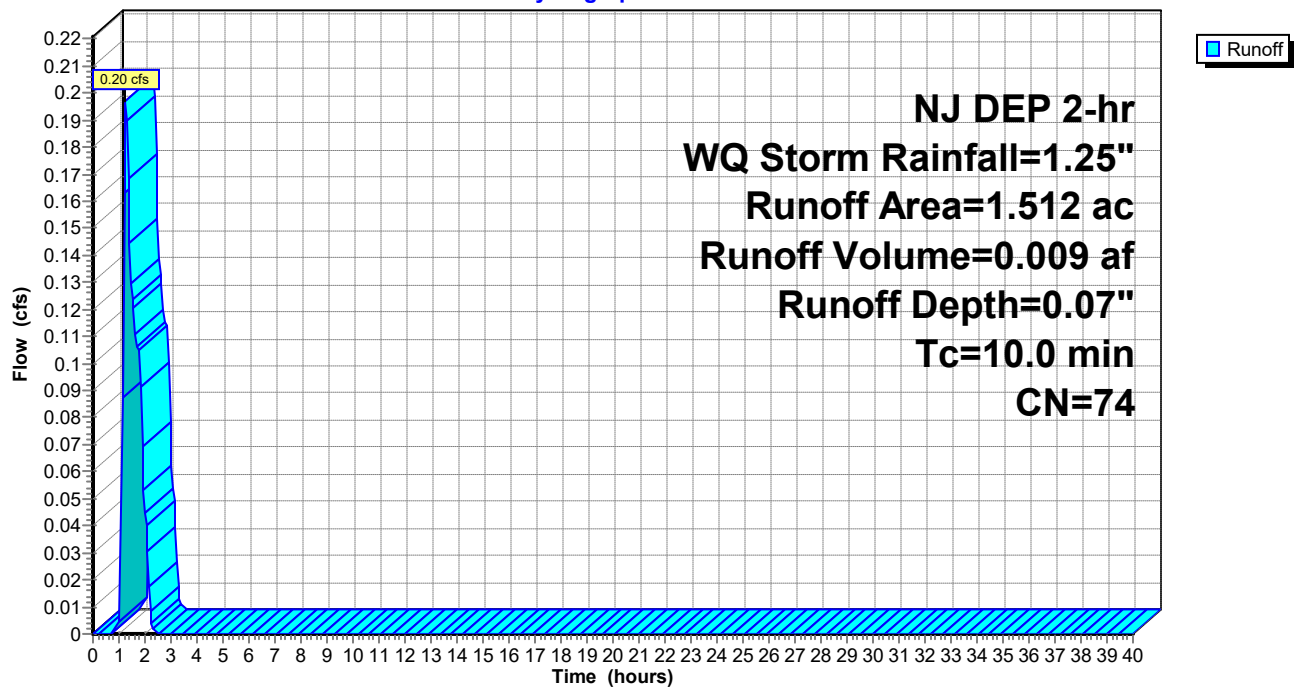
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.512	74	>75% Grass cover, Good, HSG C
1.512		100.00% Pervious Area

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

Subcatchment 24P: PDA-24 (pervious)

Hydrograph



Summary for Subcatchment 25I: PDA-25 (impervious)

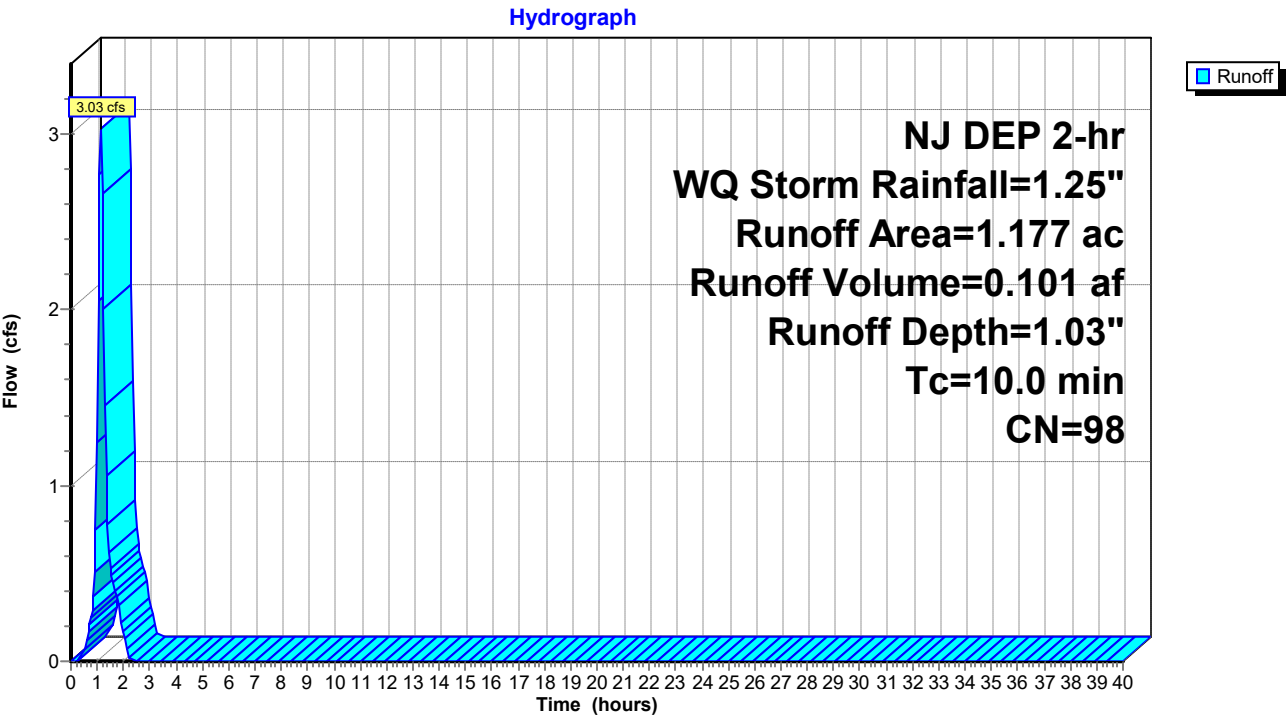
Runoff = 3.03 cfs @ 1.15 hrs, Volume= 0.101 af, Depth= 1.03"
Routed to Pond B-25 : Basin #25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.573	98	Pavement, HSG C
* 0.514	98	Roof, HSG C
* 0.090	98	Concrete, HSC C
1.177	98	Weighted Average
1.177		100.00% Impervious Area

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

Subcatchment 25I: PDA-25 (impervious)



Summary for Subcatchment 25P: PDA-25 (pervious)

Runoff = 0.20 cfs @ 1.27 hrs, Volume= 0.010 af, Depth= 0.07"
 Routed to Pond B-25 : Basin #25

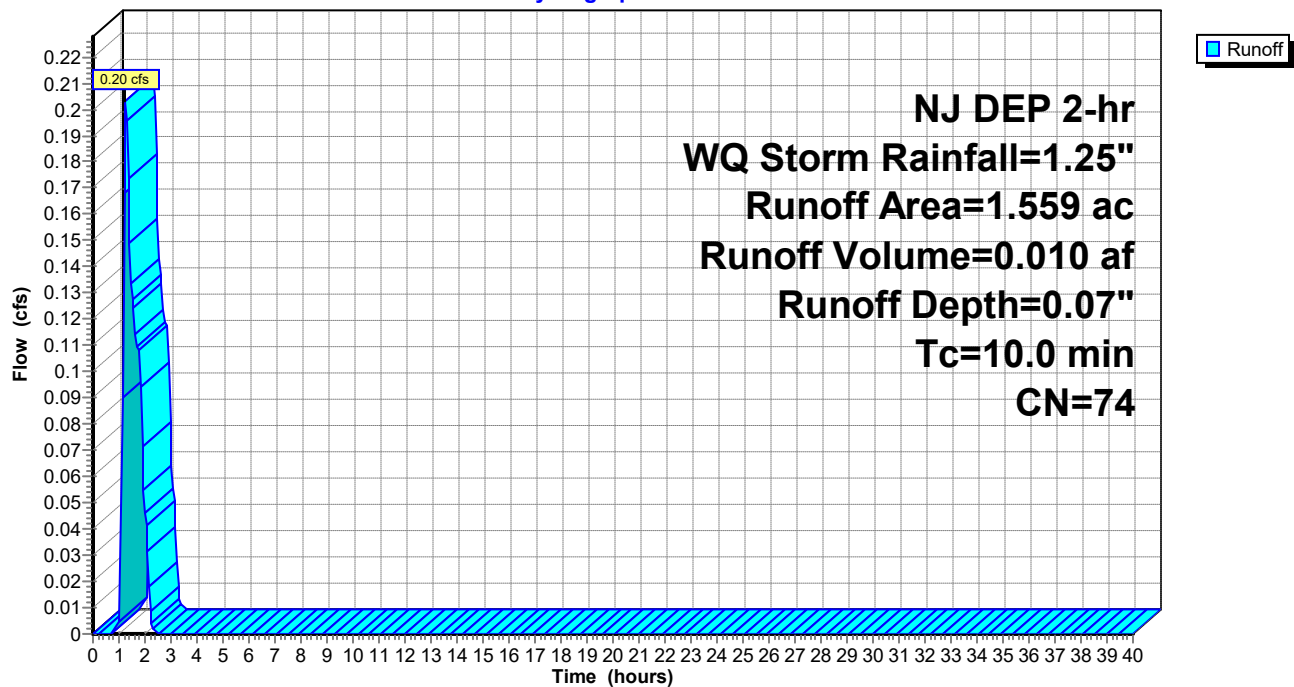
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.559	74	>75% Grass cover, Good, HSG C
1.559		100.00% Pervious Area

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

Subcatchment 25P: PDA-25 (pervious)

Hydrograph



Summary for Subcatchment 26I: PDA-26 (impervious)

Runoff = 2.50 cfs @ 1.15 hrs, Volume= 0.084 af, Depth= 1.03"
 Routed to Pond B-26 : Basin #26

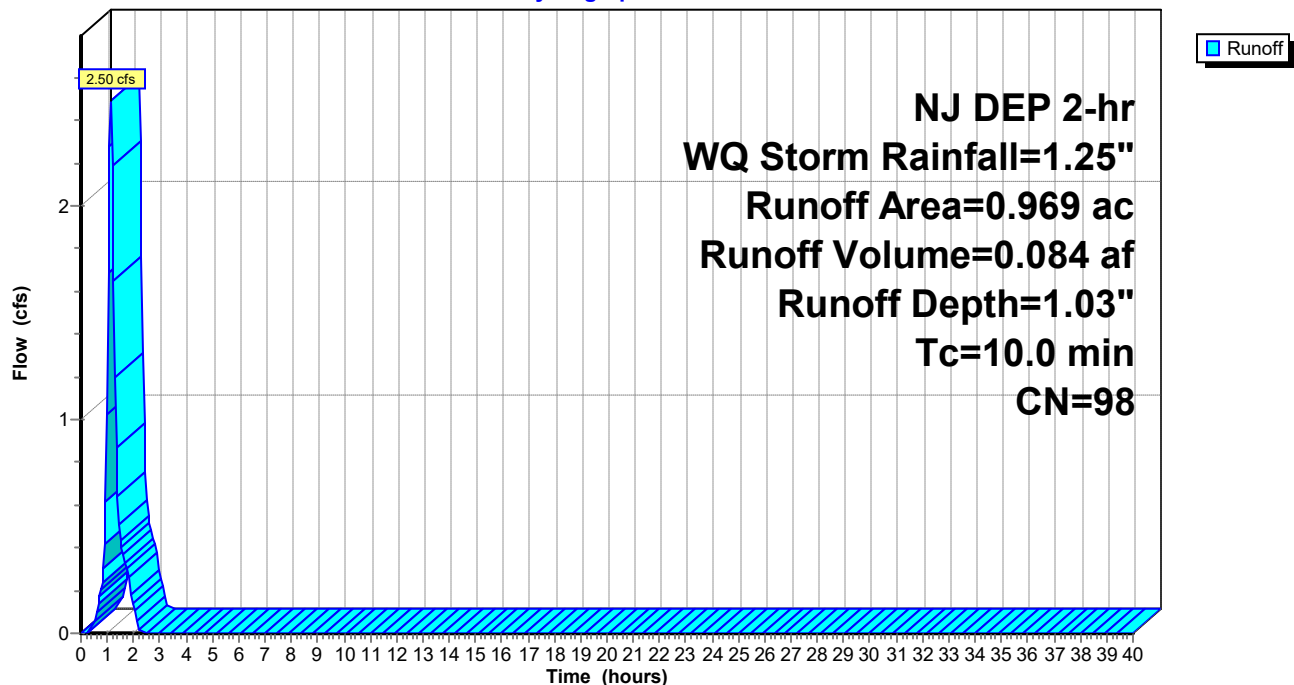
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.277	98	Pavement, HSG C
* 0.687	98	Roof, HSG C
* 0.005	98	Concrete, HSC C
0.969	98	Weighted Average
0.969		100.00% Impervious Area

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

Subcatchment 26I: PDA-26 (impervious)

Hydrograph



Summary for Subcatchment 26P: PDA-26 (pervious)

Runoff = 0.22 cfs @ 1.27 hrs, Volume= 0.011 af, Depth= 0.07"
 Routed to Pond B-26 : Basin #26

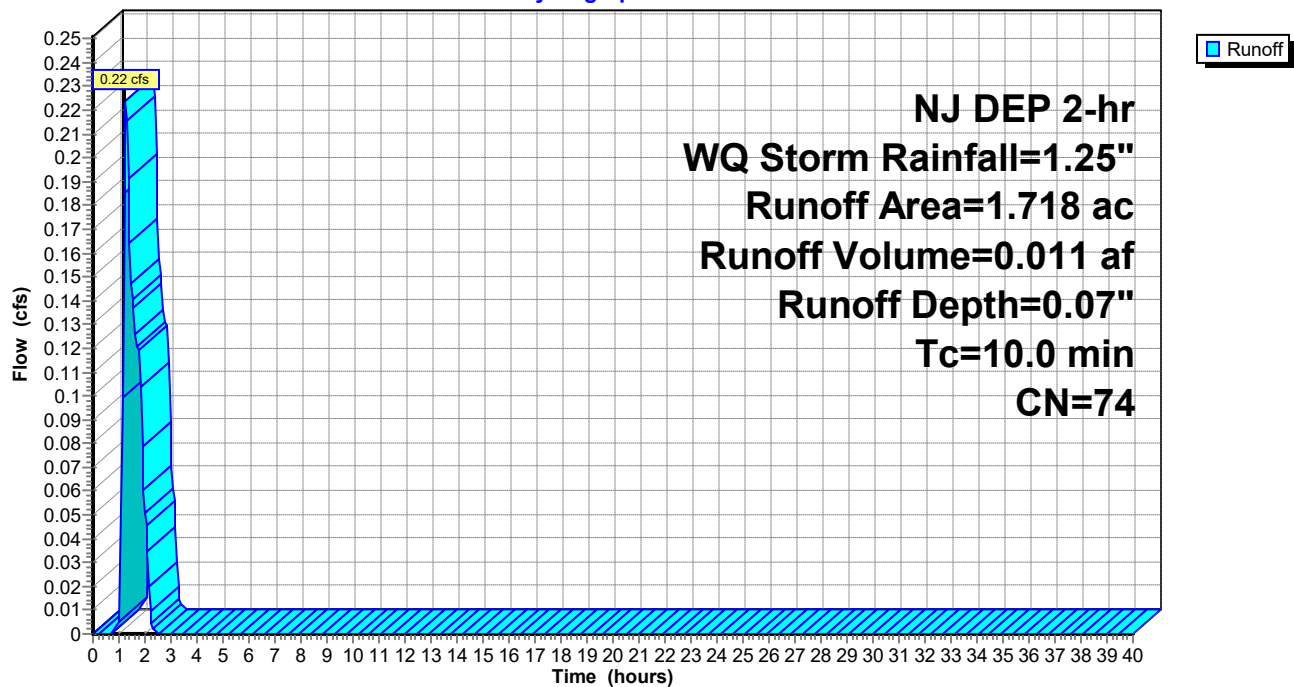
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.718	74	>75% Grass cover, Good, HSG C
1.718		100.00% Pervious Area

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

Subcatchment 26P: PDA-26 (pervious)

Hydrograph



Summary for Subcatchment 27I: PDA-27 (impervious)

Runoff = 3.00 cfs @ 1.15 hrs, Volume= 0.100 af, Depth= 1.03"
 Routed to Pond B-27 : Basin #27

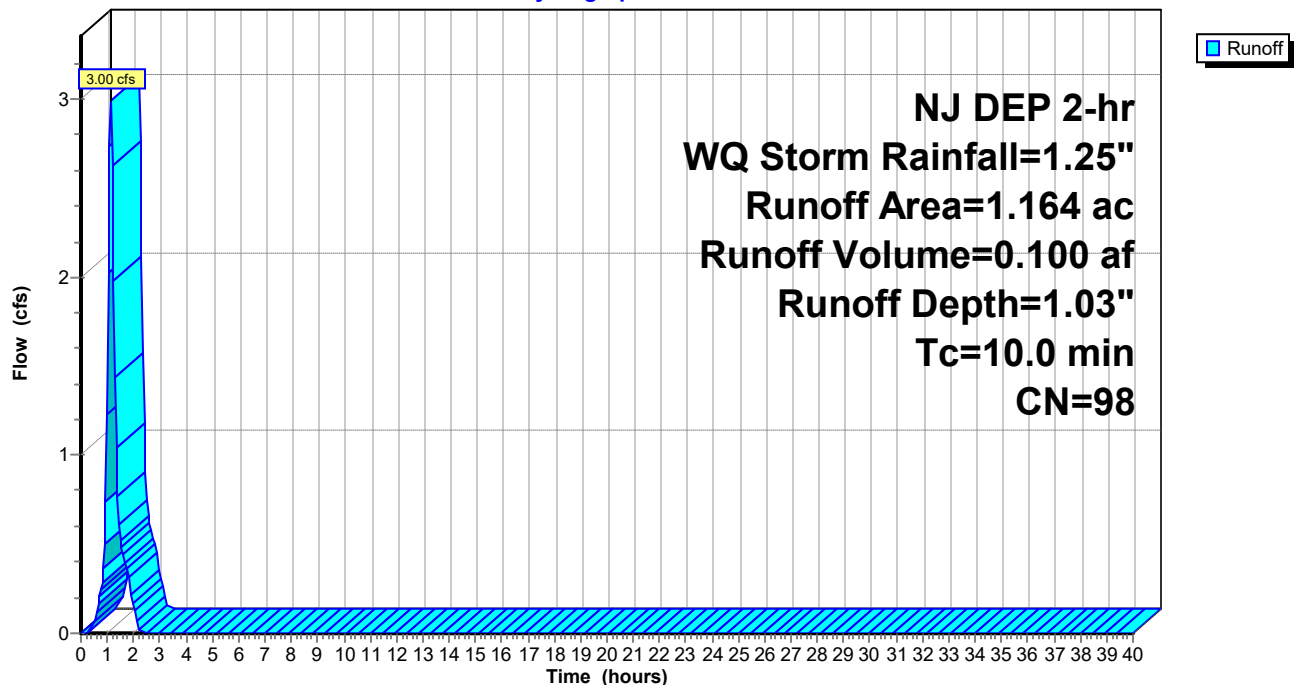
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.410	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.047	98	Concrete, HSC C
1.164	98	Weighted Average
1.164		100.00% Impervious Area

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

Subcatchment 27I: PDA-27 (impervious)

Hydrograph



Summary for Subcatchment 27P: PDA-27 (pervious)

Runoff = 0.16 cfs @ 1.27 hrs, Volume= 0.008 af, Depth= 0.07"
 Routed to Pond B-27 : Basin #27

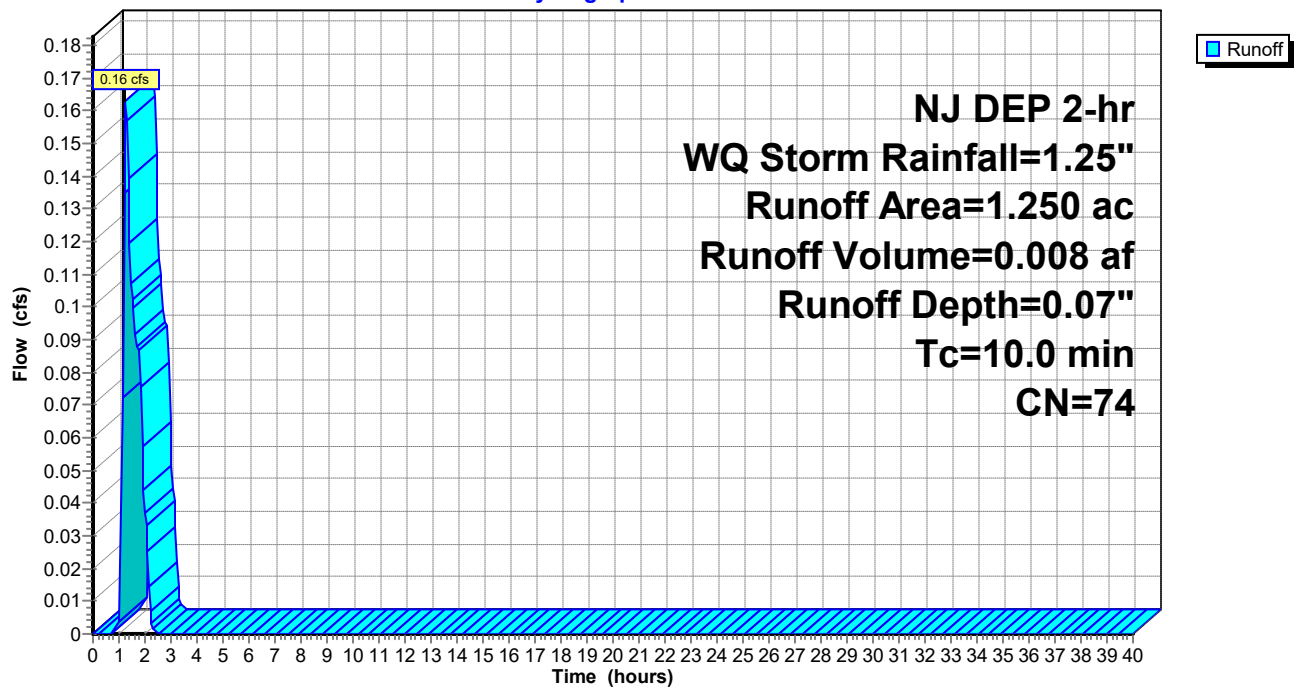
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
1.250	74	>75% Grass cover, Good, HSG C
1.250		100.00% Pervious Area

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

Subcatchment 27P: PDA-27 (pervious)

Hydrograph



Summary for Subcatchment 28I: PDA-28 (impervious)

Runoff = 2.67 cfs @ 1.15 hrs, Volume= 0.089 af, Depth= 1.03"
 Routed to Pond B-28 : Basin #28

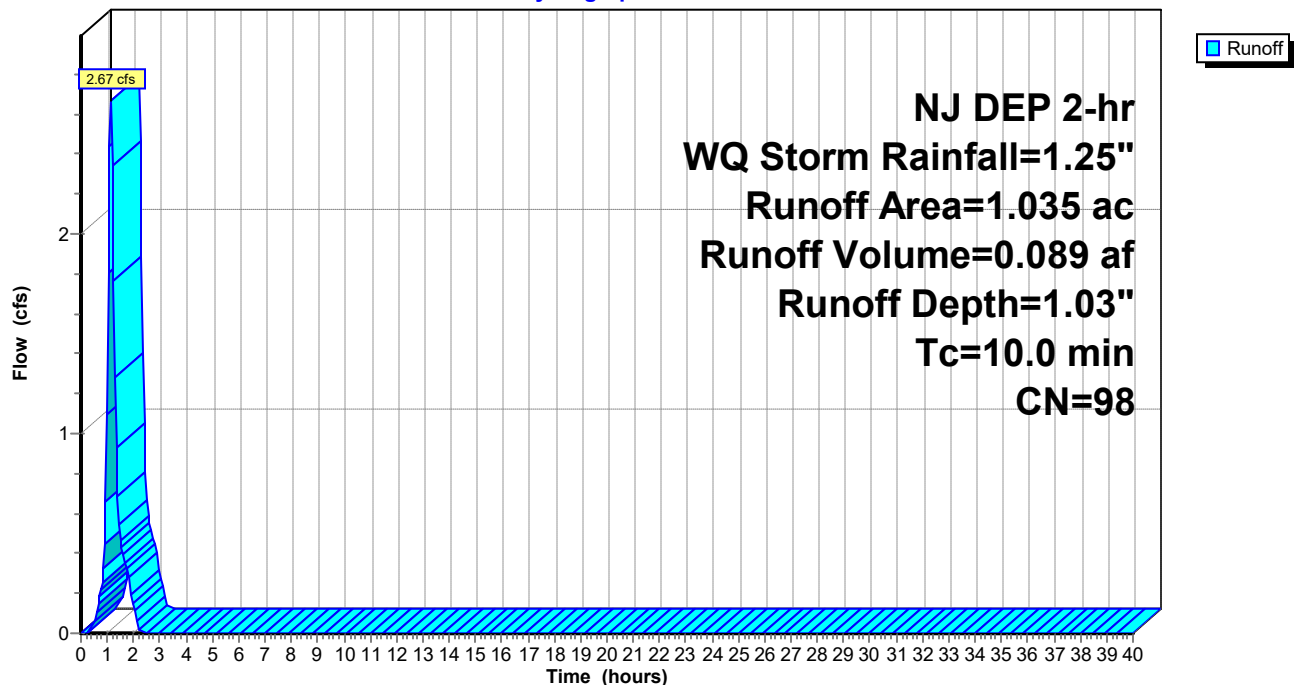
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
* 0.179	98	Pavement, HSG C
* 0.836	98	Roof, HSG C
* 0.020	98	Concrete, HSC C
1.035	98	Weighted Average
1.035		100.00% Impervious Area

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

Subcatchment 28I: PDA-28 (impervious)

Hydrograph



Summary for Subcatchment 28P: PDA-28 (pervious)

Runoff = 0.12 cfs @ 1.27 hrs, Volume= 0.005 af, Depth= 0.07"
 Routed to Pond B-28 : Basin #28

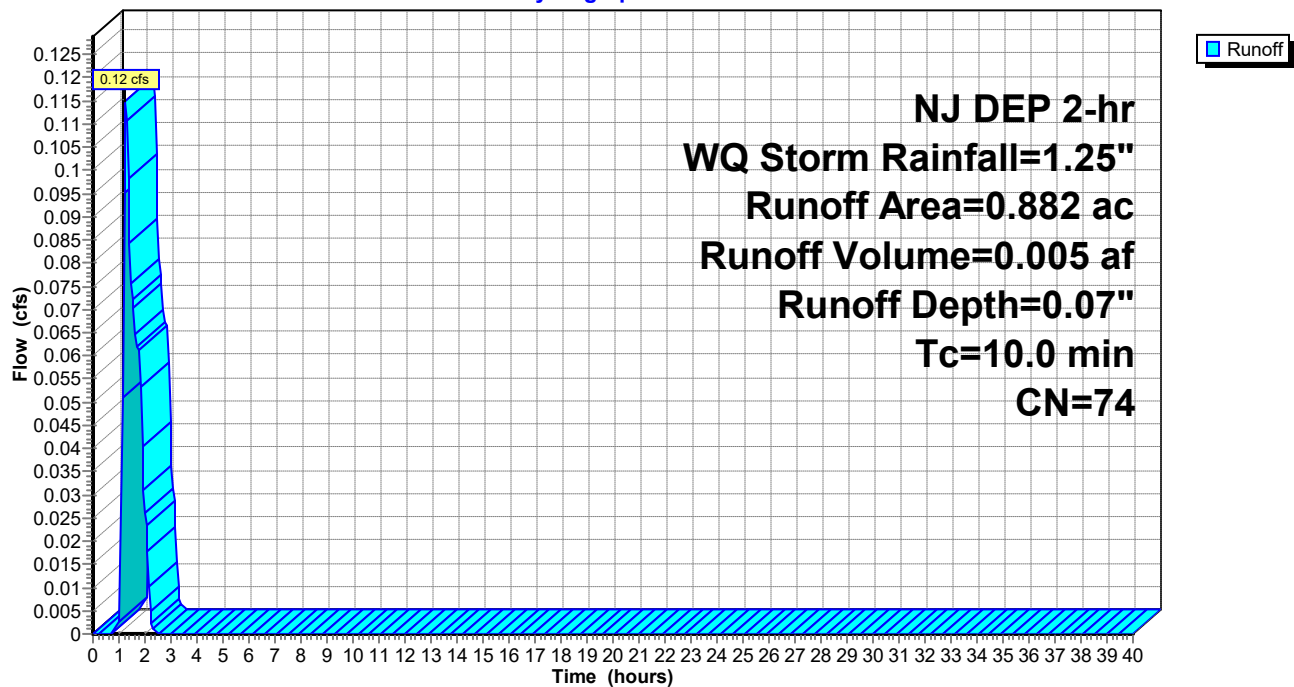
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (ac)	CN	Description
0.882	74	>75% Grass cover, Good, HSG C
0.882		100.00% Pervious Area

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

Subcatchment 28P: PDA-28 (pervious)

Hydrograph



Summary for Subcatchment UPDA-1: PDA-1 (undetained)

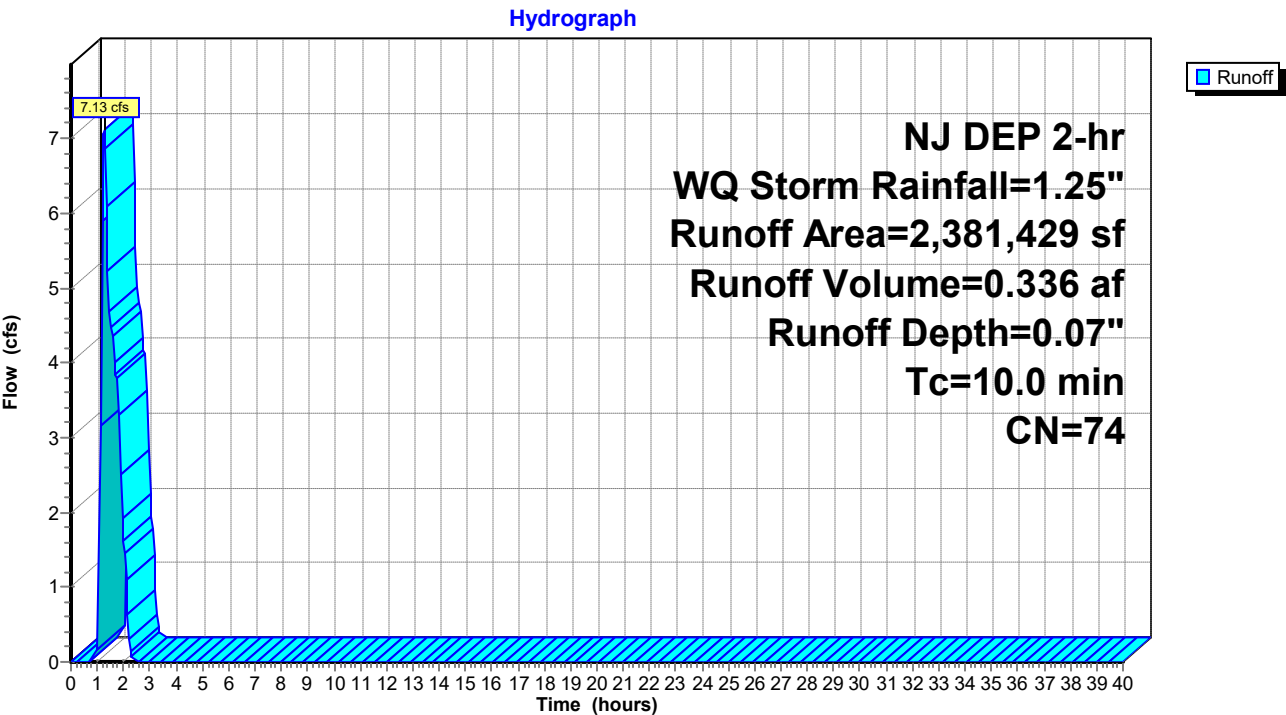
Runoff = 7.13 cfs @ 1.27 hrs, Volume= 0.336 af, Depth= 0.07"
Routed to Link PDA-1 : Proposed Drainage Area #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (sf)	CN	Description
2,381,429	74	>75% Grass cover, Good, HSG C
2,381,429		100.00% Pervious Area

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

Subcatchment UPDA-1: PDA-1 (undetained)



Summary for Subcatchment UPDA-2: PDA-2 (undetained)

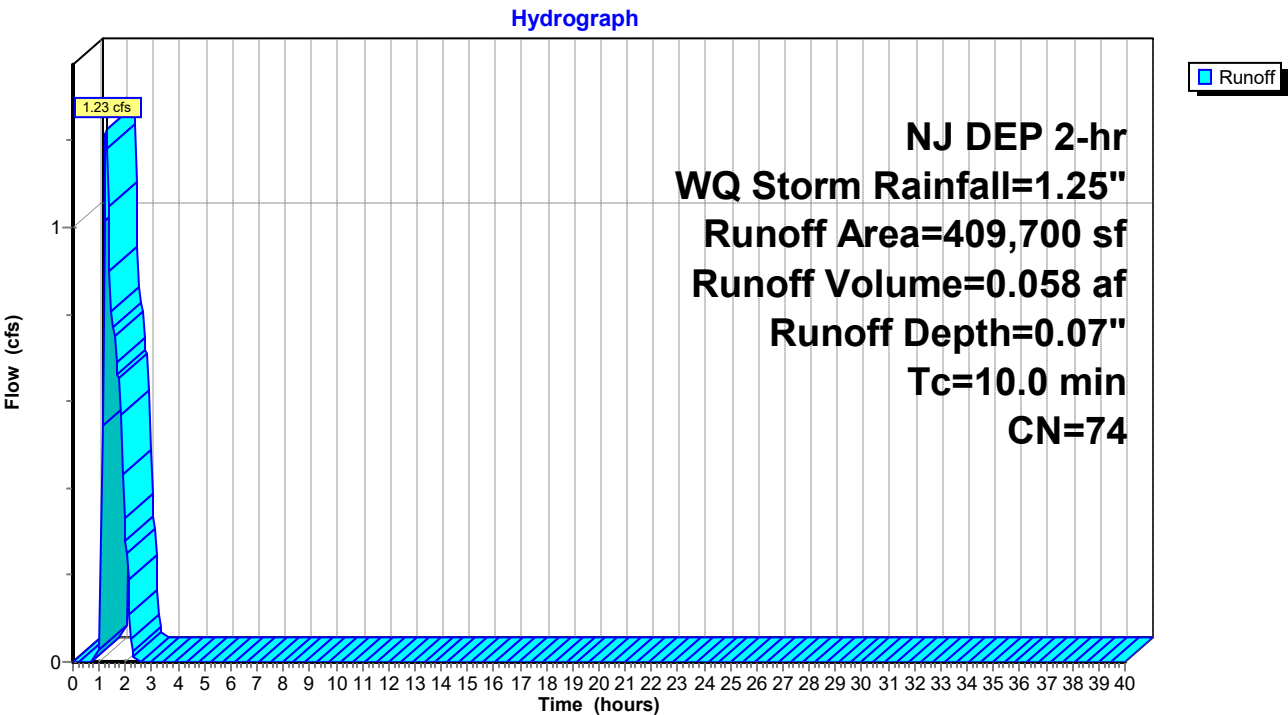
Runoff = 1.23 cfs @ 1.27 hrs, Volume= 0.058 af, Depth= 0.07"
Routed to Link PDA-2 : Proposed Drainage Area #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Storm Rainfall=1.25"

Area (sf)	CN	Description
409,700	74	>75% Grass cover, Good, HSG C
409,700		100.00% Pervious Area

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

Subcatchment UPDA-2: PDA-2 (undetained)



Summary for Pond B-1: Basin #1

Inflow Area = 2.485 ac, 4.79% Impervious, Inflow Depth = 0.12" for WQ Storm event
 Inflow = 0.53 cfs @ 1.22 hrs, Volume= 0.025 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 208.68' @ 2.60 hrs Surf.Area= 5,601 sf Storage= 1,078 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	208.30'	38,468 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.30	0	0	0
209.00	10,187	3,565	3,565
210.00	11,133	10,660	14,225
211.00	12,113	11,623	25,848
212.00	13,126	12,620	38,468

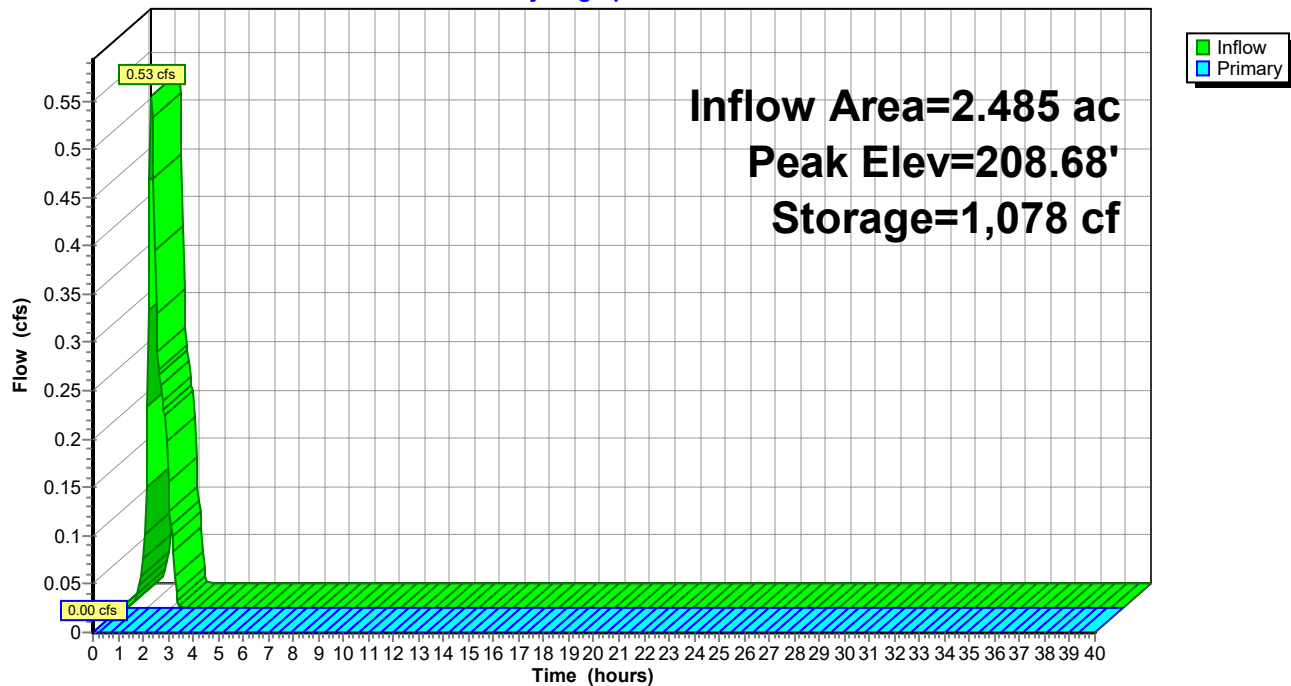
Device	Routing	Invert	Outlet Devices
#1	Primary	207.65'	18.0" Round Culvert L= 276.0' Ke= 0.500 Inlet / Outlet Invert= 207.65' / 204.00' S= 0.0132 ' /' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	209.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	209.67'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	210.80'	50.0' long + 3.0 ' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=208.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-1: Basin #1

Hydrograph



Summary for Pond B-10: Basin #10

Inflow Area = 1.674 ac, 56.63% Impervious, Inflow Depth = 0.62" for WQ Storm event
 Inflow = 2.48 cfs @ 1.15 hrs, Volume= 0.086 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.52' @ 2.60 hrs Surf.Area= 4,623 sf Storage= 3,754 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	178.30'	24,949 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.30	0	0	0
179.00	4,220	1,477	1,477
180.00	5,003	4,612	6,088
181.00	5,833	5,418	11,506
182.00	6,710	6,272	17,778
183.00	7,633	7,172	24,949

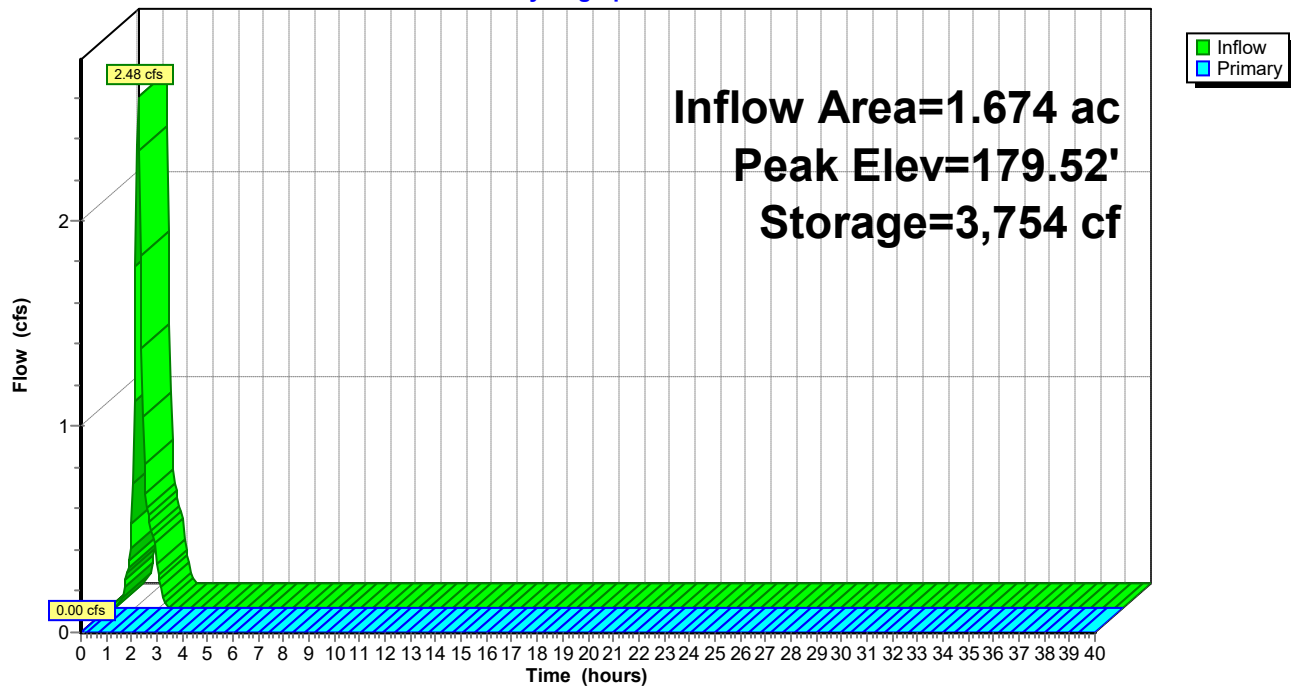
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 52.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 176.00' S= 0.0317 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.53'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	180.99'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.86'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=178.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-10: Basin #10

Hydrograph



Summary for Pond B-11: Basin #11

Inflow Area = 2.668 ac, 34.97% Impervious, Inflow Depth = 0.41" for WQ Storm event
 Inflow = 2.50 cfs @ 1.15 hrs, Volume= 0.091 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.46' @ 2.60 hrs Surf.Area= 5,124 sf Storage= 3,968 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	179.30'	44,897 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.30	0	0	0
180.00	4,780	1,673	1,673
181.00	5,522	5,151	6,824
182.00	6,306	5,914	12,738
183.00	7,135	6,721	19,458
184.00	8,007	7,571	27,029
185.00	8,923	8,465	35,494
186.00	9,882	9,403	44,897

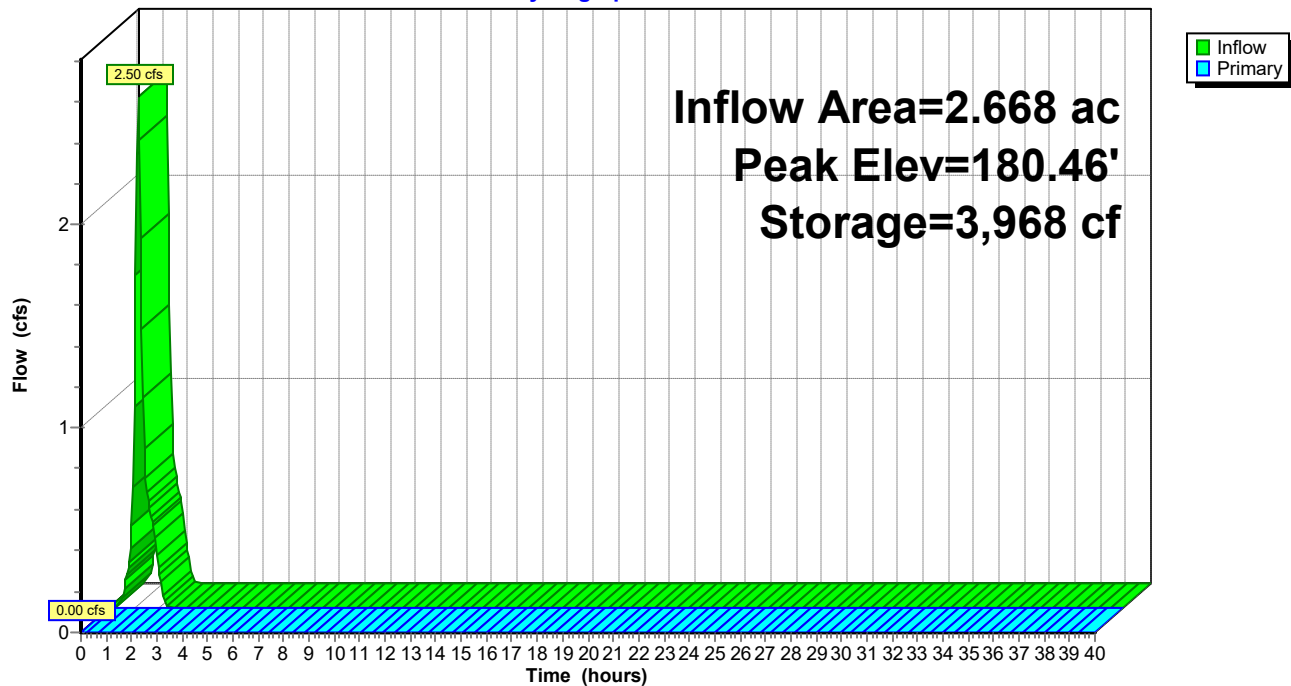
Device	Routing	Invert	Outlet Devices
#1	Primary	178.65'	18.0" Round Culvert L= 131.0' Ke= 0.500 Inlet / Outlet Invert= 178.65' / 178.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	180.47'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.35'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	183.91'	50.0' long + 3.0 ' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=179.30' (Free Discharge)

- 1=Culvert (Passes 0.00 cfs of 1.59 cfs potential flow)
- 2=Orifice/Grate (Controls 0.00 cfs)
- 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-11: Basin #11

Hydrograph



Summary for Pond B-12: Basin #12

Inflow Area = 2.004 ac, 68.31% Impervious, Inflow Depth = 0.73" for WQ Storm event
 Inflow = 3.56 cfs @ 1.15 hrs, Volume= 0.122 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 201.75' @ 2.60 hrs Surf.Area= 5,171 sf Storage= 5,311 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	200.30'	26,105 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.30	0	0	0
201.00	4,623	1,618	1,618
202.00	5,350	4,987	6,605
203.00	6,105	5,728	12,332
204.00	6,883	6,494	18,826
205.00	7,674	7,279	26,105

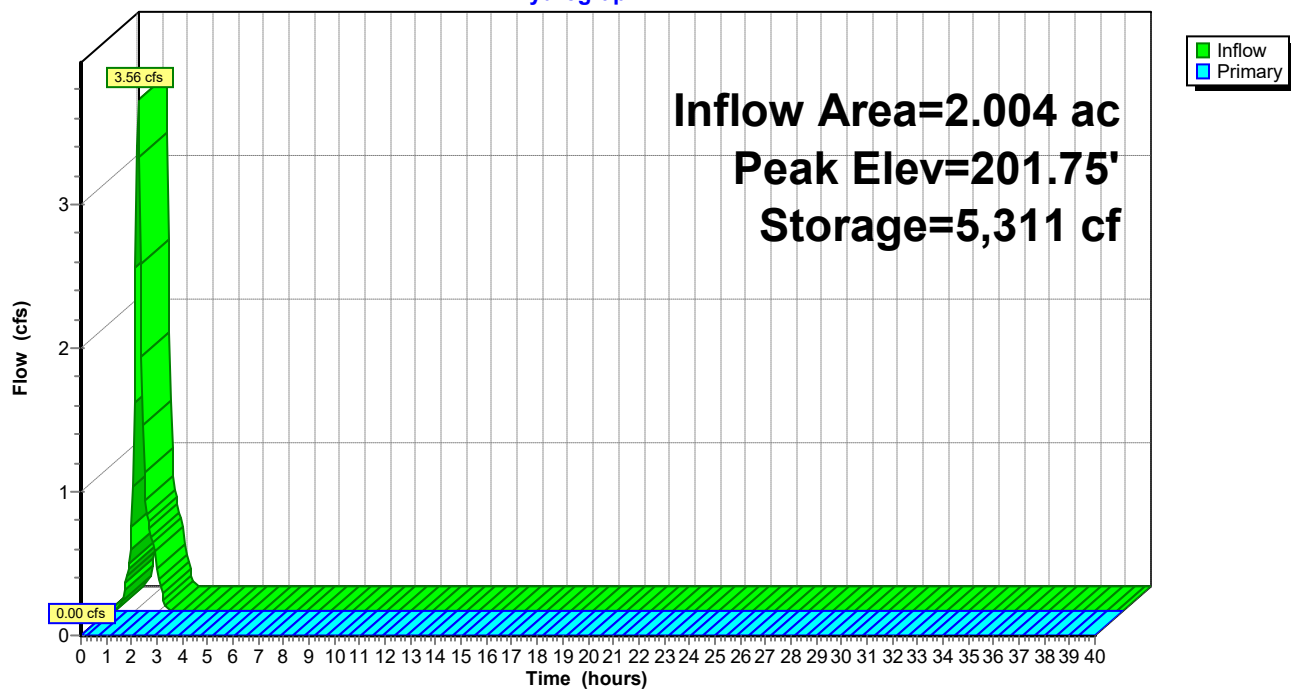
Device	Routing	Invert	Outlet Devices
#1	Primary	199.65'	18.0" Round Culvert L= 238.0' Ke= 0.500 Inlet / Outlet Invert= 199.65' / 195.50' S= 0.0174 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.76'	7.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	202.87'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	203.96'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=200.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-12: Basin #12

Hydrograph



Summary for Pond B-13: Basin #13

Inflow Area = 2.350 ac, 62.43% Impervious, Inflow Depth = 0.67" for WQ Storm event
 Inflow = 3.83 cfs @ 1.15 hrs, Volume= 0.132 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 192.36' @ 2.60 hrs Surf.Area= 8,276 sf Storage= 5,746 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	191.30'	41,458 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
191.30	0	0	0
192.00	7,975	2,791	2,791
193.00	8,804	8,390	11,181
194.00	9,654	9,229	20,410
195.00	10,522	10,088	30,498
196.00	11,399	10,961	41,458

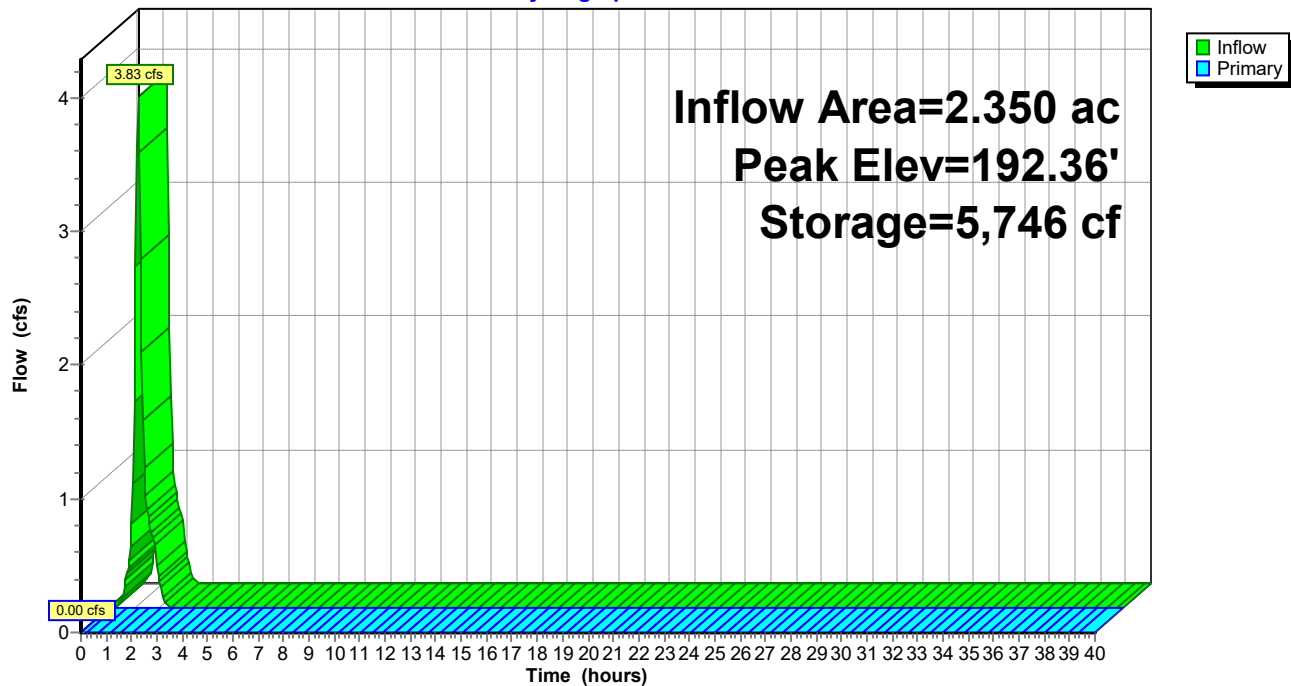
Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 57.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0465 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.37'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.96'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=191.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-13: Basin #13

Hydrograph



Summary for Pond B-14: Basin #14

Inflow Area = 2.148 ac, 23.65% Impervious, Inflow Depth = 0.30" for WQ Storm event
 Inflow = 1.41 cfs @ 1.16 hrs, Volume= 0.054 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 192.03' @ 2.60 hrs Surf.Area= 6,237 sf Storage= 2,347 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	191.30'	30,883 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
191.30	0	0	0
192.00	6,224	2,178	2,178
193.00	6,689	6,457	8,635
194.00	7,167	6,928	15,563
195.00	7,657	7,412	22,975
196.00	8,160	7,909	30,883

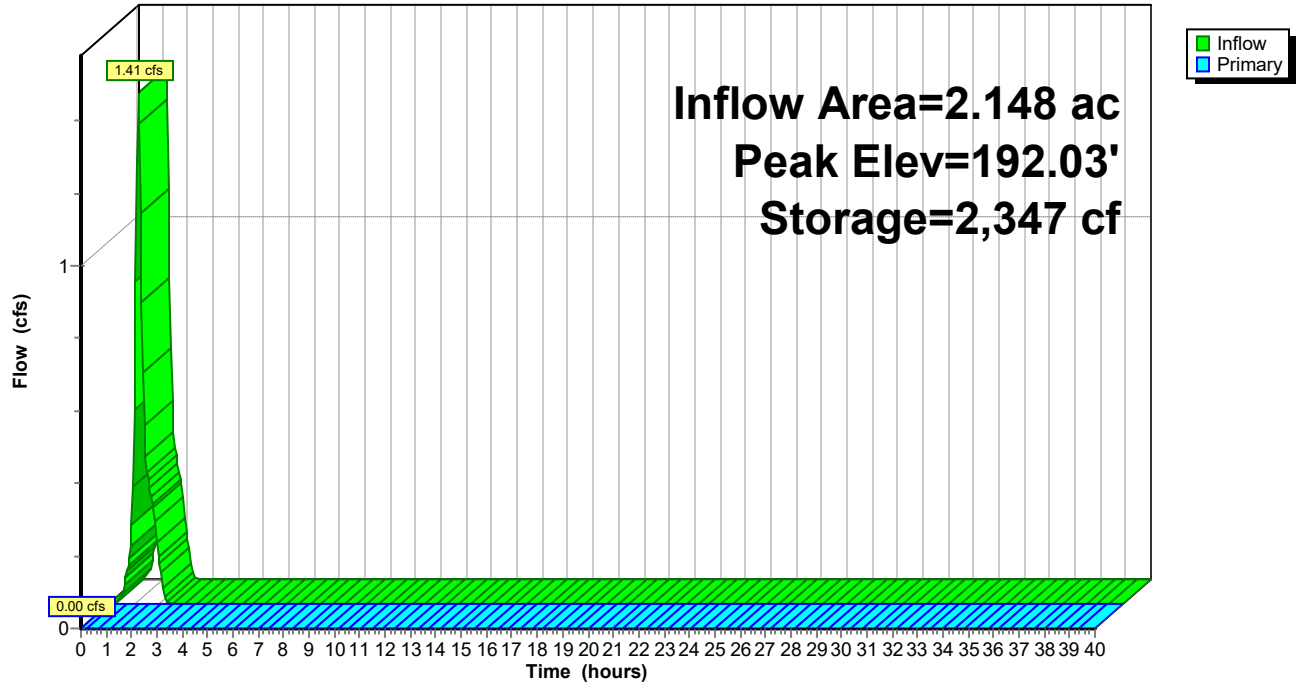
Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 194.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0137 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.04'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.27'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.44'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=191.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-14: Basin #14

Hydrograph



Summary for Pond B-15: Basin #15

Inflow Area = 2.365 ac, 58.73% Impervious, Inflow Depth = 0.64" for WQ Storm event
 Inflow = 3.63 cfs @ 1.15 hrs, Volume= 0.126 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 197.05' @ 2.60 hrs Surf.Area= 4,264 sf Storage= 5,478 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	195.30'	26,898 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
195.30	0	0	0
196.00	3,706	1,297	1,297
197.00	4,236	3,971	5,268
198.00	4,795	4,516	9,784
199.00	5,384	5,090	14,873
200.00	6,002	5,693	20,566
201.00	6,662	6,332	26,898

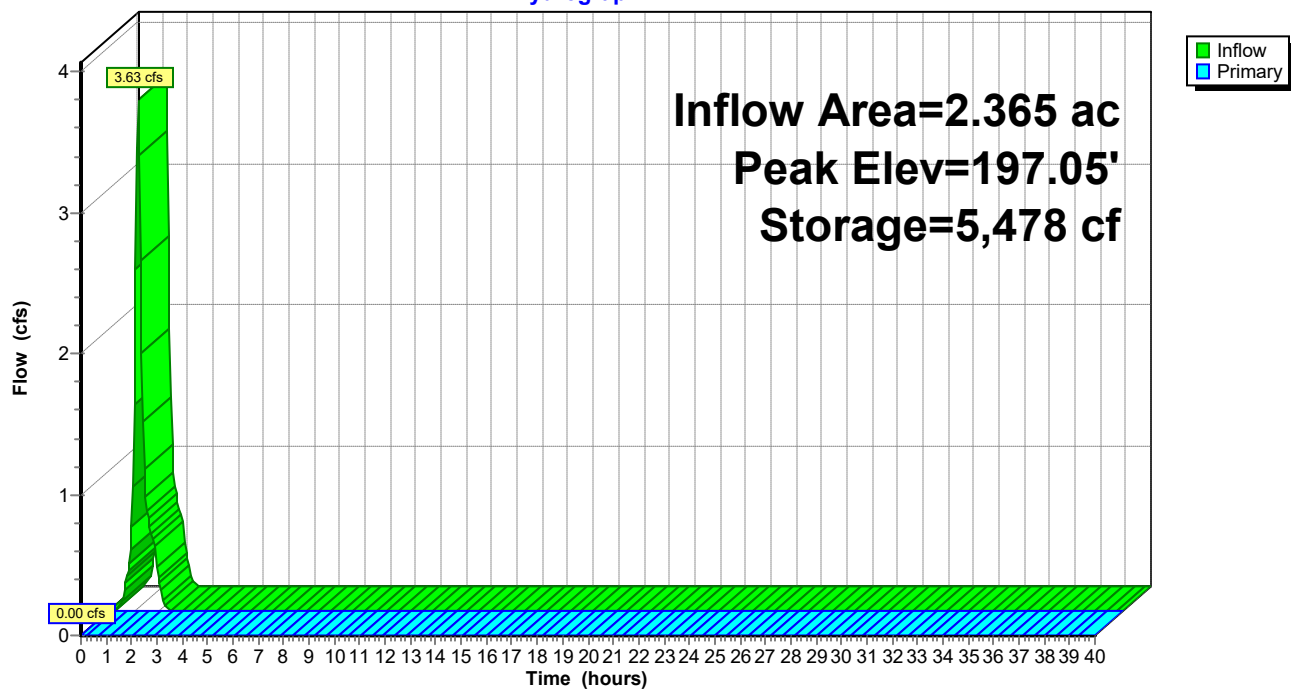
Device	Routing	Invert	Outlet Devices
#1	Primary	194.65'	18.0" Round Culvert L= 203.0' Ke= 0.500 Inlet / Outlet Invert= 194.65' / 192.00' S= 0.0131 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	197.06'	6.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	198.58'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.00'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=195.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-15: Basin #15

Hydrograph



Summary for Pond B-16: Basin #16

Inflow Area = 2.685 ac, 43.39% Impervious, Inflow Depth = 0.49" for WQ Storm event
 Inflow = 3.09 cfs @ 1.15 hrs, Volume= 0.110 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 178.12' @ 2.60 hrs Surf.Area= 10,232 sf Storage= 4,782 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	177.30'	51,430 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
177.30	0	0	0
178.00	10,122	3,543	3,543
179.00	11,022	10,572	14,115
180.00	11,951	11,487	25,601
181.00	12,907	12,429	38,030
182.00	13,893	13,400	51,430

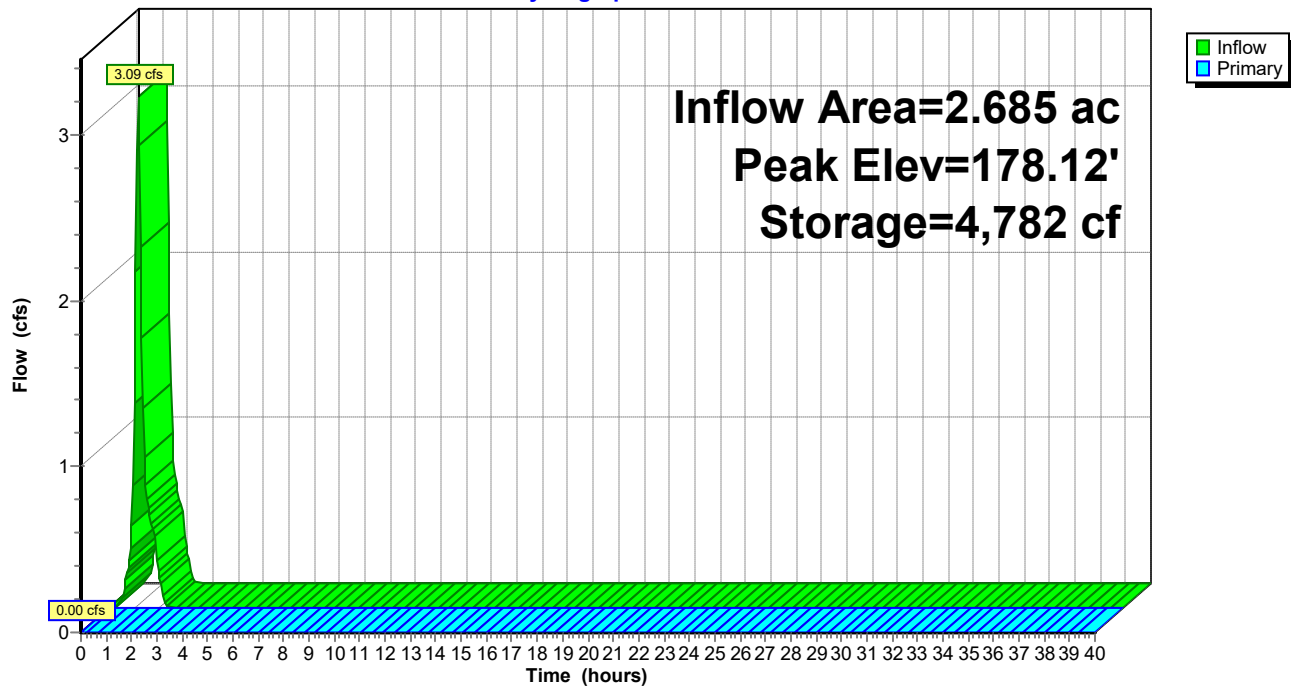
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	178.13'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.31'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.57'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=177.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16: Basin #16

Hydrograph



Summary for Pond B-17: Basin #17

Inflow Area = 2.791 ac, 34.54% Impervious, Inflow Depth = 0.41" for WQ Storm event
 Inflow = 2.59 cfs @ 1.15 hrs, Volume= 0.094 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 178.94' @ 2.60 hrs Surf.Area= 12,795 sf Storage= 4,107 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	178.30'	77,758 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.30	0	0	0
179.00	13,952	4,883	4,883
180.00	16,036	14,994	19,877
181.00	18,176	17,106	36,983
182.00	20,373	19,275	56,258
183.00	22,627	21,500	77,758

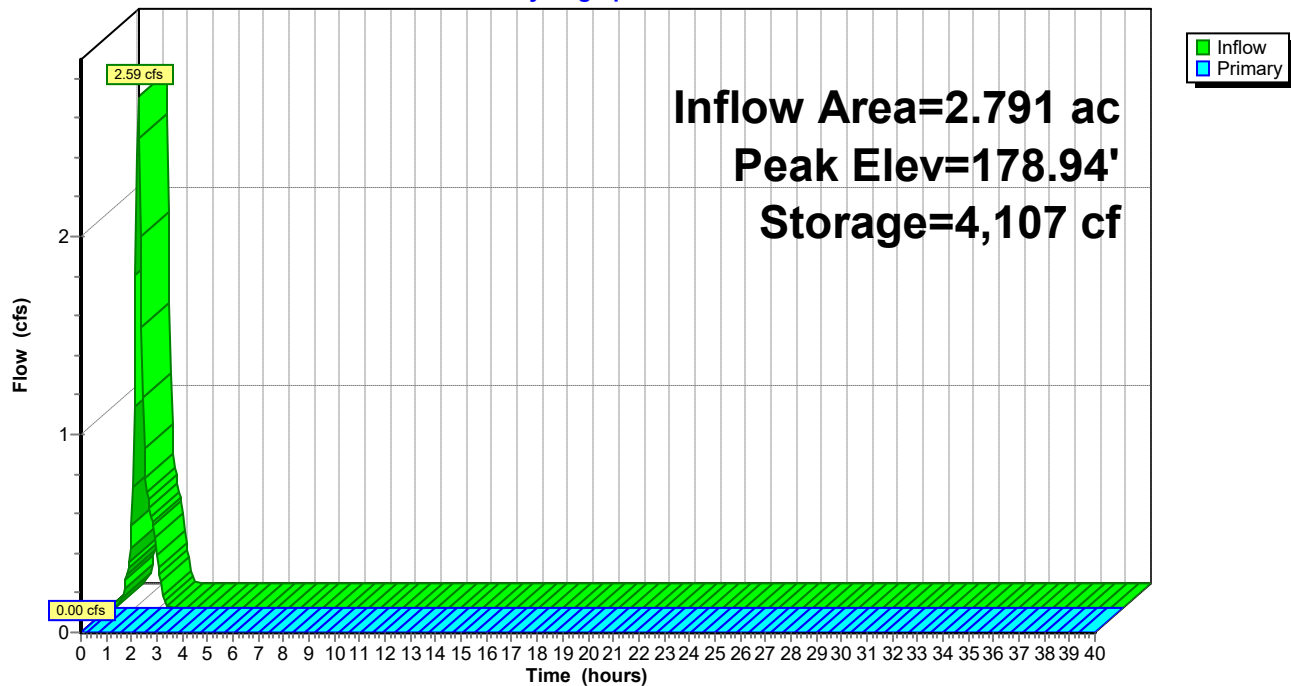
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	178.95'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.83'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.93'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=178.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-17: Basin #17

Hydrograph



Summary for Pond B-18: Basin #18

Inflow Area = 2.458 ac, 47.56% Impervious, Inflow Depth = 0.53" for WQ Storm event
 Inflow = 3.08 cfs @ 1.15 hrs, Volume= 0.109 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 197.46' @ 2.60 hrs Surf.Area= 2,674 sf Storage= 4,735 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	194.65'	18,838 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
194.65	0	0	0
195.00	1,068	187	187
196.00	1,693	1,381	1,567
197.00	2,352	2,023	3,590
198.00	3,059	2,706	6,295
199.00	3,788	3,424	9,719
200.00	4,551	4,170	13,888
201.00	5,348	4,950	18,838

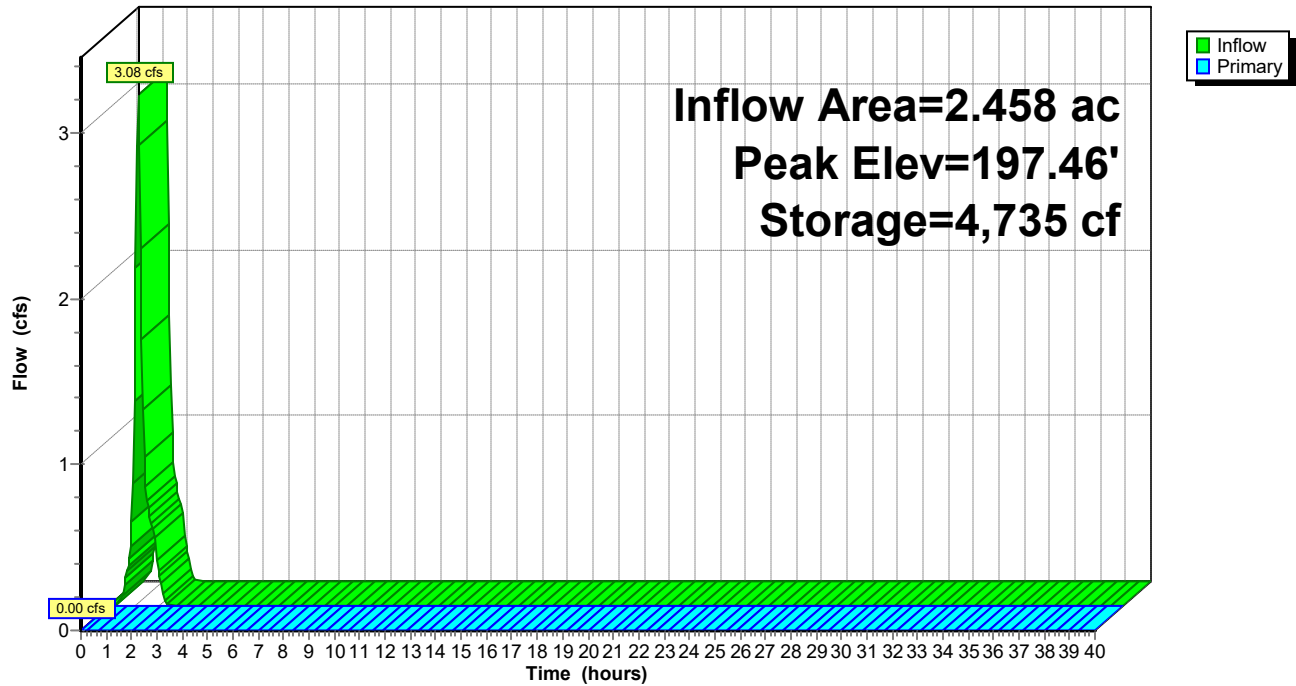
Device	Routing	Invert	Outlet Devices
#1	Primary	194.65'	18.0" Round Culvert L= 102.0' Ke= 0.500 Inlet / Outlet Invert= 194.65' / 194.14' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	197.47'	20.0" W x 6.5" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	198.51'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.00'	50.0' long + 3.0' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=194.65' (Free Discharge)

1=Culvert (Controls 0.00 cfs)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-18: Basin #18

Hydrograph



Summary for Pond B-19: Basin #19

Inflow Area = 0.934 ac, 40.79% Impervious, Inflow Depth = 0.47" for WQ Storm event
 Inflow = 1.01 cfs @ 1.15 hrs, Volume= 0.036 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 202.34' @ 2.60 hrs Surf.Area= 2,465 sf Storage= 1,579 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	201.30'	10,696 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.30	0	0	0
202.00	2,224	778	778
203.00	2,930	2,577	3,355
204.00	3,663	3,297	6,652
205.00	4,425	4,044	10,696

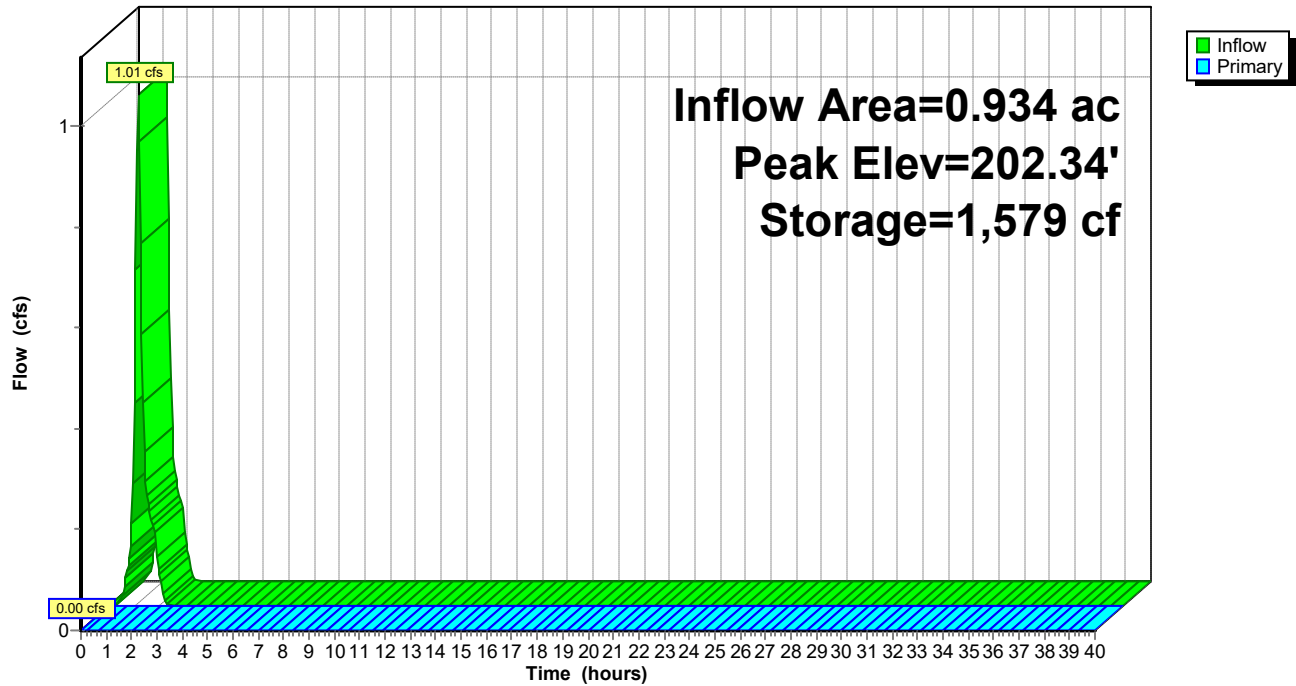
Device	Routing	Invert	Outlet Devices
#1	Primary	200.65'	18.0" Round Culvert L= 214.0' Ke= 0.500 Inlet / Outlet Invert= 200.65' / 199.57' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	202.35'	4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.29'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	203.98'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=201.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 1.63 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-19: Basin #19

Hydrograph



Summary for Pond B-2: Basin #2

Inflow Area = 1.865 ac, 43.43% Impervious, Inflow Depth = 0.49" for WQ Storm event
 Inflow = 2.15 cfs @ 1.15 hrs, Volume= 0.076 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 209.09' @ 2.60 hrs Surf.Area= 7,587 sf Storage= 3,324 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	208.30'	29,385 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.30	0	0	0
209.00	7,501	2,625	2,625
210.00	8,431	7,966	10,591
211.00	9,390	8,911	19,502
212.00	10,376	9,883	29,385

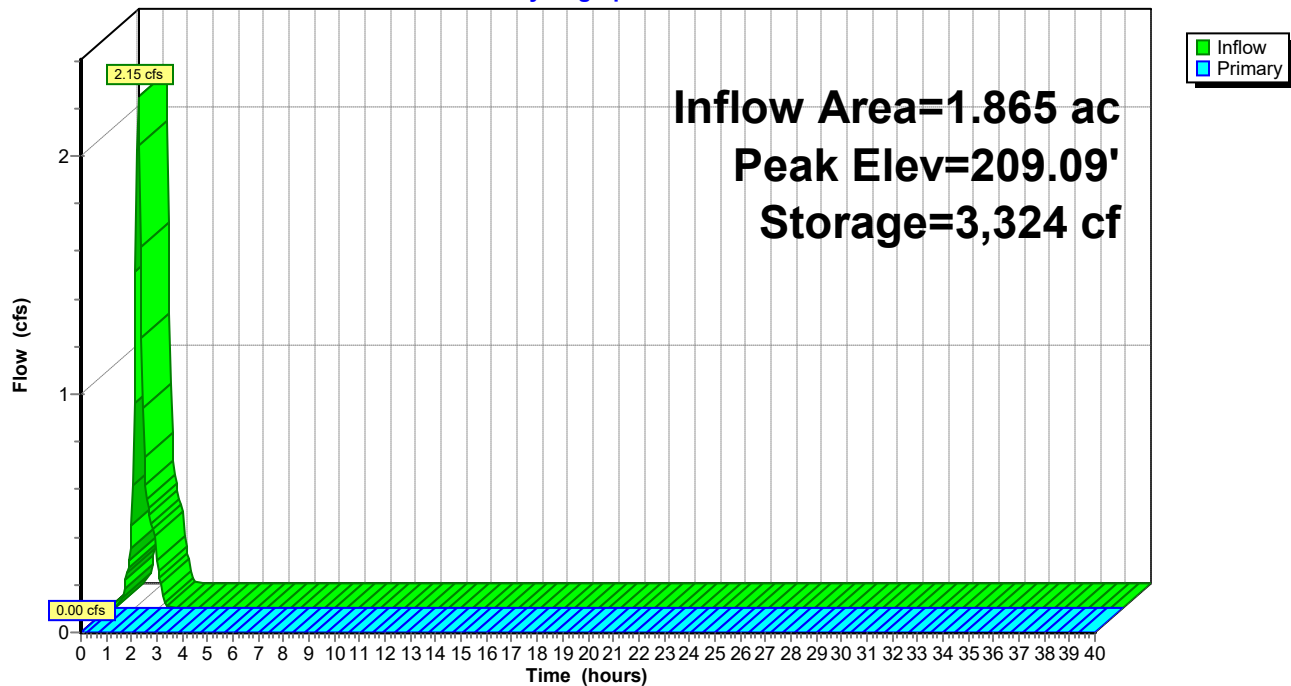
Device	Routing	Invert	Outlet Devices
#1	Primary	207.65'	18.0" Round Culvert L= 202.0' Ke= 0.500 Inlet / Outlet Invert= 207.65' / 204.00' S= 0.0181 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	209.10'	3.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	210.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	211.00'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=208.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-2: Basin #2

Hydrograph



Summary for Pond B-20: Basin #20

Inflow Area = 2.679 ac, 47.56% Impervious, Inflow Depth = 0.53" for WQ Storm event
 Inflow = 3.36 cfs @ 1.15 hrs, Volume= 0.118 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 151.77' @ 2.60 hrs Surf.Area= 6,524 sf Storage= 5,161 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	150.87'	35,230 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.87	0	0	0
151.00	5,926	385	385
152.00	6,706	6,316	6,701
153.00	7,514	7,110	13,811
154.00	8,347	7,931	21,742
155.00	9,205	8,776	30,518
155.50	9,643	4,712	35,230

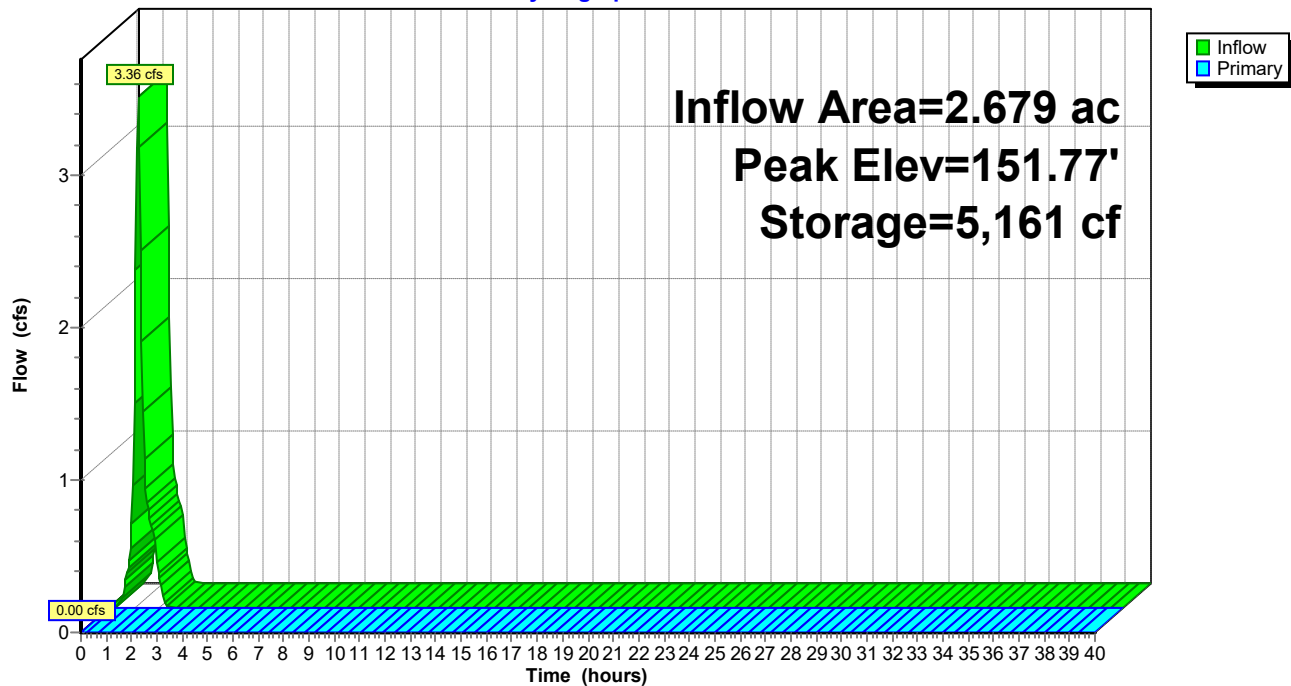
Device	Routing	Invert	Outlet Devices
#1	Primary	150.87'	18.0" Round Culvert L= 174.0' Ke= 0.500 Inlet / Outlet Invert= 150.87' / 150.00' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	151.78'	20.0" W x 7.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	152.53'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	154.32'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.87' (Free Discharge)

1=Culvert (Controls 0.00 cfs)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-20: Basin #20

Hydrograph



Summary for Pond B-21: Basin #21

Inflow Area = 2.680 ac, 41.60% Impervious, Inflow Depth = 0.47" for WQ Storm event
 Inflow = 2.96 cfs @ 1.15 hrs, Volume= 0.106 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 150.83' @ 2.60 hrs Surf.Area= 5,622 sf Storage= 4,606 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	149.90'	42,109 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
149.90	0	0	0
150.00	4,848	242	242
151.00	5,776	5,312	5,554
152.00	6,761	6,269	11,823
153.00	7,802	7,282	19,104
154.00	8,900	8,351	27,455
155.00	10,054	9,477	36,932
155.50	10,653	5,177	42,109

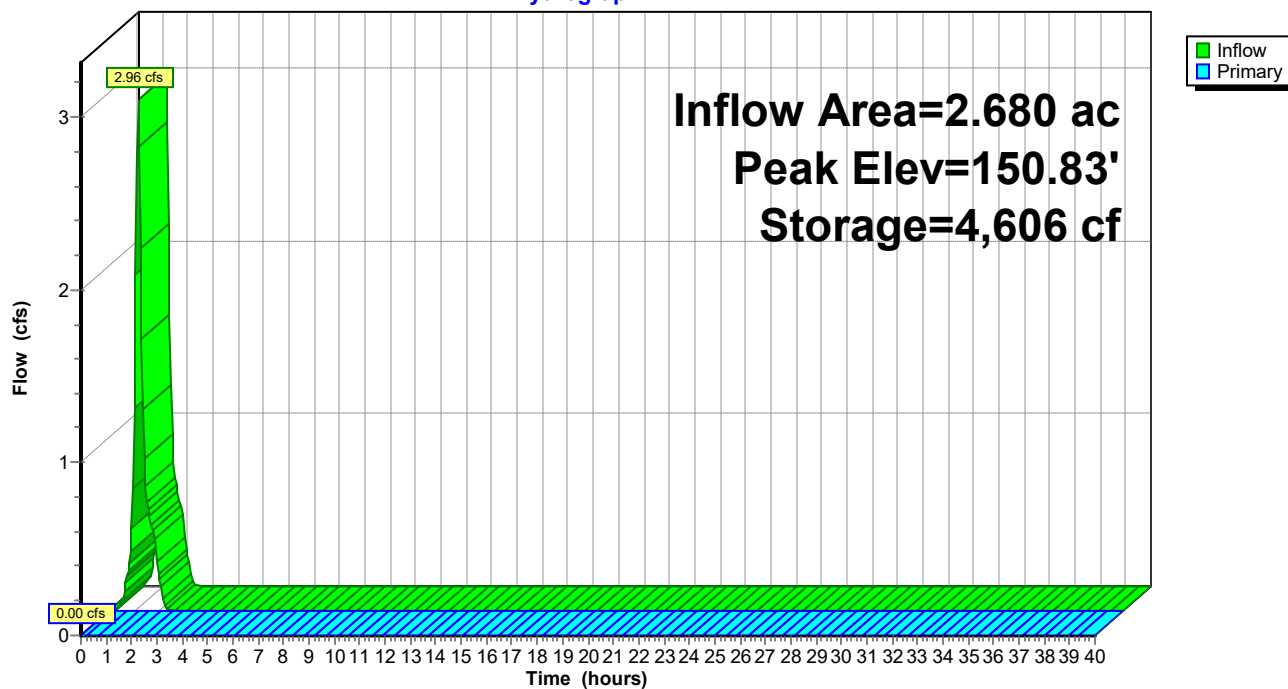
Device	Routing	Invert	Outlet Devices
#1	Primary	149.90'	18.0" Round Culvert L= 182.0' Ke= 0.500 Inlet / Outlet Invert= 149.90' / 149.00' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	150.84'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	152.65'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	154.16'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=149.90' (Free Discharge)

1=Culvert (Controls 0.00 cfs)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-21: Basin #21

Hydrograph



Summary for Pond B-22: Basin #22

Inflow Area = 2.743 ac, 30.19% Impervious, Inflow Depth = 0.36" for WQ Storm event
 Inflow = 2.24 cfs @ 1.16 hrs, Volume= 0.083 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 148.17' @ 2.60 hrs Surf.Area= 7,100 sf Storage= 3,622 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	147.30'	50,528 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.30	0	0	0
148.00	6,928	2,425	2,425
149.00	7,937	7,433	9,857
150.00	9,003	8,470	18,327
151.00	10,125	9,564	27,891
152.00	11,304	10,715	38,606
153.00	12,540	11,922	50,528

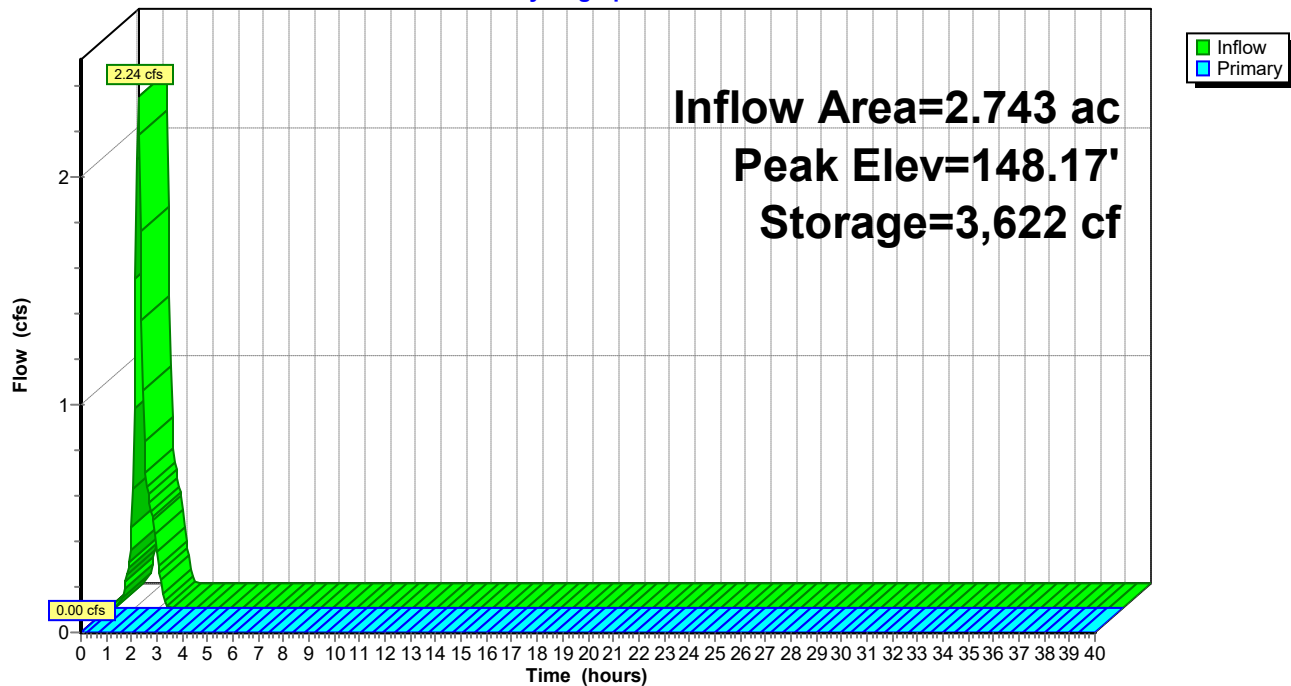
Device	Routing	Invert	Outlet Devices
#1	Primary	147.30'	18.0" Round Culvert L= 169.0' Ke= 0.500 Inlet / Outlet Invert= 147.30' / 146.00' S= 0.0077 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	148.18'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	149.63'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	151.18'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.30' (Free Discharge)

1=Culvert (Controls 0.00 cfs)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-22: Basin #22

Hydrograph



Summary for Pond B-23: Basin #23

Inflow Area = 1.511 ac, 66.64% Impervious, Inflow Depth = 0.71" for WQ Storm event
 Inflow = 2.62 cfs @ 1.15 hrs, Volume= 0.090 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 145.35' @ 2.60 hrs Surf.Area= 5,867 sf Storage= 3,917 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	23,175 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.30	0	0	0
145.00	5,512	1,929	1,929
146.00	6,527	6,020	7,949
147.00	7,599	7,063	15,012
148.00	8,727	8,163	23,175

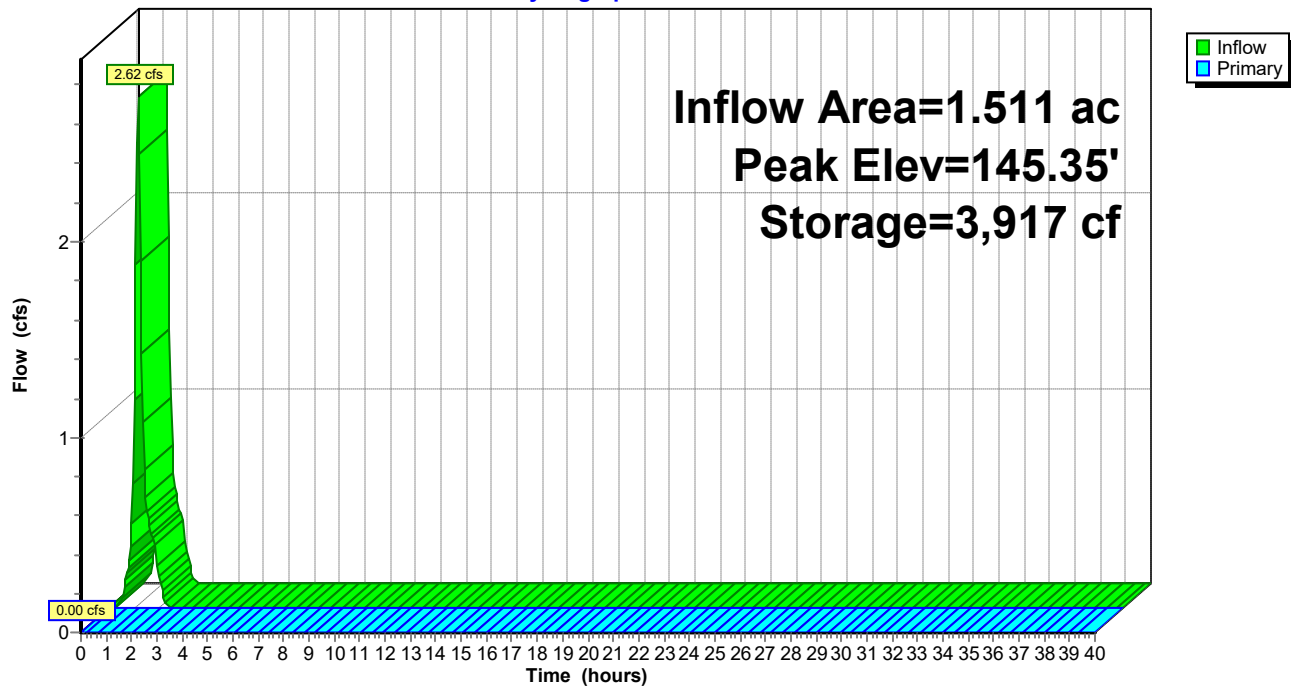
Device	Routing	Invert	Outlet Devices
#1	Primary	144.30'	18.0" Round Culvert L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 144.30' / 144.00' S= 0.0115 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	145.36'	7.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.14'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.00'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.30' (Free Discharge)

1=Culvert (Controls 0.00 cfs)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-23: Basin #23

Hydrograph



Summary for Pond B-24: Basin #24

Inflow Area = 2.739 ac, 44.80% Impervious, Inflow Depth = 0.50" for WQ Storm event
 Inflow = 3.25 cfs @ 1.15 hrs, Volume= 0.115 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 145.33' @ 2.60 hrs Surf.Area= 7,656 sf Storage= 5,013 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	40,061 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.30	0	0	0
145.00	7,331	2,566	2,566
146.00	8,327	7,829	10,395
147.00	9,353	8,840	19,235
148.00	10,406	9,880	29,114
149.00	11,488	10,947	40,061

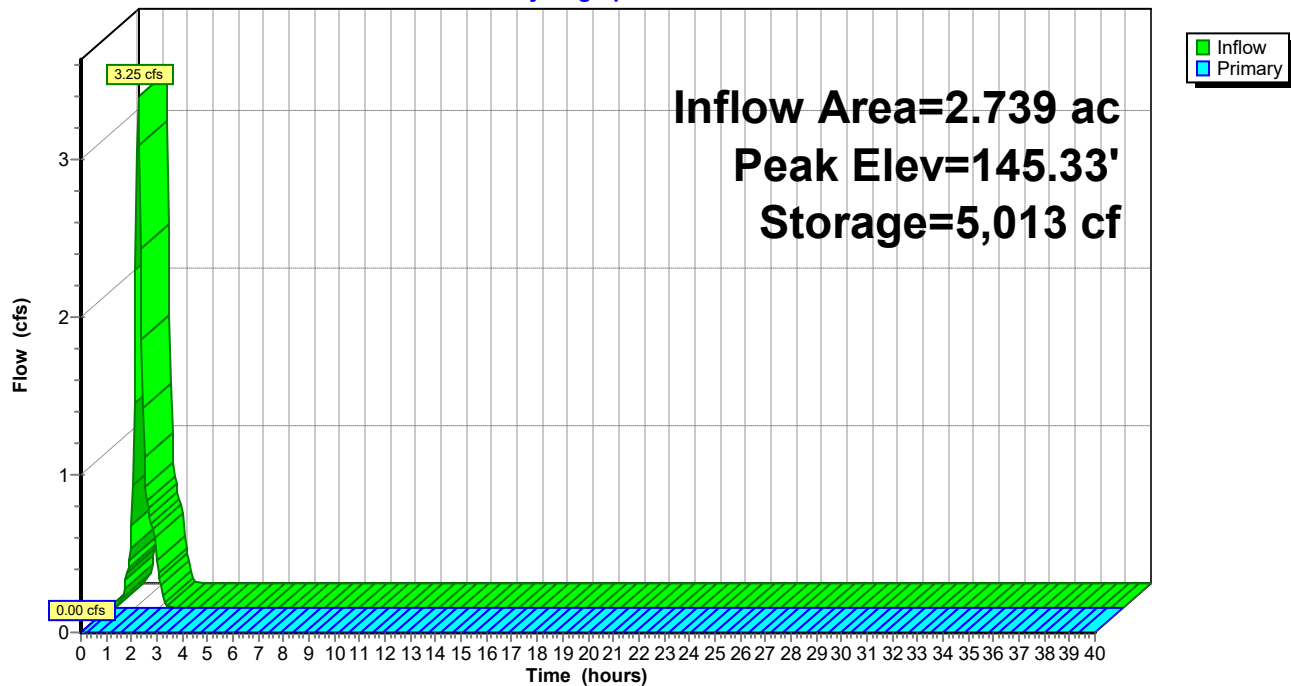
Device	Routing	Invert	Outlet Devices
#1	Primary	144.30'	18.0" Round Culvert L= 59.0' Ke= 0.500 Inlet / Outlet Invert= 144.30' / 144.00' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	145.34'	5.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.49'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.99'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.30' (Free Discharge)

1=Culvert (Controls 0.00 cfs)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-24: Basin #24

Hydrograph



Summary for Pond B-25: Basin #25

Inflow Area = 2.736 ac, 43.02% Impervious, Inflow Depth = 0.49" for WQ Storm event
 Inflow = 3.12 cfs @ 1.15 hrs, Volume= 0.111 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 144.64' @ 2.60 hrs Surf.Area= 5,267 sf Storage= 4,838 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	36,587 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.30	0	0	0
144.00	4,702	1,646	1,646
145.00	5,584	5,143	6,789
146.00	6,492	6,038	12,827
147.00	7,428	6,960	19,787
148.00	8,393	7,911	27,697
149.00	9,386	8,890	36,587

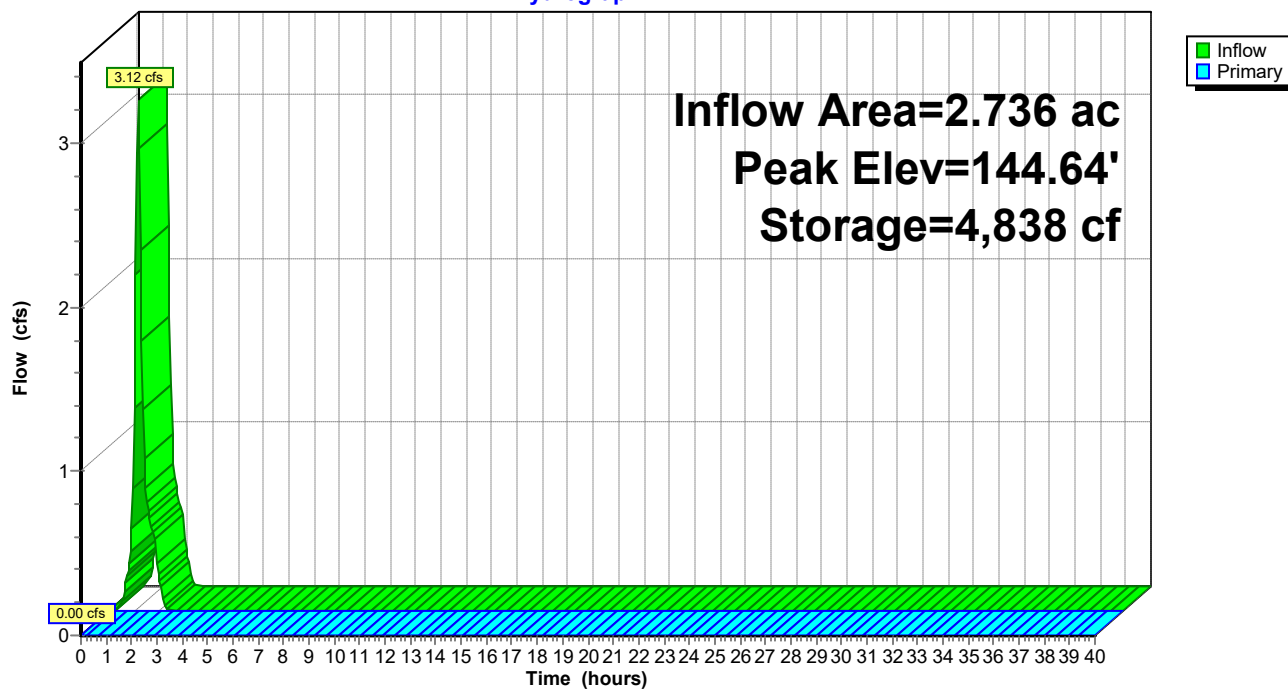
Device	Routing	Invert	Outlet Devices
#1	Primary	143.30'	18.0" Round Culvert L= 186.0' Ke= 0.500 Inlet / Outlet Invert= 143.30' / 142.00' S= 0.0070 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	144.65'	4.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.21'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.96'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=143.30' (Free Discharge)

- 1=Culvert (Controls 0.00 cfs)
- 2=Orifice/Grate (Controls 0.00 cfs)
- 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-25: Basin #25

Hydrograph



Summary for Pond B-26: Basin #26

Inflow Area = 2.687 ac, 36.06% Impervious, Inflow Depth = 0.42" for WQ Storm event
 Inflow = 2.59 cfs @ 1.15 hrs, Volume= 0.094 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 144.39' @ 2.60 hrs Surf.Area= 5,716 sf Storage= 4,099 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	36,073 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.30	0	0	0
144.00	5,522	1,933	1,933
145.00	6,025	5,774	7,706
146.00	6,547	6,286	13,992
147.00	7,081	6,814	20,806
148.00	7,630	7,356	28,162
149.00	8,193	7,912	36,073

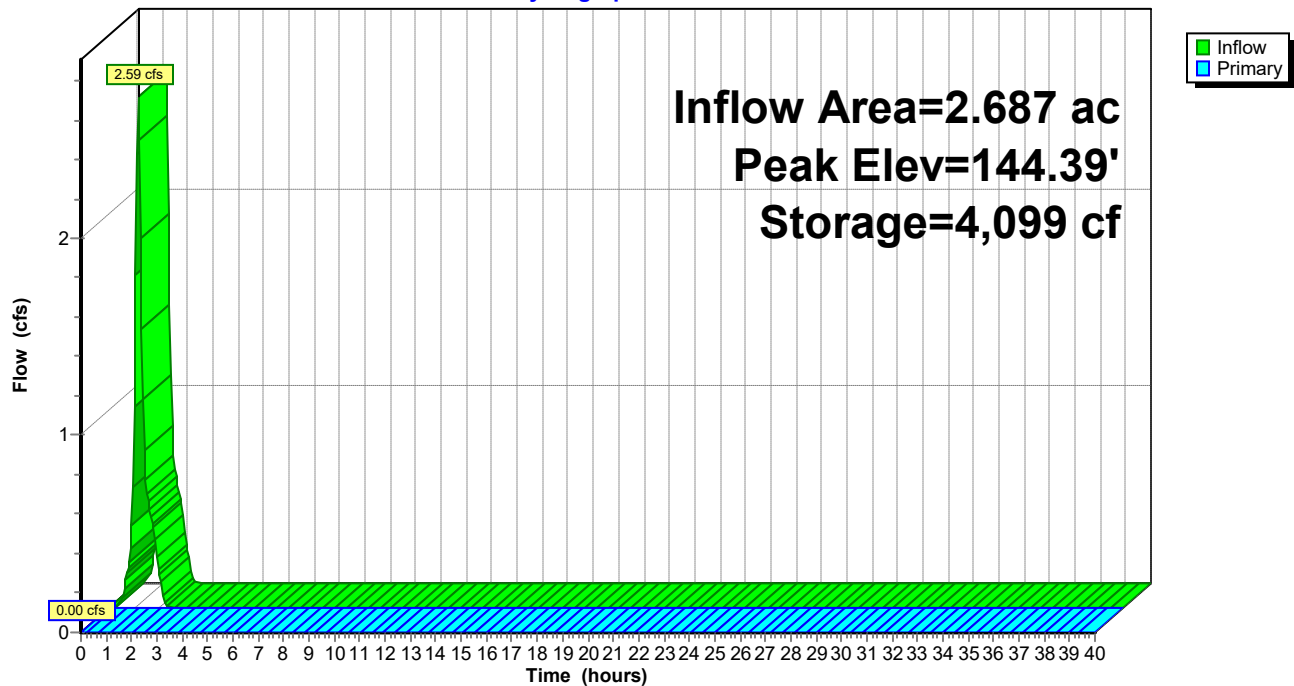
Device	Routing	Invert	Outlet Devices
#1	Primary	143.30'	18.0" Round Culvert L= 234.0' Ke= 0.500 Inlet / Outlet Invert= 143.30' / 142.00' S= 0.0056 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	144.40'	3.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.09'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.98'	50.0' long + 3.0' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=143.30' (Free Discharge)

1=Culvert (Controls 0.00 cfs)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-26: Basin #26

Hydrograph



Summary for Pond B-27: Basin #27

Inflow Area = 2.414 ac, 48.22% Impervious, Inflow Depth = 0.54" for WQ Storm event
 Inflow = 3.07 cfs @ 1.15 hrs, Volume= 0.108 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 184.11' @ 2.60 hrs Surf.Area= 2,559 sf Storage= 4,706 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	180.30'	14,865 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
180.30	0	0	0
181.00	245	86	86
182.00	1,153	699	785
183.00	1,819	1,486	2,271
184.00	2,484	2,152	4,422
185.00	3,149	2,817	7,239
186.00	3,813	3,481	10,720
187.00	4,478	4,146	14,865

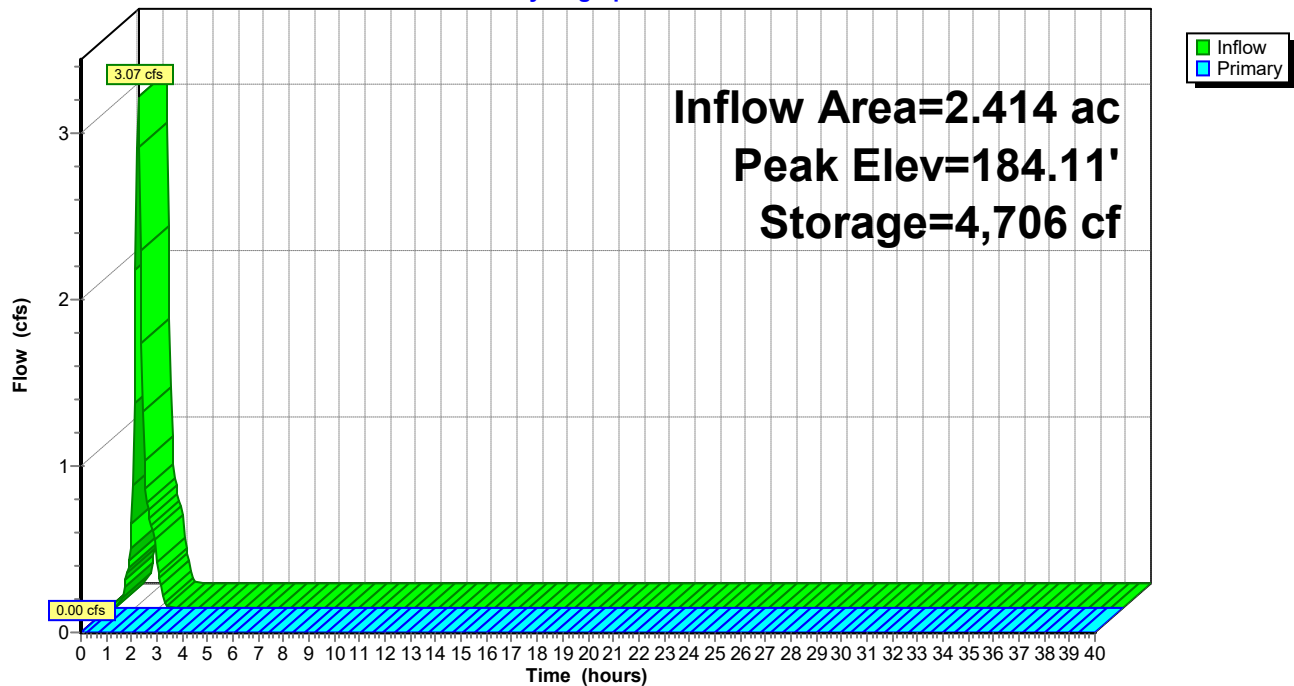
Device	Routing	Invert	Outlet Devices
#1	Primary	179.65'	18.0" Round Culvert L= 194.0' Ke= 0.500 Inlet / Outlet Invert= 179.65' / 170.25' S= 0.0485 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	184.12'	26.0" W x 7.5" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.96'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	186.00'	50.0' long + 3.0' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=180.30' (Free Discharge)

- 1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
- 2=Orifice/Grate (Controls 0.00 cfs)
- 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-27: Basin #27

Hydrograph



Summary for Pond B-28: Basin #28

Inflow Area = 1.917 ac, 53.99% Impervious, Inflow Depth = 0.59" for WQ Storm event
 Inflow = 2.72 cfs @ 1.15 hrs, Volume= 0.095 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 178.44' @ 2.60 hrs Surf.Area= 2,897 sf Storage= 4,123 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	176.30'	13,936 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
176.30	0	0	0
177.00	1,909	668	668
178.00	2,585	2,247	2,915
179.00	3,292	2,939	5,854
180.00	4,033	3,663	9,516
181.00	4,806	4,420	13,936

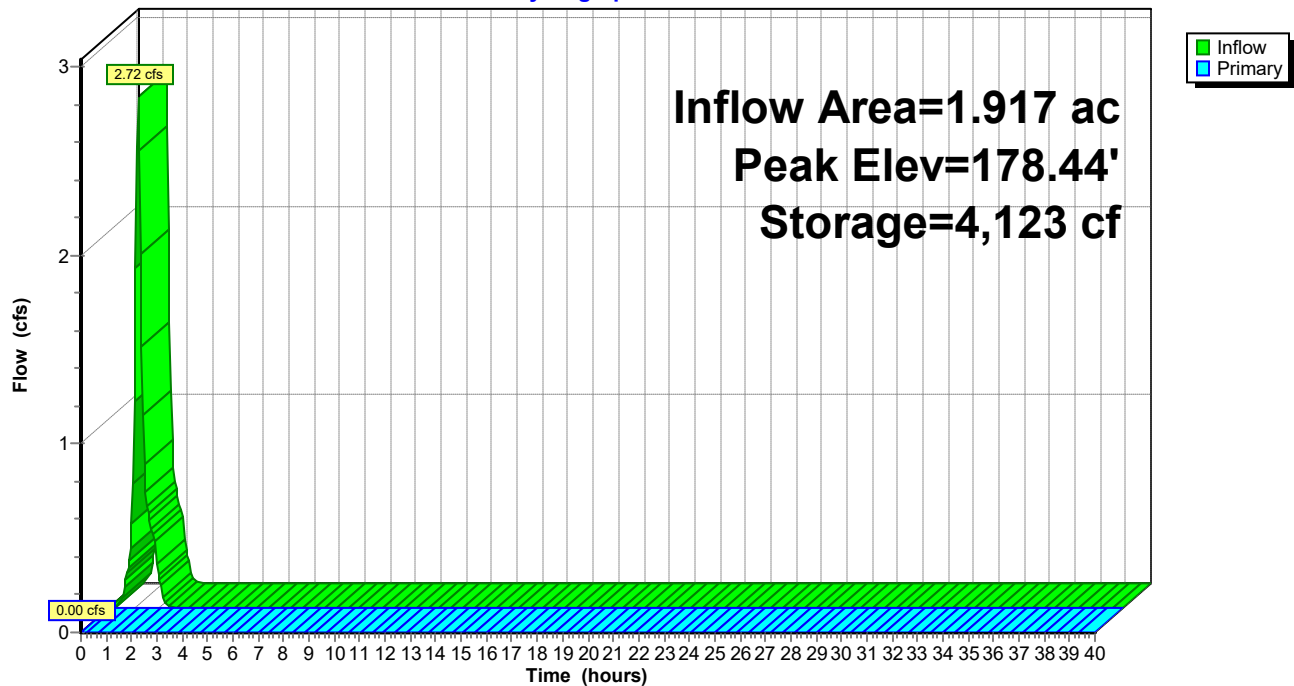
Device	Routing	Invert	Outlet Devices
#1	Primary	175.65'	18.0" Round Culvert L= 186.0' Ke= 0.500 Inlet / Outlet Invert= 175.65' / 168.80' S= 0.0368 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	178.45'	30.0" W x 9.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.09'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	179.84'	50.0' long + 3.0' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=176.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-28: Basin #28

Hydrograph



Summary for Pond B-3: Basin #3

Inflow Area = 2.904 ac, 42.80% Impervious, Inflow Depth = 0.49" for WQ Storm event
 Inflow = 3.30 cfs @ 1.15 hrs, Volume= 0.117 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 213.16' @ 2.60 hrs Surf.Area= 10,436 sf Storage= 5,112 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	212.30'	67,257 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.30	0	0	0
213.00	9,992	3,497	3,497
214.00	12,803	11,398	14,895
215.00	15,792	14,298	29,192
216.00	18,977	17,385	46,577
217.00	22,384	20,681	67,257

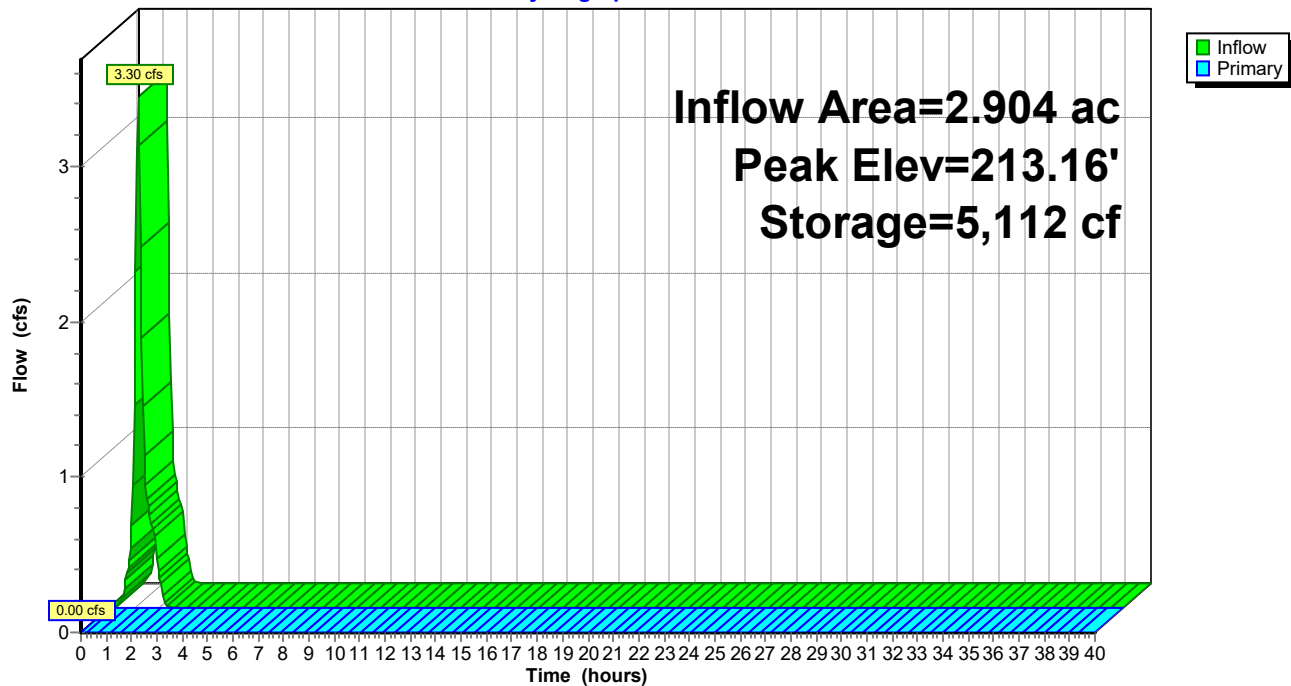
Device	Routing	Invert	Outlet Devices
#1	Primary	212.65'	18.0" Round Culvert L= 122.0' Ke= 0.500 Inlet / Outlet Invert= 212.65' / 204.00' S= 0.0709 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	214.00'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	214.50'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	215.70'	50.0' long + 3.0 ' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=212.30' (Free Discharge)

1=Culvert (Controls 0.00 cfs)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-3: Basin #3

Hydrograph



Summary for Pond B-4: Basin #4

Inflow Area = 2.725 ac, 24.99% Impervious, Inflow Depth = 0.31" for WQ Storm event
 Inflow = 1.88 cfs @ 1.16 hrs, Volume= 0.071 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 200.07' @ 2.60 hrs Surf.Area= 7,507 sf Storage= 3,105 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	199.30'	72,824 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.30	0	0	0
200.00	7,419	2,597	2,597
201.00	8,712	8,066	10,662
202.00	10,094	9,403	20,065
203.00	11,557	10,826	30,891
204.00	13,100	12,329	43,219
205.00	14,725	13,913	57,132
206.00	16,659	15,692	72,824

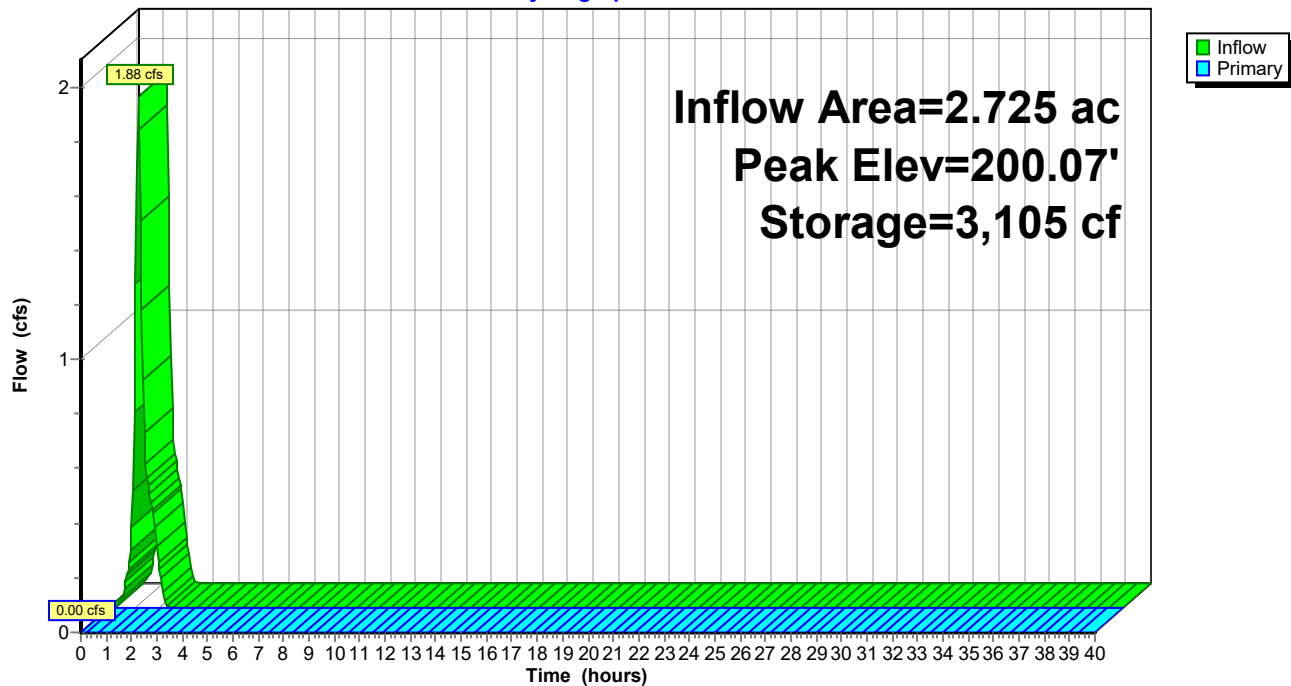
Device	Routing	Invert	Outlet Devices
#1	Primary	198.65'	18.0" Round Culvert L= 58.0' Ke= 0.500 Inlet / Outlet Invert= 198.65' / 198.00' S= 0.0112 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	200.08'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	201.38'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	202.68'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=199.30' (Free Discharge)

- 1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
- 2=Orifice/Grate (Controls 0.00 cfs)
- 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-4: Basin #4

Hydrograph



Summary for Pond B-5: Basin #5

Inflow Area = 1.419 ac, 34.60% Impervious, Inflow Depth = 0.41" for WQ Storm event
 Inflow = 1.32 cfs @ 1.15 hrs, Volume= 0.048 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 199.80' @ 2.60 hrs Surf.Area= 8,334 sf Storage= 2,090 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	199.30'	96,047 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.30	0	0	0
200.00	11,631	4,071	4,071
201.00	12,798	12,215	16,285
202.00	14,009	13,404	29,689
203.00	15,262	14,636	44,324
204.00	16,558	15,910	60,234
205.00	17,896	17,227	77,461
206.00	19,275	18,586	96,047

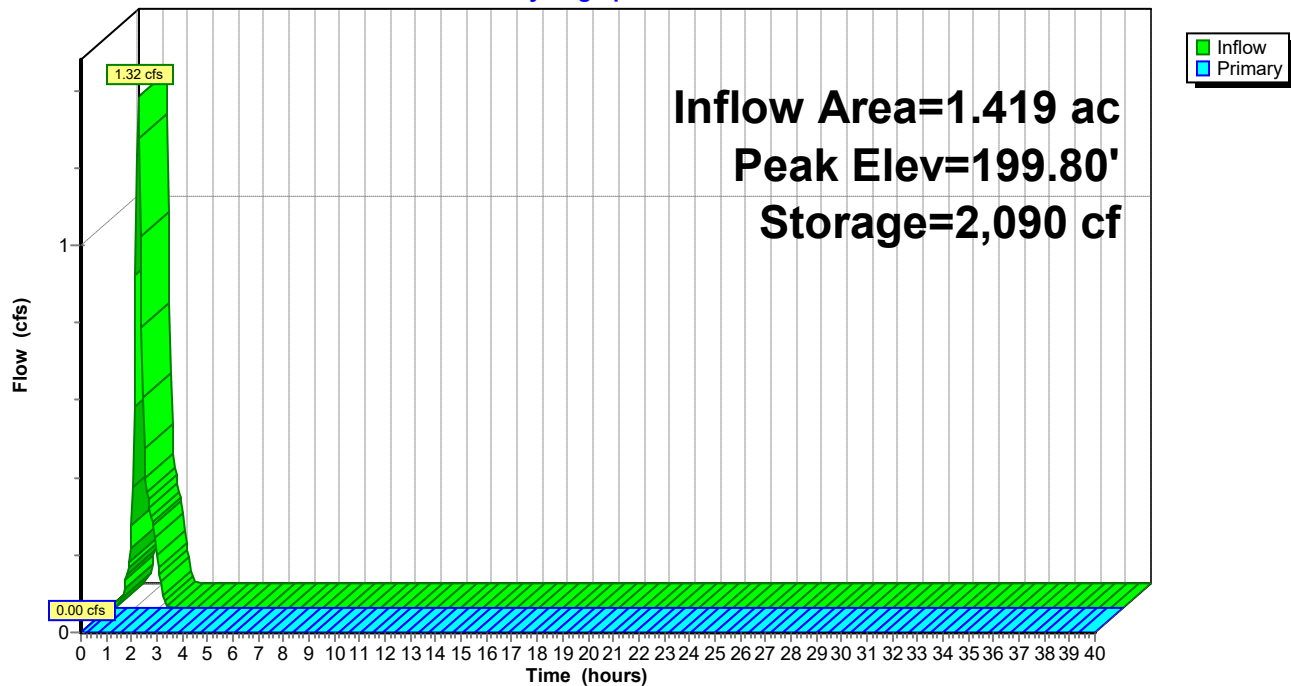
Device	Routing	Invert	Outlet Devices
#1	Primary	198.65'	18.0" Round Culvert L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 198.65' / 196.00' S= 0.0379 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	199.81'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	200.35'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	201.07'	50.0' long + 3.0 ' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=199.30' (Free Discharge)

- 1=Culvert (Passes 0.00 cfs of 2.01 cfs potential flow)
- 2=Orifice/Grate (Controls 0.00 cfs)
- 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-5: Basin #5

Hydrograph



Summary for Pond B-6: Basin #6

Inflow Area = 1.191 ac, 58.27% Impervious, Inflow Depth = 0.63" for WQ Storm event
 Inflow = 1.82 cfs @ 1.15 hrs, Volume= 0.063 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 199.16' @ 2.60 hrs Surf.Area= 5,494 sf Storage= 2,739 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	198.30'	37,655 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
198.30	0	0	0
199.00	5,389	1,886	1,886
200.00	6,060	5,725	7,611
201.00	6,761	6,411	14,021
202.00	7,490	7,126	21,147
203.00	8,247	7,869	29,015
204.00	9,032	8,640	37,655

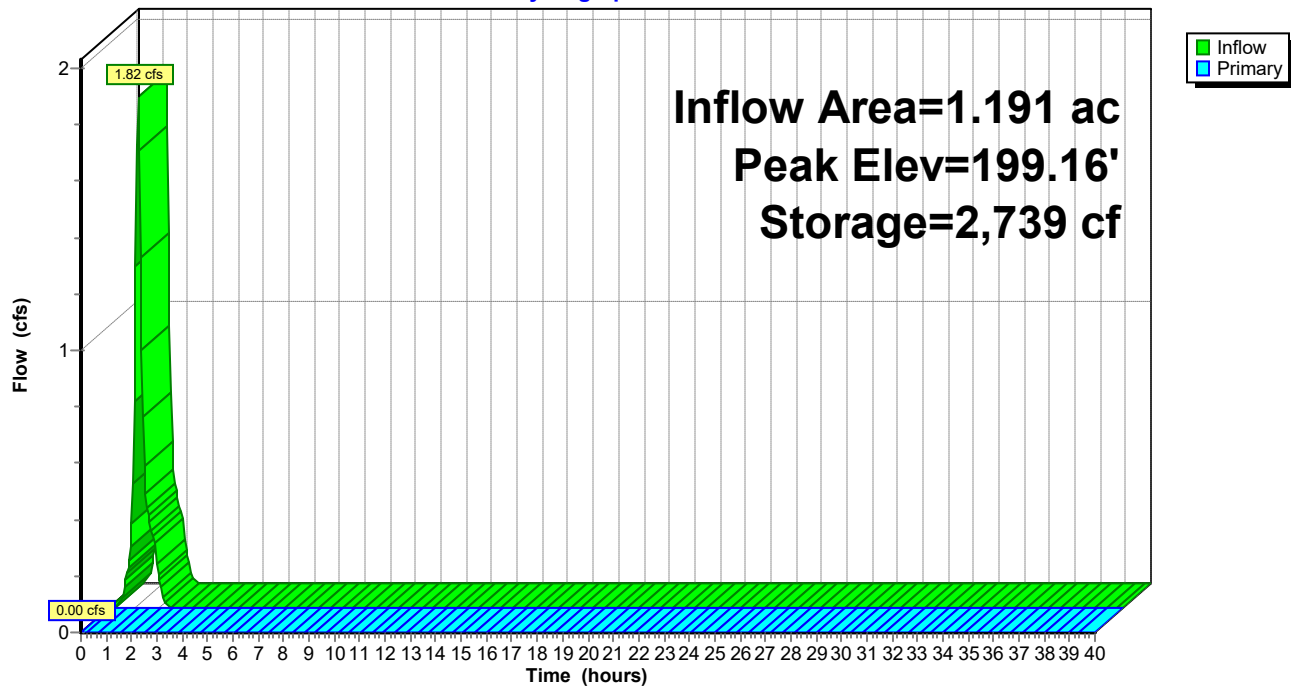
Device	Routing	Invert	Outlet Devices
#1	Primary	197.65'	18.0" Round Culvert L= 627.0' Ke= 0.500 Inlet / Outlet Invert= 197.65' / 194.00' S= 0.0058 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	199.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	200.10'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.89'	50.0' long + 3.0' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=198.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 1.79 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-6: Basin #6

Hydrograph



Summary for Pond B-7: Basin #7

Inflow Area = 1.564 ac, 62.85% Impervious, Inflow Depth = 0.68" for WQ Storm event
 Inflow = 2.56 cfs @ 1.15 hrs, Volume= 0.088 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 207.16' @ 2.60 hrs Surf.Area= 9,179 sf Storage= 3,847 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	206.47'	48,130 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

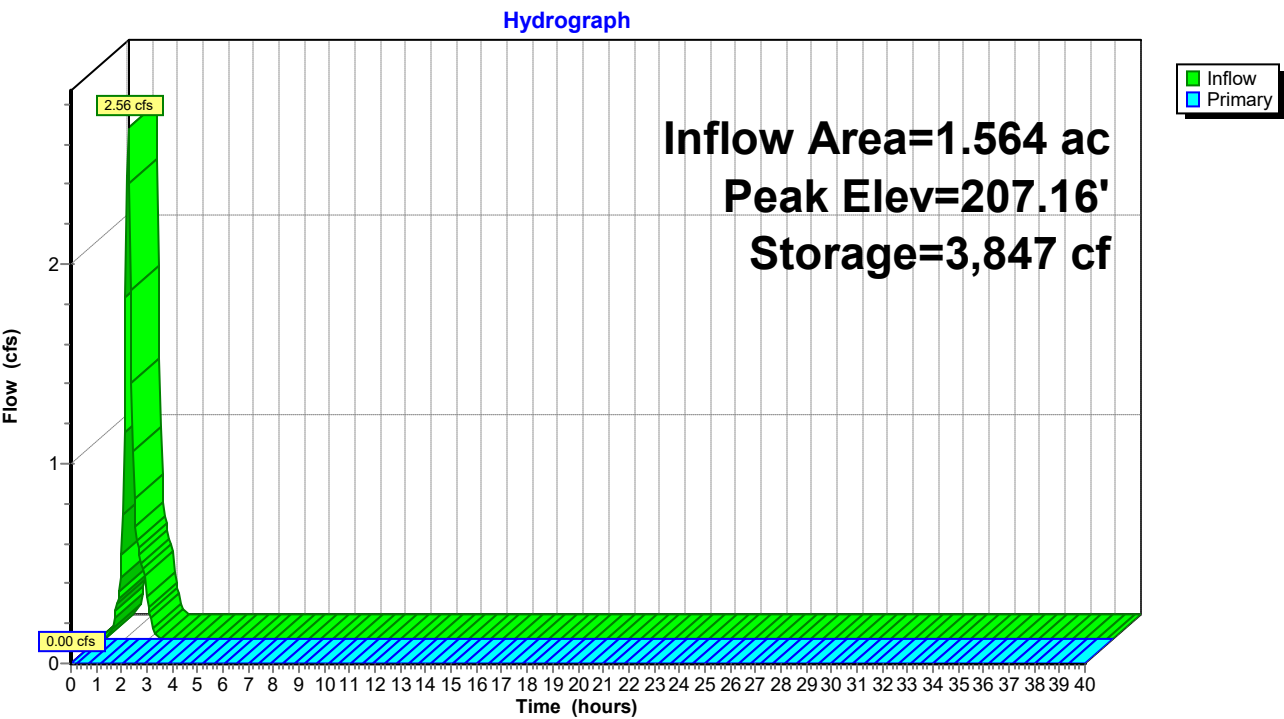
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.47	0	0	0
207.00	8,989	2,382	2,382
208.00	10,166	9,578	11,960
209.00	11,395	10,781	22,740
210.00	12,681	12,038	34,778
211.00	14,023	13,352	48,130

Device	Routing	Invert	Outlet Devices
#1	Primary	206.47'	18.0" Round Culvert L= 94.0' Ke= 0.500 Inlet / Outlet Invert= 206.47' / 206.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	207.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	207.99'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	208.86'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=206.47' (Free Discharge)

1=Culvert (Controls 0.00 cfs)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-7: Basin #7



Summary for Pond B-8: Basin #8

Inflow Area = 2.546 ac, 37.27% Impervious, Inflow Depth = 0.43" for WQ Storm event
 Inflow = 2.54 cfs @ 1.15 hrs, Volume= 0.092 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 178.95' @ 2.60 hrs Surf.Area= 12,308 sf Storage= 3,991 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	178.30'	49,028 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.30	0	0	0
179.00	13,283	4,649	4,649
180.00	14,274	13,779	18,428
181.00	15,293	14,784	33,211
182.00	16,341	15,817	49,028

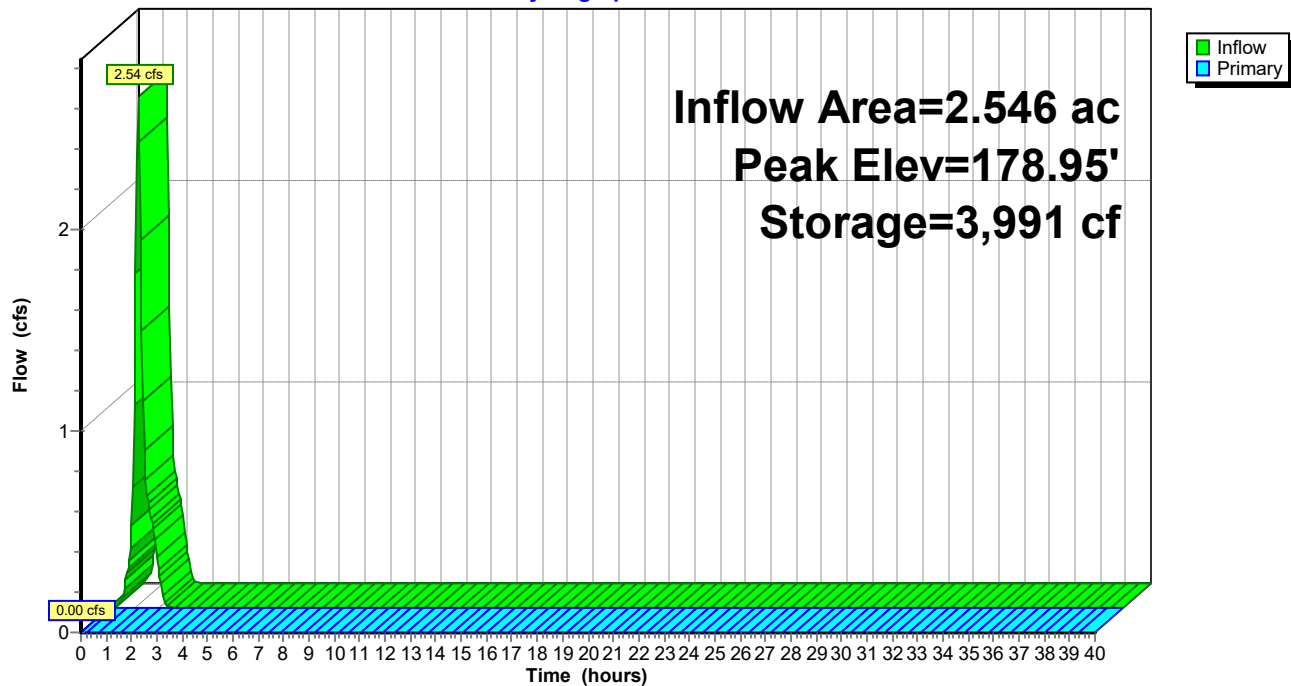
Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 46.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	178.95'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.83'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.83'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=178.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 0.02 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-8: Basin #8

Hydrograph



Summary for Pond B-9: Basin #9

Inflow Area = 1.503 ac, 52.63% Impervious, Inflow Depth = 0.58" for WQ Storm event
 Inflow = 2.08 cfs @ 1.15 hrs, Volume= 0.073 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 178.94' @ 2.60 hrs Surf.Area= 9,839 sf Storage= 3,160 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	178.30'	40,392 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.30	0	0	0
179.00	10,720	3,752	3,752
180.00	11,700	11,210	14,962
181.00	12,708	12,204	27,166
182.00	13,745	13,227	40,392

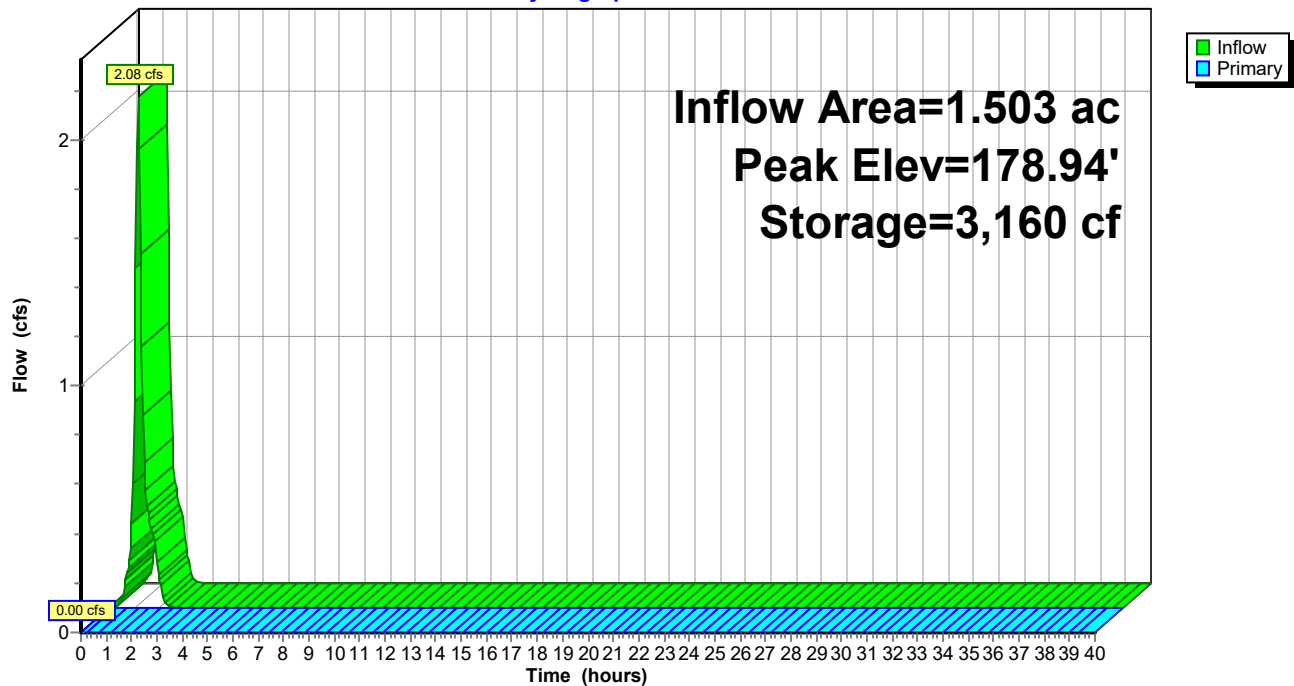
Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 45.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0051 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	178.95'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.61'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.31'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=178.30' (Free Discharge)

1=Culvert (Passes 0.00 cfs of 0.02 cfs potential flow)
 2=Orifice/Grate (Controls 0.00 cfs)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-9: Basin #9

Hydrograph



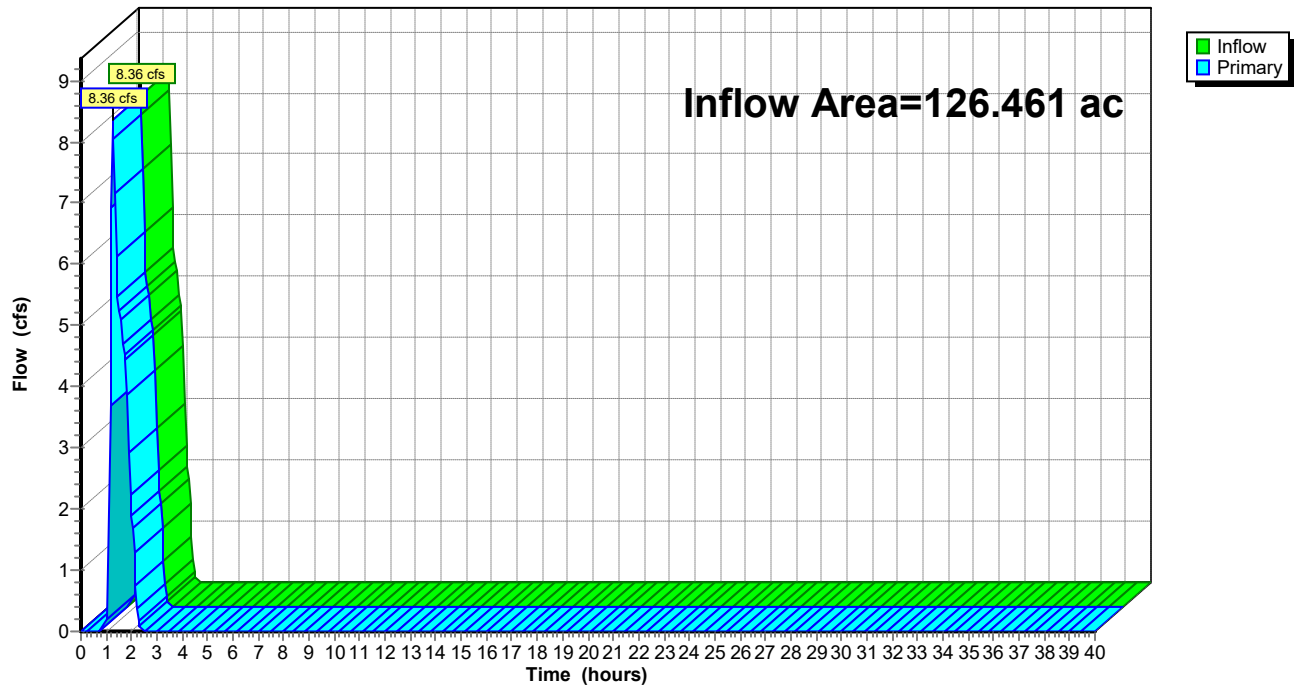
Summary for Link DP-1: Design Pont #1 (Ewing Creek)

Inflow Area = 126.461 ac, 21.23% Impervious, Inflow Depth = 0.04" for WQ Storm event
Inflow = 8.36 cfs @ 1.27 hrs, Volume= 0.394 af
Primary = 8.36 cfs @ 1.27 hrs, Volume= 0.394 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link DP-1: Design Pont #1 (Ewing Creek)

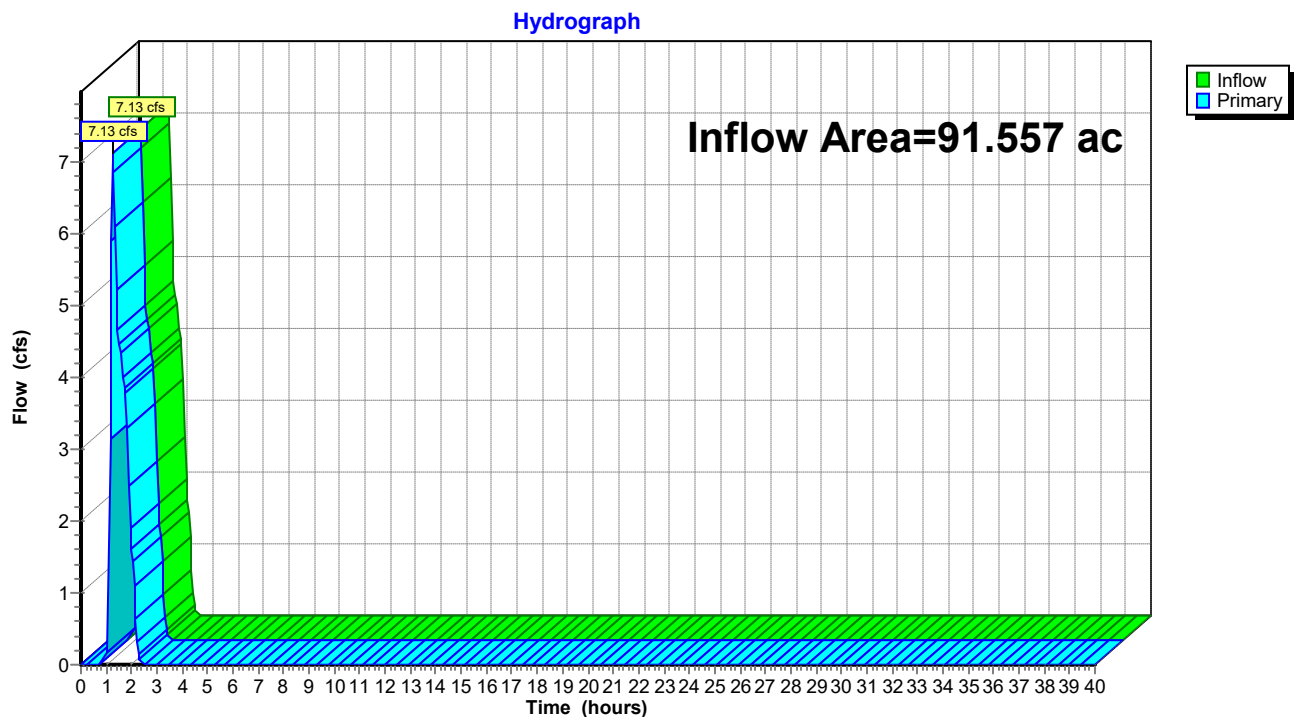
Hydrograph



Summary for Link PDA-1: Proposed Drainage Area #1

Inflow Area = 91.557 ac, 16.93% Impervious, Inflow Depth = 0.04" for WQ Storm event
Inflow = 7.13 cfs @ 1.27 hrs, Volume= 0.336 af
Primary = 7.13 cfs @ 1.27 hrs, Volume= 0.336 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-1 : Design Pont #1 (Ewing Creek)

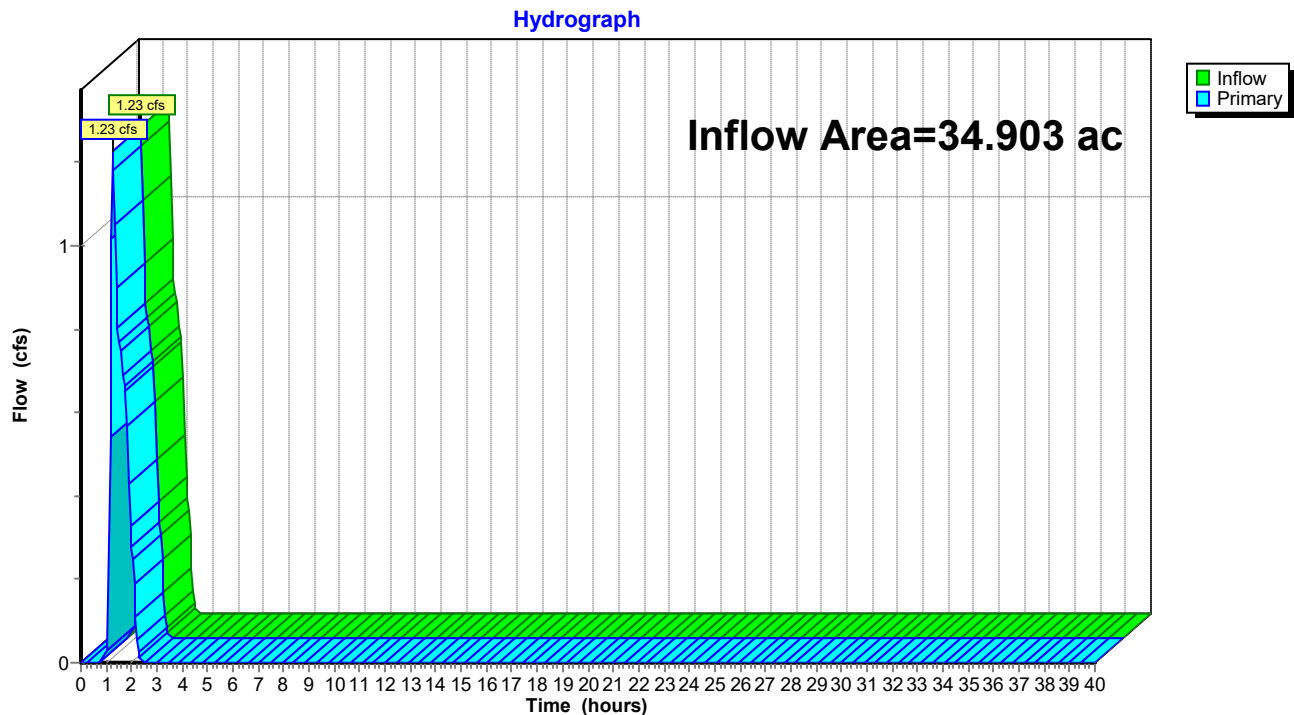
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-1: Proposed Drainage Area #1

Summary for Link PDA-2: Proposed Drainage Area #2

Inflow Area = 34.903 ac, 32.51% Impervious, Inflow Depth = 0.02" for WQ Storm event
Inflow = 1.23 cfs @ 1.27 hrs, Volume= 0.058 af
Primary = 1.23 cfs @ 1.27 hrs, Volume= 0.058 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-1 : Design Pont #1 (Ewing Creek)

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-2: Proposed Drainage Area #2

Summary for Subcatchment 1I: PDA-1 (impervious)

Runoff = 0.36 cfs @ 12.17 hrs, Volume= 0.031 af, Depth= 3.12"
 Routed to Pond B-1 : Basin #1

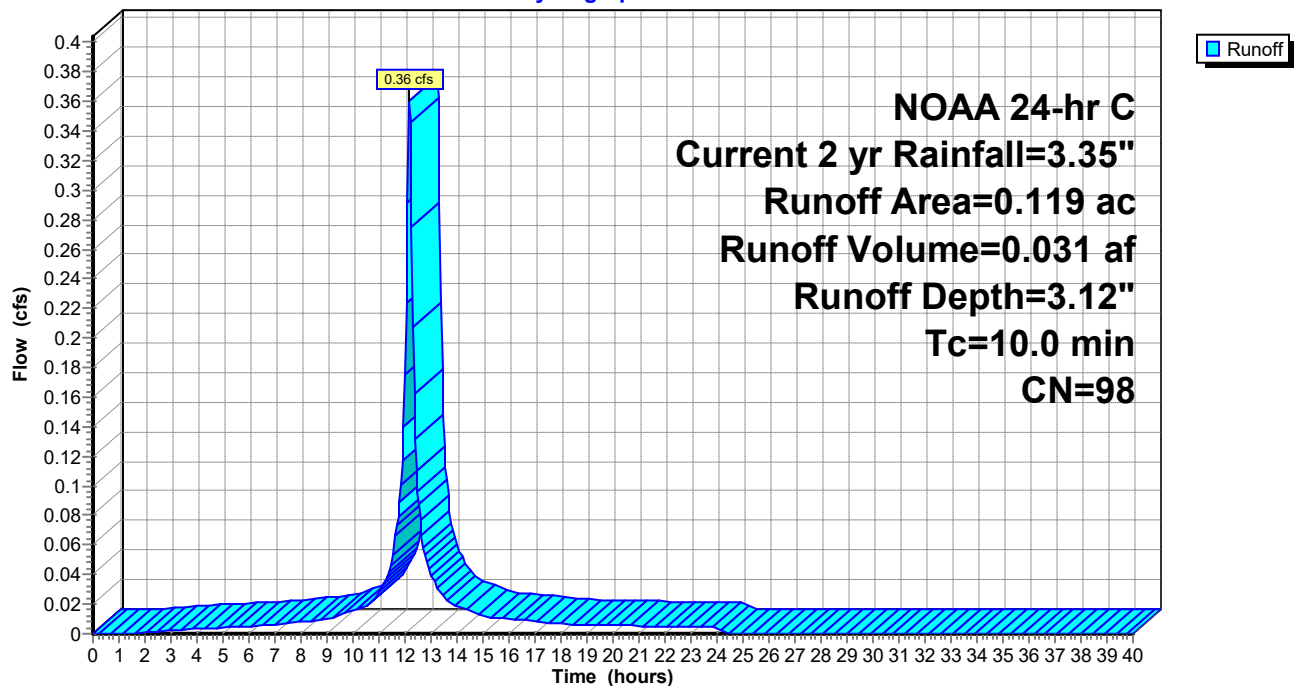
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.115	98	Pavement, HSG C
* 0.004	98	Concrete, HSG C
0.119	98	Weighted Average
0.119		100.00% Impervious Area

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

Subcatchment 1I: PDA-1 (impervious)

Hydrograph



Summary for Subcatchment 1P: PDA-1 (pervious)

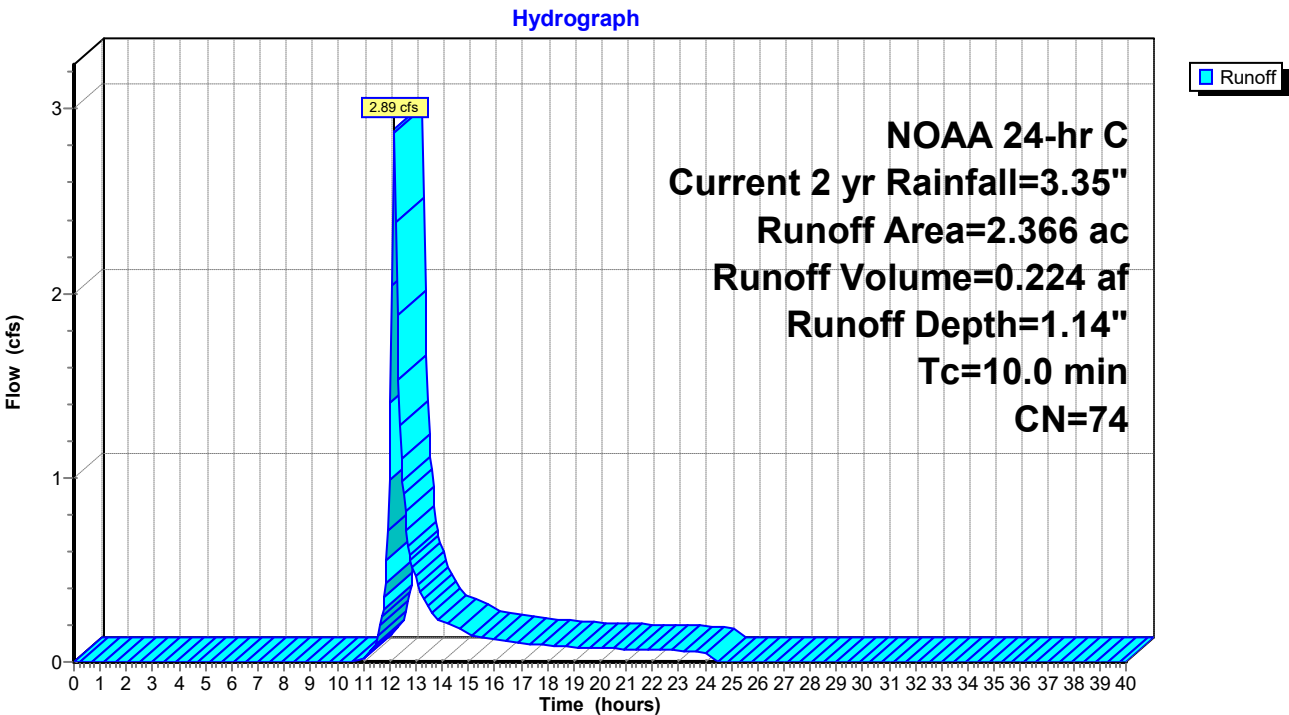
Runoff = 2.89 cfs @ 12.18 hrs, Volume= 0.224 af, Depth= 1.14"
Routed to Pond B-1 : Basin #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
2.366	74	>75% Grass cover, Good, HSG C
2.366		100.00% Pervious Area

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

Subcatchment 1P: PDA-1 (pervious)



Summary for Subcatchment 2I: PDA-2 (impervious)

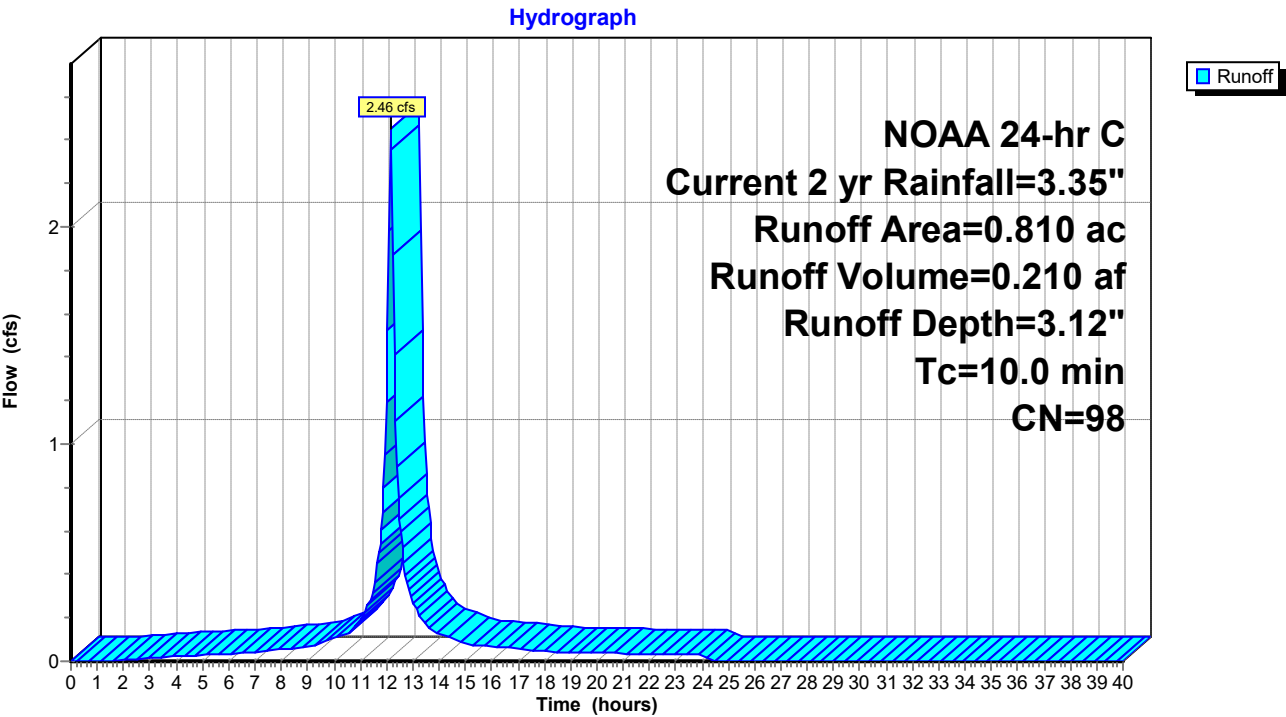
Runoff = 2.46 cfs @ 12.17 hrs, Volume= 0.210 af, Depth= 3.12"
Routed to Pond B-2 : Basin #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.490	98	Roof, HSG C
* 0.269	98	Pavement, HSG C
* 0.051	98	Concrete, HSG C
0.810	98	Weighted Average
0.810		100.00% Impervious Area

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

Subcatchment 2I: PDA-2 (impervious)



Summary for Subcatchment 2P: PDA-2 (pervious)

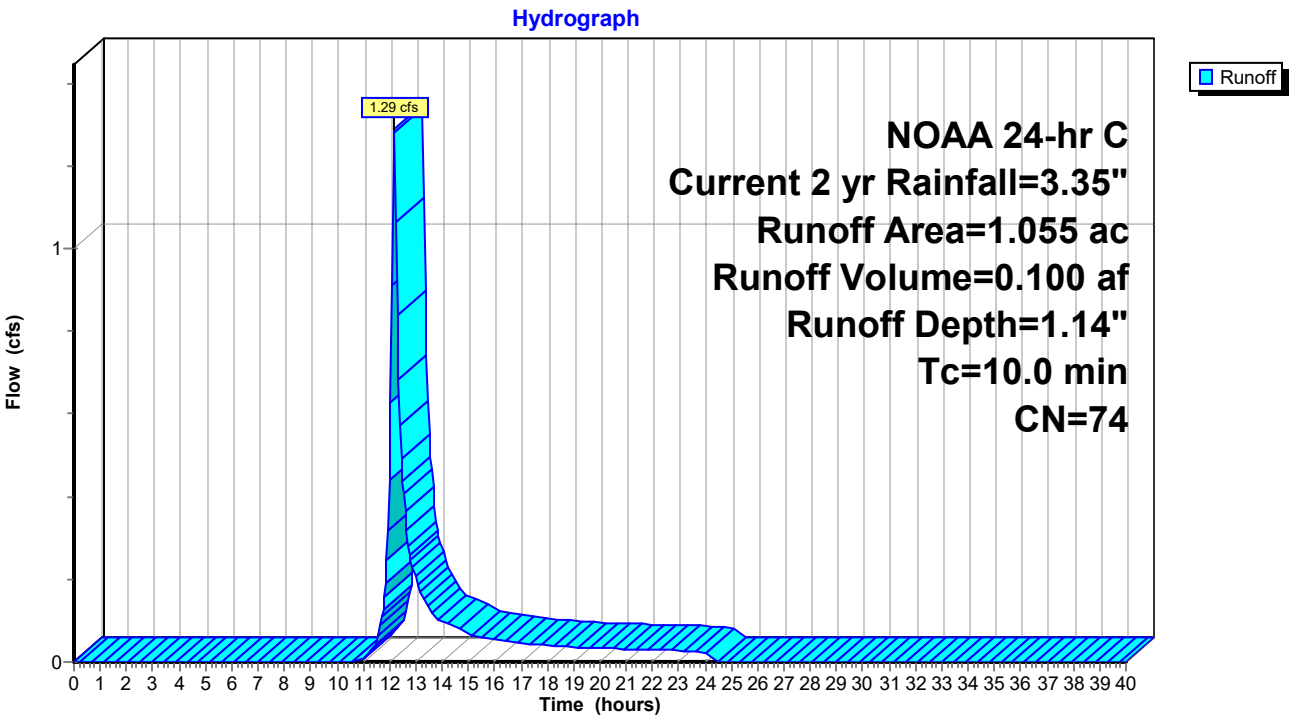
Runoff = 1.29 cfs @ 12.18 hrs, Volume= 0.100 af, Depth= 1.14"
Routed to Pond B-2 : Basin #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.055	74	>75% Grass cover, Good, HSG C
1.055		100.00% Pervious Area

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

Subcatchment 2P: PDA-2 (pervious)



Summary for Subcatchment 3I: PDA-3 (impervious)

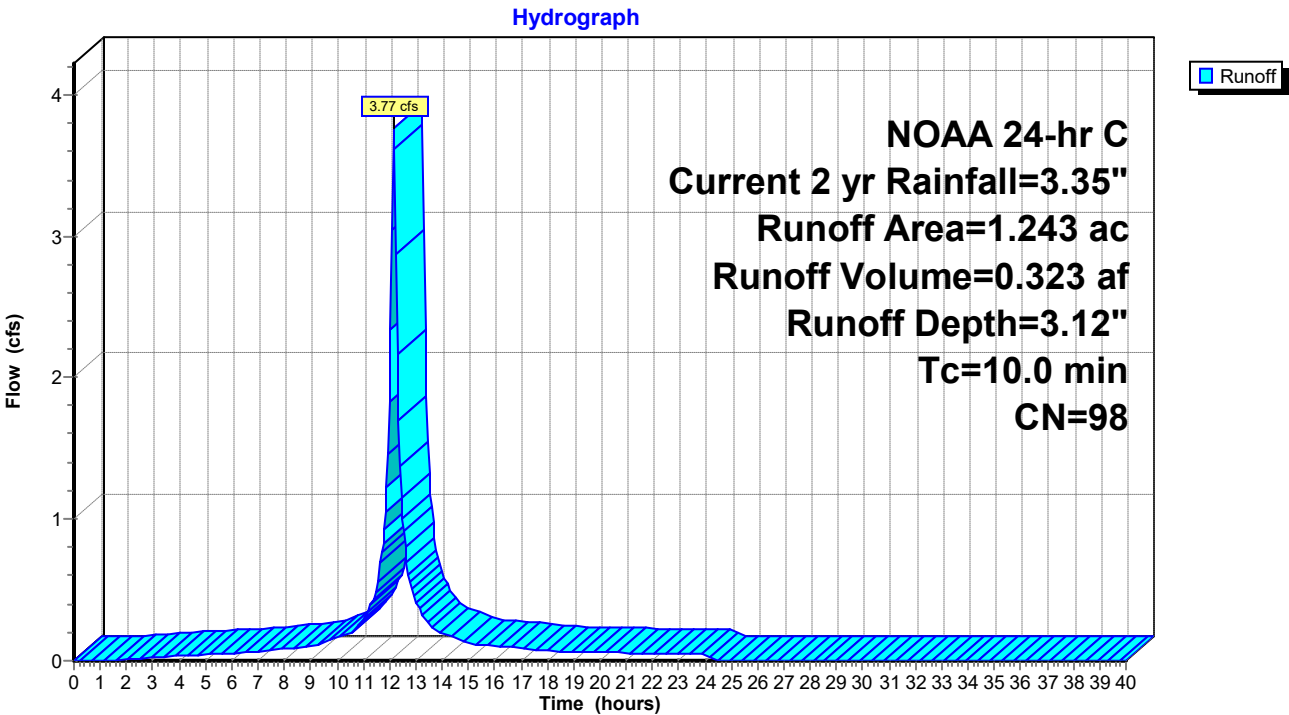
Runoff = 3.77 cfs @ 12.17 hrs, Volume= 0.323 af, Depth= 3.12"
Routed to Pond B-3 : Basin #3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 1.162	98	Pavement, HSG C
* 0.081	98	Concrete, HSG C
1.243	98	Weighted Average
1.243		100.00% Impervious Area

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

Subcatchment 3I: PDA-3 (impervious)



Summary for Subcatchment 3P: PDA-3 (pervious)

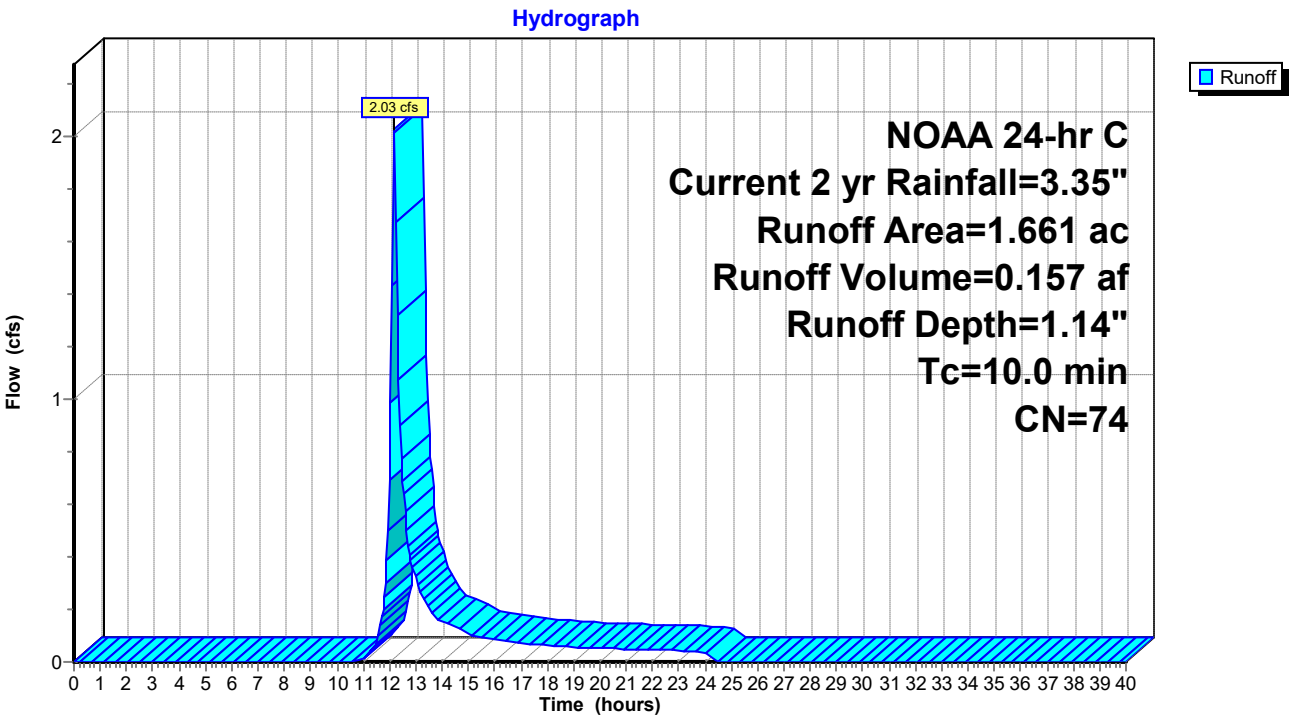
Runoff = 2.03 cfs @ 12.18 hrs, Volume= 0.157 af, Depth= 1.14"
Routed to Pond B-3 : Basin #3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.661	74	>75% Grass cover, Good, HSG C
1.661		100.00% Pervious Area

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

Subcatchment 3P: PDA-3 (pervious)



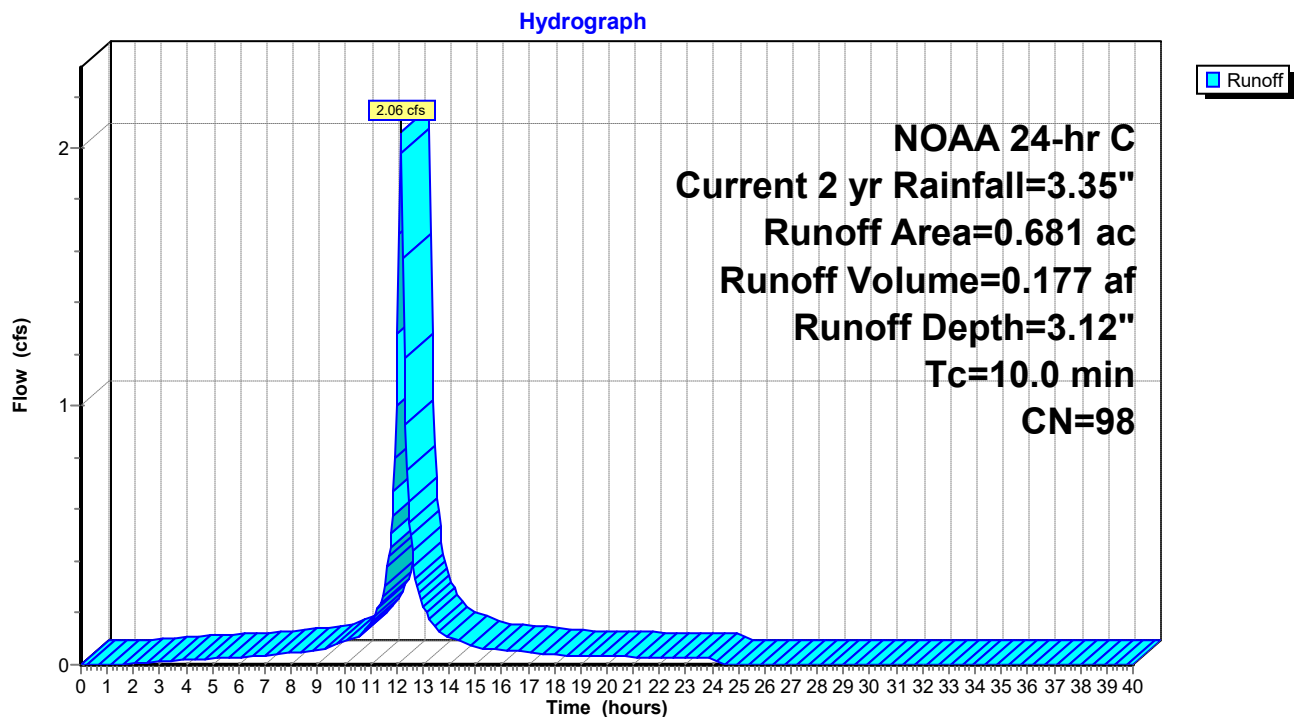
Summary for Subcatchment 4I: PDA-4 (impervious)

Runoff = 2.06 cfs @ 12.17 hrs, Volume= 0.177 af, Depth= 3.12"
 Routed to Pond B-4 : Basin #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.433	98	Pavement, HSG C
* 0.248	98	Concrete, HSG C
0.681	98	Weighted Average
0.681		100.00% Impervious Area

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

Subcatchment 4I: PDA-4 (impervious)

Summary for Subcatchment 4P: PDA-4 (pervious)

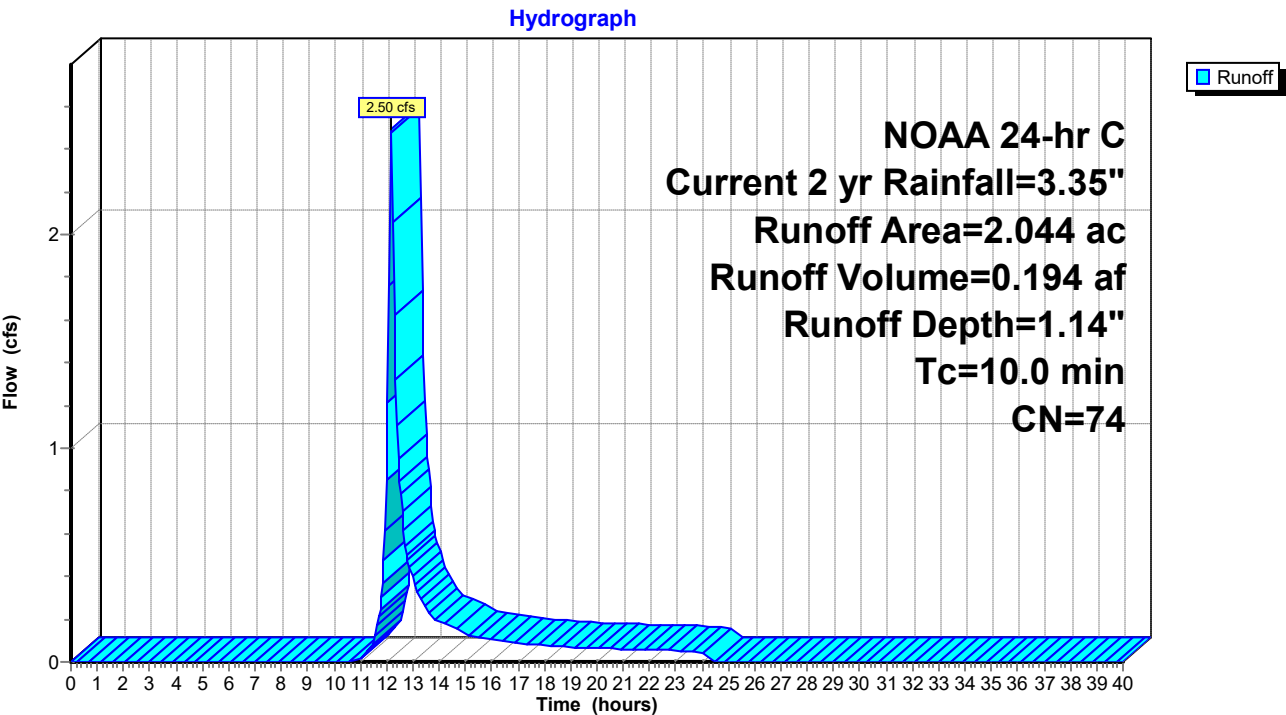
Runoff = 2.50 cfs @ 12.18 hrs, Volume= 0.194 af, Depth= 1.14"
Routed to Pond B-4 : Basin #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
2.044	74	>75% Grass cover, Good, HSG C
2.044		100.00% Pervious Area

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

Subcatchment 4P: PDA-4 (pervious)



Summary for Subcatchment 5I: PDA-5 (impervious)

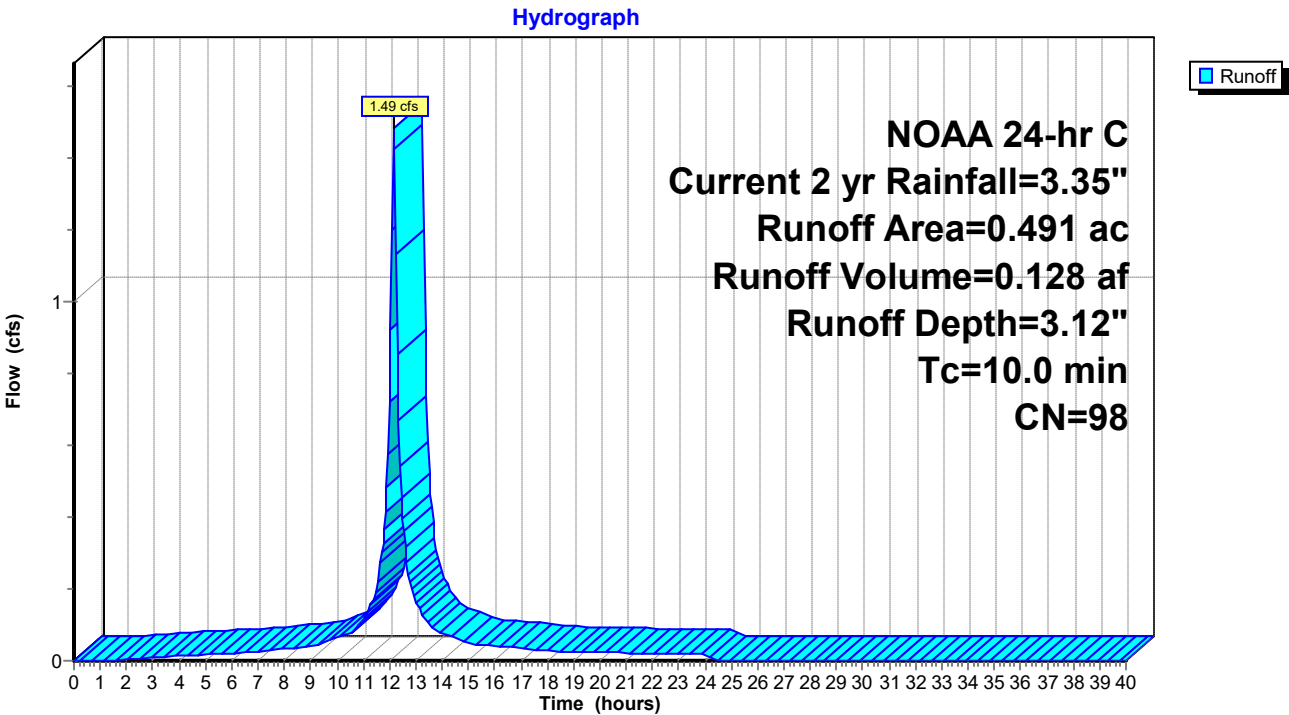
Runoff = 1.49 cfs @ 12.17 hrs, Volume= 0.128 af, Depth= 3.12"
Routed to Pond B-5 : Basin #5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.393	98	Pavement, HSG C
* 0.098	98	Concrete, HSG C
0.491	98	Weighted Average
0.491		100.00% Impervious Area

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

Subcatchment 5I: PDA-5 (impervious)



Summary for Subcatchment 5P: PDA-5 (pervious)

Runoff = 1.14 cfs @ 12.18 hrs, Volume= 0.088 af, Depth= 1.14"
 Routed to Pond B-5 : Basin #5

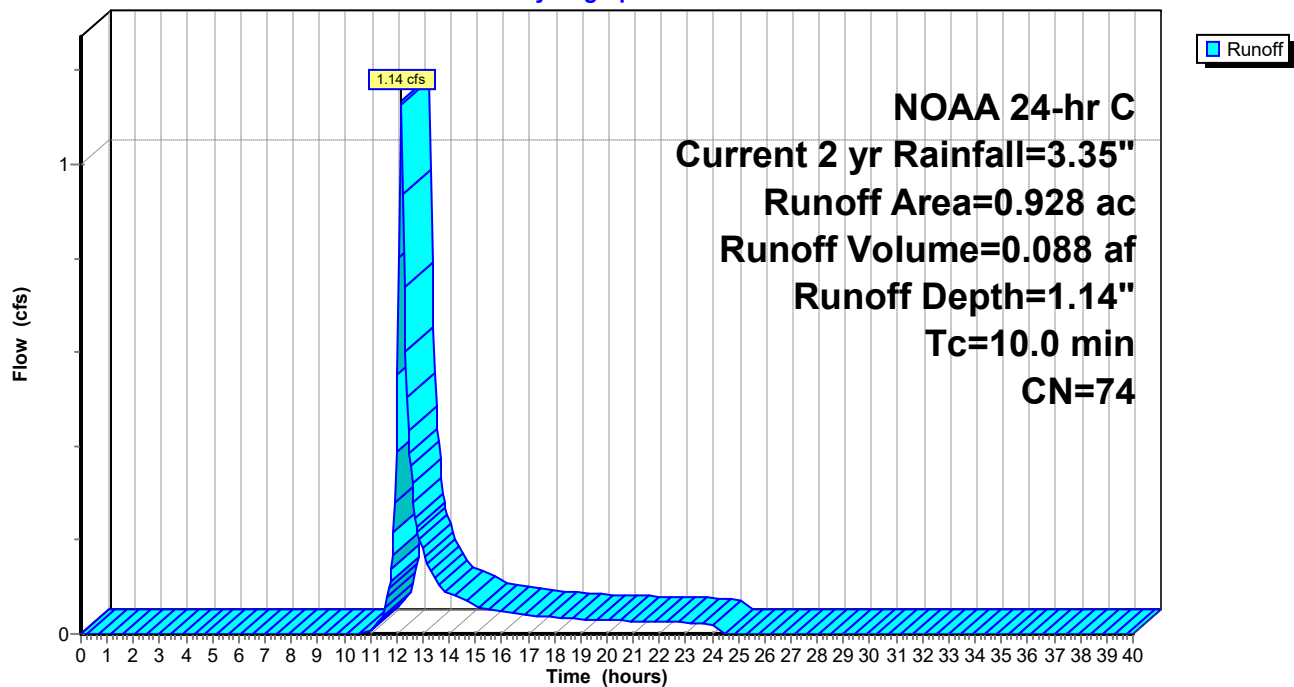
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.928	74	>75% Grass cover, Good, HSG C
0.928		100.00% Pervious Area

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

Subcatchment 5P: PDA-5 (pervious)

Hydrograph



Summary for Subcatchment 6I: PDA-6 (impervious)

Runoff = 2.10 cfs @ 12.17 hrs, Volume= 0.180 af, Depth= 3.12"
 Routed to Pond B-6 : Basin #6

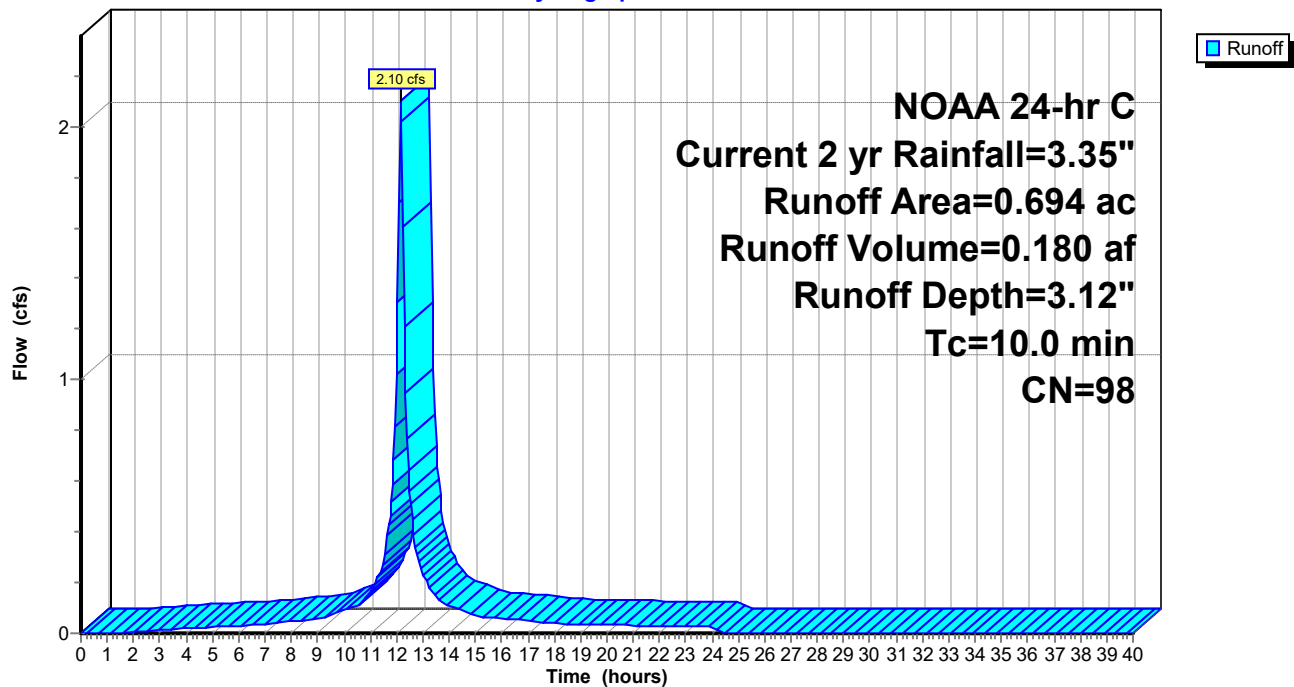
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.459	98	Pavement, HSG C
* 0.129	98	Roof, HSG C
* 0.106	98	Concrete, HSG C
0.694	98	Weighted Average
0.694		100.00% Impervious Area

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

Subcatchment 6I: PDA-6 (impervious)

Hydrograph



Summary for Subcatchment 6P: PDA-6 (pervious)

Runoff = 0.61 cfs @ 12.18 hrs, Volume= 0.047 af, Depth= 1.14"
 Routed to Pond B-6 : Basin #6

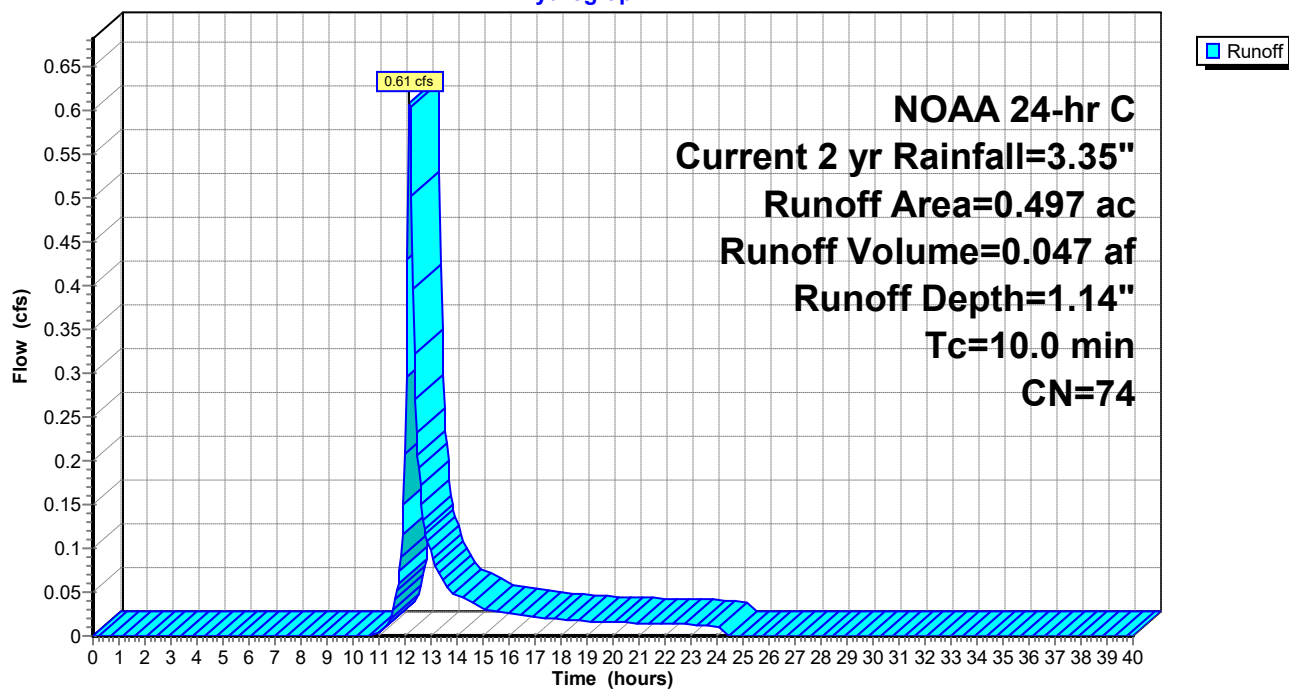
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.497	74	>75% Grass cover, Good, HSG C
0.497		100.00% Pervious Area

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

Subcatchment 6P: PDA-6 (pervious)

Hydrograph



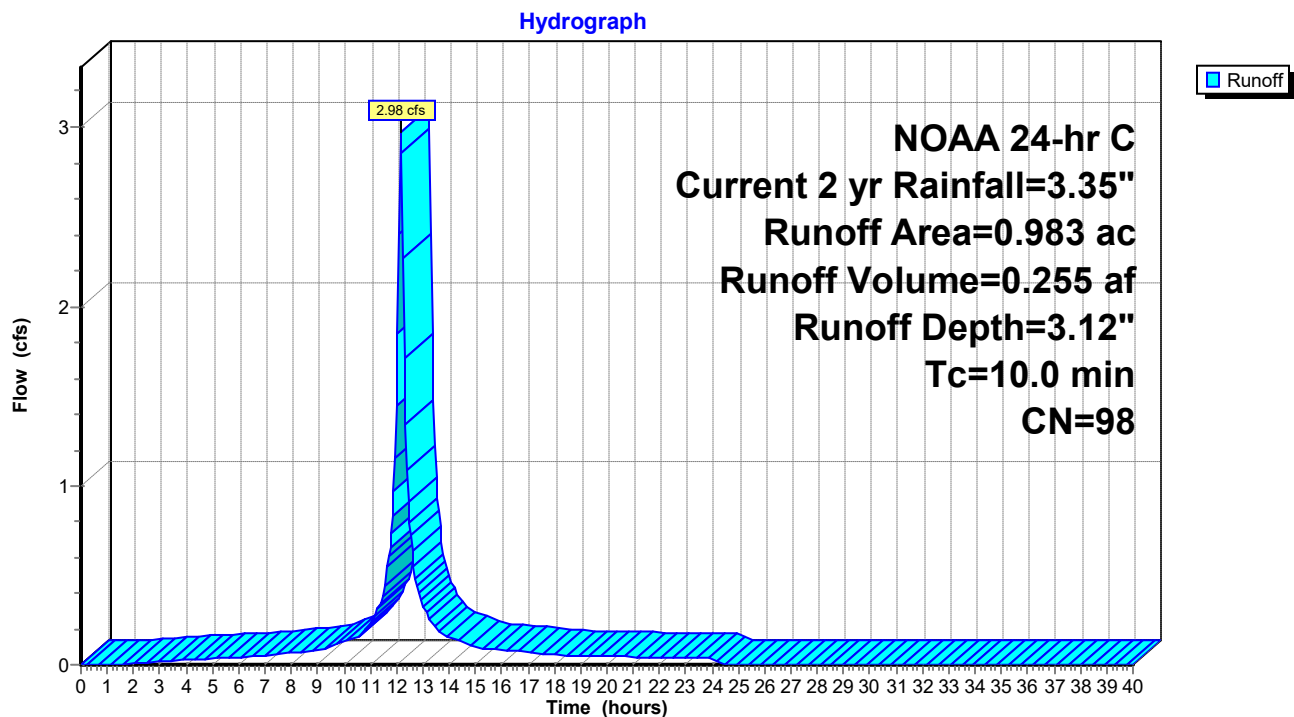
Summary for Subcatchment 7I: PDA-7 (impervious)

Runoff = 2.98 cfs @ 12.17 hrs, Volume= 0.255 af, Depth= 3.12"
 Routed to Pond B-7 : Basin #7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.886	98	Pavement, HSG C
* 0.097	98	Concrete, HSG C
0.983	98	Weighted Average
0.983		100.00% Impervious Area

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

Subcatchment 7I: PDA-7 (impervious)

Summary for Subcatchment 7P: PDA-7 (pervious)

Runoff = 0.71 cfs @ 12.18 hrs, Volume= 0.055 af, Depth= 1.14"
 Routed to Pond B-7 : Basin #7

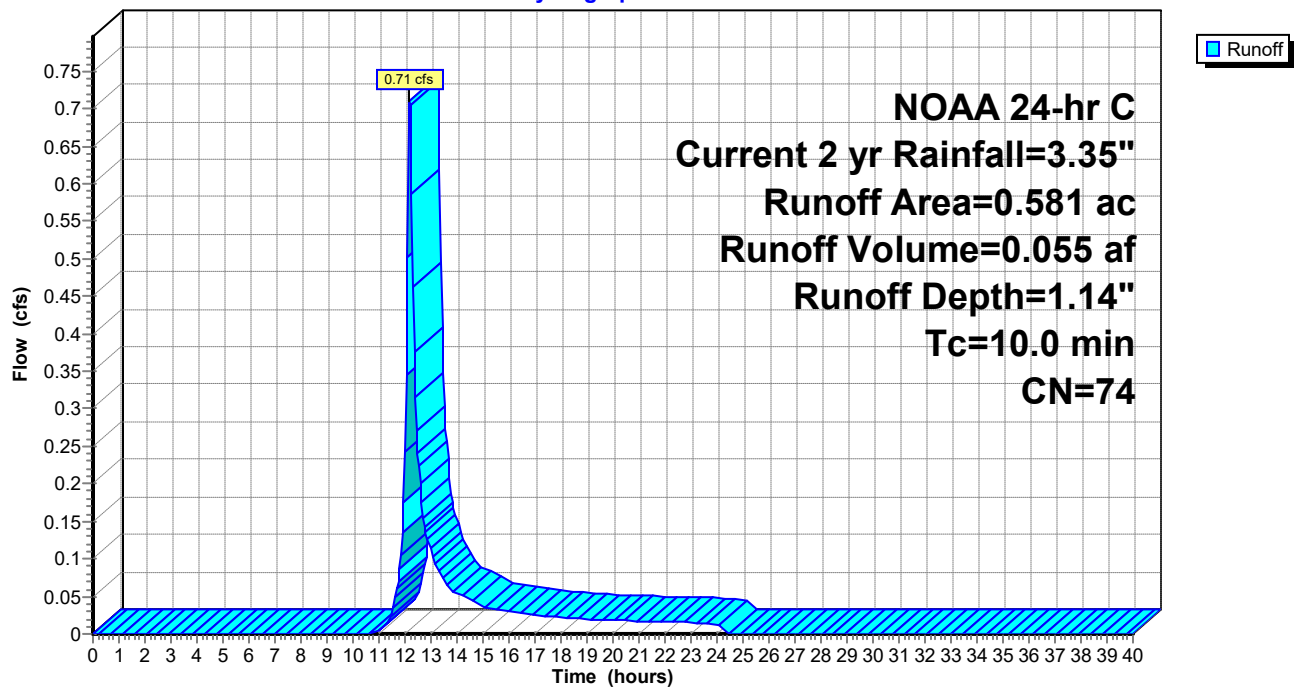
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.581	74	>75% Grass cover, Good, HSG C
0.581		100.00% Pervious Area

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

Subcatchment 7P: PDA-7 (pervious)

Hydrograph



Summary for Subcatchment 8I: PDA-8 (impervious)

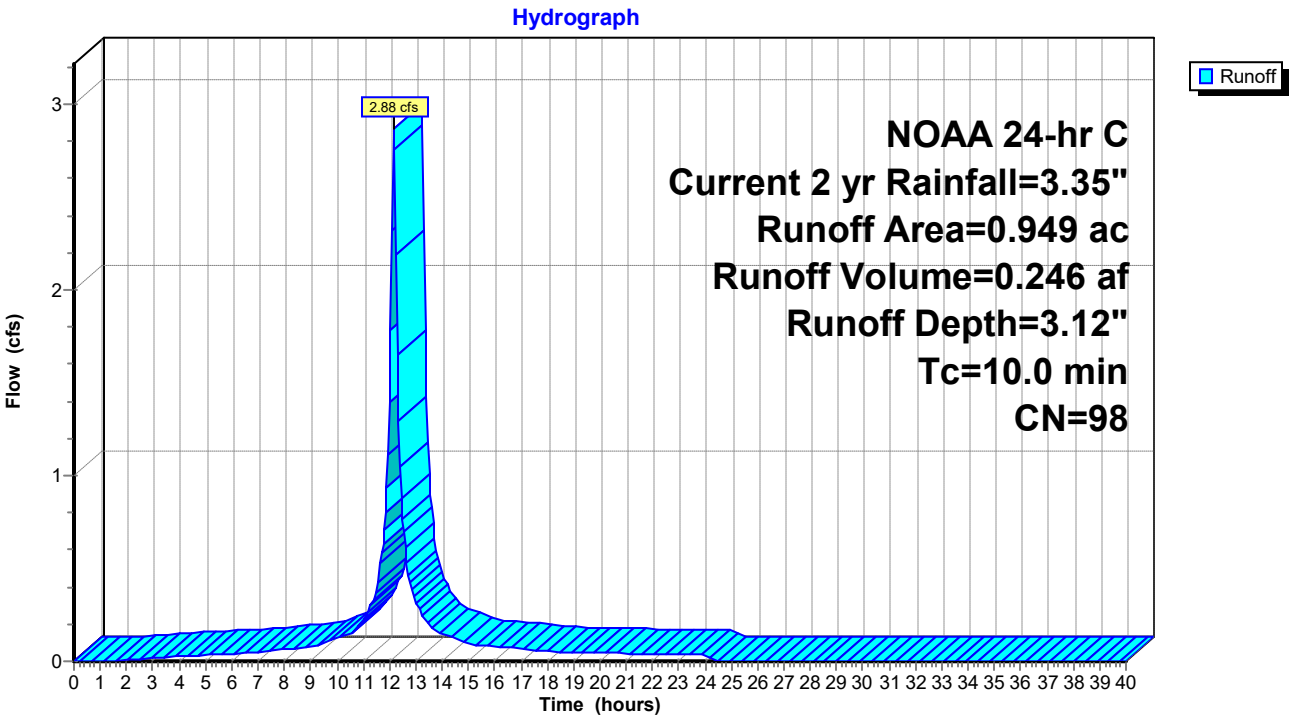
Runoff = 2.88 cfs @ 12.17 hrs, Volume= 0.246 af, Depth= 3.12"
Routed to Pond B-8 : Basin #8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.300	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.006	98	Concrete, HSG C
0.949	98	Weighted Average
0.949		100.00% Impervious Area

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

Subcatchment 8I: PDA-8 (impervious)



Summary for Subcatchment 8P: PDA-8 (pervious)

Runoff = 1.95 cfs @ 12.18 hrs, Volume= 0.151 af, Depth= 1.14"
 Routed to Pond B-8 : Basin #8

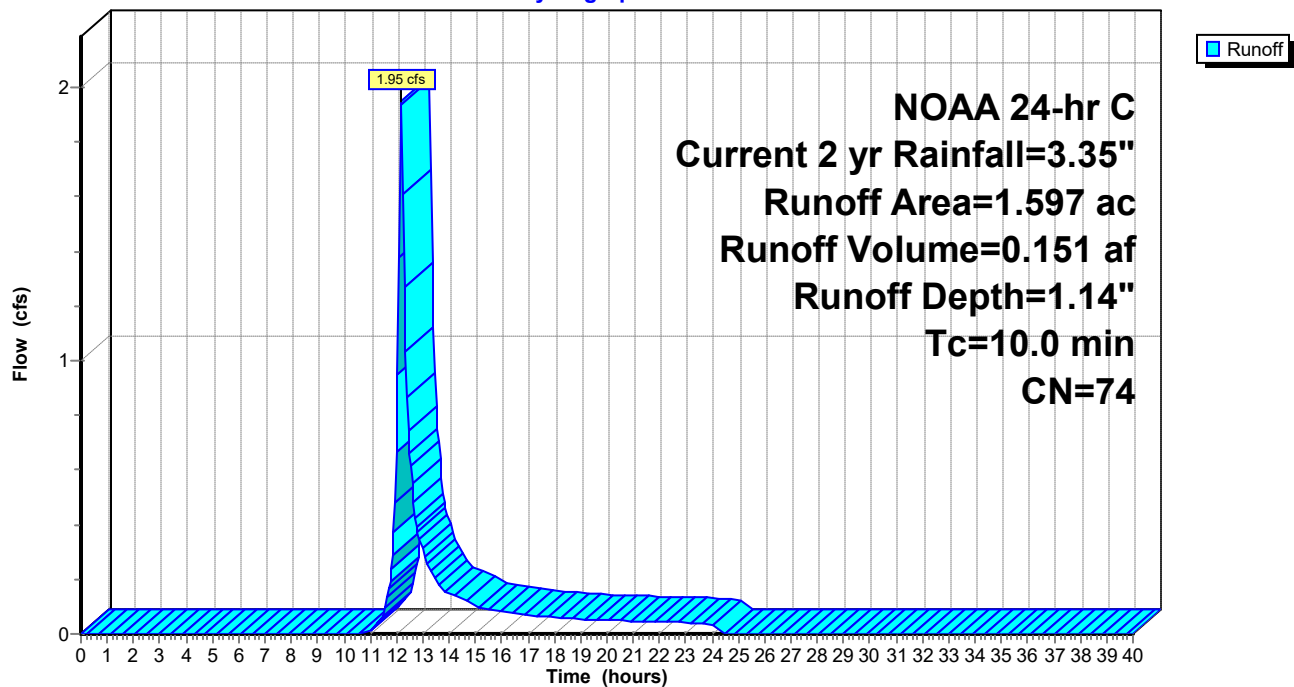
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.597	74	>75% Grass cover, Good, HSG C
1.597		100.00% Pervious Area

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

Subcatchment 8P: PDA-8 (pervious)

Hydrograph



Summary for Subcatchment 9I: PDA-9 (impervious)

Runoff = 2.40 cfs @ 12.17 hrs, Volume= 0.205 af, Depth= 3.12"
 Routed to Pond B-9 : Basin #9

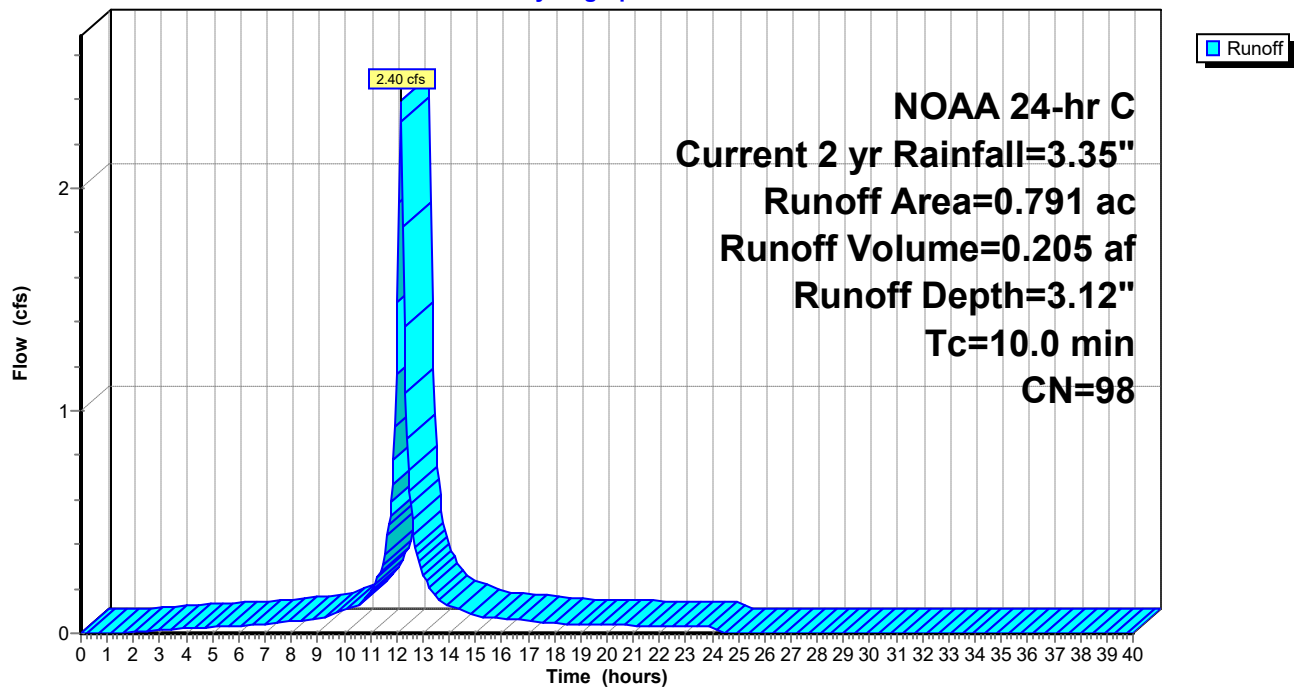
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.286	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.055	98	Concrete, HSG C
0.791	98	Weighted Average
0.791		100.00% Impervious Area

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

Subcatchment 9I: PDA-9 (impervious)

Hydrograph



Summary for Subcatchment 9P: PDA-9 (pervious)

Runoff = 0.87 cfs @ 12.18 hrs, Volume= 0.067 af, Depth= 1.14"
 Routed to Pond B-9 : Basin #9

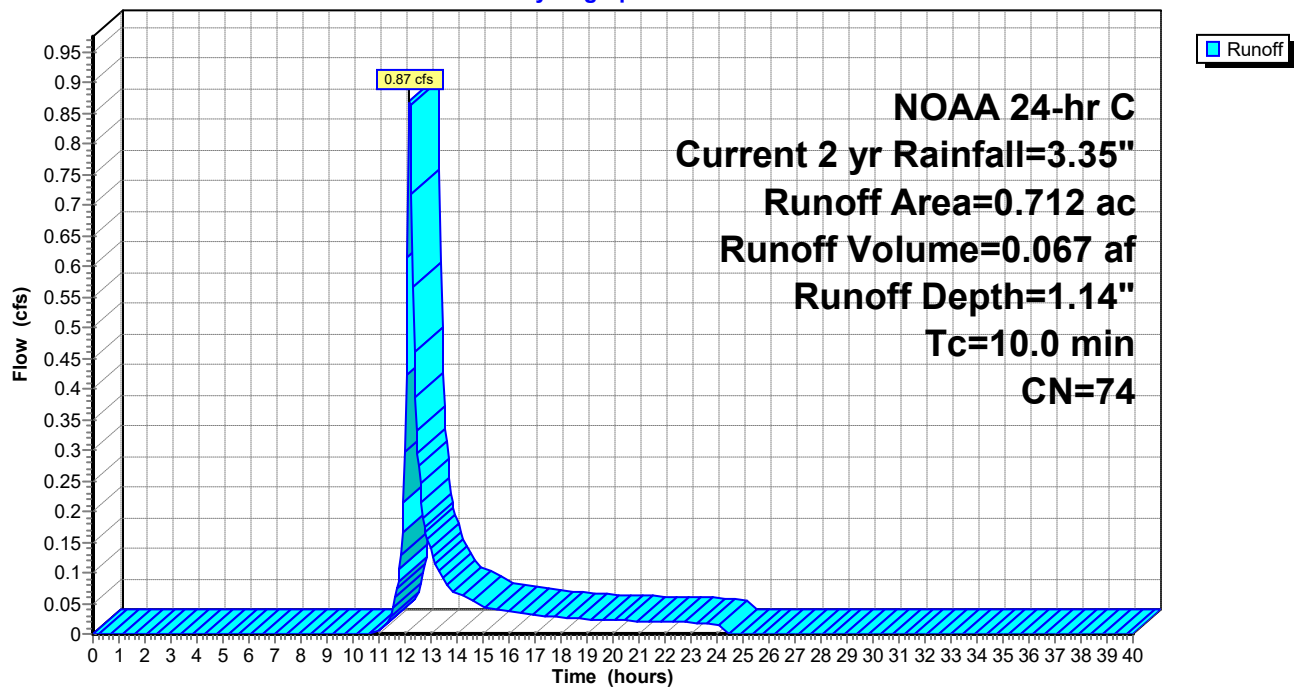
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.712	74	>75% Grass cover, Good, HSG C
0.712		100.00% Pervious Area

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

Subcatchment 9P: PDA-9 (pervious)

Hydrograph



Summary for Subcatchment 10I: PDA-10 (impervious)

Runoff = 2.87 cfs @ 12.17 hrs, Volume= 0.246 af, Depth= 3.12"
 Routed to Pond B-10 : Basin #10

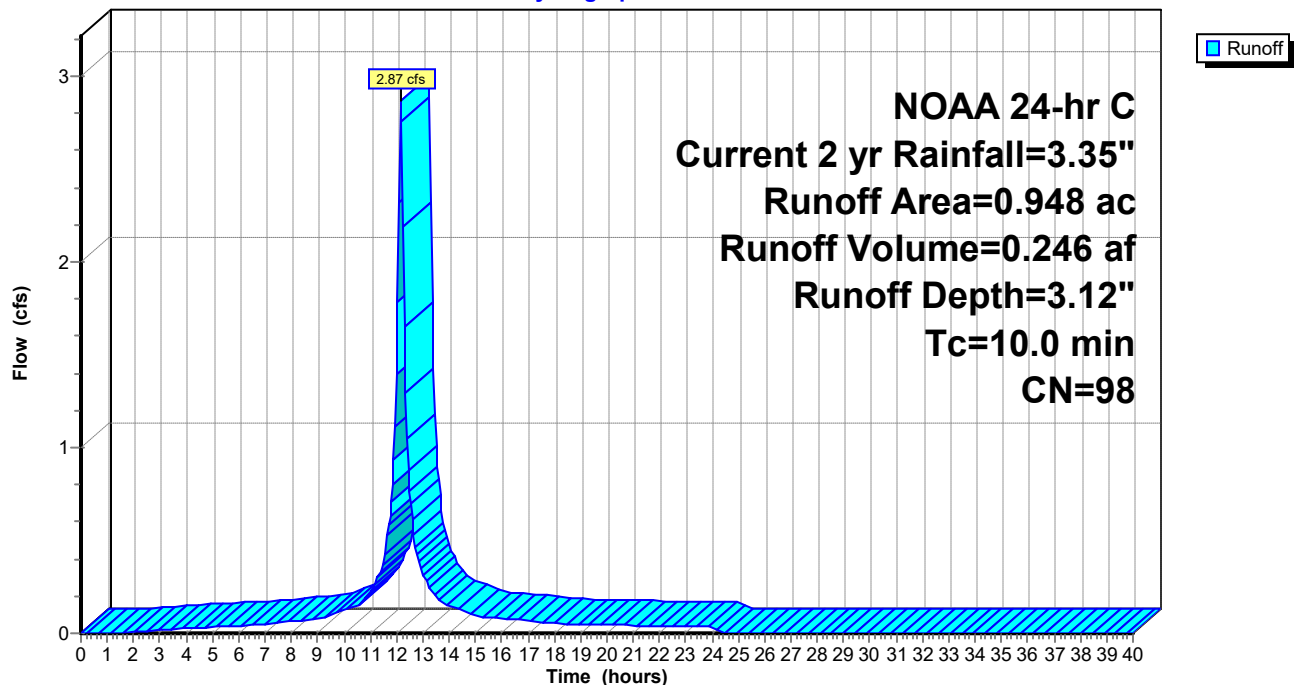
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.570	98	Pavement, HSG C
* 0.321	98	Roof, HSG C
* 0.057	98	Concrete, HSG C
0.948	98	Weighted Average
0.948		100.00% Impervious Area

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

Subcatchment 10I: PDA-10 (impervious)

Hydrograph



Summary for Subcatchment 10P: PDA-10 (pervious)

Runoff = 0.89 cfs @ 12.18 hrs, Volume= 0.069 af, Depth= 1.14"
 Routed to Pond B-10 : Basin #10

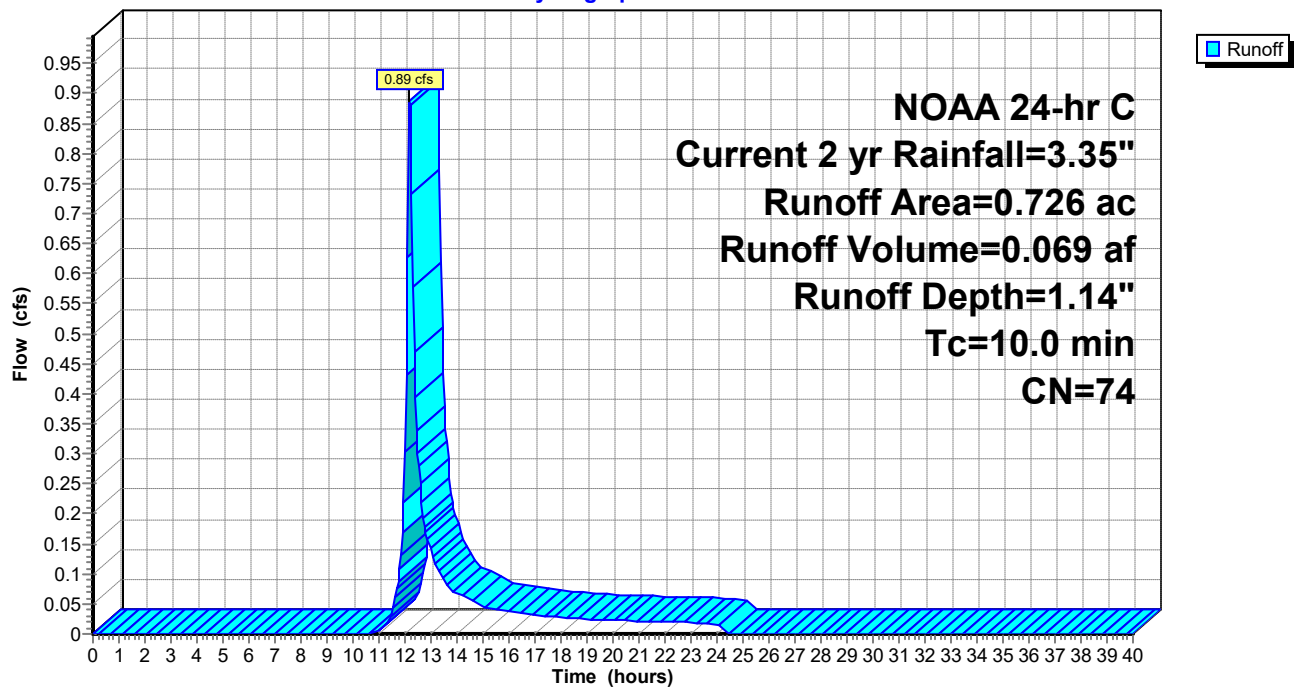
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.726	74	>75% Grass cover, Good, HSG C
0.726		100.00% Pervious Area

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

Subcatchment 10P: PDA-10 (pervious)

Hydrograph



Summary for Subcatchment 11I: PDA-11 (impervious)

Runoff = 2.83 cfs @ 12.17 hrs, Volume= 0.242 af, Depth= 3.12"
 Routed to Pond B-11 : Basin #11

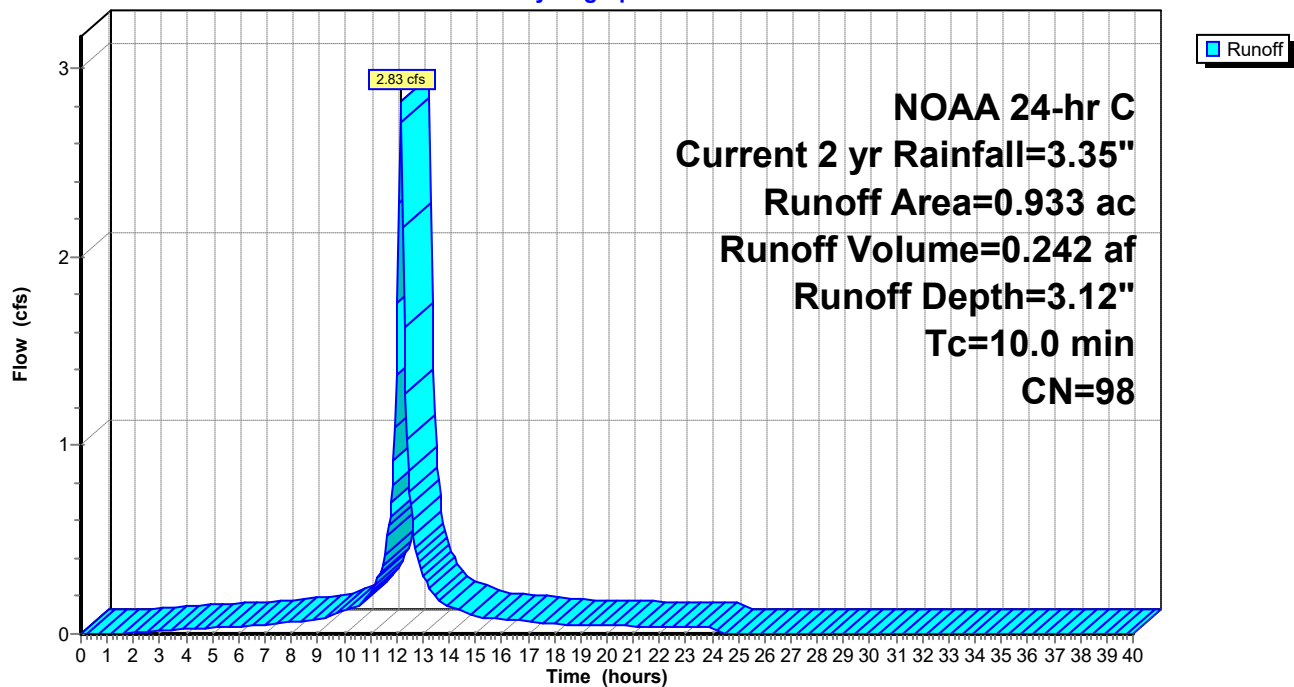
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.933	98	Concrete, HSG C
0.933		100.00% Impervious Area

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

Subcatchment 11I: PDA-11 (impervious)

Hydrograph



Summary for Subcatchment 11P: PDA-11 (pervious)

Runoff = 2.12 cfs @ 12.18 hrs, Volume= 0.164 af, Depth= 1.14"
 Routed to Pond B-11 : Basin #11

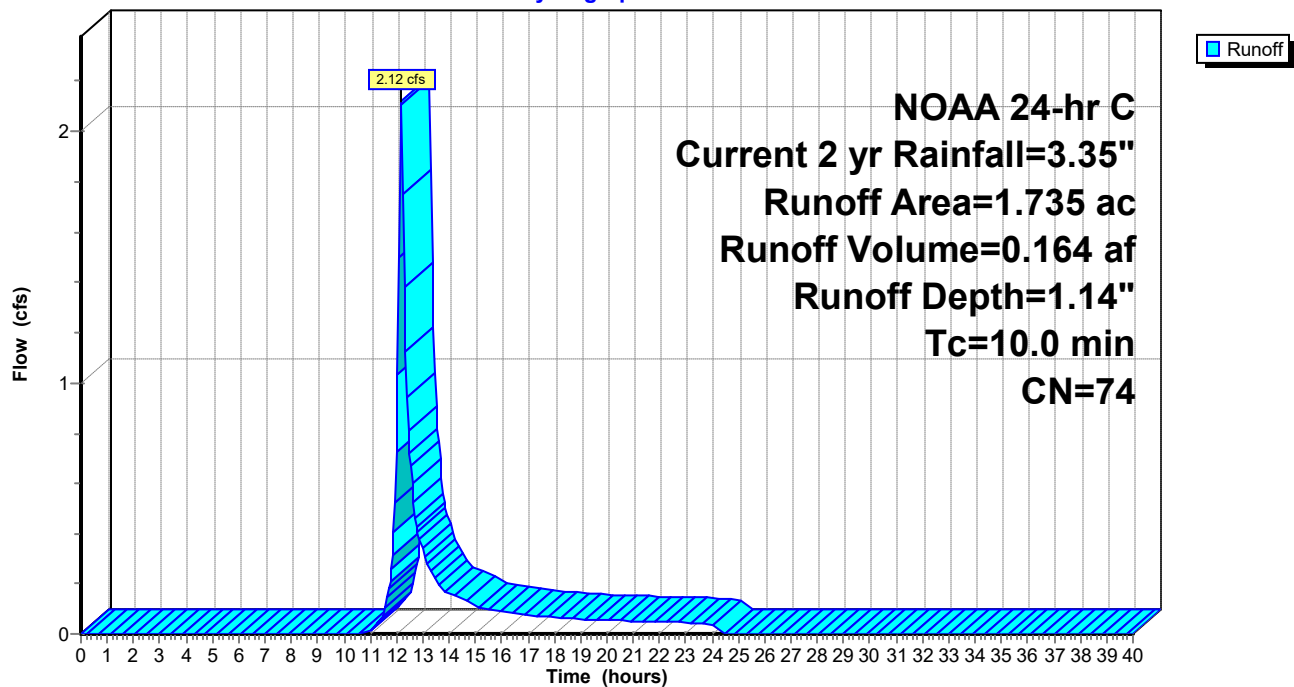
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.735	74	>75% Grass cover, Good, HSG C
1.735		100.00% Pervious Area

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

Subcatchment 11P: PDA-11 (pervious)

Hydrograph



Summary for Subcatchment 12I: PDA-12 (impervious)

Runoff = 4.15 cfs @ 12.17 hrs, Volume= 0.356 af, Depth= 3.12"
 Routed to Pond B-12 : Basin #12

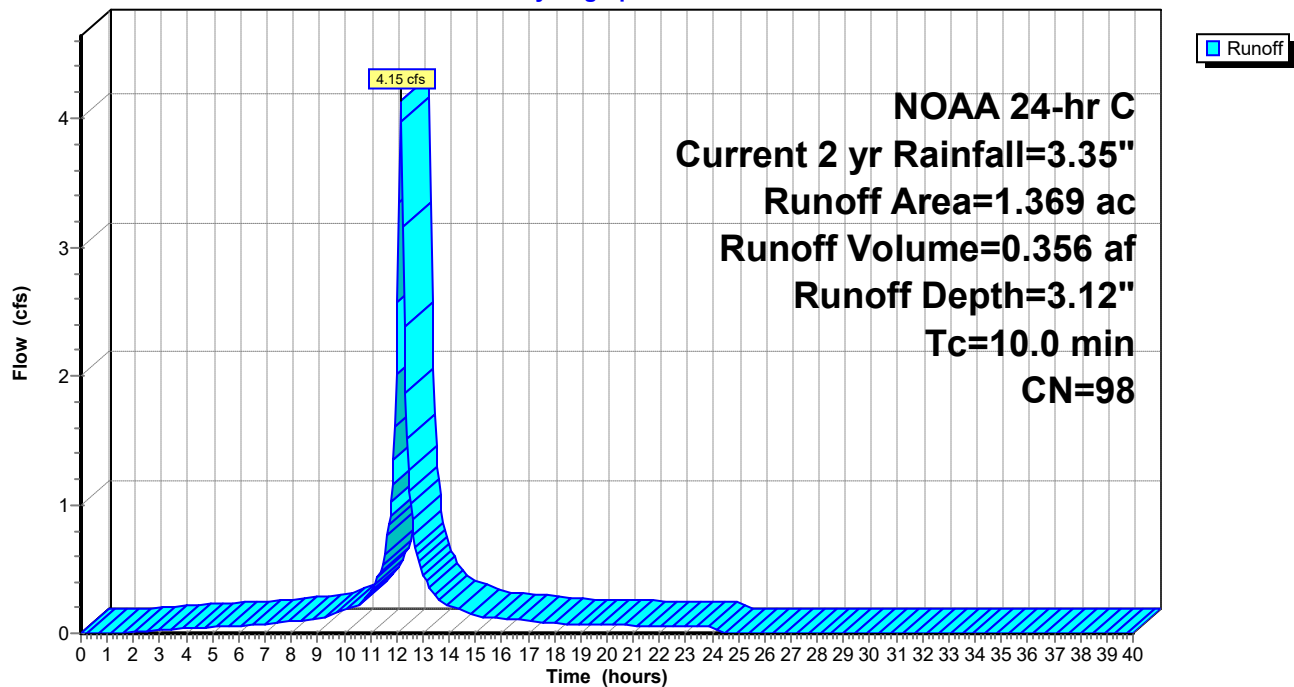
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.559	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.103	98	Concrete, HSG C
1.369	98	Weighted Average
1.369		100.00% Impervious Area

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

Subcatchment 12I: PDA-12 (impervious)

Hydrograph



Summary for Subcatchment 12P: PDA-12 (pervious)

Runoff = 0.78 cfs @ 12.18 hrs, Volume= 0.060 af, Depth= 1.14"
 Routed to Pond B-12 : Basin #12

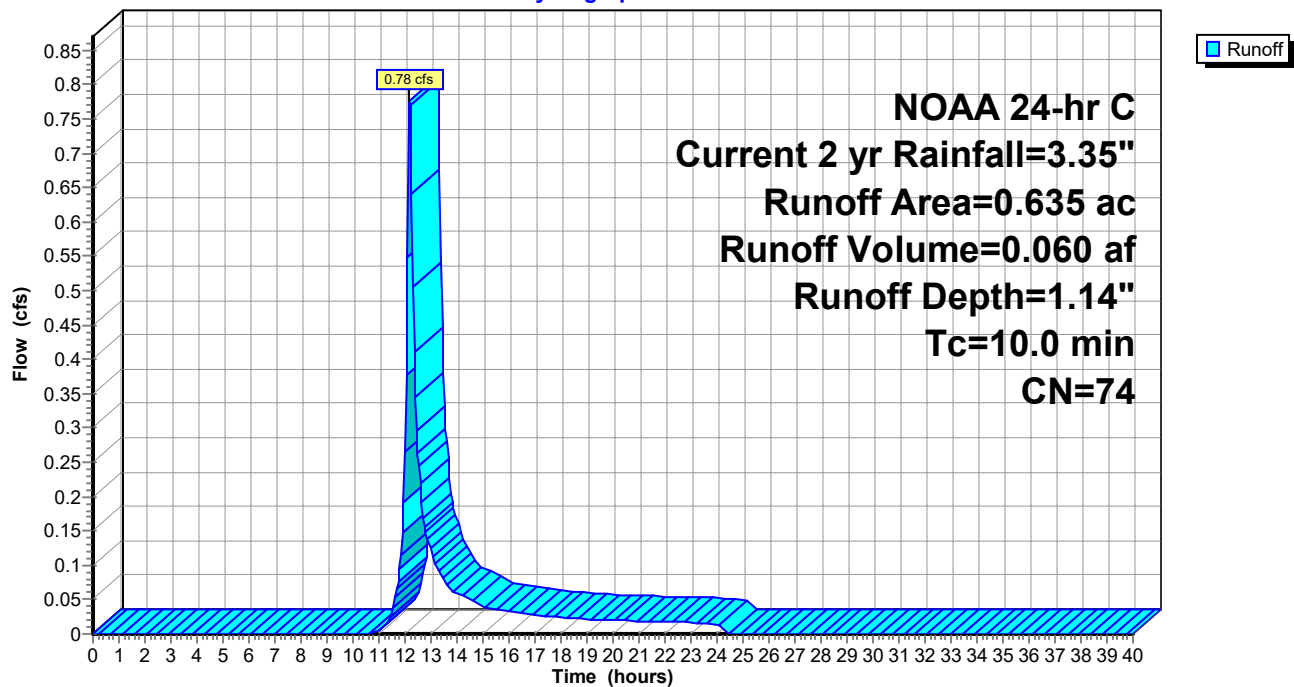
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.635	74	>75% Grass cover, Good, HSG C
0.635		100.00% Pervious Area

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

Subcatchment 12P: PDA-12 (pervious)

Hydrograph



Summary for Subcatchment 13I: PDA-13 (impervious)

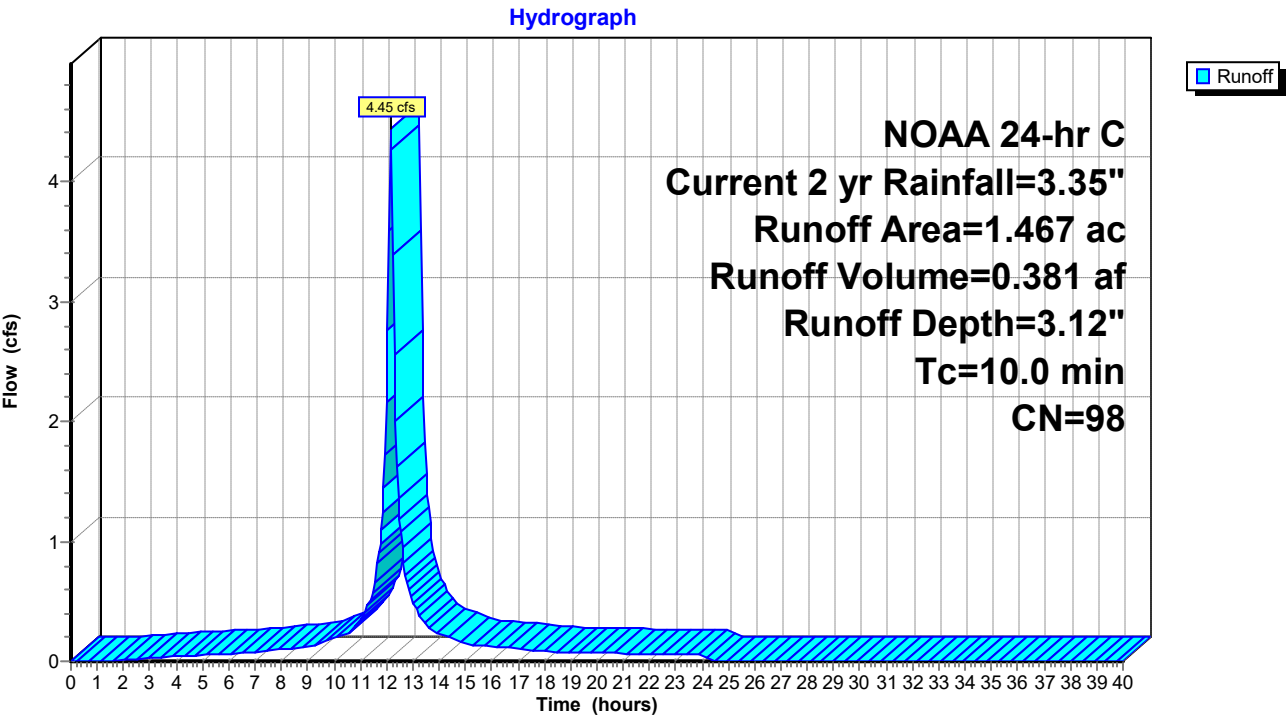
Runoff = 4.45 cfs @ 12.17 hrs, Volume= 0.381 af, Depth= 3.12"
Routed to Pond B-13 : Basin #13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.678	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.082	98	Concrete, HSG C
1.467	98	Weighted Average
1.467		100.00% Impervious Area

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

Subcatchment 13I: PDA-13 (impervious)



Summary for Subcatchment 13P: PDA-13 (pervious)

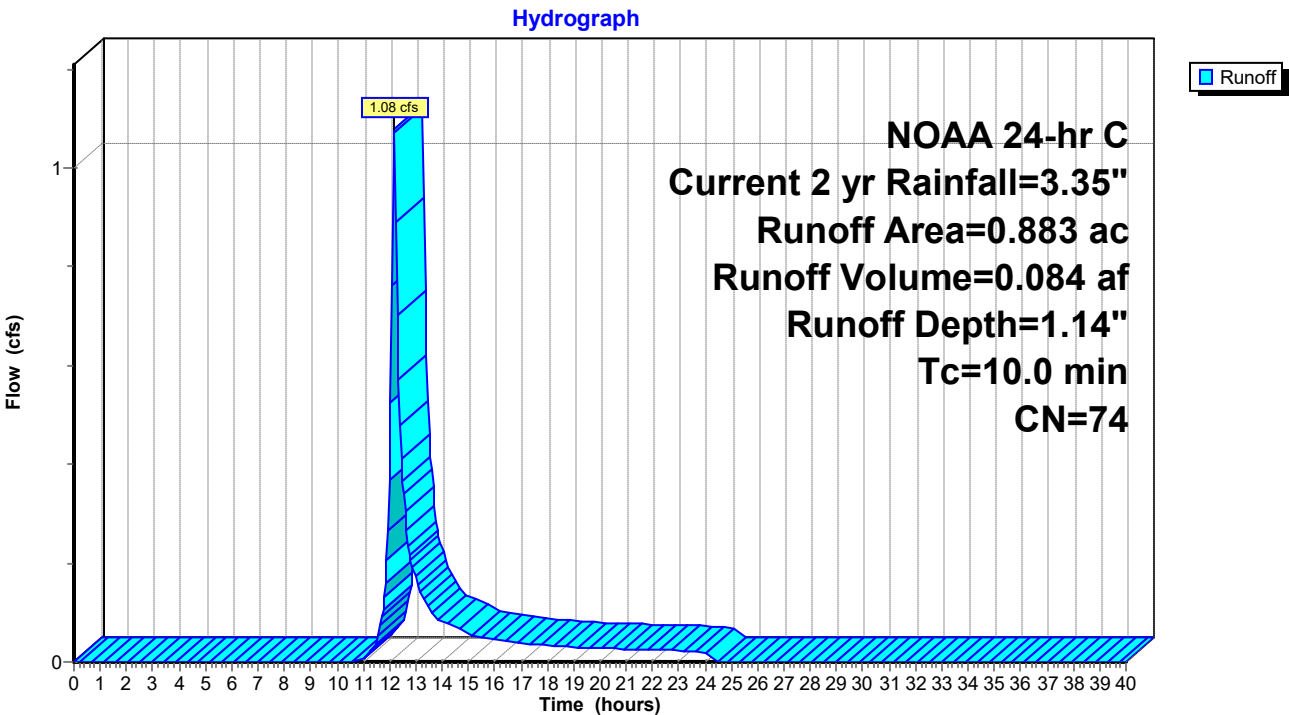
Runoff = 1.08 cfs @ 12.18 hrs, Volume= 0.084 af, Depth= 1.14"
Routed to Pond B-13 : Basin #13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.883	74	>75% Grass cover, Good, HSG C
0.883		100.00% Pervious Area

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

Subcatchment 13P: PDA-13 (pervious)



Summary for Subcatchment 14I: PDA-14 (impervious)

Runoff = 1.54 cfs @ 12.17 hrs, Volume= 0.132 af, Depth= 3.12"
 Routed to Pond B-14 : Basin #14

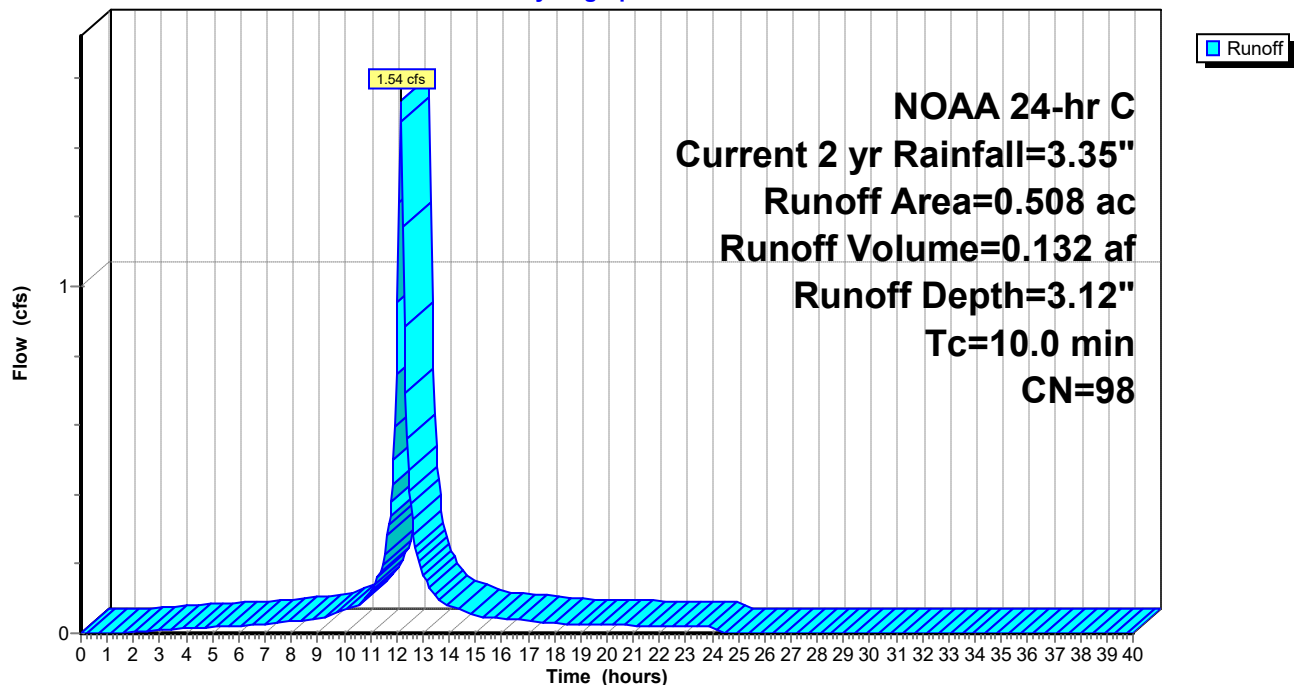
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.308	98	Pavement, HSG C
* 0.064	98	Roof, HSG C
* 0.136	98	Concrete, HSG C
0.508	98	Weighted Average
0.508		100.00% Impervious Area

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

Subcatchment 14I: PDA-14 (impervious)

Hydrograph



Summary for Subcatchment 14P: PDA-14 (pervious)

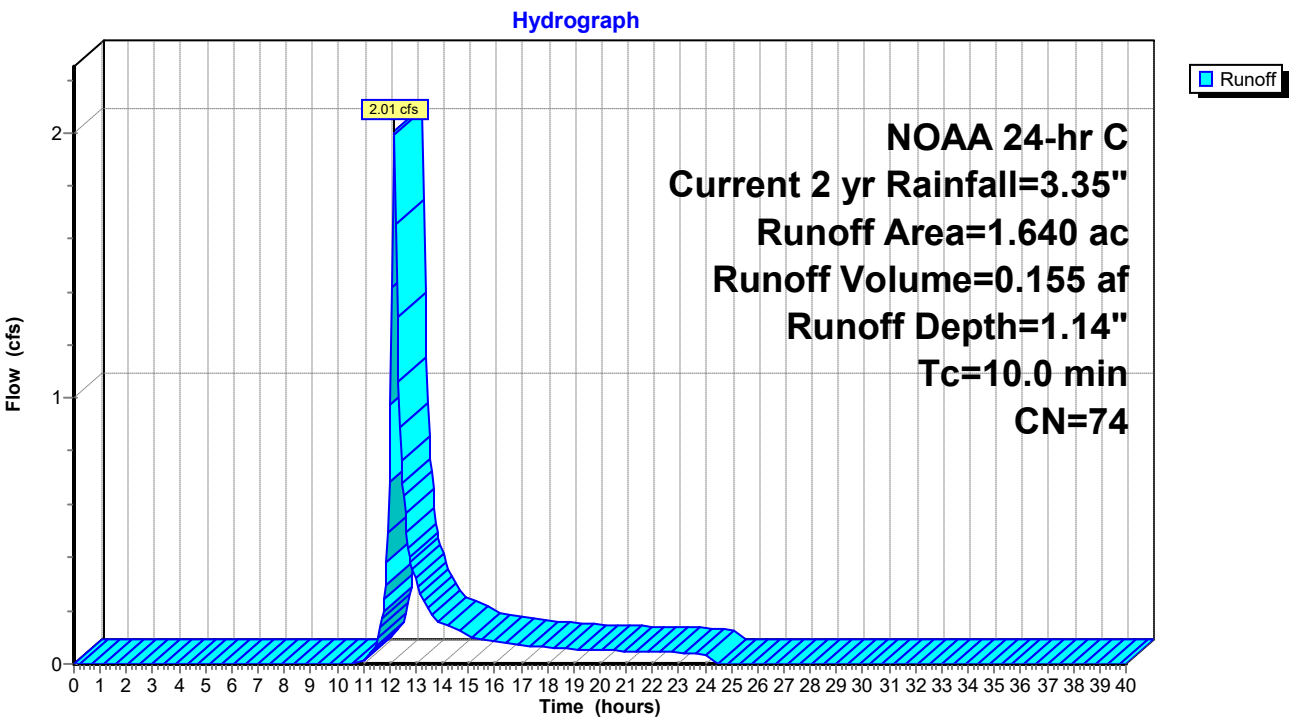
Runoff = 2.01 cfs @ 12.18 hrs, Volume= 0.155 af, Depth= 1.14"
Routed to Pond B-14 : Basin #14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.640	74	>75% Grass cover, Good, HSG C
1.640		100.00% Pervious Area

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

Subcatchment 14P: PDA-14 (pervious)



Summary for Subcatchment 15I: PDA-15 (impervious)

Runoff = 4.21 cfs @ 12.17 hrs, Volume= 0.361 af, Depth= 3.12"
 Routed to Pond B-15 : Basin #15

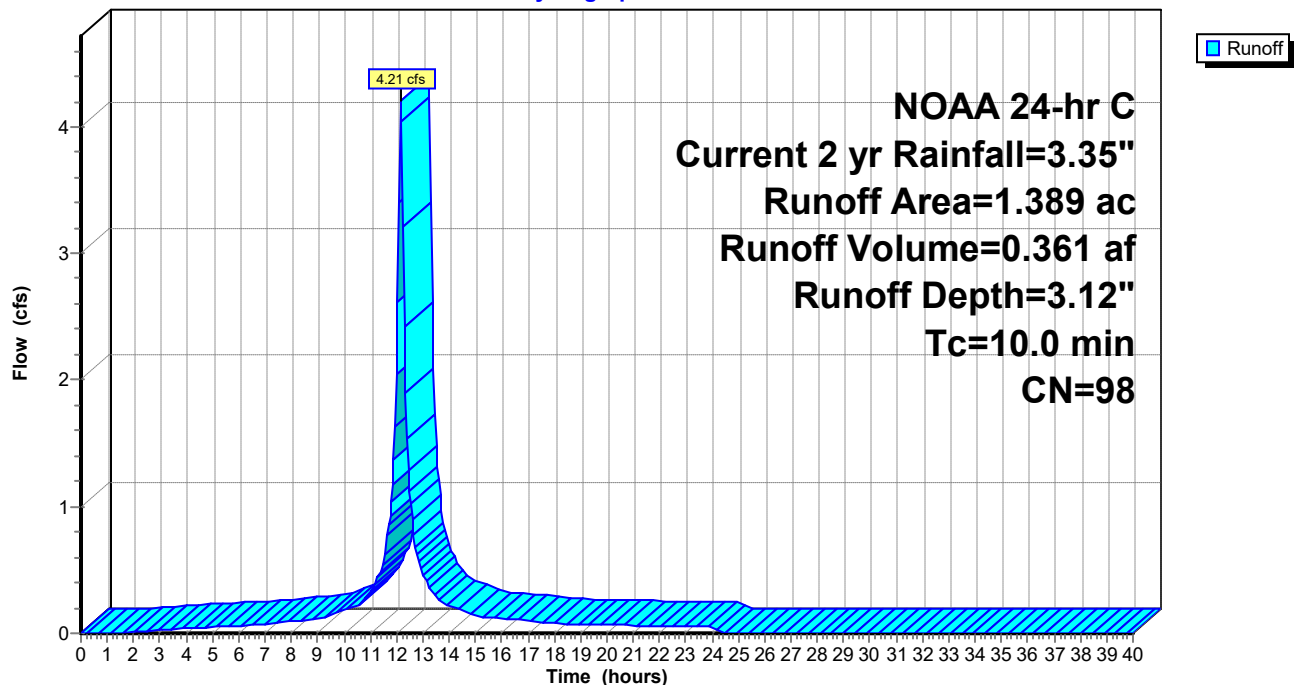
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.501	98	Pavement, HSG C
* 0.836	98	Roof, HSG C
* 0.052	98	Concrete, HSG C
1.389	98	Weighted Average
1.389		100.00% Impervious Area

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

Subcatchment 15I: PDA-15 (impervious)

Hydrograph



Summary for Subcatchment 15P: PDA-15 (pervious)

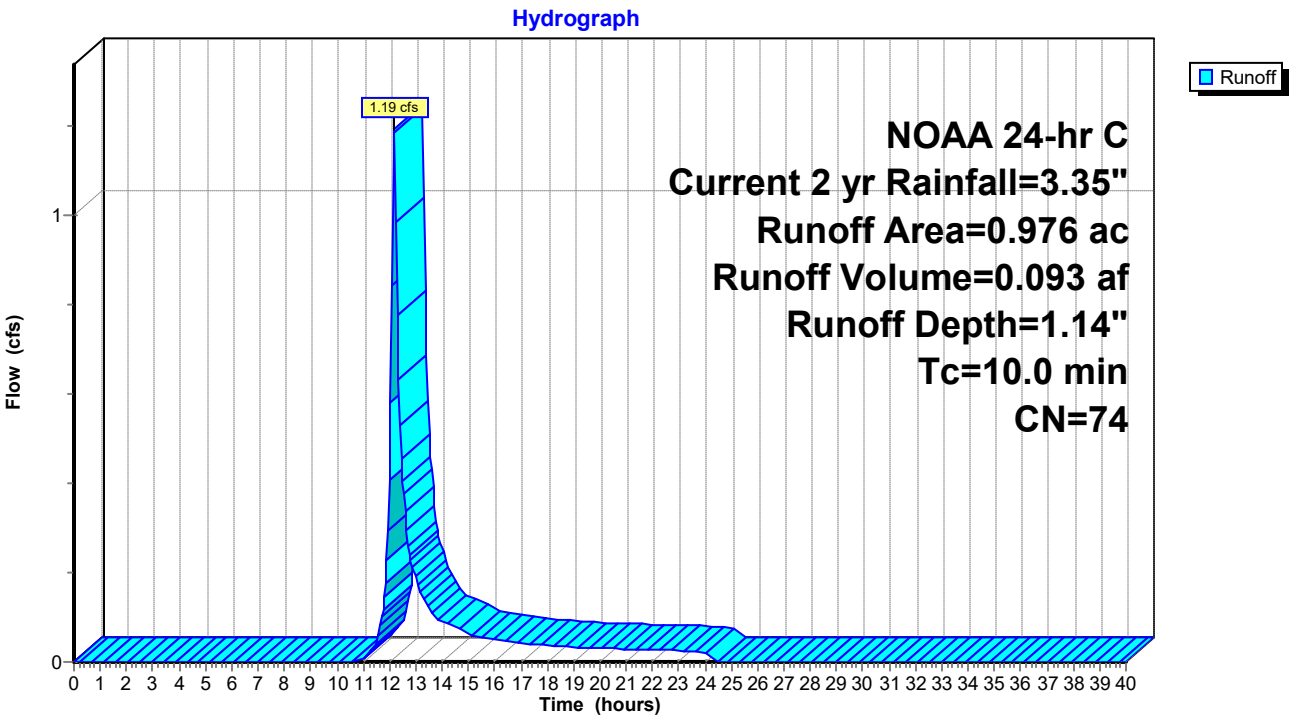
Runoff = 1.19 cfs @ 12.18 hrs, Volume= 0.093 af, Depth= 1.14"
Routed to Pond B-15 : Basin #15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.976	74	>75% Grass cover, Good, HSG C
0.976		100.00% Pervious Area

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

Subcatchment 15P: PDA-15 (pervious)



Summary for Subcatchment 16I: PDA-16 (impervious)

Runoff = 3.53 cfs @ 12.17 hrs, Volume= 0.303 af, Depth= 3.12"
 Routed to Pond B-16 : Basin #16

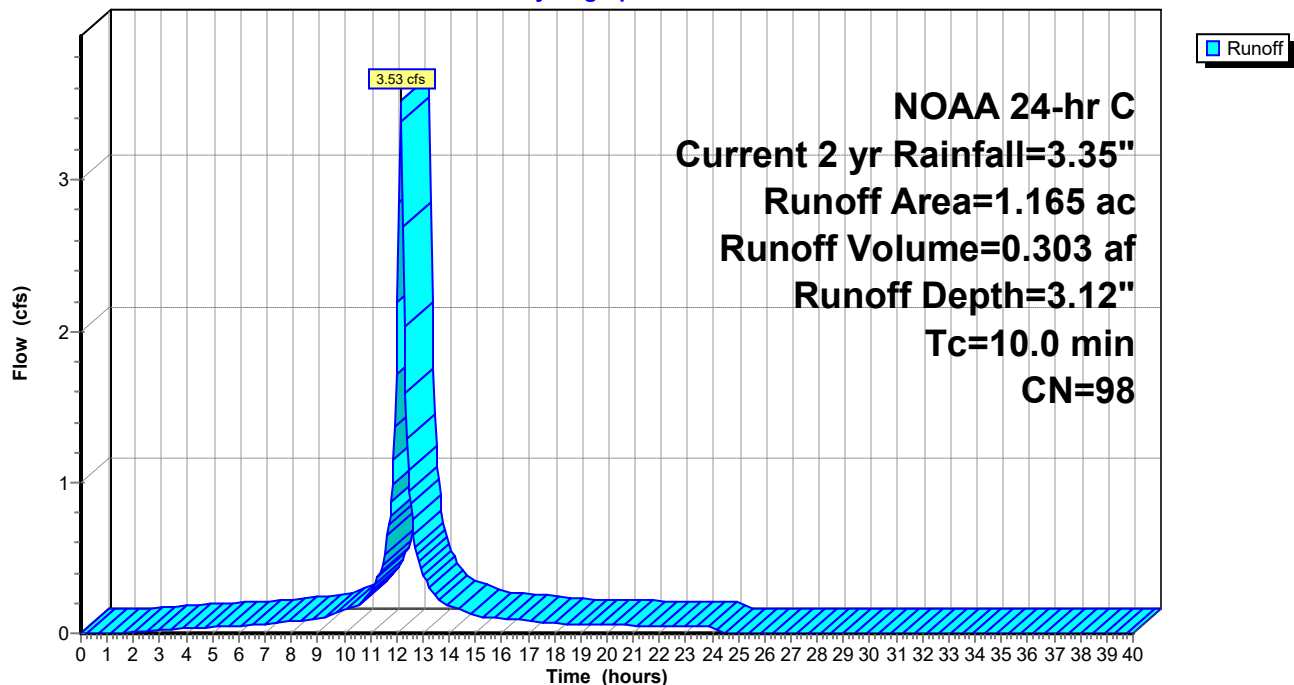
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.712	98	Pavement, HSG C
* 0.386	98	Roof, HSG C
* 0.067	98	Concrete, HSG C
1.165	98	Weighted Average
1.165		100.00% Impervious Area

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

Subcatchment 16I: PDA-16 (impervious)

Hydrograph



Summary for Subcatchment 16P: PDA-16 (pervious)

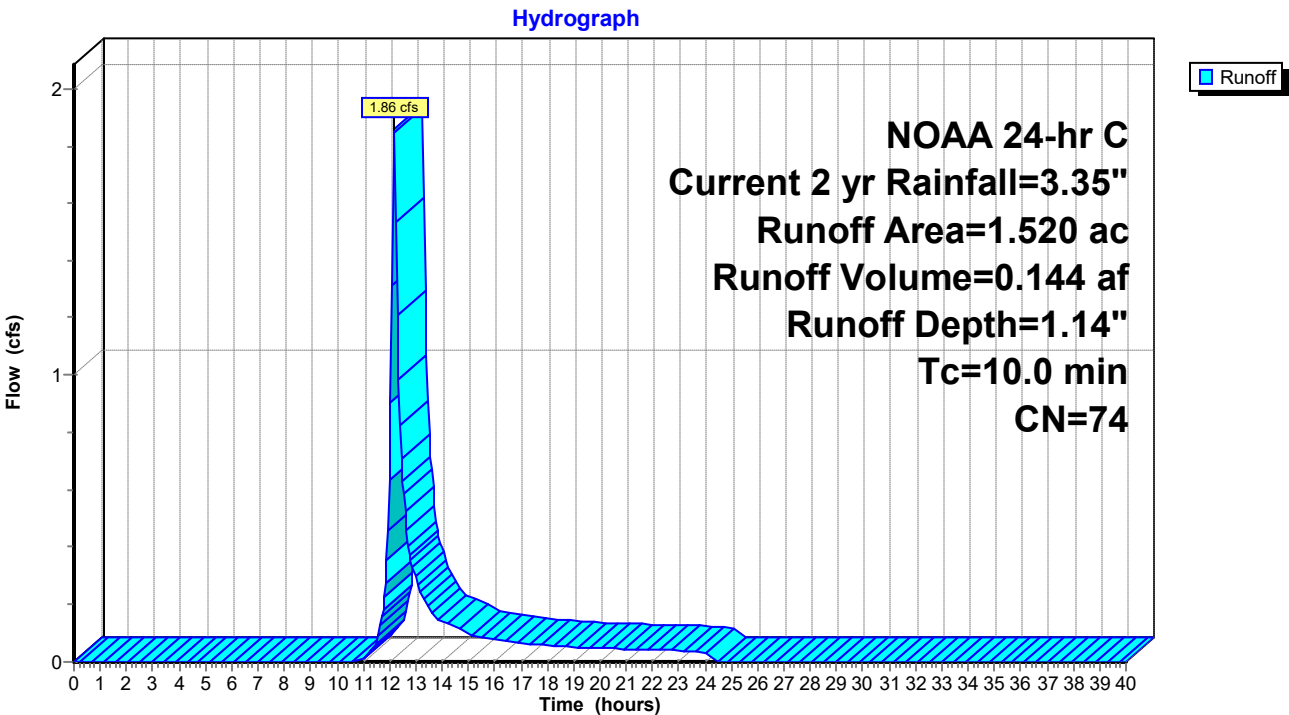
Runoff = 1.86 cfs @ 12.18 hrs, Volume= 0.144 af, Depth= 1.14"
Routed to Pond B-16 : Basin #16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.520	74	>75% Grass cover, Good, HSG C
1.520		100.00% Pervious Area

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

Subcatchment 16P: PDA-16 (pervious)



Summary for Subcatchment 17I: PDA-17 (impervious)

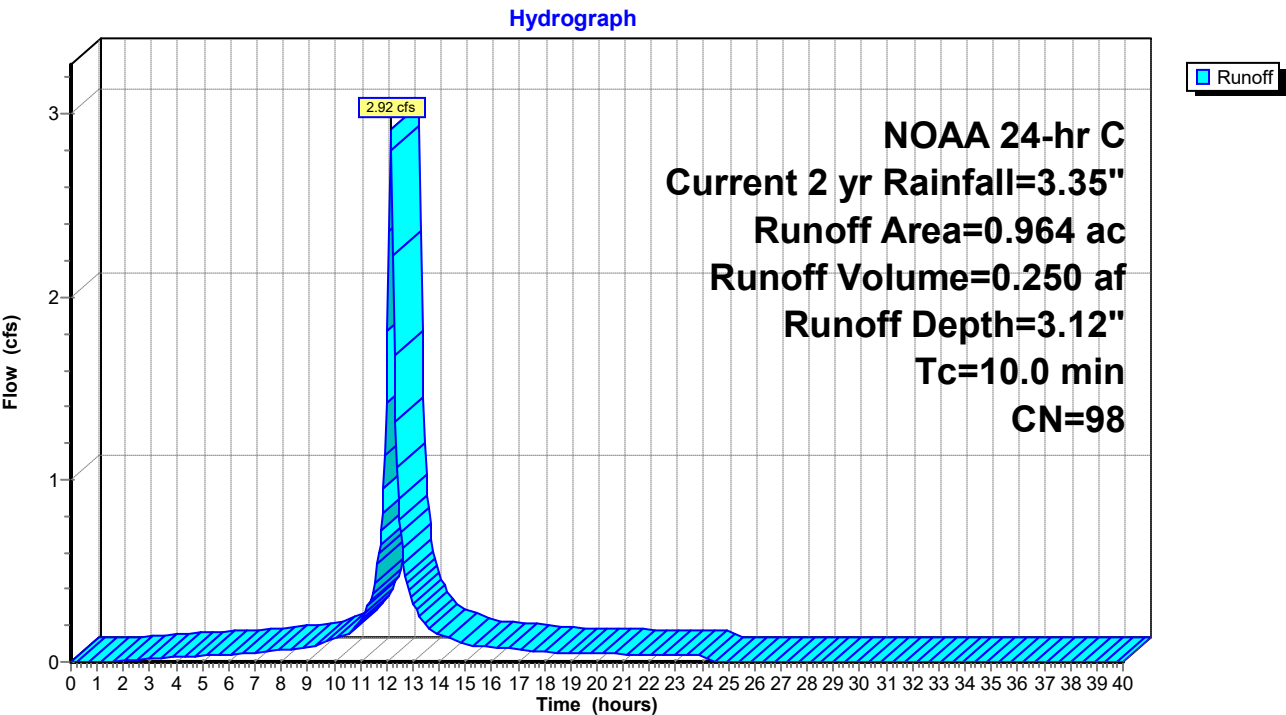
Runoff = 2.92 cfs @ 12.17 hrs, Volume= 0.250 af, Depth= 3.12"
Routed to Pond B-17 : Basin #17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.964	98	Roof, HSG C
0.964		100.00% Impervious Area

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

Subcatchment 17I: PDA-17 (impervious)



Summary for Subcatchment 17P: PDA-17 (pervious)

Runoff = 2.24 cfs @ 12.18 hrs, Volume= 0.173 af, Depth= 1.14"
 Routed to Pond B-17 : Basin #17

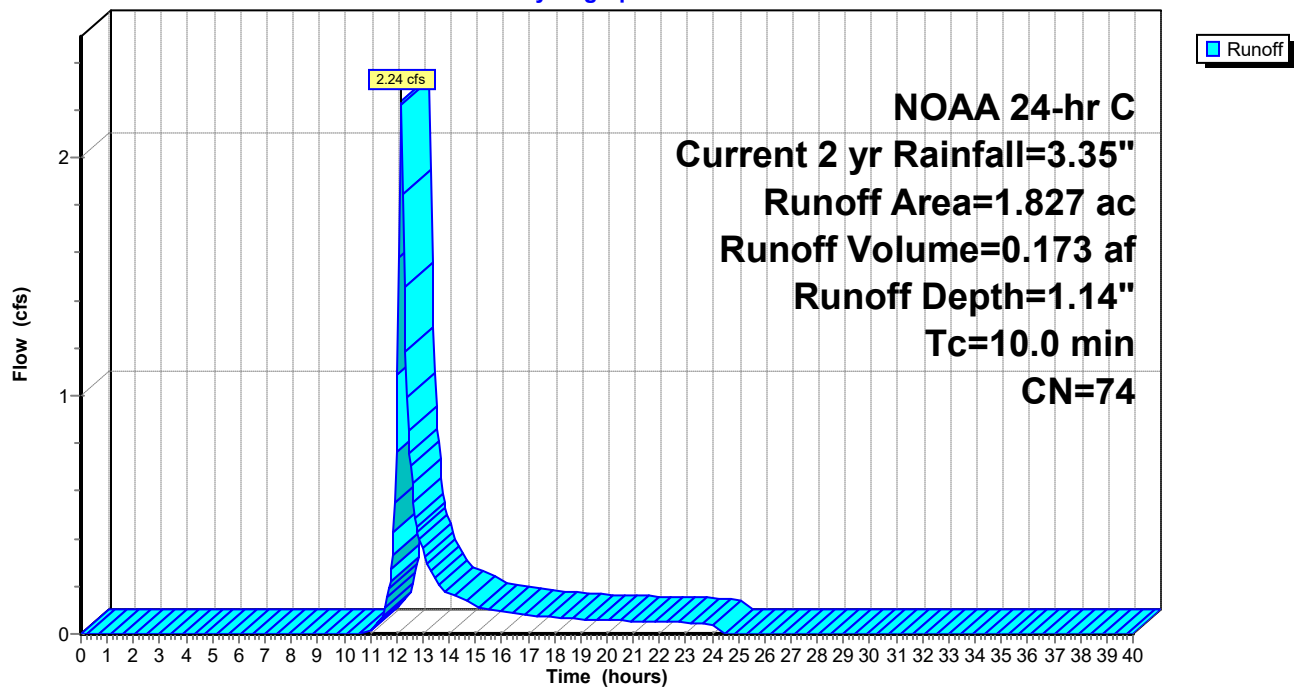
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.827	74	>75% Grass cover, Good, HSG C
1.827		100.00% Pervious Area

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

Subcatchment 17P: PDA-17 (pervious)

Hydrograph



Summary for Subcatchment 18I: PDA-18 (impervious)

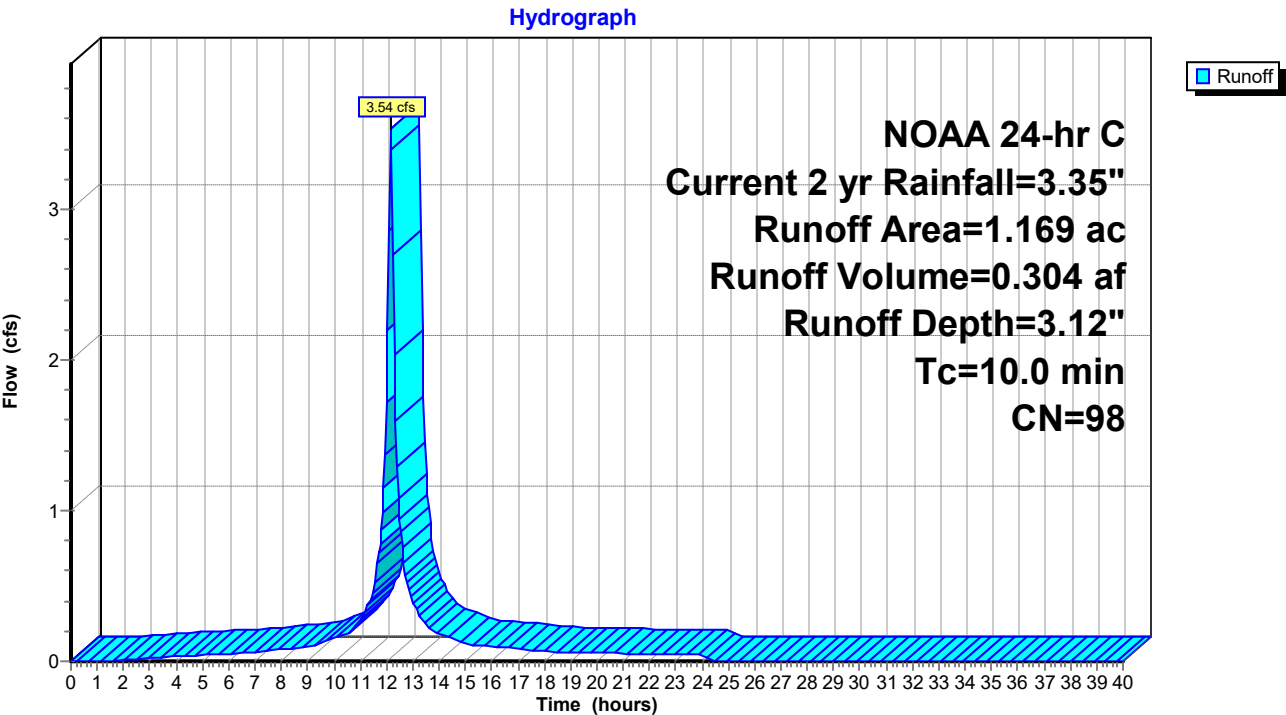
Runoff = 3.54 cfs @ 12.17 hrs, Volume= 0.304 af, Depth= 3.12"
Routed to Pond B-18 : Basin #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.474	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.052	98	Concrete, HSG C
1.169	98	Weighted Average
1.169		100.00% Impervious Area

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

Subcatchment 18I: PDA-18 (impervious)



Summary for Subcatchment 18P: PDA-18 (pervious)

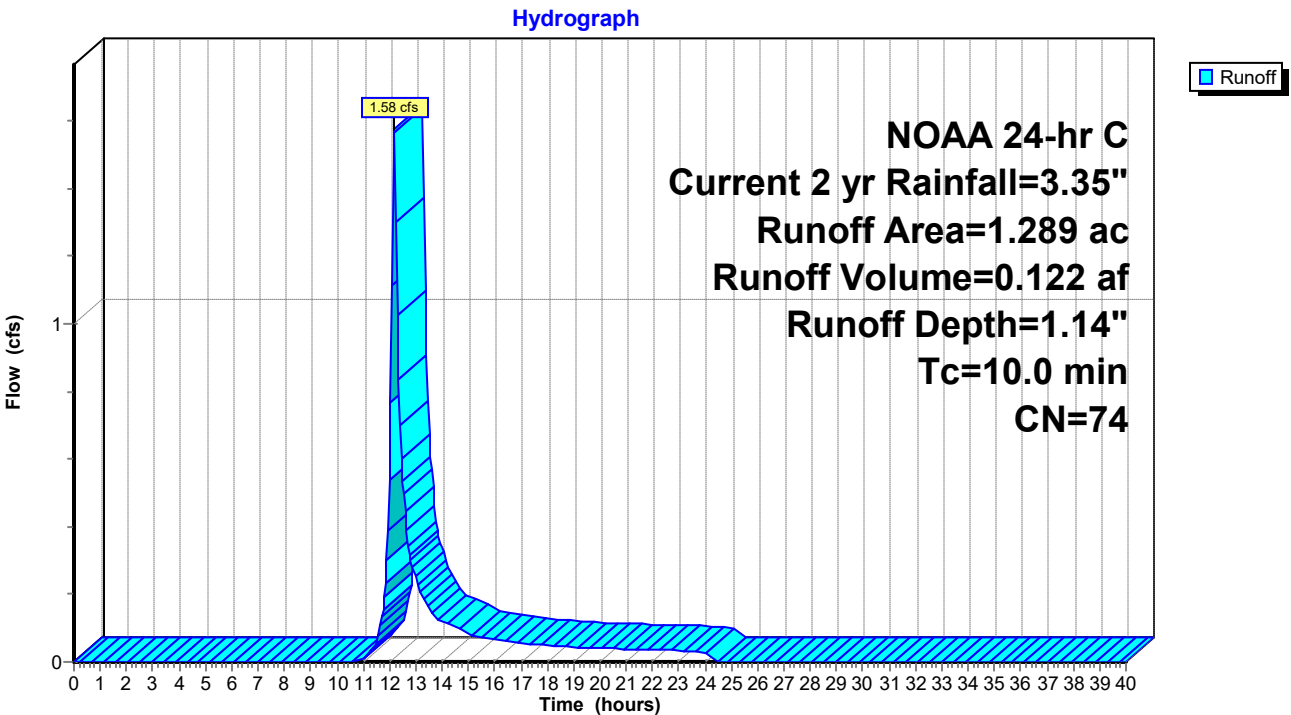
Runoff = 1.58 cfs @ 12.18 hrs, Volume= 0.122 af, Depth= 1.14"
Routed to Pond B-18 : Basin #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.289	74	>75% Grass cover, Good, HSG C
1.289		100.00% Pervious Area

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

Subcatchment 18P: PDA-18 (pervious)



Summary for Subcatchment 19I: PDA-19 (impervious)

Runoff = 1.15 cfs @ 12.17 hrs, Volume= 0.099 af, Depth= 3.12"
 Routed to Pond B-19 : Basin #19

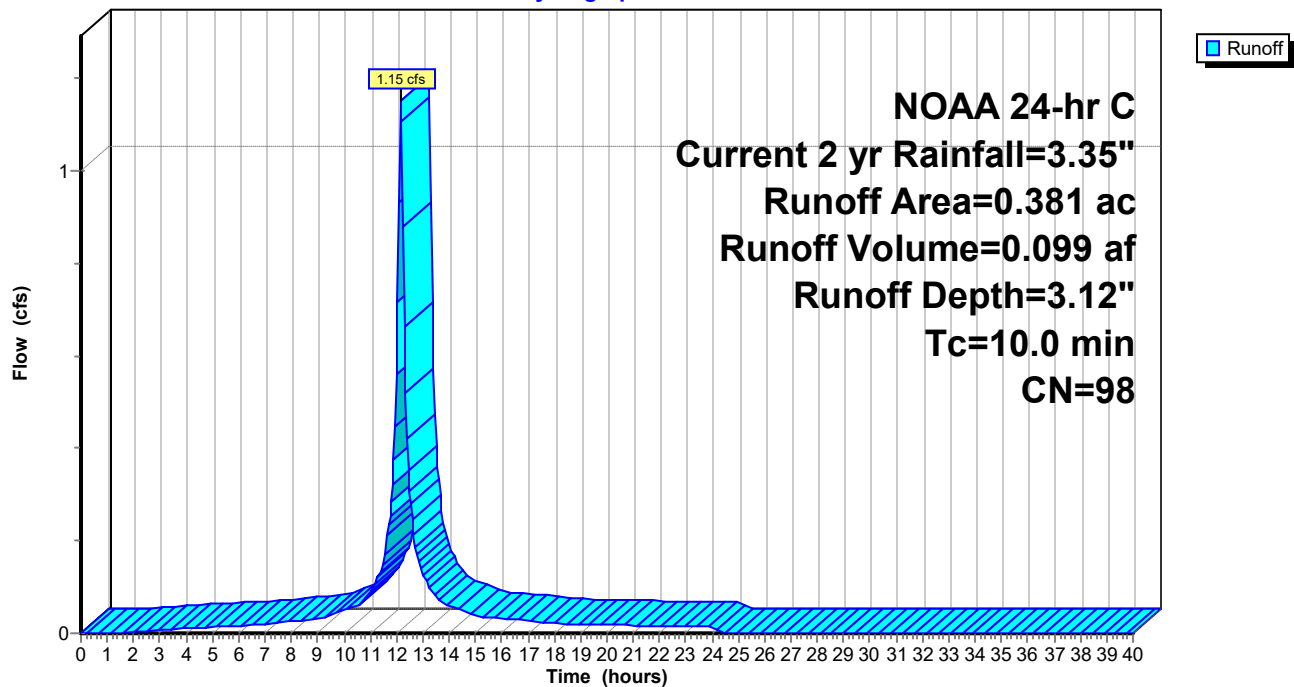
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.167	98	Pavement, HSG C
* 0.193	98	Roof, HSG C
* 0.021	98	Concrete, HSG C
0.381	98	Weighted Average
0.381		100.00% Impervious Area

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

Subcatchment 19I: PDA-19 (impervious)

Hydrograph



Summary for Subcatchment 19P: PDA-19 (pervious)

Runoff = 0.68 cfs @ 12.18 hrs, Volume= 0.052 af, Depth= 1.14"
 Routed to Pond B-19 : Basin #19

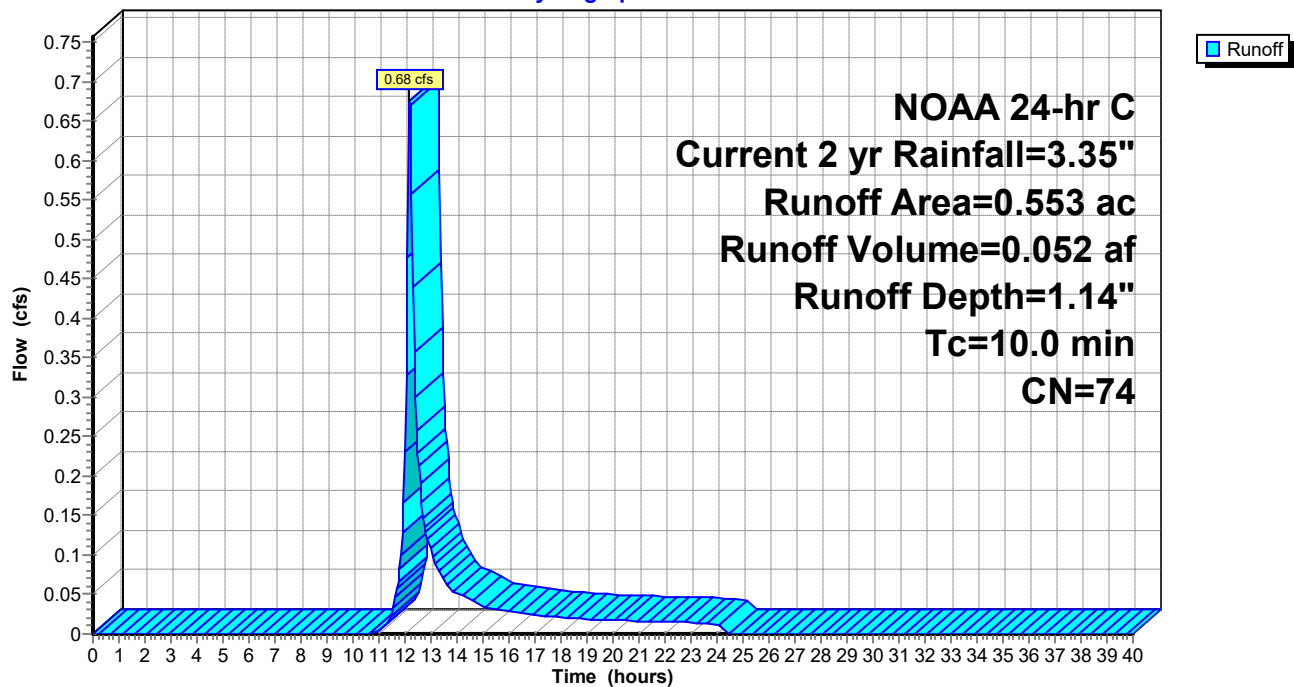
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.553	74	>75% Grass cover, Good, HSG C
0.553		100.00% Pervious Area

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

Subcatchment 19P: PDA-19 (pervious)

Hydrograph



Summary for Subcatchment 20I: PDA-20 (impervious)

Runoff = 3.86 cfs @ 12.17 hrs, Volume= 0.331 af, Depth= 3.12"
 Routed to Pond B-20 : Basin #20

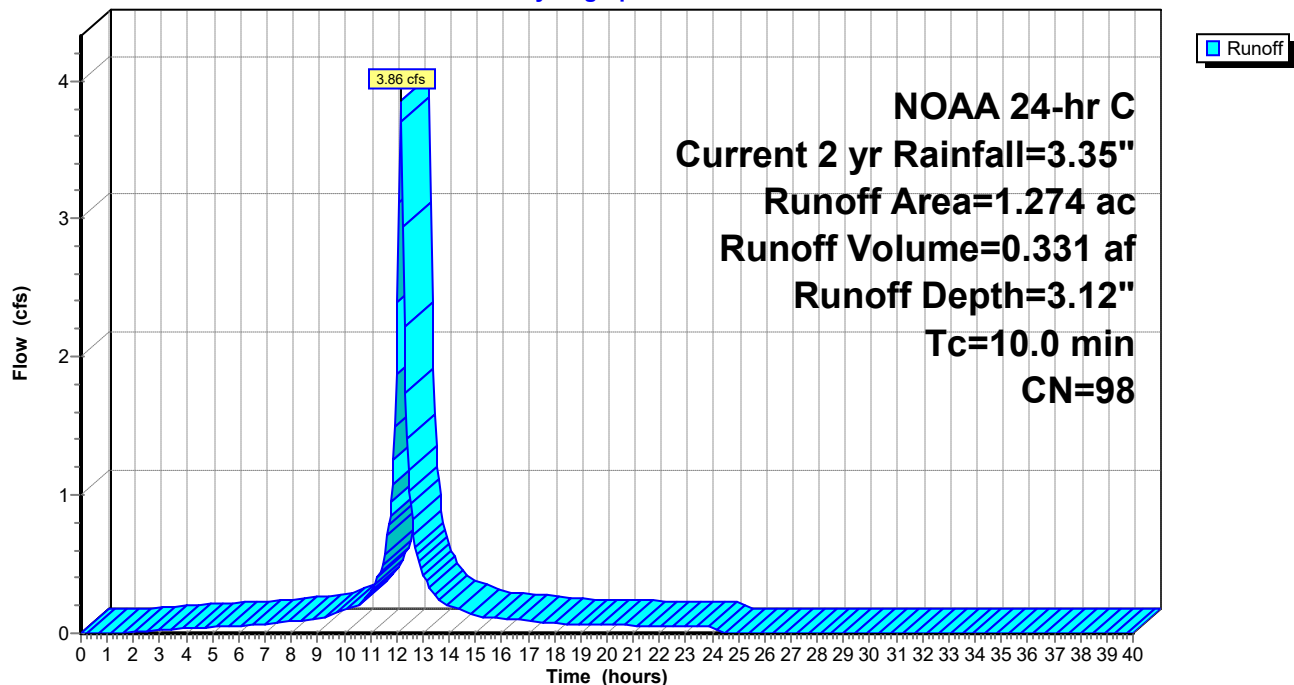
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.500	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.067	98	Concrete, HSC C
1.274	98	Weighted Average
1.274		100.00% Impervious Area

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

Subcatchment 20I: PDA-20 (impervious)

Hydrograph



Summary for Subcatchment 20P: PDA-20 (pervious)

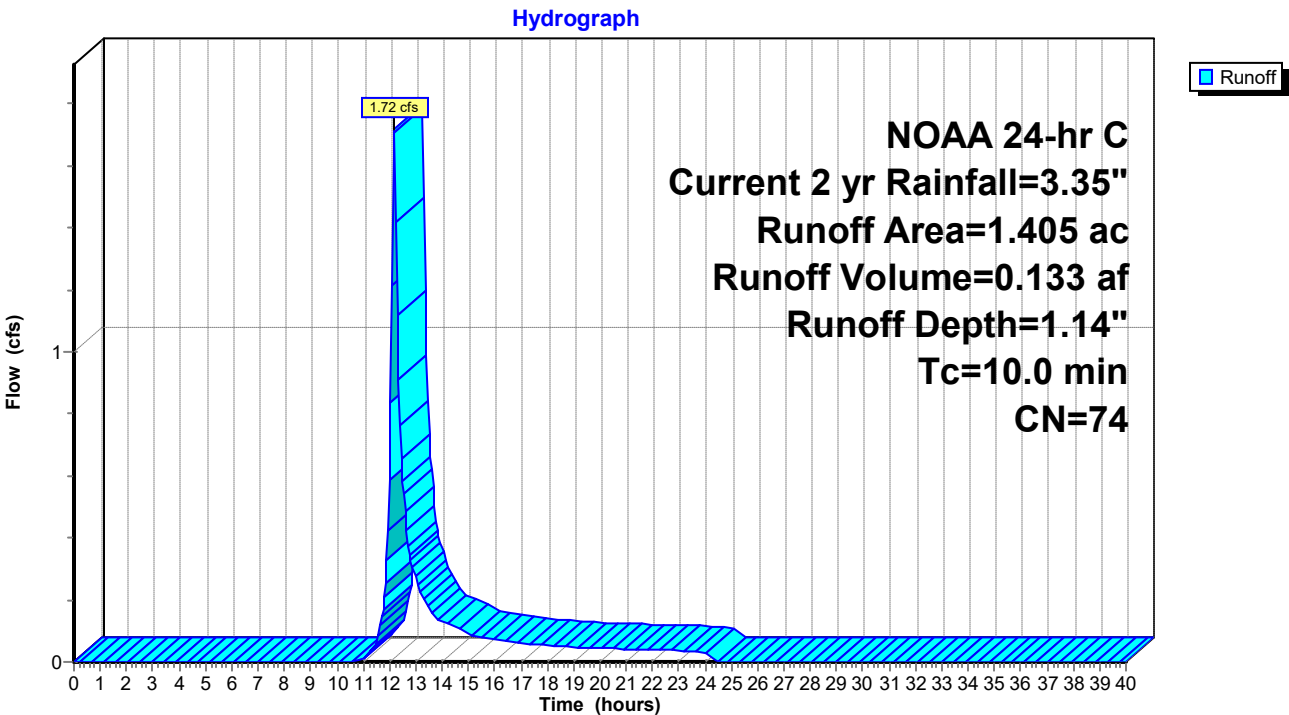
Runoff = 1.72 cfs @ 12.18 hrs, Volume= 0.133 af, Depth= 1.14"
Routed to Pond B-20 : Basin #20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.405	74	>75% Grass cover, Good, HSG C
1.405		100.00% Pervious Area

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

Subcatchment 20P: PDA-20 (pervious)



Summary for Subcatchment 21I: PDA-21 (impervious)

Runoff = 3.38 cfs @ 12.17 hrs, Volume= 0.290 af, Depth= 3.12"
 Routed to Pond B-21 : Basin #21

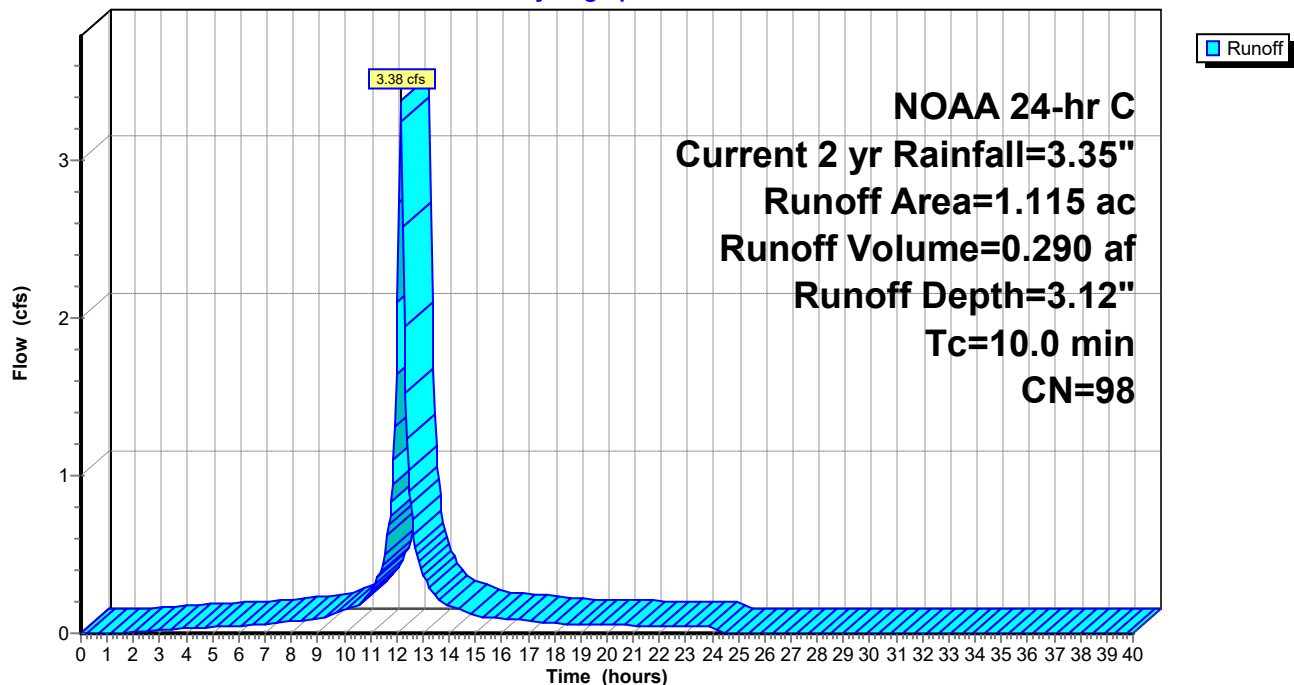
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.556	98	Pavement, HSG C
* 0.514	98	Roof, HSG C
* 0.045	98	Concrete, HSC C
1.115	98	Weighted Average
1.115		100.00% Impervious Area

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

Subcatchment 21I: PDA-21 (impervious)

Hydrograph



Summary for Subcatchment 21P: PDA-21 (pervious)

Runoff = 1.91 cfs @ 12.18 hrs, Volume= 0.148 af, Depth= 1.14"
Routed to Pond B-21 : Basin #21

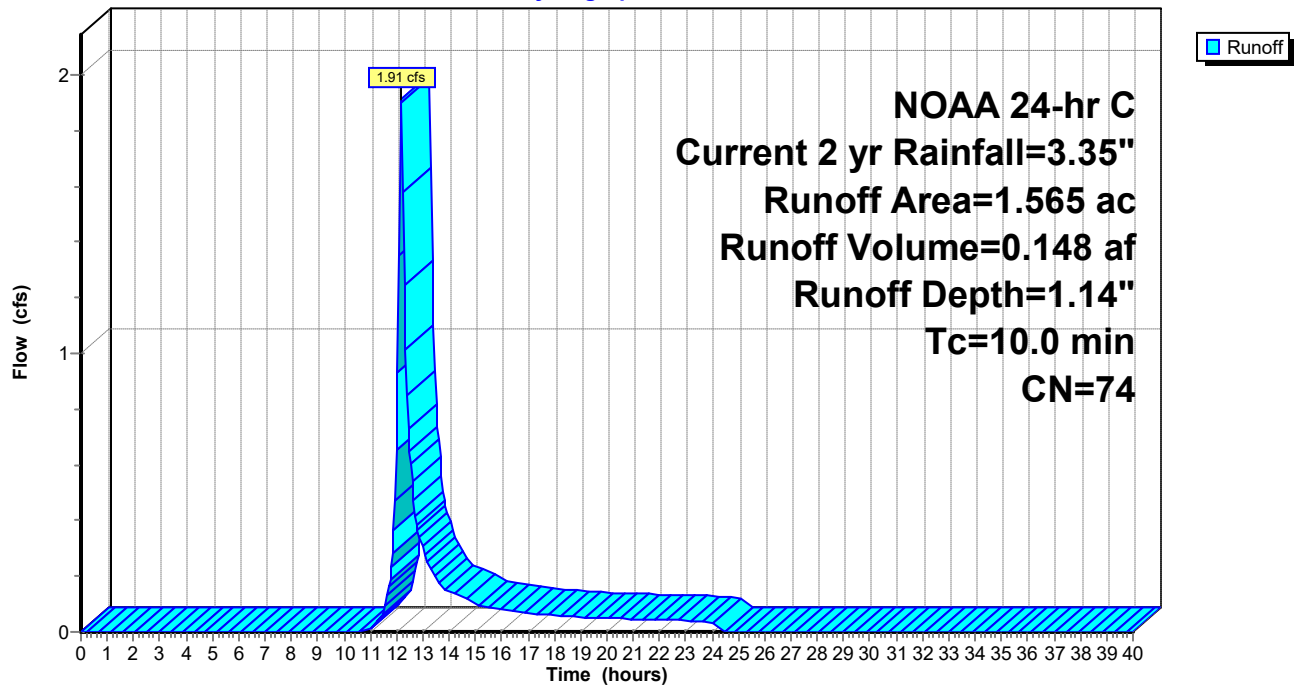
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.565	74	>75% Grass cover, Good, HSG C
1.565		100.00% Pervious Area

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

Subcatchment 21P: PDA-21 (pervious)

Hydrograph



Summary for Subcatchment 22I: PDA-22 (impervious)

Runoff = 2.51 cfs @ 12.17 hrs, Volume= 0.215 af, Depth= 3.12"
 Routed to Pond B-22 : Basin #22

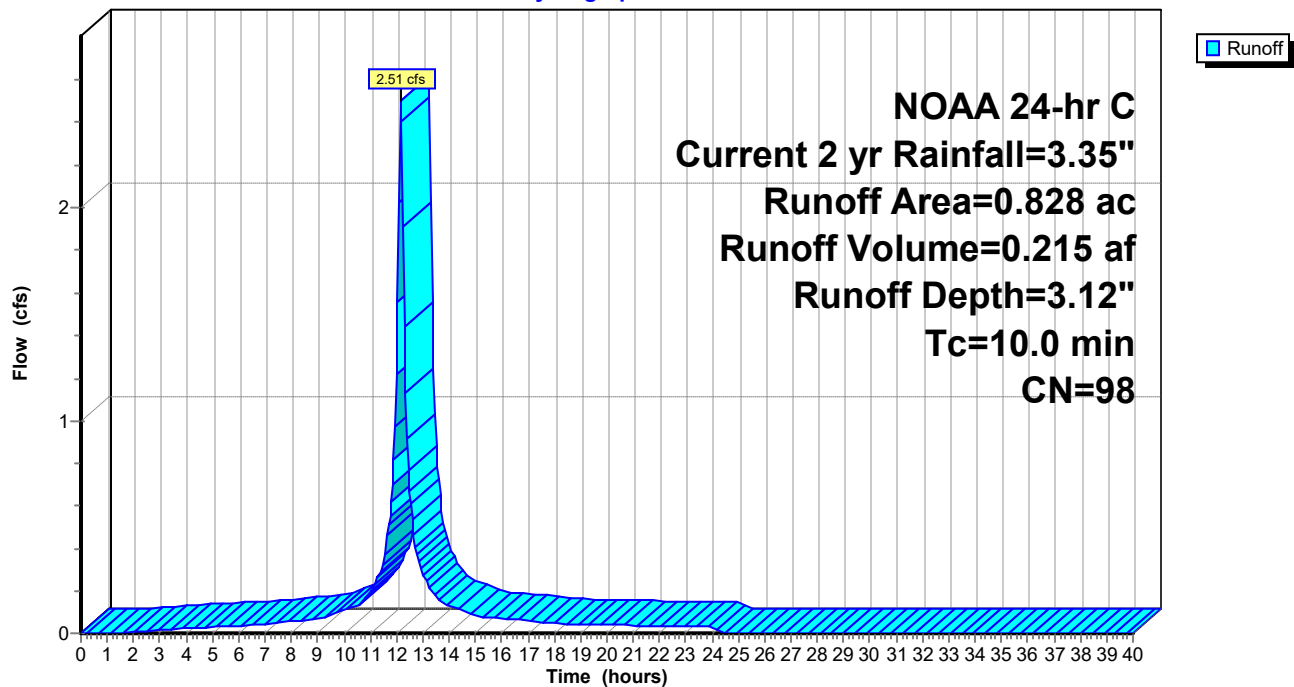
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.372	98	Pavement, HSG C
* 0.386	98	Roof, HSG C
* 0.070	98	Concrete, HSC C
0.828	98	Weighted Average
0.828		100.00% Impervious Area

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

Subcatchment 22I: PDA-22 (impervious)

Hydrograph



Summary for Subcatchment 22P: PDA-22 (pervious)

Runoff = 2.34 cfs @ 12.18 hrs, Volume= 0.182 af, Depth= 1.14"
 Routed to Pond B-22 : Basin #22

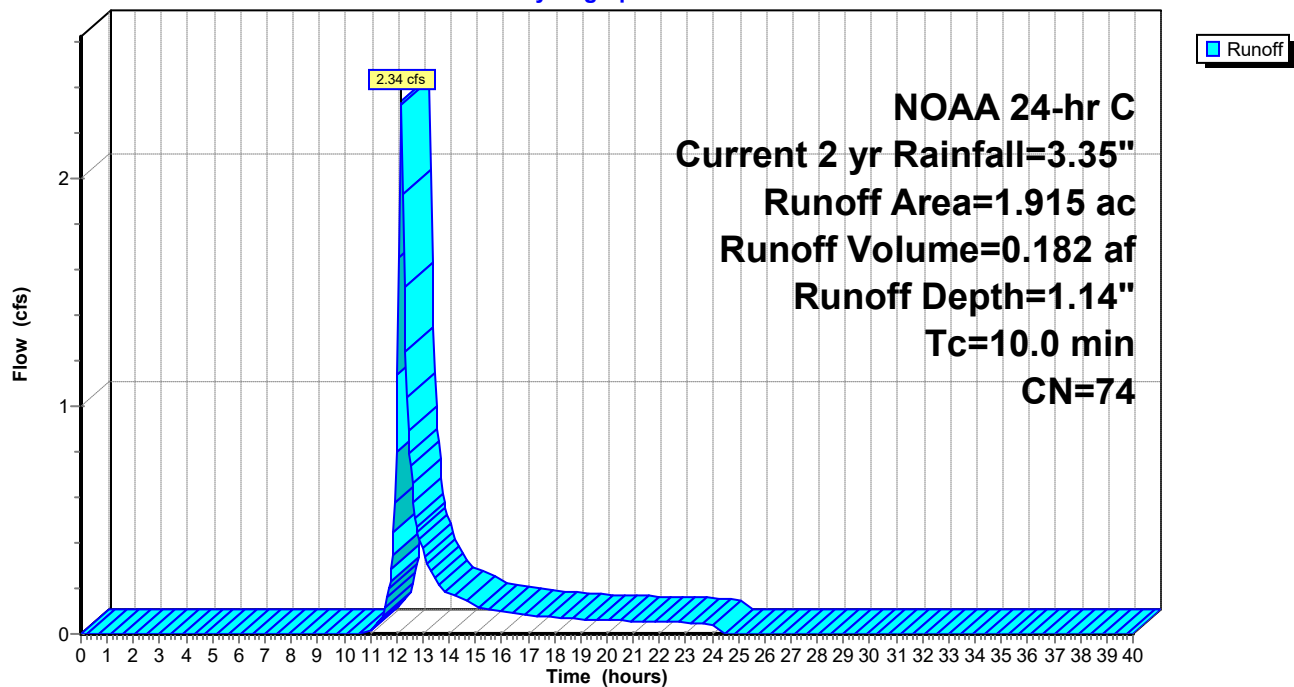
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.915	74	>75% Grass cover, Good, HSG C
1.915		100.00% Pervious Area

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

Subcatchment 22P: PDA-22 (pervious)

Hydrograph



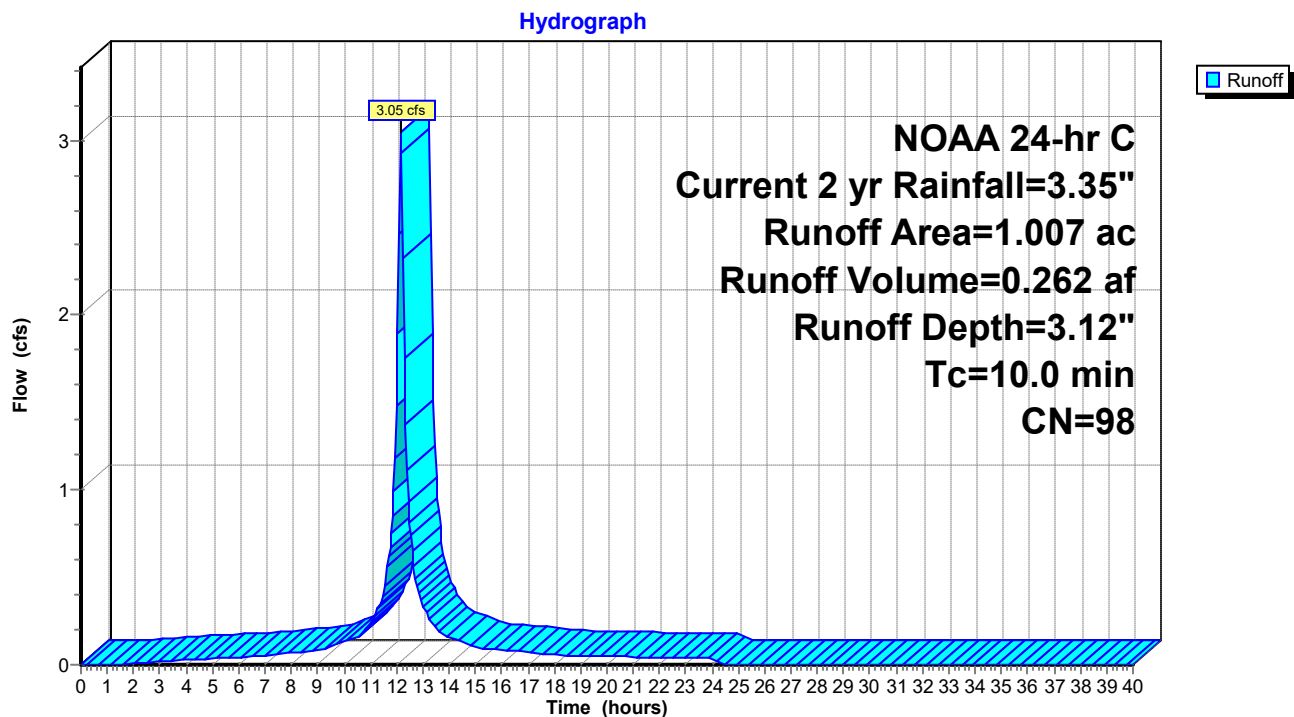
Summary for Subcatchment 23I: PDA-23 (impervious)

Runoff = 3.05 cfs @ 12.17 hrs, Volume= 0.262 af, Depth= 3.12"
 Routed to Pond B-23 : Basin #23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.987	98	Pavement, HSG C
* 0.020	98	Concrete, HSG C
1.007	98	Weighted Average
1.007		100.00% Impervious Area

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

Subcatchment 23I: PDA-23 (impervious)

Summary for Subcatchment 23P: PDA-23 (pervious)

Runoff = 0.62 cfs @ 12.18 hrs, Volume= 0.048 af, Depth= 1.14"
 Routed to Pond B-23 : Basin #23

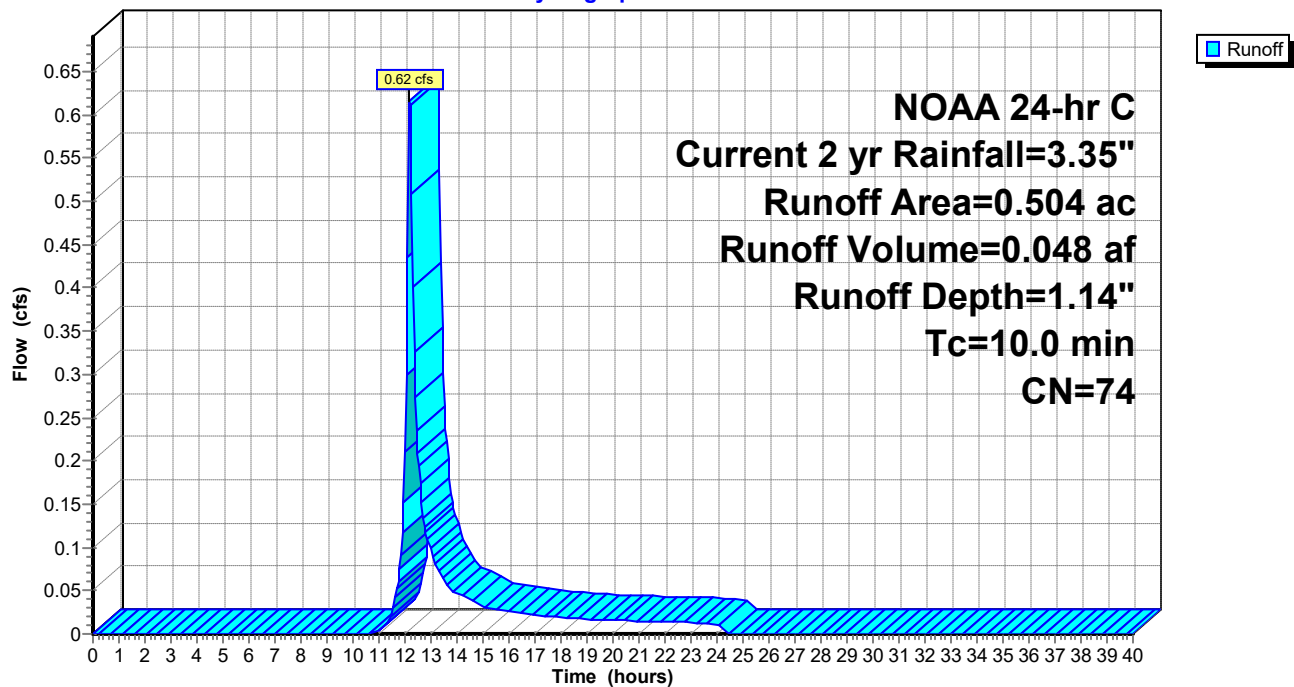
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.504	74	>75% Grass cover, Good, HSG C
0.504		100.00% Pervious Area

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

Subcatchment 23P: PDA-23 (pervious)

Hydrograph



Summary for Subcatchment 24I: PDA-24 (impervious)

Runoff = 3.72 cfs @ 12.17 hrs, Volume= 0.319 af, Depth= 3.12"
 Routed to Pond B-24 : Basin #24

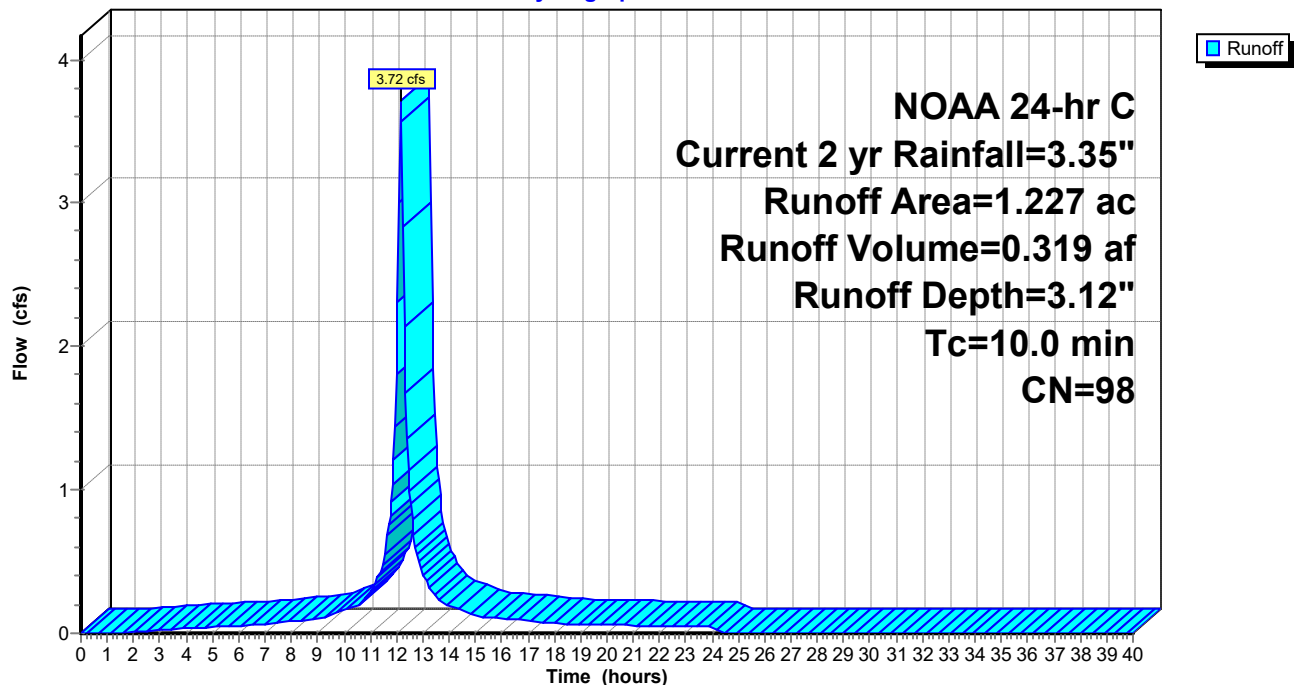
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.525	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.059	98	Concrete, HSC C
1.227	98	Weighted Average
1.227		100.00% Impervious Area

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

Subcatchment 24I: PDA-24 (impervious)

Hydrograph



Summary for Subcatchment 24P: PDA-24 (pervious)

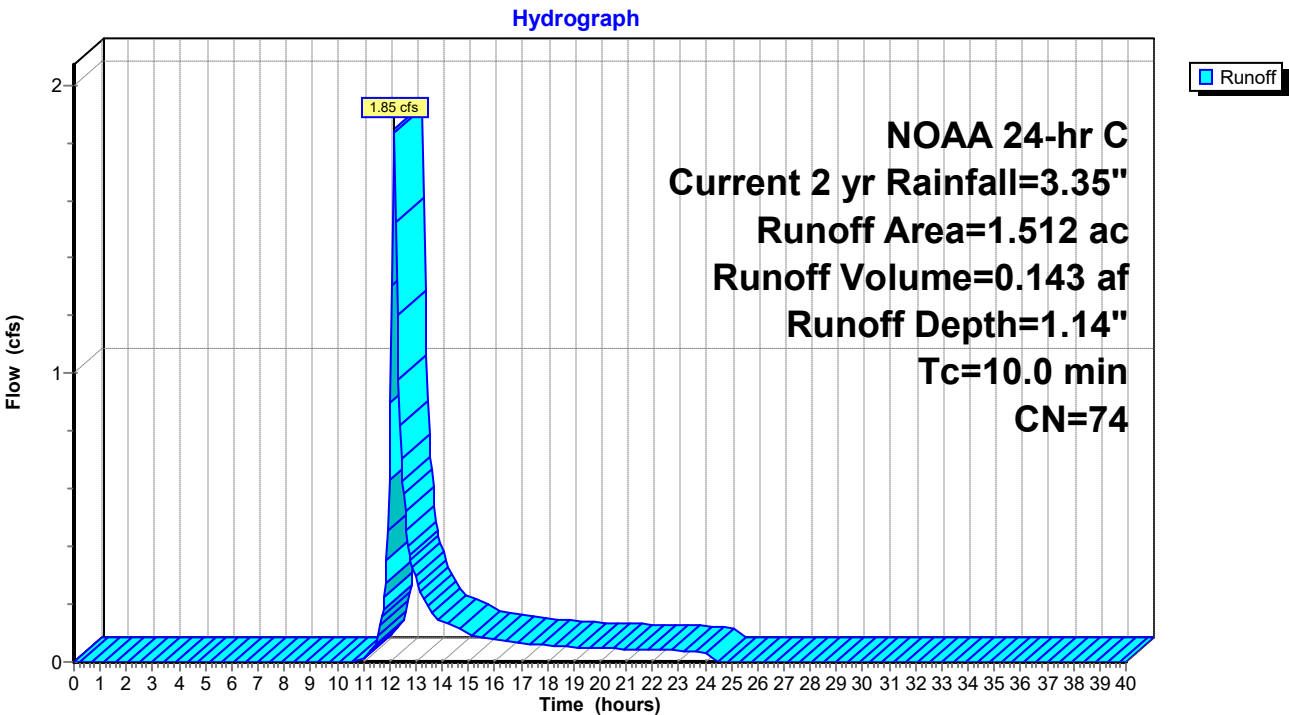
Runoff = 1.85 cfs @ 12.18 hrs, Volume= 0.143 af, Depth= 1.14"
Routed to Pond B-24 : Basin #24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.512	74	>75% Grass cover, Good, HSG C
1.512		100.00% Pervious Area

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

Subcatchment 24P: PDA-24 (pervious)



Summary for Subcatchment 25I: PDA-25 (impervious)

Runoff = 3.57 cfs @ 12.17 hrs, Volume= 0.306 af, Depth= 3.12"
 Routed to Pond B-25 : Basin #25

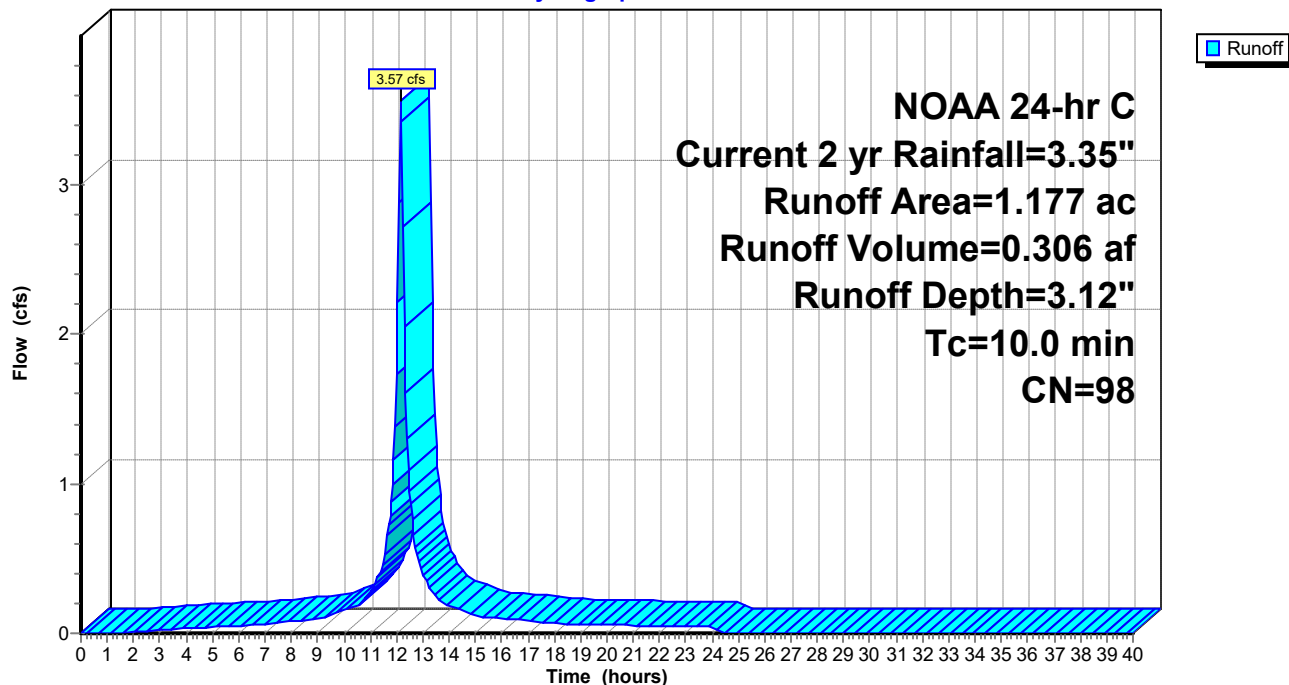
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.573	98	Pavement, HSG C
* 0.514	98	Roof, HSG C
* 0.090	98	Concrete, HSC C
1.177	98	Weighted Average
1.177		100.00% Impervious Area

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

Subcatchment 25I: PDA-25 (impervious)

Hydrograph



Summary for Subcatchment 25P: PDA-25 (pervious)

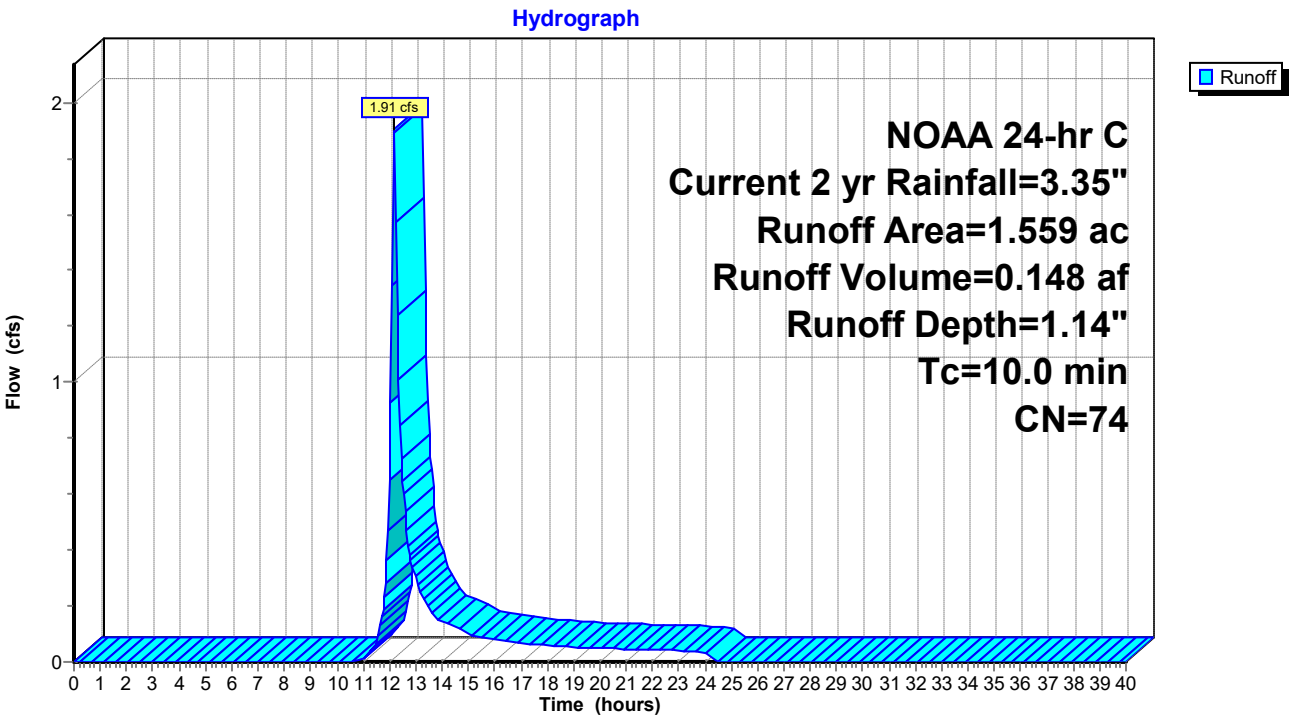
Runoff = 1.91 cfs @ 12.18 hrs, Volume= 0.148 af, Depth= 1.14"
Routed to Pond B-25 : Basin #25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.559	74	>75% Grass cover, Good, HSG C
1.559		100.00% Pervious Area

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

Subcatchment 25P: PDA-25 (pervious)



Summary for Subcatchment 26I: PDA-26 (impervious)

Runoff = 2.94 cfs @ 12.17 hrs, Volume= 0.252 af, Depth= 3.12"
 Routed to Pond B-26 : Basin #26

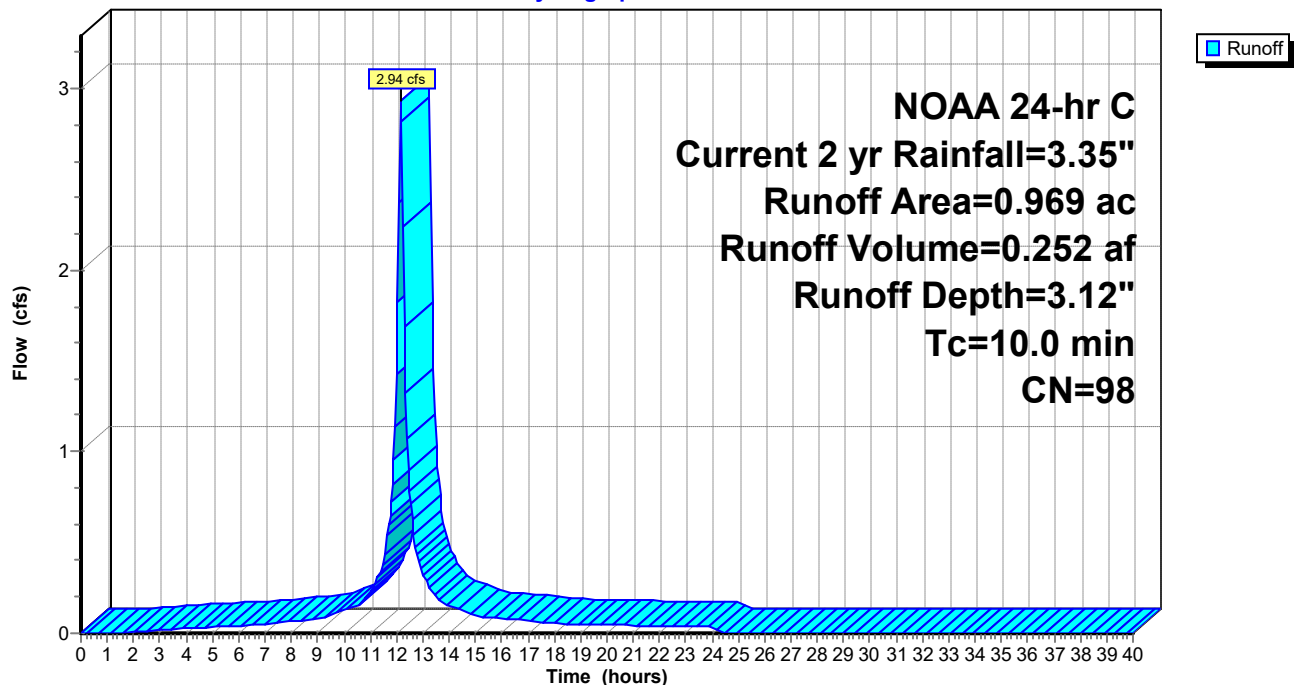
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.277	98	Pavement, HSG C
* 0.687	98	Roof, HSG C
* 0.005	98	Concrete, HSC C
0.969	98	Weighted Average
0.969		100.00% Impervious Area

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

Subcatchment 26I: PDA-26 (impervious)

Hydrograph



Summary for Subcatchment 26P: PDA-26 (pervious)

Runoff = 2.10 cfs @ 12.18 hrs, Volume= 0.163 af, Depth= 1.14"
 Routed to Pond B-26 : Basin #26

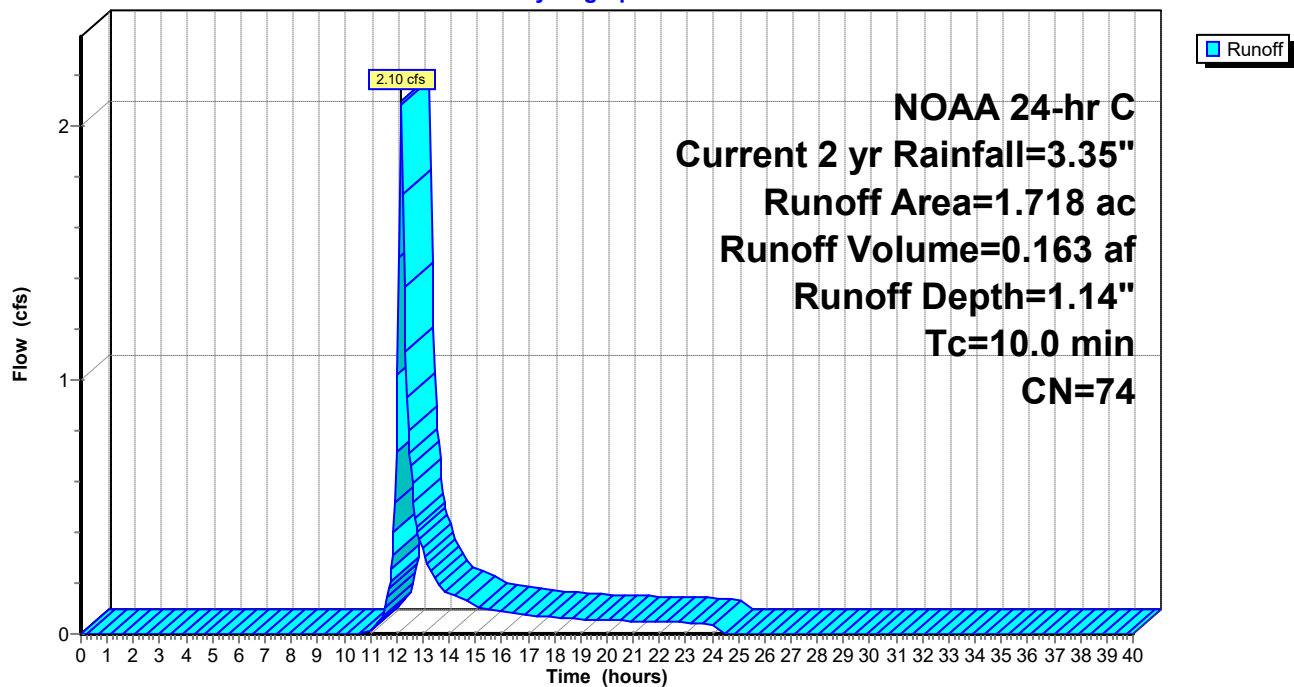
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.718	74	>75% Grass cover, Good, HSG C
1.718		100.00% Pervious Area

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

Subcatchment 26P: PDA-26 (pervious)

Hydrograph



Summary for Subcatchment 27I: PDA-27 (impervious)

Runoff = 3.53 cfs @ 12.17 hrs, Volume= 0.302 af, Depth= 3.12"
 Routed to Pond B-27 : Basin #27

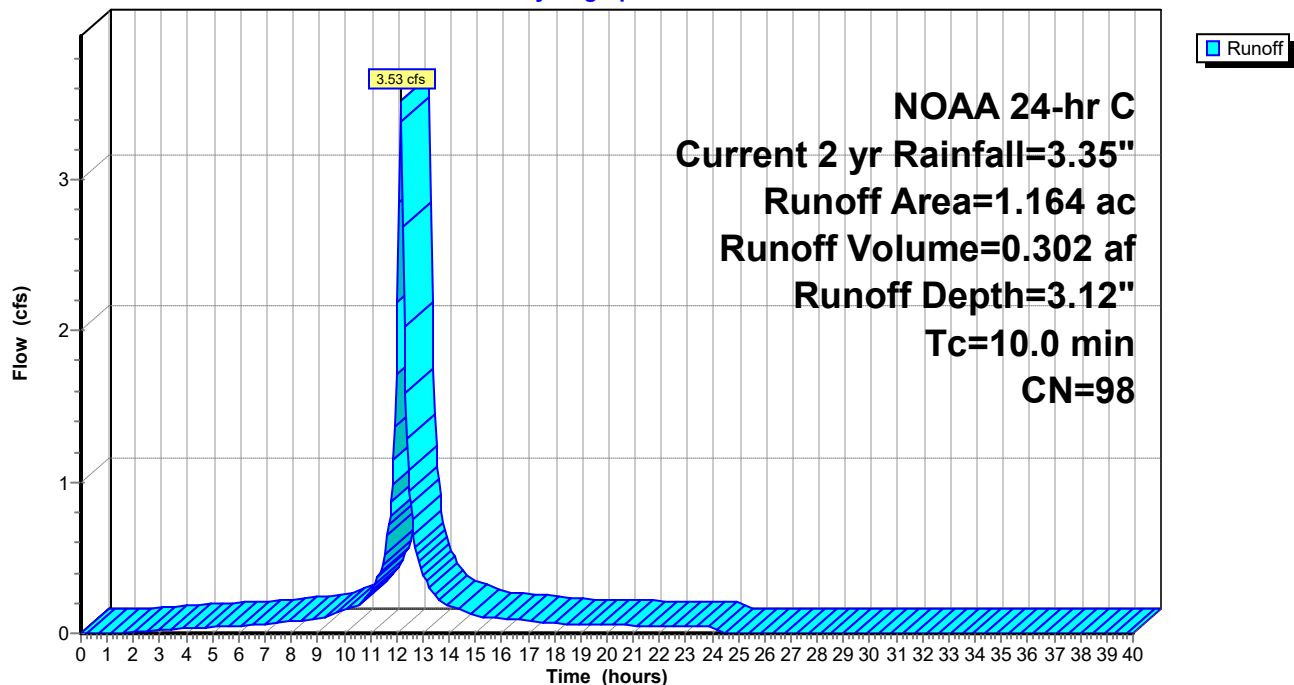
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.410	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.047	98	Concrete, HSC C
1.164	98	Weighted Average
1.164		100.00% Impervious Area

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

Subcatchment 27I: PDA-27 (impervious)

Hydrograph



Summary for Subcatchment 27P: PDA-27 (pervious)

Runoff = 1.53 cfs @ 12.18 hrs, Volume= 0.118 af, Depth= 1.14"
 Routed to Pond B-27 : Basin #27

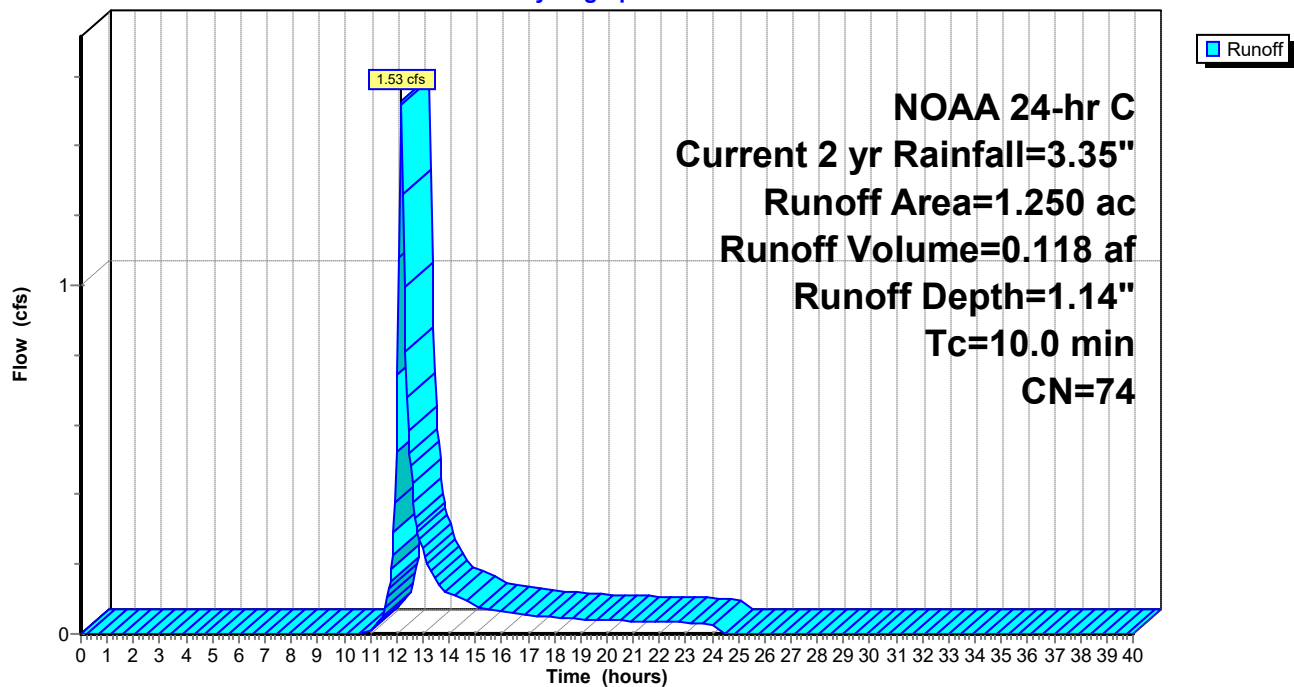
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.250	74	>75% Grass cover, Good, HSG C
1.250		100.00% Pervious Area

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

Subcatchment 27P: PDA-27 (pervious)

Hydrograph



Summary for Subcatchment 28I: PDA-28 (impervious)

Runoff = 3.14 cfs @ 12.17 hrs, Volume= 0.269 af, Depth= 3.12"
 Routed to Pond B-28 : Basin #28

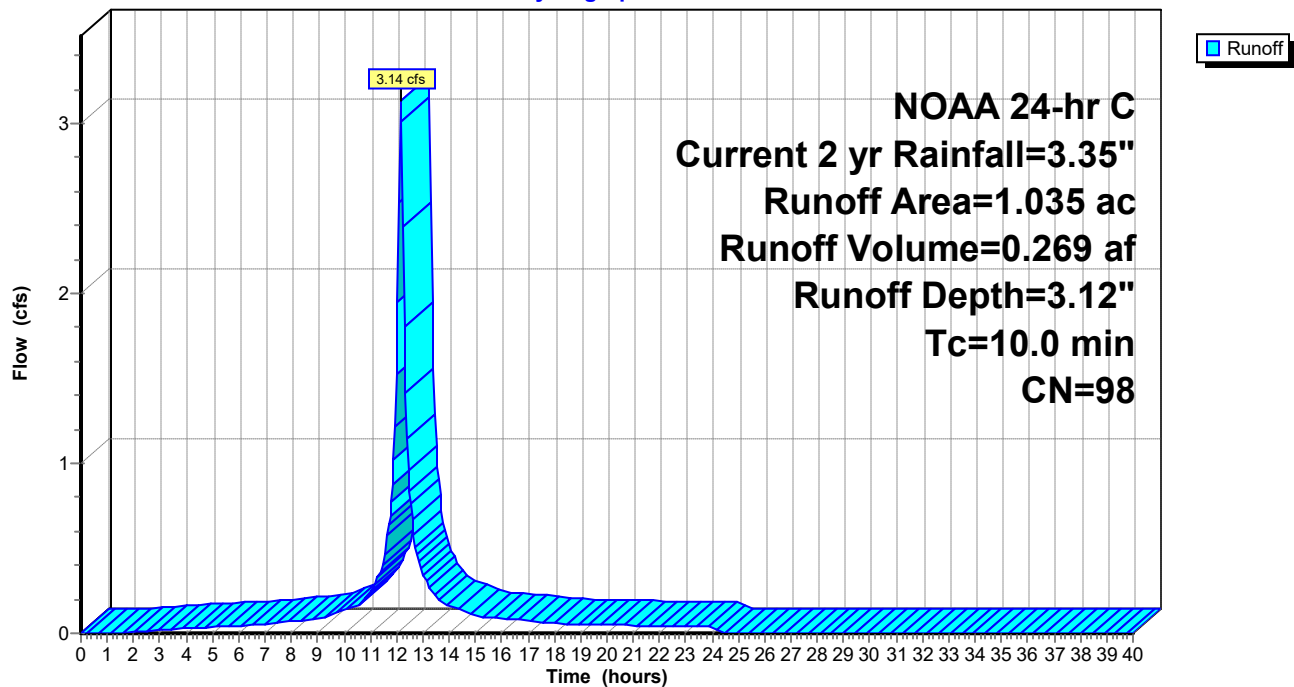
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.179	98	Pavement, HSG C
* 0.836	98	Roof, HSG C
* 0.020	98	Concrete, HSC C
1.035	98	Weighted Average
1.035		100.00% Impervious Area

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

Subcatchment 28I: PDA-28 (impervious)

Hydrograph



Summary for Subcatchment 28P: PDA-28 (pervious)

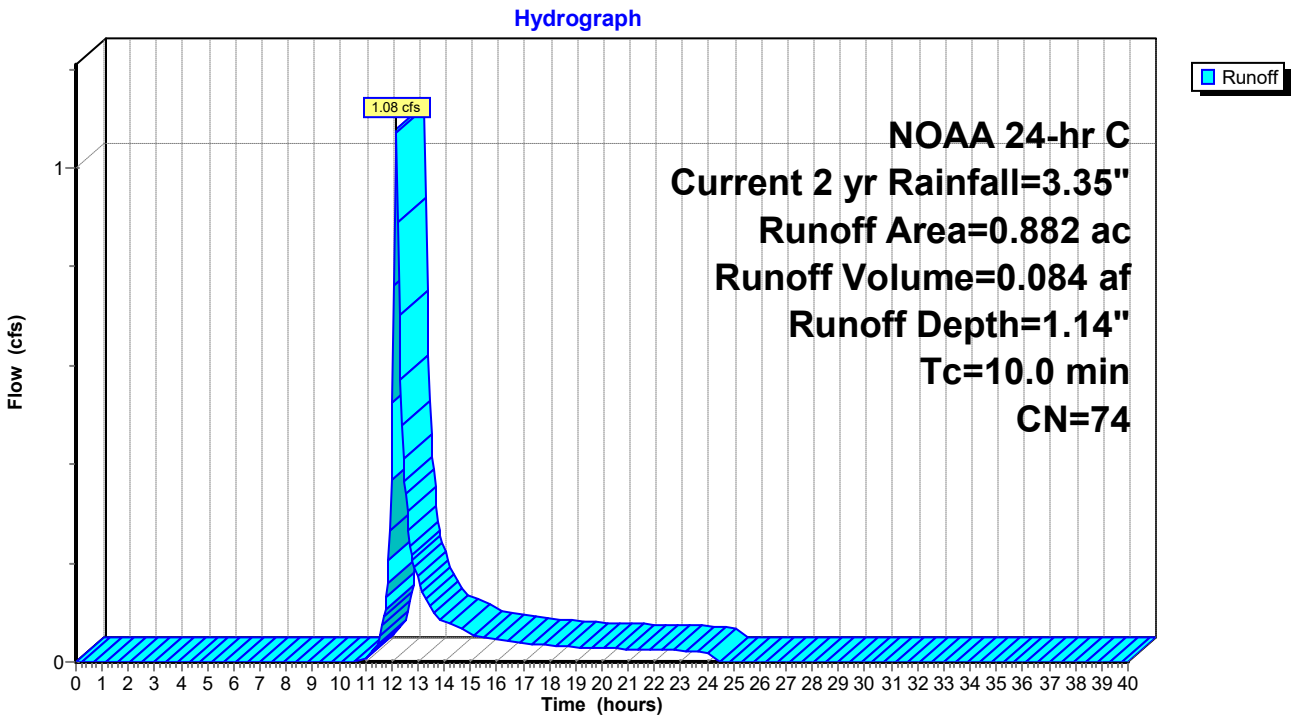
Runoff = 1.08 cfs @ 12.18 hrs, Volume= 0.084 af, Depth= 1.14"
Routed to Pond B-28 : Basin #28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.882	74	>75% Grass cover, Good, HSG C
0.882		100.00% Pervious Area

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

Subcatchment 28P: PDA-28 (pervious)



Summary for Subcatchment UPDA-1: PDA-1 (undetained)

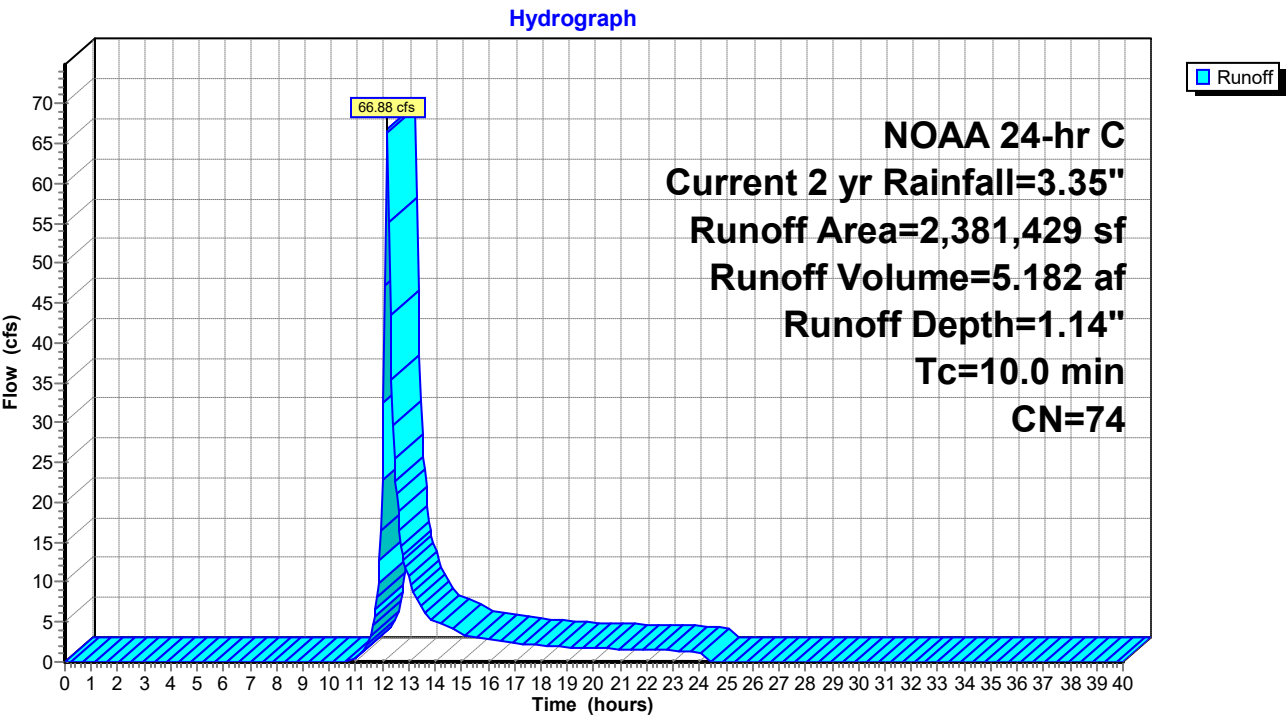
Runoff = 66.88 cfs @ 12.18 hrs, Volume= 5.182 af, Depth= 1.14"
Routed to Link PDA-1 : Proposed Drainage Area #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (sf)	CN	Description
2,381,429	74	>75% Grass cover, Good, HSG C
2,381,429		100.00% Pervious Area

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

Subcatchment UPDA-1: PDA-1 (undetained)



Summary for Subcatchment UPDA-2: PDA-2 (undetained)

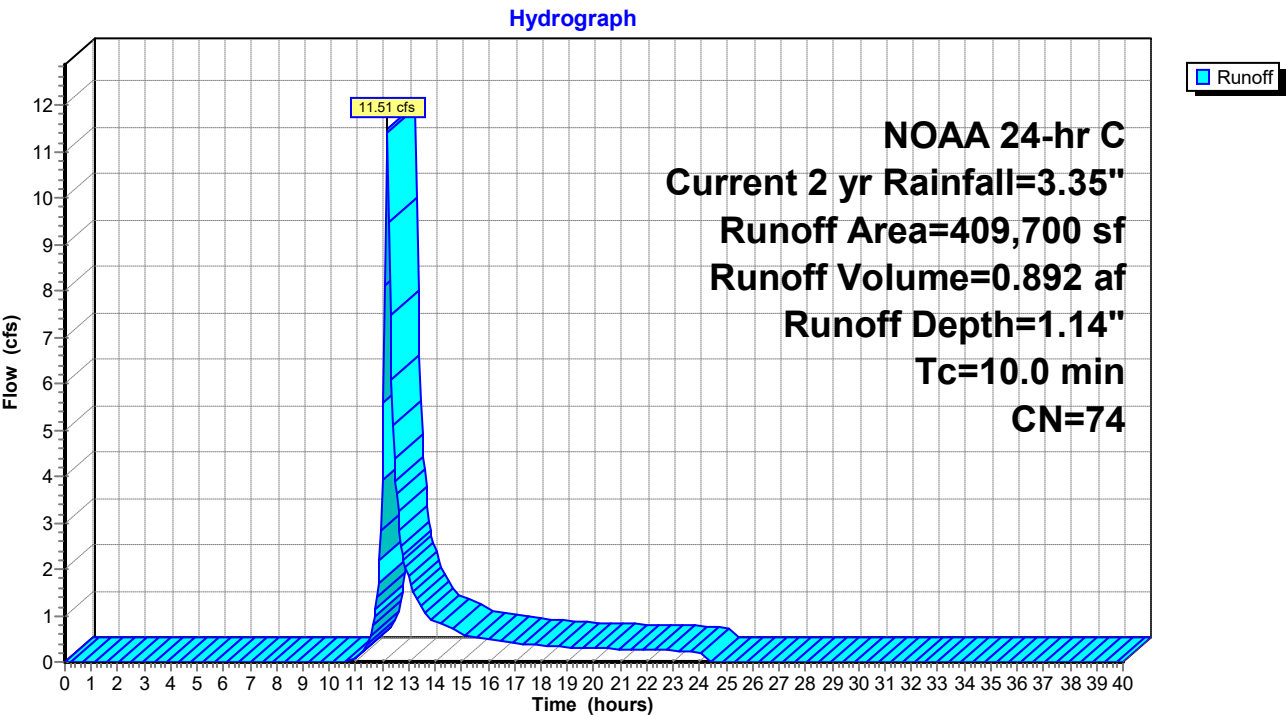
Runoff = 11.51 cfs @ 12.18 hrs, Volume= 0.892 af, Depth= 1.14"
Routed to Link PDA-2 : Proposed Drainage Area #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (sf)	CN	Description
409,700	74	>75% Grass cover, Good, HSG C
409,700		100.00% Pervious Area

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

Subcatchment UPDA-2: PDA-2 (undetained)



Summary for Pond B-1: Basin #1

Inflow Area = 2.485 ac, 4.79% Impervious, Inflow Depth = 1.23" for Current 2 yr event
 Inflow = 3.25 cfs @ 12.18 hrs, Volume= 0.255 af
 Outflow = 0.07 cfs @ 21.44 hrs, Volume= 0.112 af, Atten= 98%, Lag= 555.1 min
 Primary = 0.07 cfs @ 21.44 hrs, Volume= 0.112 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 209.48' @ 21.44 hrs Surf.Area= 10,637 sf Storage= 8,517 cf

Plug-Flow detention time= 723.4 min calculated for 0.112 af (44% of inflow)
 Center-of-Mass det. time= 586.6 min (1,440.2 - 853.6)

Volume	Invert	Avail.Storage	Storage Description
#1	208.30'	38,468 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.30	0	0	0
209.00	10,187	3,565	3,565
210.00	11,133	10,660	14,225
211.00	12,113	11,623	25,848
212.00	13,126	12,620	38,468

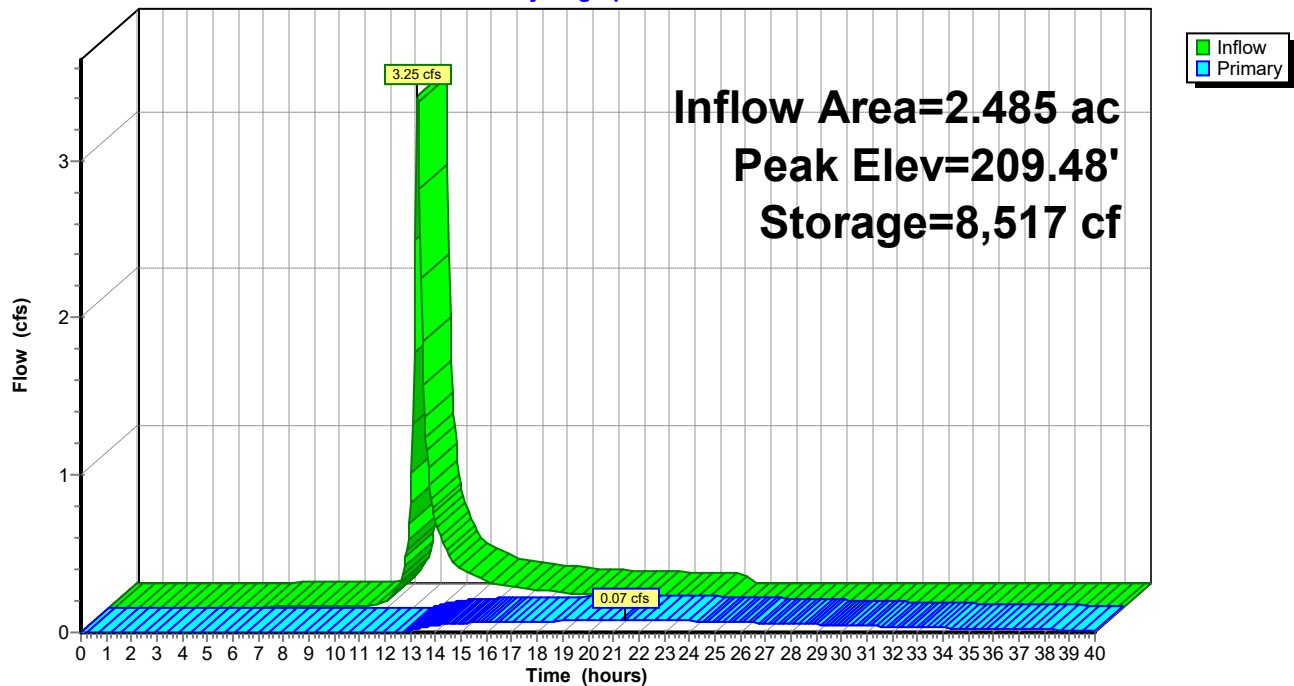
Device	Routing	Invert	Outlet Devices
#1	Primary	207.65'	18.0" Round Culvert L= 276.0' Ke= 0.500 Inlet / Outlet Invert= 207.65' / 204.00' S= 0.0132 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	209.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	209.67'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	210.80'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.07 cfs @ 21.44 hrs HW=209.48' (Free Discharge)

1=Culvert (Passes 0.07 cfs of 8.82 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.07 cfs @ 2.16 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-1: Basin #1

Hydrograph



Summary for Pond B-10: Basin #10

Inflow Area = 1.674 ac, 56.63% Impervious, Inflow Depth = 2.26" for Current 2 yr event
 Inflow = 3.75 cfs @ 12.17 hrs, Volume= 0.315 af
 Outflow = 0.17 cfs @ 14.72 hrs, Volume= 0.221 af, Atten= 96%, Lag= 152.6 min
 Primary = 0.17 cfs @ 14.72 hrs, Volume= 0.221 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.65' @ 14.72 hrs Surf.Area= 5,544 sf Storage= 9,523 cf

Plug-Flow detention time= 605.8 min calculated for 0.220 af (70% of inflow)
 Center-of-Mass det. time= 505.9 min (1,289.4 - 783.5)

Volume	Invert	Avail.Storage	Storage Description
#1	178.30'	24,949 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.30	0	0	0
179.00	4,220	1,477	1,477
180.00	5,003	4,612	6,088
181.00	5,833	5,418	11,506
182.00	6,710	6,272	17,778
183.00	7,633	7,172	24,949

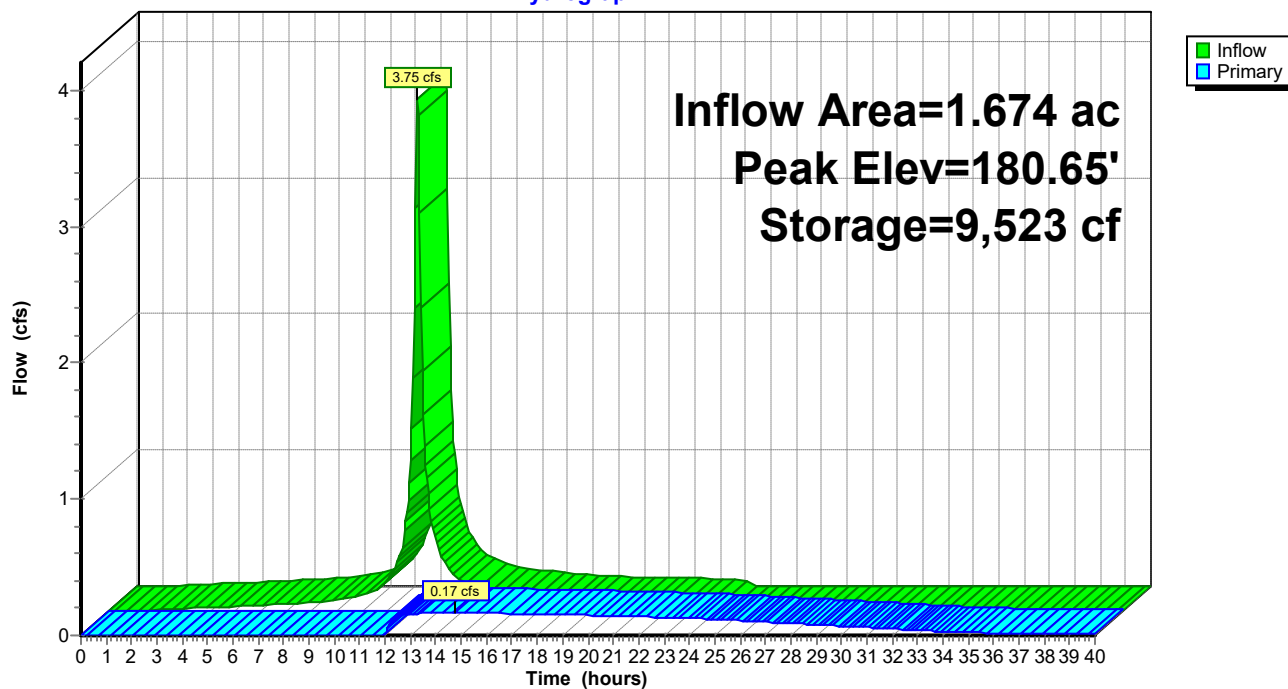
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 52.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 176.00' S= 0.0317 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.53'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	180.99'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.86'	50.0' long + 3.0 ' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.17 cfs @ 14.72 hrs HW=180.65' (Free Discharge)

1=Culvert (Passes 0.17 cfs of 12.77 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.17 cfs @ 4.86 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-10: Basin #10

Hydrograph



Summary for Pond B-11: Basin #11

Inflow Area = 2.668 ac, 34.97% Impervious, Inflow Depth = 1.83" for Current 2 yr event
 Inflow = 4.93 cfs @ 12.18 hrs, Volume= 0.407 af
 Outflow = 0.19 cfs @ 15.25 hrs, Volume= 0.300 af, Atten= 96%, Lag= 184.4 min
 Primary = 0.19 cfs @ 15.25 hrs, Volume= 0.300 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 181.90' @ 15.25 hrs Surf.Area= 6,231 sf Storage= 12,142 cf

Plug-Flow detention time= 675.0 min calculated for 0.300 af (74% of inflow)
 Center-of-Mass det. time= 577.0 min (1,380.3 - 803.2)

Volume	Invert	Avail.Storage	Storage Description
#1	179.30'	44,897 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.30	0	0	0
180.00	4,780	1,673	1,673
181.00	5,522	5,151	6,824
182.00	6,306	5,914	12,738
183.00	7,135	6,721	19,458
184.00	8,007	7,571	27,029
185.00	8,923	8,465	35,494
186.00	9,882	9,403	44,897

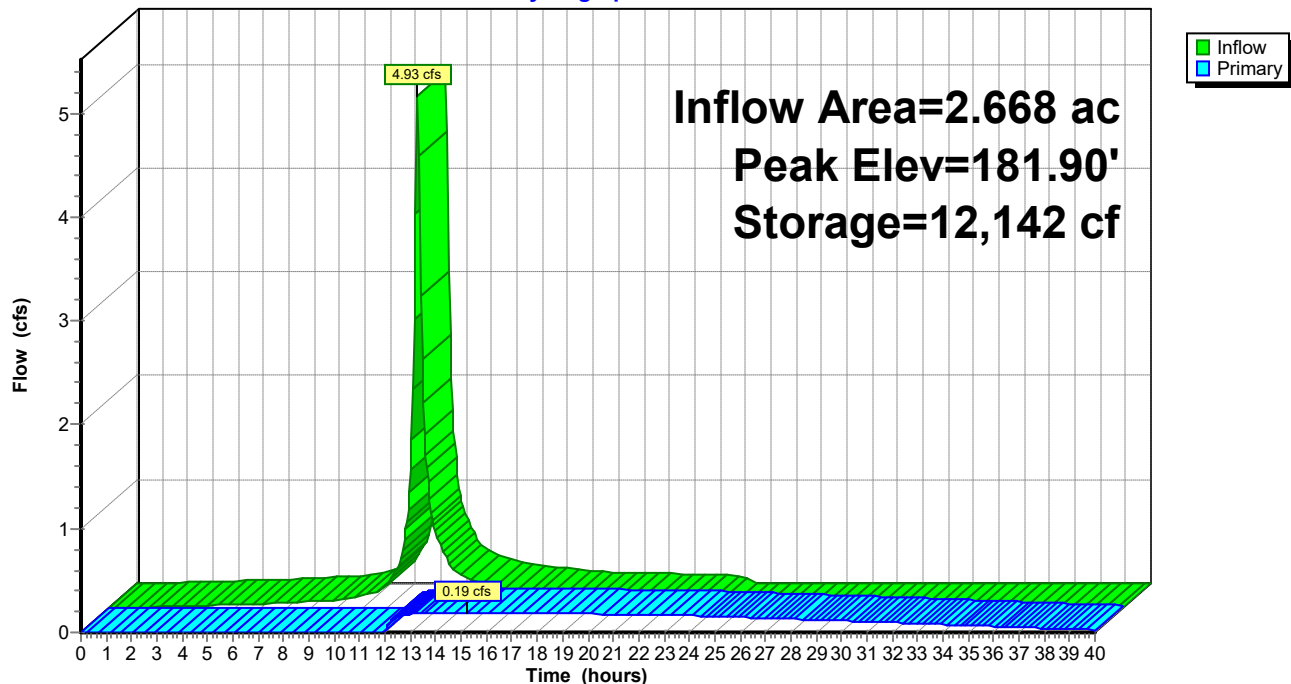
Device	Routing	Invert	Outlet Devices
#1	Primary	178.65'	18.0" Round Culvert L= 131.0' Ke= 0.500 Inlet / Outlet Invert= 178.65' / 178.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	180.47'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.35'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	183.91'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.19 cfs @ 15.25 hrs HW=181.90' (Free Discharge)

- 1=Culvert (Passes 0.19 cfs of 11.14 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.19 cfs @ 5.55 fps)
- 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-11: Basin #11

Hydrograph



Summary for Pond B-12: Basin #12

Inflow Area = 2.004 ac, 68.31% Impervious, Inflow Depth = 2.49" for Current 2 yr event
 Inflow = 4.92 cfs @ 12.17 hrs, Volume= 0.416 af
 Outflow = 1.08 cfs @ 12.61 hrs, Volume= 0.291 af, Atten= 78%, Lag= 26.4 min
 Primary = 1.08 cfs @ 12.61 hrs, Volume= 0.291 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 202.60' @ 12.61 hrs Surf.Area= 5,805 sf Storage= 9,967 cf

Plug-Flow detention time= 272.6 min calculated for 0.291 af (70% of inflow)
 Center-of-Mass det. time= 174.8 min (950.5 - 775.7)

Volume	Invert	Avail.Storage	Storage Description
#1	200.30'	26,105 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.30	0	0	0
201.00	4,623	1,618	1,618
202.00	5,350	4,987	6,605
203.00	6,105	5,728	12,332
204.00	6,883	6,494	18,826
205.00	7,674	7,279	26,105

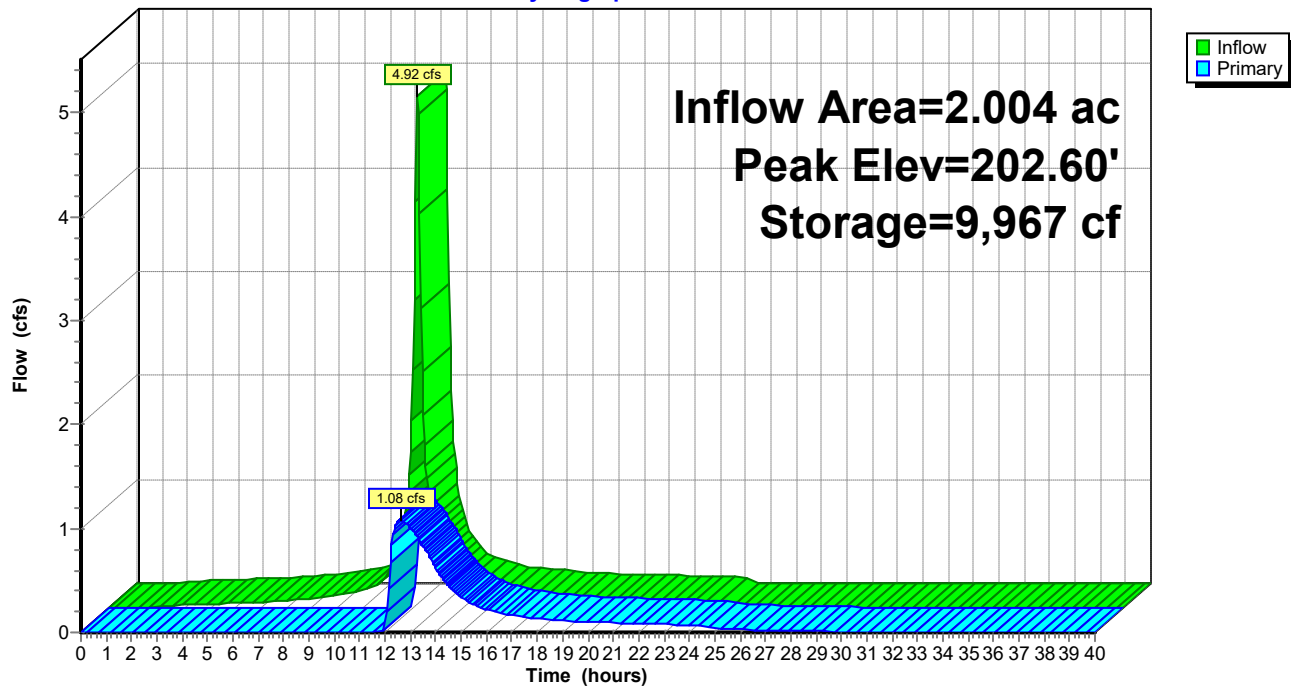
Device	Routing	Invert	Outlet Devices
#1	Primary	199.65'	18.0" Round Culvert L= 238.0' Ke= 0.500 Inlet / Outlet Invert= 199.65' / 195.50' S= 0.0174 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.76'	7.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	202.87'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	203.96'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.08 cfs @ 12.61 hrs HW=202.60' (Free Discharge)

1=Culvert (Passes 1.08 cfs of 12.63 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.08 cfs @ 3.51 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-12: Basin #12

Hydrograph



Summary for Pond B-13: Basin #13

Inflow Area = 2.350 ac, 62.43% Impervious, Inflow Depth = 2.37" for Current 2 yr event
 Inflow = 5.52 cfs @ 12.17 hrs, Volume= 0.465 af
 Outflow = 0.16 cfs @ 16.32 hrs, Volume= 0.288 af, Atten= 97%, Lag= 248.9 min
 Primary = 0.16 cfs @ 16.32 hrs, Volume= 0.288 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 193.43' @ 16.32 hrs Surf.Area= 9,173 sf Storage= 15,082 cf

Plug-Flow detention time= 779.9 min calculated for 0.287 af (62% of inflow)
 Center-of-Mass det. time= 669.2 min (1,448.6 - 779.4)

Volume	Invert	Avail.Storage	Storage Description
#1	191.30'	41,458 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
191.30	0	0	0
192.00	7,975	2,791	2,791
193.00	8,804	8,390	11,181
194.00	9,654	9,229	20,410
195.00	10,522	10,088	30,498
196.00	11,399	10,961	41,458

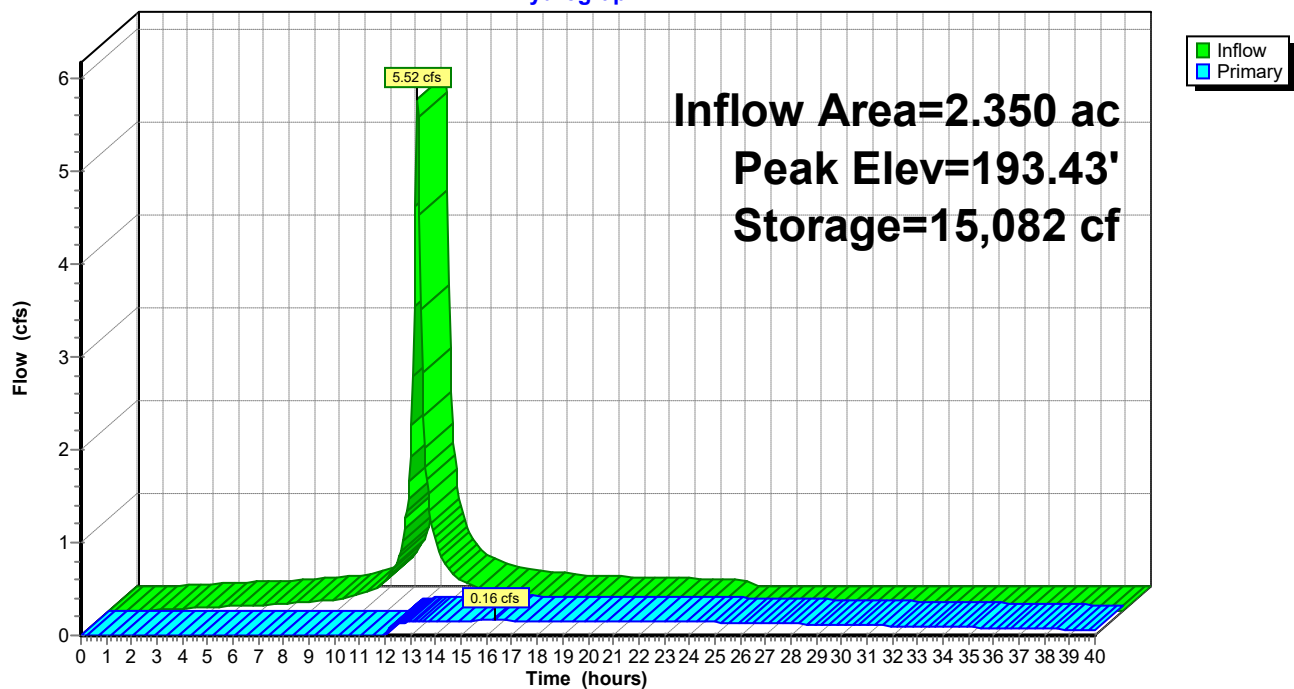
Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 57.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0465 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.37'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.96'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.16 cfs @ 16.32 hrs HW=193.43' (Free Discharge)

1=Culvert (Passes 0.16 cfs of 12.13 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.16 cfs @ 4.72 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-13: Basin #13

Hydrograph



Summary for Pond B-14: Basin #14

Inflow Area = 2.148 ac, 23.65% Impervious, Inflow Depth = 1.61" for Current 2 yr event
 Inflow = 3.53 cfs @ 12.18 hrs, Volume= 0.287 af
 Outflow = 0.15 cfs @ 15.17 hrs, Volume= 0.219 af, Atten= 96%, Lag= 179.8 min
 Primary = 0.15 cfs @ 15.17 hrs, Volume= 0.219 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 192.94' @ 15.17 hrs Surf.Area= 6,663 sf Storage= 8,259 cf

Plug-Flow detention time= 626.2 min calculated for 0.219 af (76% of inflow)
 Center-of-Mass det. time= 531.2 min (1,348.9 - 817.7)

Volume	Invert	Avail.Storage	Storage Description
#1	191.30'	30,883 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
191.30	0	0	0
192.00	6,224	2,178	2,178
193.00	6,689	6,457	8,635
194.00	7,167	6,928	15,563
195.00	7,657	7,412	22,975
196.00	8,160	7,909	30,883

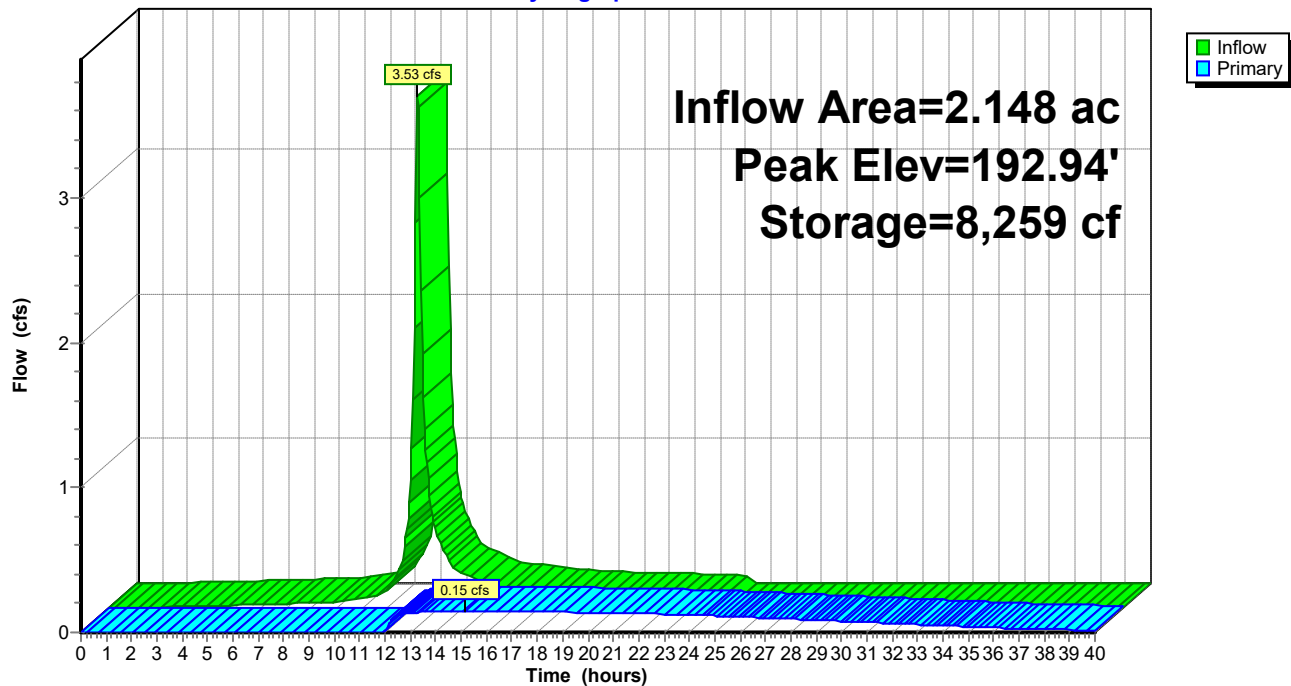
Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 194.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0137 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.04'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.27'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.44'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.15 cfs @ 15.17 hrs HW=192.94' (Free Discharge)

1=Culvert (Passes 0.15 cfs of 10.57 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.15 cfs @ 4.31 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-14: Basin #14

Hydrograph



Summary for Pond B-15: Basin #15

Inflow Area = 2.365 ac, 58.73% Impervious, Inflow Depth = 2.30" for Current 2 yr event
 Inflow = 5.39 cfs @ 12.17 hrs, Volume= 0.453 af
 Outflow = 1.04 cfs @ 12.66 hrs, Volume= 0.325 af, Atten= 81%, Lag= 29.5 min
 Primary = 1.04 cfs @ 12.66 hrs, Volume= 0.325 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 198.20' @ 12.66 hrs Surf.Area= 4,916 sf Storage= 10,779 cf

Plug-Flow detention time= 263.4 min calculated for 0.325 af (72% of inflow)
 Center-of-Mass det. time= 165.3 min (947.3 - 782.0)

Volume	Invert	Avail.Storage	Storage Description
#1	195.30'	26,898 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
195.30	0	0	0
196.00	3,706	1,297	1,297
197.00	4,236	3,971	5,268
198.00	4,795	4,516	9,784
199.00	5,384	5,090	14,873
200.00	6,002	5,693	20,566
201.00	6,662	6,332	26,898

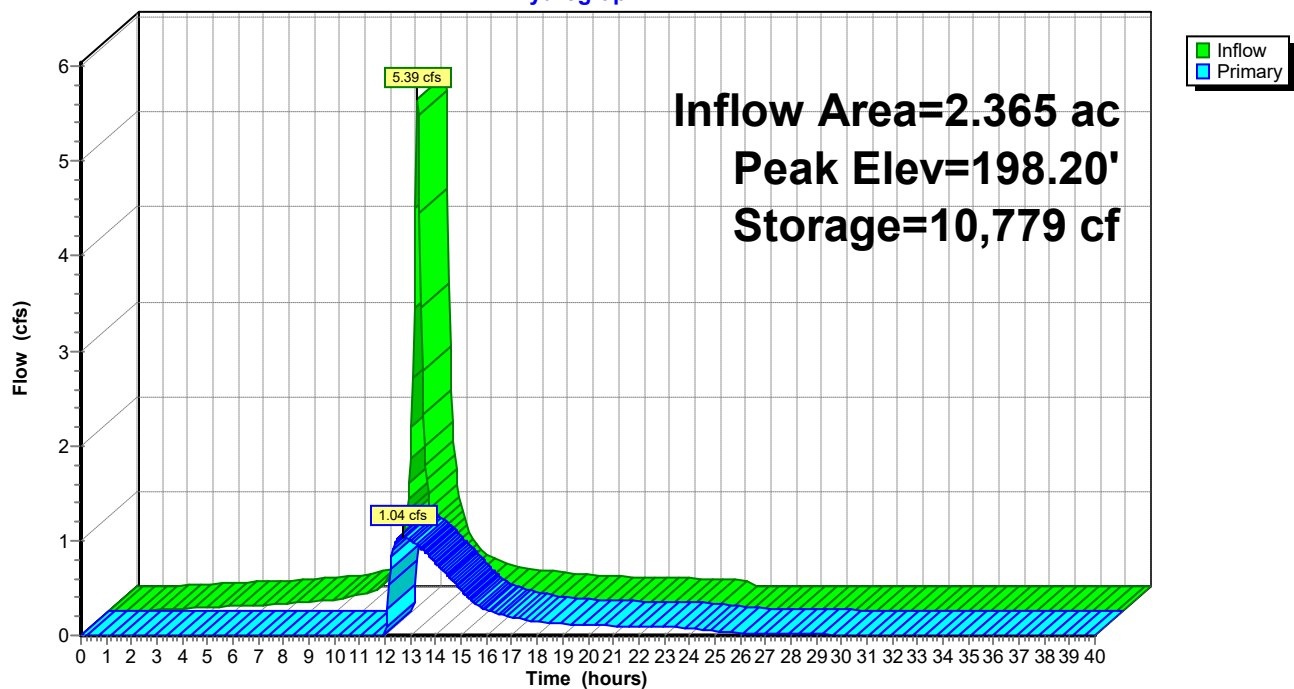
Device	Routing	Invert	Outlet Devices
#1	Primary	194.65'	18.0" Round Culvert L= 203.0' Ke= 0.500 Inlet / Outlet Invert= 194.65' / 192.00' S= 0.0131 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	197.06'	6.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	198.58'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.00'	50.0' long + 3.0' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.04 cfs @ 12.66 hrs HW=198.20' (Free Discharge)

1=Culvert (Passes 1.04 cfs of 13.47 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.04 cfs @ 4.50 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-15: Basin #15

Hydrograph



Summary for Pond B-16: Basin #16

Inflow Area = 2.685 ac, 43.39% Impervious, Inflow Depth = 2.00" for Current 2 yr event
 Inflow = 5.38 cfs @ 12.17 hrs, Volume= 0.447 af
 Outflow = 0.15 cfs @ 17.15 hrs, Volume= 0.273 af, Atten= 97%, Lag= 298.4 min
 Primary = 0.15 cfs @ 17.15 hrs, Volume= 0.273 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.03' @ 17.15 hrs Surf.Area= 11,047 sf Storage= 14,413 cf

Plug-Flow detention time= 792.2 min calculated for 0.272 af (61% of inflow)
 Center-of-Mass det. time= 677.4 min (1,472.0 - 794.5)

Volume	Invert	Avail.Storage	Storage Description
#1	177.30'	51,430 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
177.30	0	0	0
178.00	10,122	3,543	3,543
179.00	11,022	10,572	14,115
180.00	11,951	11,487	25,601
181.00	12,907	12,429	38,030
182.00	13,893	13,400	51,430

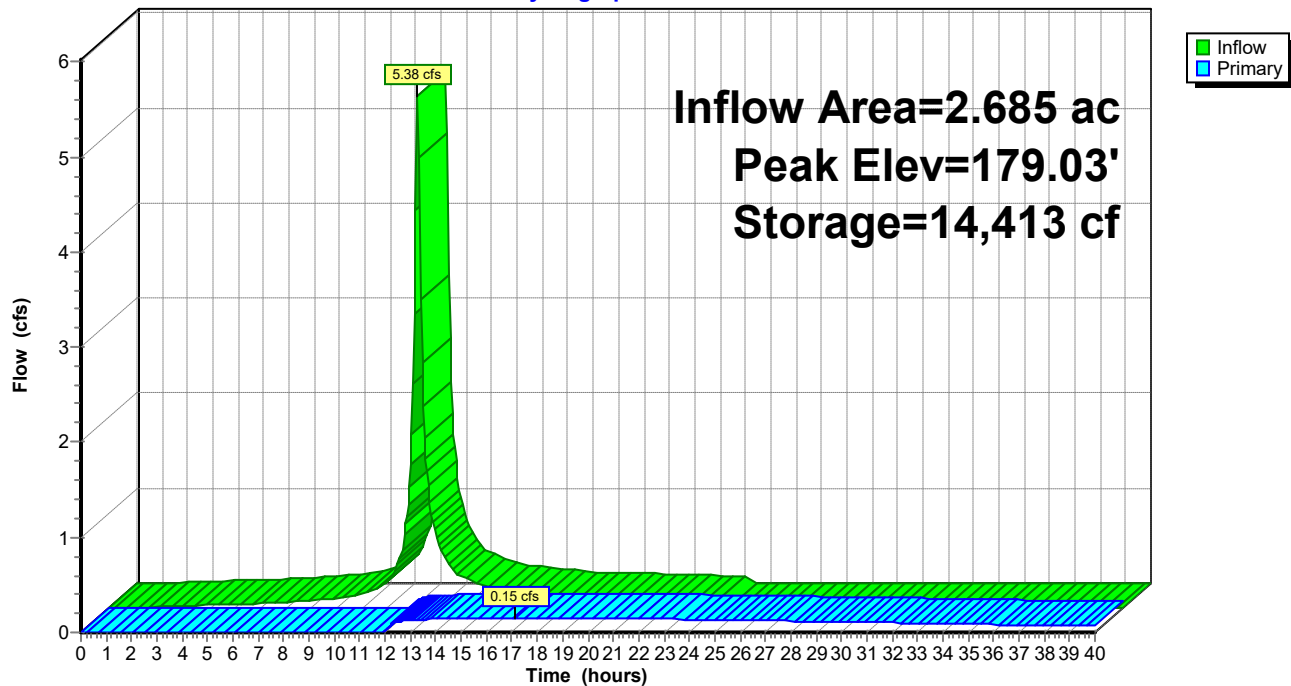
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' S= 0.0877 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	178.13'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.31'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.57'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.15 cfs @ 17.15 hrs HW=179.03' (Free Discharge)

1=Culvert (Passes 0.15 cfs of 10.85 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.15 cfs @ 4.29 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16: Basin #16

Hydrograph



Summary for Pond B-17: Basin #17

Inflow Area = 2.791 ac, 34.54% Impervious, Inflow Depth = 1.82" for Current 2 yr event
 Inflow = 5.13 cfs @ 12.18 hrs, Volume= 0.424 af
 Outflow = 0.12 cfs @ 17.97 hrs, Volume= 0.240 af, Atten= 98%, Lag= 347.4 min
 Primary = 0.12 cfs @ 17.97 hrs, Volume= 0.240 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.62' @ 17.97 hrs Surf.Area= 15,236 sf Storage= 13,874 cf

Plug-Flow detention time= 815.2 min calculated for 0.239 af (57% of inflow)
 Center-of-Mass det. time= 693.2 min (1,497.0 - 803.7)

Volume	Invert	Avail.Storage	Storage Description
#1	178.30'	77,758 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.30	0	0	0
179.00	13,952	4,883	4,883
180.00	16,036	14,994	19,877
181.00	18,176	17,106	36,983
182.00	20,373	19,275	56,258
183.00	22,627	21,500	77,758

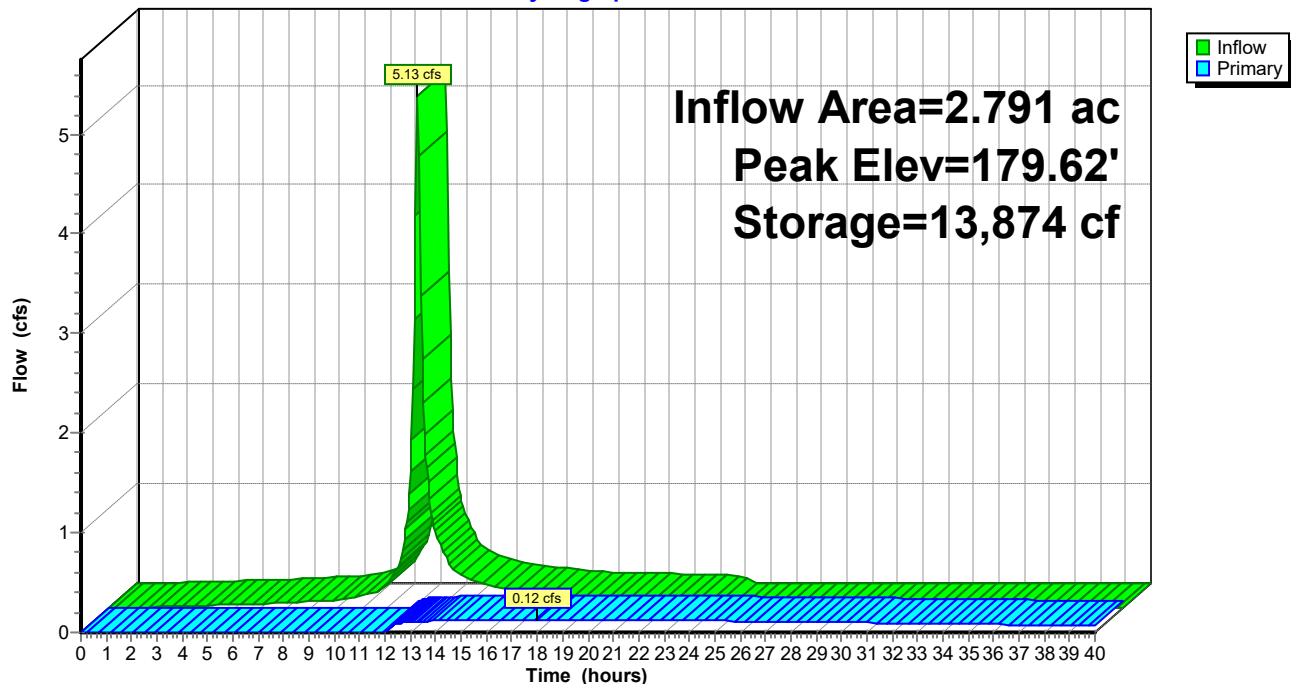
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	178.95'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.83'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.93'	50.0' long + 3.0 ' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.12 cfs @ 17.97 hrs HW=179.62' (Free Discharge)

1=Culvert (Passes 0.12 cfs of 9.38 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 3.61 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-17: Basin #17

Hydrograph



Summary for Pond B-18: Basin #18

Inflow Area = 2.458 ac, 47.56% Impervious, Inflow Depth = 2.08" for Current 2 yr event
 Inflow = 5.11 cfs @ 12.17 hrs, Volume= 0.426 af
 Outflow = 3.15 cfs @ 12.30 hrs, Volume= 0.316 af, Atten= 38%, Lag= 7.7 min
 Primary = 3.15 cfs @ 12.30 hrs, Volume= 0.316 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 198.28' @ 12.30 hrs Surf.Area= 3,261 sf Storage= 7,169 cf

Plug-Flow detention time= 183.2 min calculated for 0.316 af (74% of inflow)
 Center-of-Mass det. time= 87.2 min (878.0 - 790.8)

Volume	Invert	Avail.Storage	Storage Description
#1	194.65'	18,838 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
194.65	0	0	0
195.00	1,068	187	187
196.00	1,693	1,381	1,567
197.00	2,352	2,023	3,590
198.00	3,059	2,706	6,295
199.00	3,788	3,424	9,719
200.00	4,551	4,170	13,888
201.00	5,348	4,950	18,838

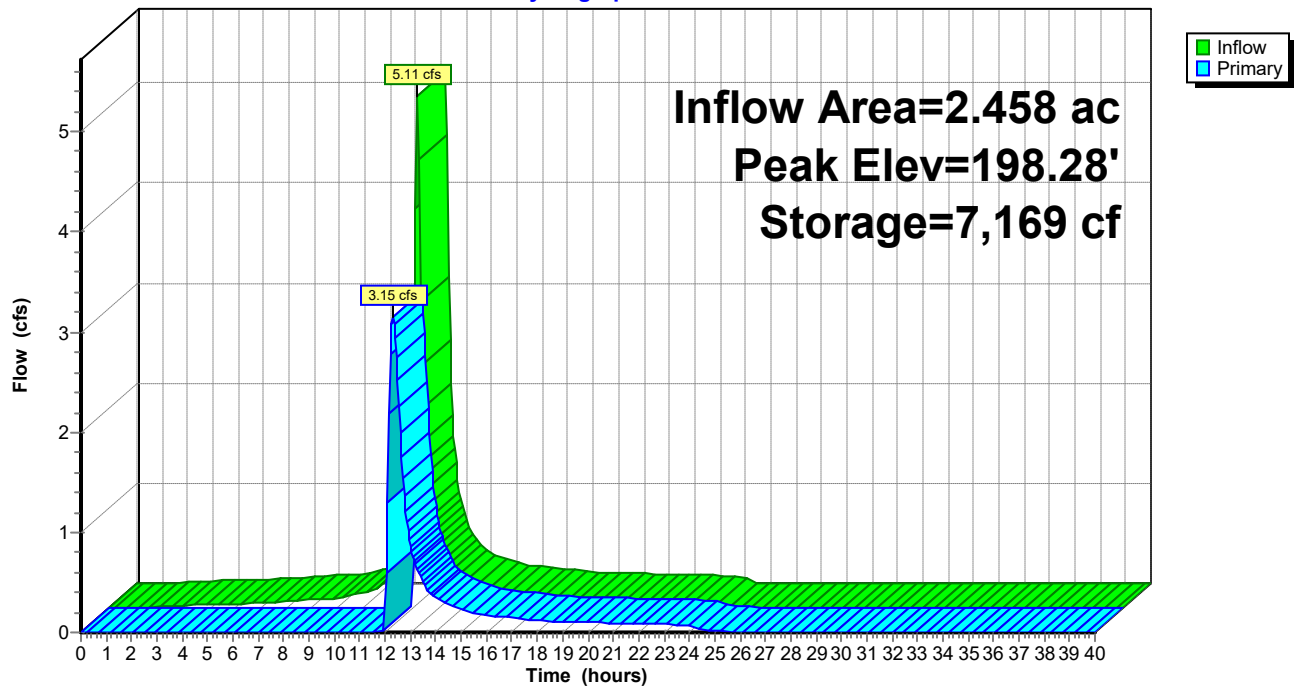
Device	Routing	Invert	Outlet Devices
#1	Primary	194.65'	18.0" Round Culvert L= 102.0' Ke= 0.500 Inlet / Outlet Invert= 194.65' / 194.14' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	197.47'	20.0" W x 6.5" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	198.51'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.00'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.14 cfs @ 12.30 hrs HW=198.28' (Free Discharge)

1=Culvert (Passes 3.14 cfs of 12.55 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 3.14 cfs @ 3.48 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-18: Basin #18

Hydrograph



Summary for Pond B-19: Basin #19

Inflow Area = 0.934 ac, 40.79% Impervious, Inflow Depth = 1.94" for Current 2 yr event
 Inflow = 1.83 cfs @ 12.17 hrs, Volume= 0.151 af
 Outflow = 0.31 cfs @ 12.76 hrs, Volume= 0.114 af, Atten= 83%, Lag= 35.0 min
 Primary = 0.31 cfs @ 12.76 hrs, Volume= 0.114 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 203.05' @ 12.76 hrs Surf.Area= 2,964 sf Storage= 3,492 cf

Plug-Flow detention time= 261.5 min calculated for 0.114 af (75% of inflow)
 Center-of-Mass det. time= 168.6 min (965.7 - 797.1)

Volume	Invert	Avail.Storage	Storage Description
#1	201.30'	10,696 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

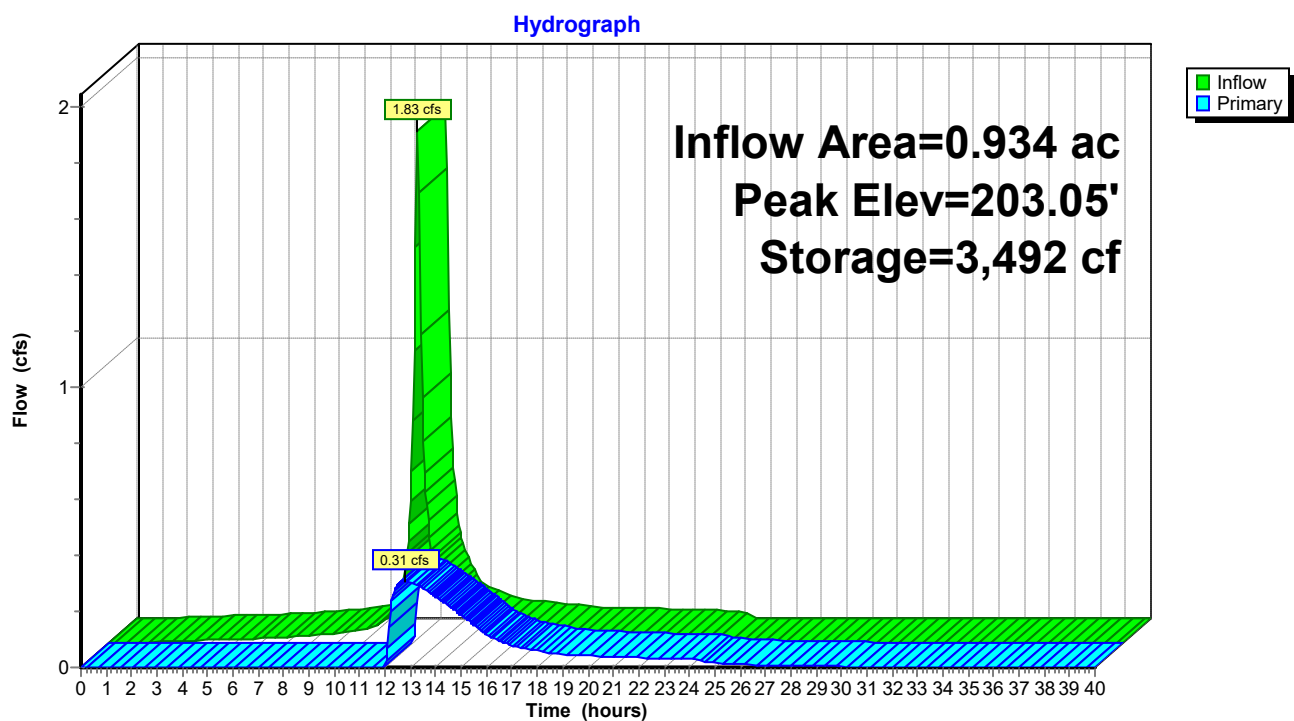
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.30	0	0	0
202.00	2,224	778	778
203.00	2,930	2,577	3,355
204.00	3,663	3,297	6,652
205.00	4,425	4,044	10,696

Device	Routing	Invert	Outlet Devices
#1	Primary	200.65'	18.0" Round Culvert L= 214.0' Ke= 0.500 Inlet / Outlet Invert= 200.65' / 199.57' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	202.35'	4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.29'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	203.98'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.31 cfs @ 12.76 hrs HW=203.05' (Free Discharge)

1=Culvert (Passes 0.31 cfs of 8.57 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.31 cfs @ 3.50 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-19: Basin #19



Summary for Pond B-2: Basin #2

Inflow Area = 1.865 ac, 43.43% Impervious, Inflow Depth = 2.00" for Current 2 yr event
 Inflow = 3.74 cfs @ 12.17 hrs, Volume= 0.310 af
 Outflow = 0.23 cfs @ 13.87 hrs, Volume= 0.224 af, Atten= 94%, Lag= 101.5 min
 Primary = 0.23 cfs @ 13.87 hrs, Volume= 0.224 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 209.77' @ 13.87 hrs Surf.Area= 8,218 sf Storage= 8,682 cf

Plug-Flow detention time= 472.8 min calculated for 0.224 af (72% of inflow)
 Center-of-Mass det. time= 373.1 min (1,167.6 - 794.5)

Volume	Invert	Avail.Storage	Storage Description
#1	208.30'	29,385 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.30	0	0	0
209.00	7,501	2,625	2,625
210.00	8,431	7,966	10,591
211.00	9,390	8,911	19,502
212.00	10,376	9,883	29,385

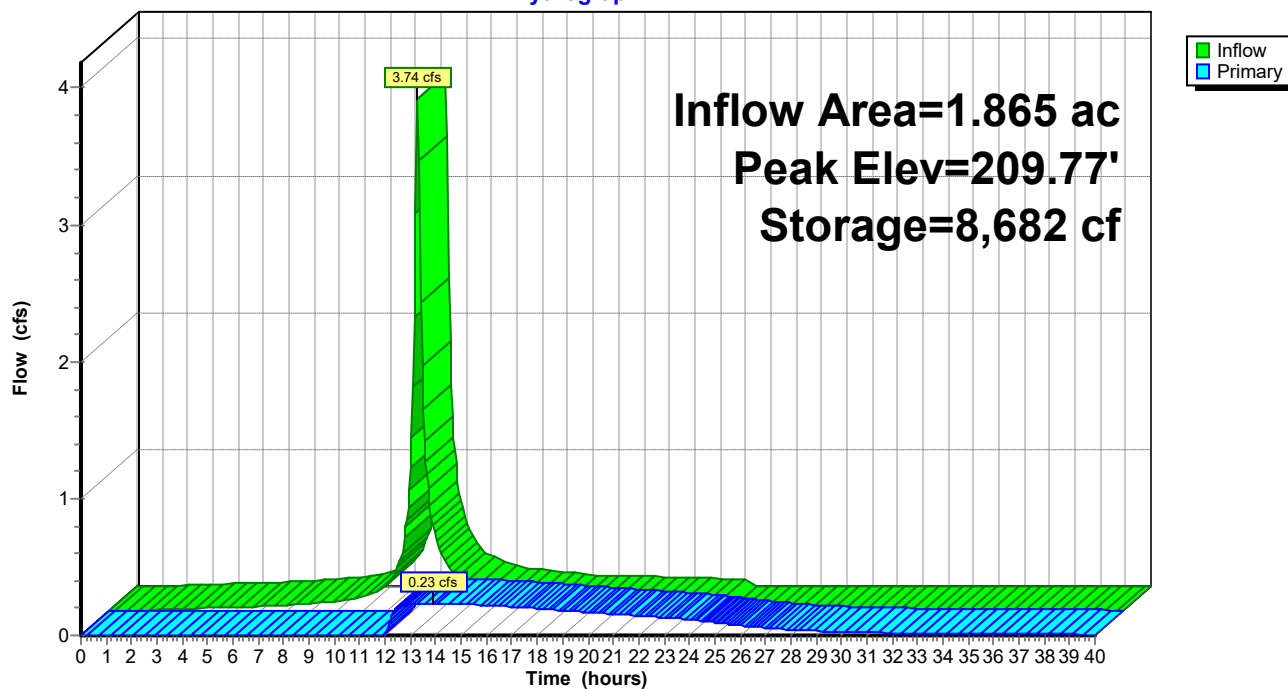
Device	Routing	Invert	Outlet Devices
#1	Primary	207.65'	18.0" Round Culvert L= 202.0' Ke= 0.500 Inlet / Outlet Invert= 207.65' / 204.00' S= 0.0181 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	209.10'	3.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	210.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	211.00'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.23 cfs @ 13.87 hrs HW=209.77' (Free Discharge)

1=Culvert (Passes 0.23 cfs of 9.96 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.23 cfs @ 3.49 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-2: Basin #2

Hydrograph



Summary for Pond B-20: Basin #20

Inflow Area = 2.679 ac, 47.56% Impervious, Inflow Depth = 2.08" for Current 2 yr event
 Inflow = 5.57 cfs @ 12.17 hrs, Volume= 0.464 af
 Outflow = 2.33 cfs @ 12.39 hrs, Volume= 0.344 af, Atten= 58%, Lag= 12.7 min
 Primary = 2.33 cfs @ 12.39 hrs, Volume= 0.344 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 152.36' @ 12.39 hrs Surf.Area= 6,993 sf Storage= 9,135 cf

Plug-Flow detention time= 210.4 min calculated for 0.343 af (74% of inflow)
 Center-of-Mass det. time= 115.7 min (906.5 - 790.8)

Volume	Invert	Avail.Storage	Storage Description
#1	150.87'	35,230 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.87	0	0	0
151.00	5,926	385	385
152.00	6,706	6,316	6,701
153.00	7,514	7,110	13,811
154.00	8,347	7,931	21,742
155.00	9,205	8,776	30,518
155.50	9,643	4,712	35,230

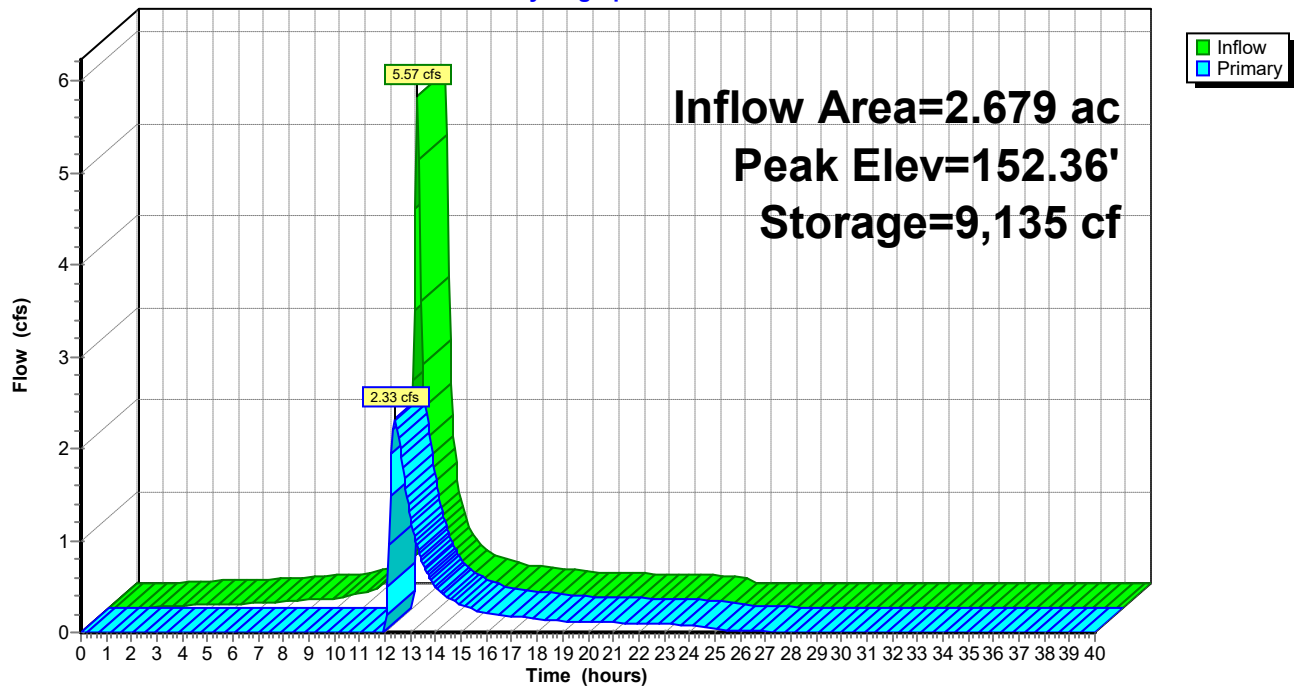
Device	Routing	Invert	Outlet Devices
#1	Primary	150.87'	18.0" Round Culvert L= 174.0' Ke= 0.500 Inlet / Outlet Invert= 150.87' / 150.00' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	151.78'	20.0" W x 7.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	152.53'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	154.32'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.33 cfs @ 12.39 hrs HW=152.35' (Free Discharge)

1=Culvert (Passes 2.33 cfs of 6.30 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 2.33 cfs @ 2.43 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-20: Basin #20

Hydrograph



Summary for Pond B-21: Basin #21

Inflow Area = 2.680 ac, 41.60% Impervious, Inflow Depth = 1.96" for Current 2 yr event
 Inflow = 5.28 cfs @ 12.17 hrs, Volume= 0.438 af
 Outflow = 0.19 cfs @ 15.60 hrs, Volume= 0.310 af, Atten= 96%, Lag= 205.4 min
 Primary = 0.19 cfs @ 15.60 hrs, Volume= 0.310 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 152.23' @ 15.60 hrs Surf.Area= 7,002 sf Storage= 13,417 cf

Plug-Flow detention time= 712.6 min calculated for 0.310 af (71% of inflow)
 Center-of-Mass det. time= 611.7 min (1,407.9 - 796.3)

Volume	Invert	Avail.Storage	Storage Description
#1	149.90'	42,109 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
149.90	0	0	0
150.00	4,848	242	242
151.00	5,776	5,312	5,554
152.00	6,761	6,269	11,823
153.00	7,802	7,282	19,104
154.00	8,900	8,351	27,455
155.00	10,054	9,477	36,932
155.50	10,653	5,177	42,109

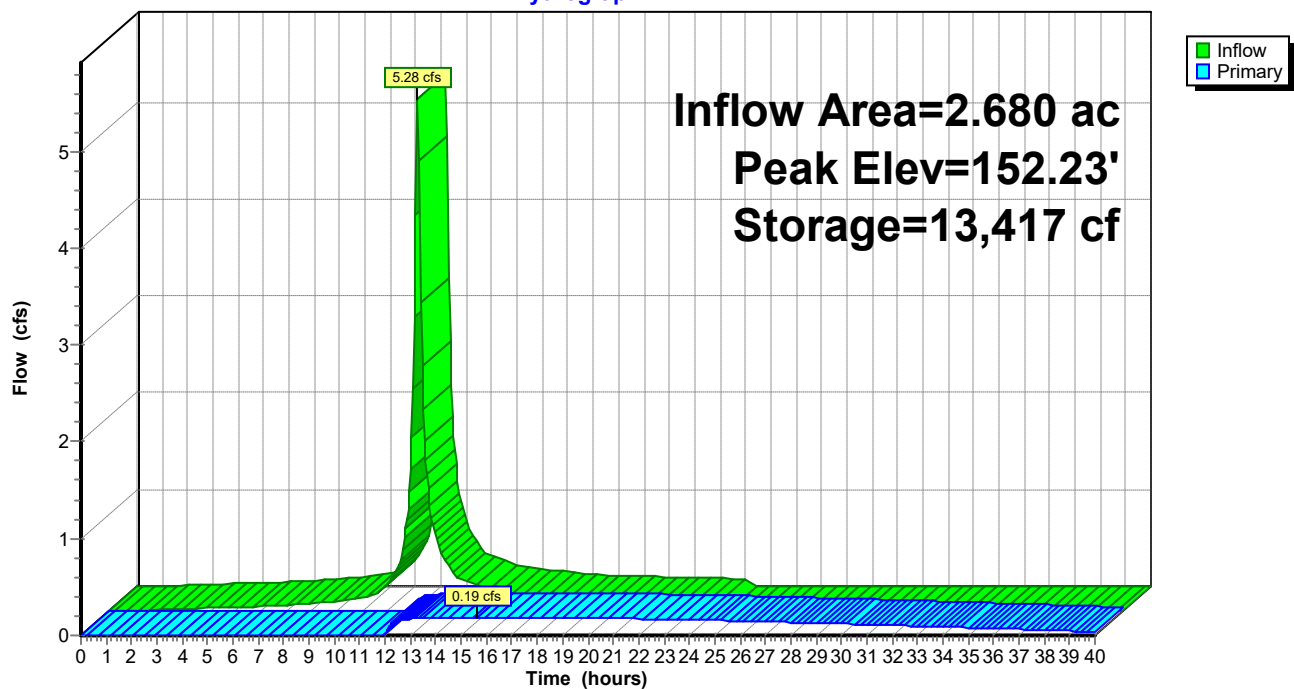
Device	Routing	Invert	Outlet Devices
#1	Primary	149.90'	18.0" Round Culvert L= 182.0' Ke= 0.500 Inlet / Outlet Invert= 149.90' / 149.00' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	150.84'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	152.65'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	154.16'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.19 cfs @ 15.60 hrs HW=152.23' (Free Discharge)

- 1=Culvert (Passes 0.19 cfs of 8.49 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.19 cfs @ 5.46 fps)
- 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-21: Basin #21

Hydrograph



Summary for Pond B-22: Basin #22

Inflow Area = 2.743 ac, 30.19% Impervious, Inflow Depth = 1.74" for Current 2 yr event
 Inflow = 4.83 cfs @ 12.18 hrs, Volume= 0.397 af
 Outflow = 0.16 cfs @ 16.28 hrs, Volume= 0.282 af, Atten= 97%, Lag= 246.3 min
 Primary = 0.16 cfs @ 16.28 hrs, Volume= 0.282 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 149.27' @ 16.28 hrs Surf.Area= 8,225 sf Storage= 12,038 cf

Plug-Flow detention time= 724.4 min calculated for 0.282 af (71% of inflow)
 Center-of-Mass det. time= 620.7 min (1,429.6 - 808.9)

Volume	Invert	Avail.Storage	Storage Description
#1	147.30'	50,528 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.30	0	0	0
148.00	6,928	2,425	2,425
149.00	7,937	7,433	9,857
150.00	9,003	8,470	18,327
151.00	10,125	9,564	27,891
152.00	11,304	10,715	38,606
153.00	12,540	11,922	50,528

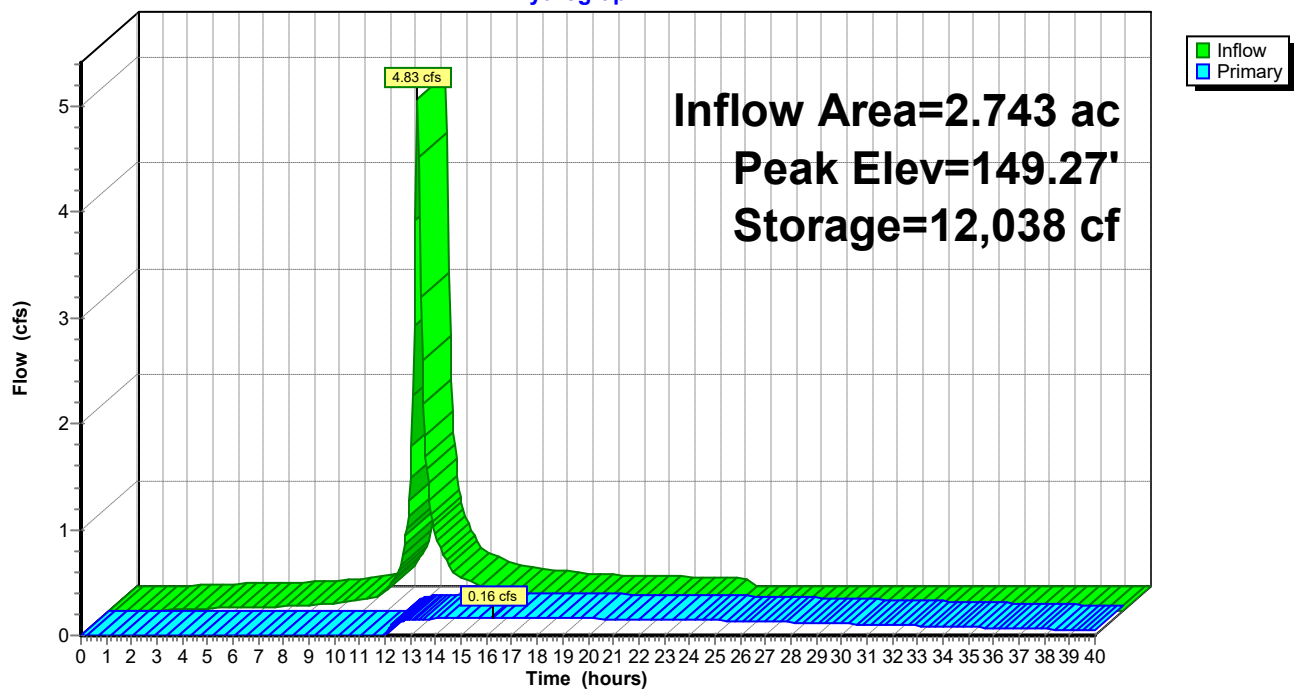
Device	Routing	Invert	Outlet Devices
#1	Primary	147.30'	18.0" Round Culvert L= 169.0' Ke= 0.500 Inlet / Outlet Invert= 147.30' / 146.00' S= 0.0077 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	148.18'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	149.63'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	151.18'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.16 cfs @ 16.28 hrs HW=149.27' (Free Discharge)

1=Culvert (Passes 0.16 cfs of 9.14 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.16 cfs @ 4.78 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-22: Basin #22

Hydrograph



Summary for Pond B-23: Basin #23

Inflow Area = 1.511 ac, 66.64% Impervious, Inflow Depth = 2.46" for Current 2 yr event
 Inflow = 3.66 cfs @ 12.17 hrs, Volume= 0.309 af
 Outflow = 0.70 cfs @ 12.66 hrs, Volume= 0.215 af, Atten= 81%, Lag= 29.2 min
 Primary = 0.70 cfs @ 12.66 hrs, Volume= 0.215 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 145.95' @ 12.66 hrs Surf.Area= 6,477 sf Storage= 7,627 cf

Plug-Flow detention time= 300.4 min calculated for 0.215 af (69% of inflow)
 Center-of-Mass det. time= 201.6 min (978.3 - 776.7)

Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	23,175 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.30	0	0	0
145.00	5,512	1,929	1,929
146.00	6,527	6,020	7,949
147.00	7,599	7,063	15,012
148.00	8,727	8,163	23,175

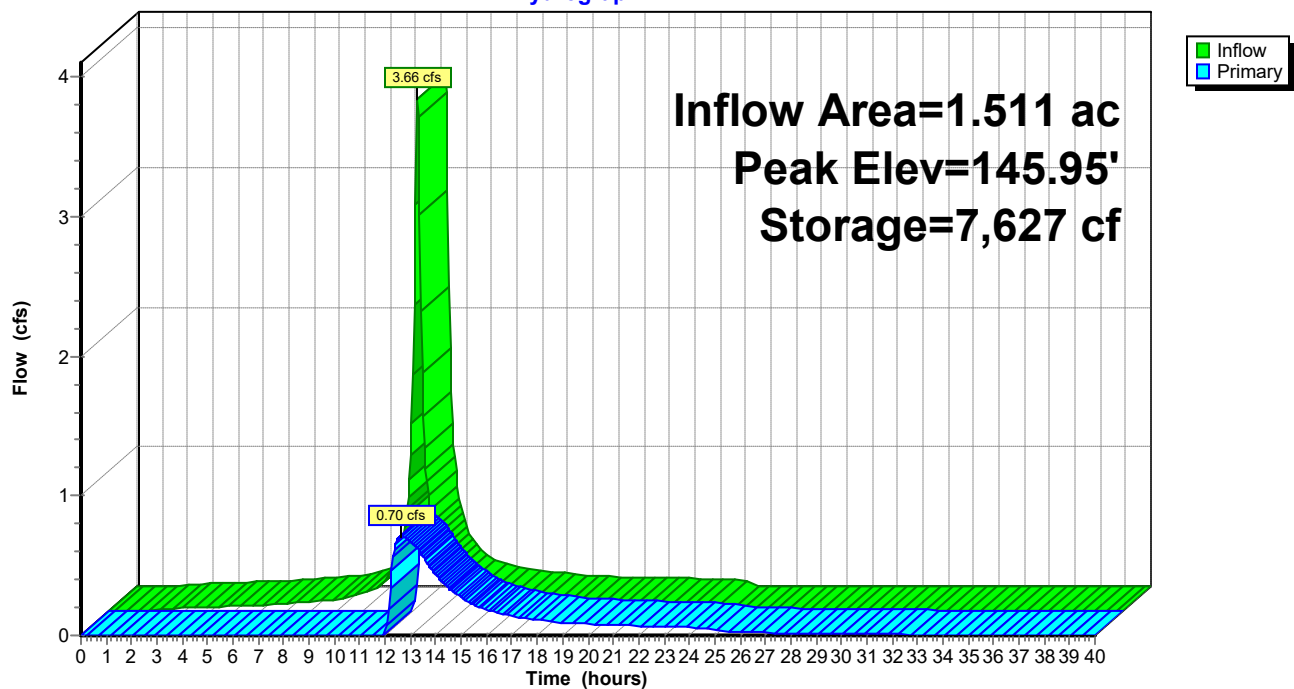
Device	Routing	Invert	Outlet Devices
#1	Primary	144.30'	18.0" Round Culvert L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 144.30' / 144.00' S= 0.0115 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	145.36'	7.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.14'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.00'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.70 cfs @ 12.66 hrs HW=145.95' (Free Discharge)

1=Culvert (Passes 0.70 cfs of 7.73 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.70 cfs @ 2.63 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-23: Basin #23

Hydrograph



Summary for Pond B-24: Basin #24

Inflow Area = 2.739 ac, 44.80% Impervious, Inflow Depth = 2.02" for Current 2 yr event
 Inflow = 5.56 cfs @ 12.17 hrs, Volume= 0.462 af
 Outflow = 0.53 cfs @ 13.29 hrs, Volume= 0.338 af, Atten= 90%, Lag= 66.8 min
 Primary = 0.53 cfs @ 13.29 hrs, Volume= 0.338 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 146.20' @ 13.29 hrs Surf.Area= 8,531 sf Storage= 12,068 cf

Plug-Flow detention time= 361.4 min calculated for 0.338 af (73% of inflow)
 Center-of-Mass det. time= 263.6 min (1,056.8 - 793.2)

Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	40,061 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.30	0	0	0
145.00	7,331	2,566	2,566
146.00	8,327	7,829	10,395
147.00	9,353	8,840	19,235
148.00	10,406	9,880	29,114
149.00	11,488	10,947	40,061

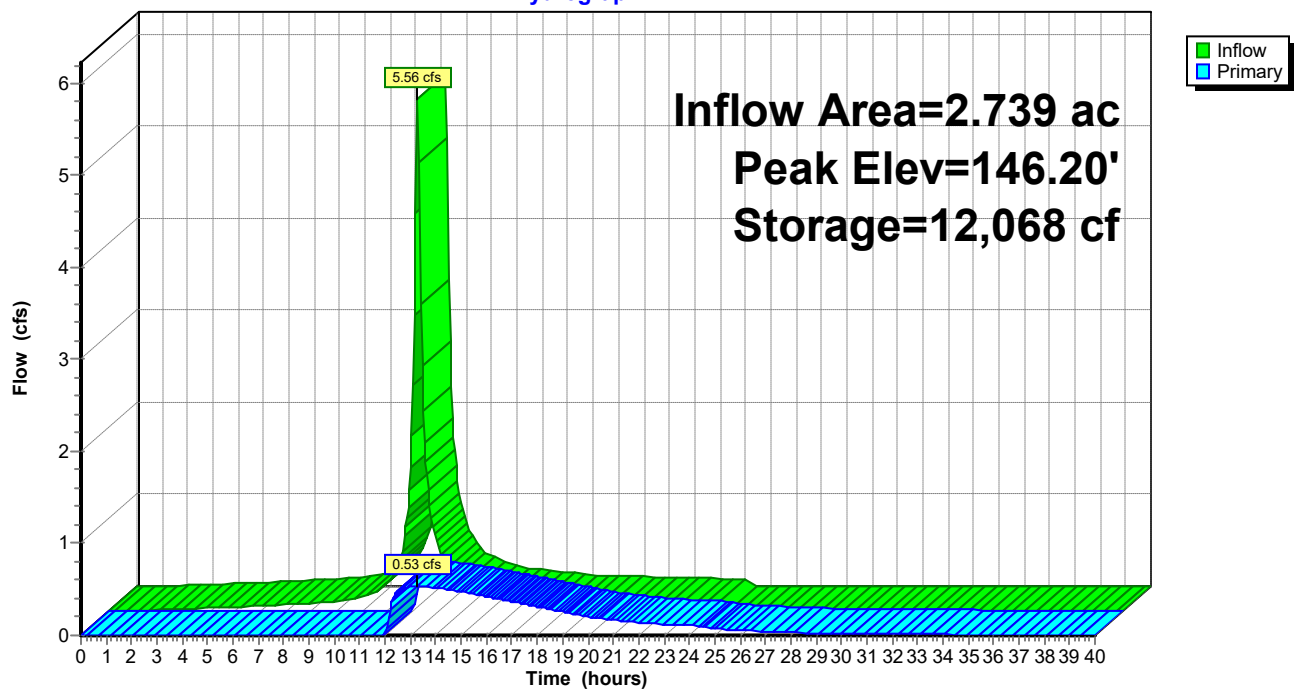
Device	Routing	Invert	Outlet Devices
#1	Primary	144.30'	18.0" Round Culvert L= 59.0' Ke= 0.500 Inlet / Outlet Invert= 144.30' / 144.00' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	145.34'	5.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.49'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.99'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.53 cfs @ 13.29 hrs HW=146.20' (Free Discharge)

1=Culvert (Passes 0.53 cfs of 7.90 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.53 cfs @ 3.88 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-24: Basin #24

Hydrograph



Summary for Pond B-25: Basin #25

Inflow Area = 2.736 ac, 43.02% Impervious, Inflow Depth = 1.99" for Current 2 yr event
 Inflow = 5.46 cfs @ 12.17 hrs, Volume= 0.454 af
 Outflow = 0.53 cfs @ 13.28 hrs, Volume= 0.338 af, Atten= 90%, Lag= 66.1 min
 Primary = 0.53 cfs @ 13.28 hrs, Volume= 0.338 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 145.82' @ 13.28 hrs Surf.Area= 6,333 sf Storage= 11,701 cf

Plug-Flow detention time= 341.0 min calculated for 0.338 af (75% of inflow)
 Center-of-Mass det. time= 245.6 min (1,040.5 - 794.9)

Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	36,587 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.30	0	0	0
144.00	4,702	1,646	1,646
145.00	5,584	5,143	6,789
146.00	6,492	6,038	12,827
147.00	7,428	6,960	19,787
148.00	8,393	7,911	27,697
149.00	9,386	8,890	36,587

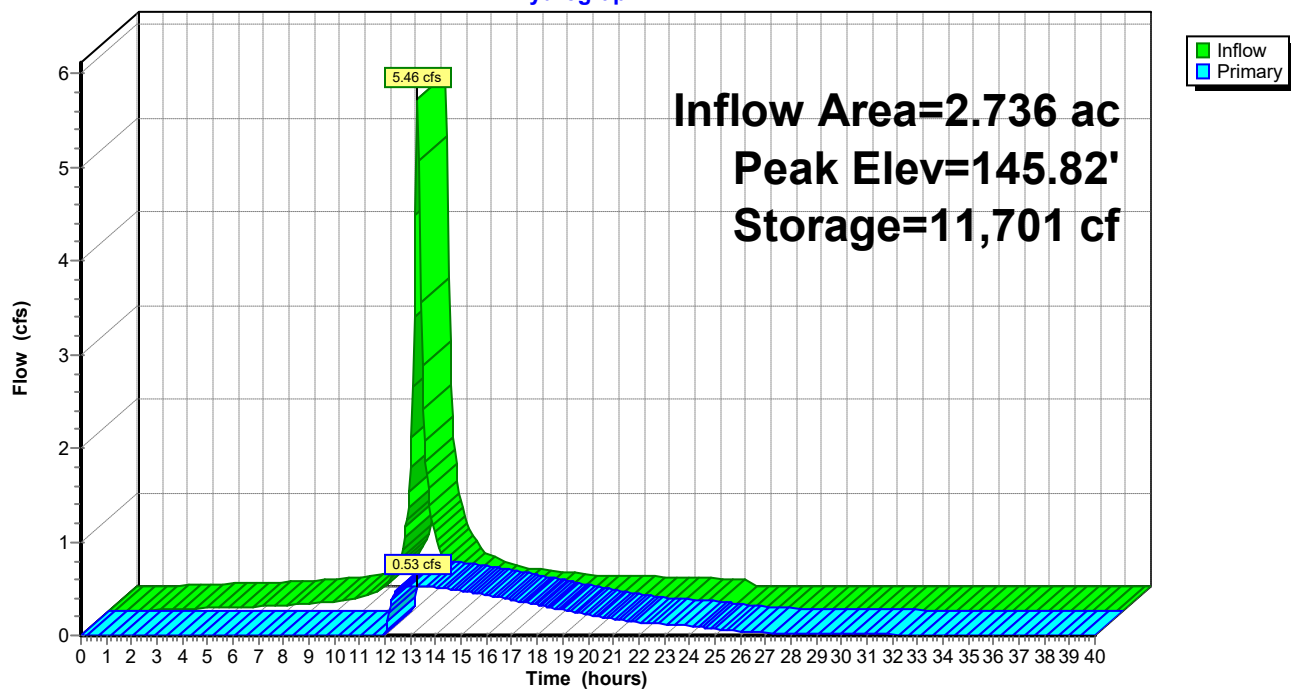
Device	Routing	Invert	Outlet Devices
#1	Primary	143.30'	18.0" Round Culvert L= 186.0' Ke= 0.500 Inlet / Outlet Invert= 143.30' / 142.00' S= 0.0070 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	144.65'	4.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.21'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.96'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.53 cfs @ 13.28 hrs HW=145.82' (Free Discharge)

1=Culvert (Passes 0.53 cfs of 9.77 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.53 cfs @ 4.78 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-25: Basin #25

Hydrograph



Summary for Pond B-26: Basin #26

Inflow Area = 2.687 ac, 36.06% Impervious, Inflow Depth = 1.85" for Current 2 yr event
 Inflow = 5.01 cfs @ 12.18 hrs, Volume= 0.415 af
 Outflow = 0.25 cfs @ 14.60 hrs, Volume= 0.311 af, Atten= 95%, Lag= 145.2 min
 Primary = 0.25 cfs @ 14.60 hrs, Volume= 0.311 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 145.66' @ 14.60 hrs Surf.Area= 6,372 sf Storage= 11,821 cf

Plug-Flow detention time= 544.9 min calculated for 0.310 af (75% of inflow)
 Center-of-Mass det. time= 450.4 min (1,252.4 - 802.0)

Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	36,073 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.30	0	0	0
144.00	5,522	1,933	1,933
145.00	6,025	5,774	7,706
146.00	6,547	6,286	13,992
147.00	7,081	6,814	20,806
148.00	7,630	7,356	28,162
149.00	8,193	7,912	36,073

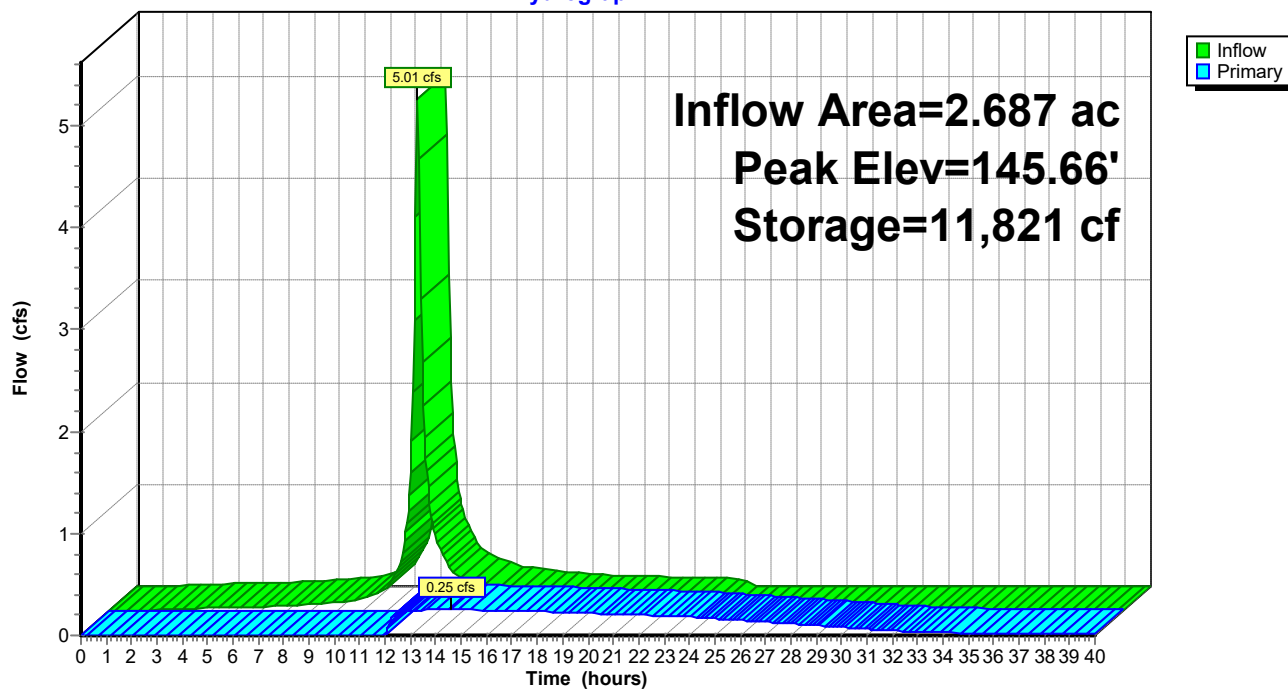
Device	Routing	Invert	Outlet Devices
#1	Primary	143.30'	18.0" Round Culvert L= 234.0' Ke= 0.500 Inlet / Outlet Invert= 143.30' / 142.00' S= 0.0056 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	144.40'	3.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.09'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.98'	50.0' long + 3.0' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.25 cfs @ 14.60 hrs HW=145.66' (Free Discharge)

1=Culvert (Passes 0.25 cfs of 8.68 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.25 cfs @ 5.14 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-26: Basin #26

Hydrograph



Summary for Pond B-27: Basin #27

Inflow Area = 2.414 ac, 48.22% Impervious, Inflow Depth = 2.09" for Current 2 yr event
 Inflow = 5.05 cfs @ 12.17 hrs, Volume= 0.421 af
 Outflow = 3.83 cfs @ 12.26 hrs, Volume= 0.312 af, Atten= 24%, Lag= 5.3 min
 Primary = 3.83 cfs @ 12.26 hrs, Volume= 0.312 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 184.80' @ 12.26 hrs Surf.Area= 3,019 sf Storage= 6,635 cf

Plug-Flow detention time= 177.8 min calculated for 0.312 af (74% of inflow)
 Center-of-Mass det. time= 83.0 min (873.2 - 790.2)

Volume	Invert	Avail.Storage	Storage Description
#1	180.30'	14,865 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
180.30	0	0	0
181.00	245	86	86
182.00	1,153	699	785
183.00	1,819	1,486	2,271
184.00	2,484	2,152	4,422
185.00	3,149	2,817	7,239
186.00	3,813	3,481	10,720
187.00	4,478	4,146	14,865

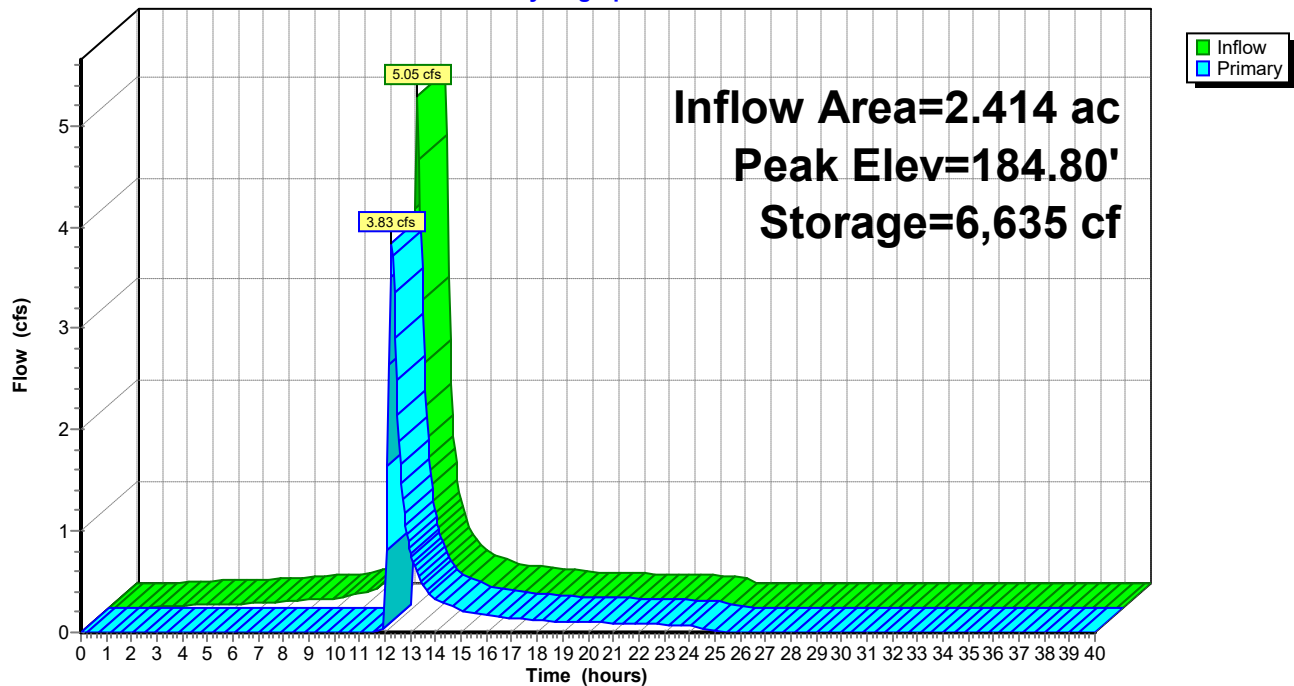
Device	Routing	Invert	Outlet Devices
#1	Primary	179.65'	18.0" Round Culvert L= 194.0' Ke= 0.500 Inlet / Outlet Invert= 179.65' / 170.25' S= 0.0485 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	184.12'	26.0" W x 7.5" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.96'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	186.00'	50.0' long + 3.0' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.80 cfs @ 12.26 hrs HW=184.80' (Free Discharge)

- 1=Culvert (Passes 3.80 cfs of 17.84 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 3.80 cfs @ 2.81 fps)
- 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-27: Basin #27

Hydrograph



Summary for Pond B-28: Basin #28

Inflow Area = 1.917 ac, 53.99% Impervious, Inflow Depth = 2.21" for Current 2 yr event
 Inflow = 4.21 cfs @ 12.17 hrs, Volume= 0.352 af
 Outflow = 3.17 cfs @ 12.26 hrs, Volume= 0.257 af, Atten= 25%, Lag= 5.4 min
 Primary = 3.17 cfs @ 12.26 hrs, Volume= 0.257 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 178.99' @ 12.26 hrs Surf.Area= 3,284 sf Storage= 5,816 cf

Plug-Flow detention time= 185.1 min calculated for 0.257 af (73% of inflow)
 Center-of-Mass det. time= 87.8 min (873.3 - 785.5)

Volume	Invert	Avail.Storage	Storage Description
#1	176.30'	13,936 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
176.30	0	0	0
177.00	1,909	668	668
178.00	2,585	2,247	2,915
179.00	3,292	2,939	5,854
180.00	4,033	3,663	9,516
181.00	4,806	4,420	13,936

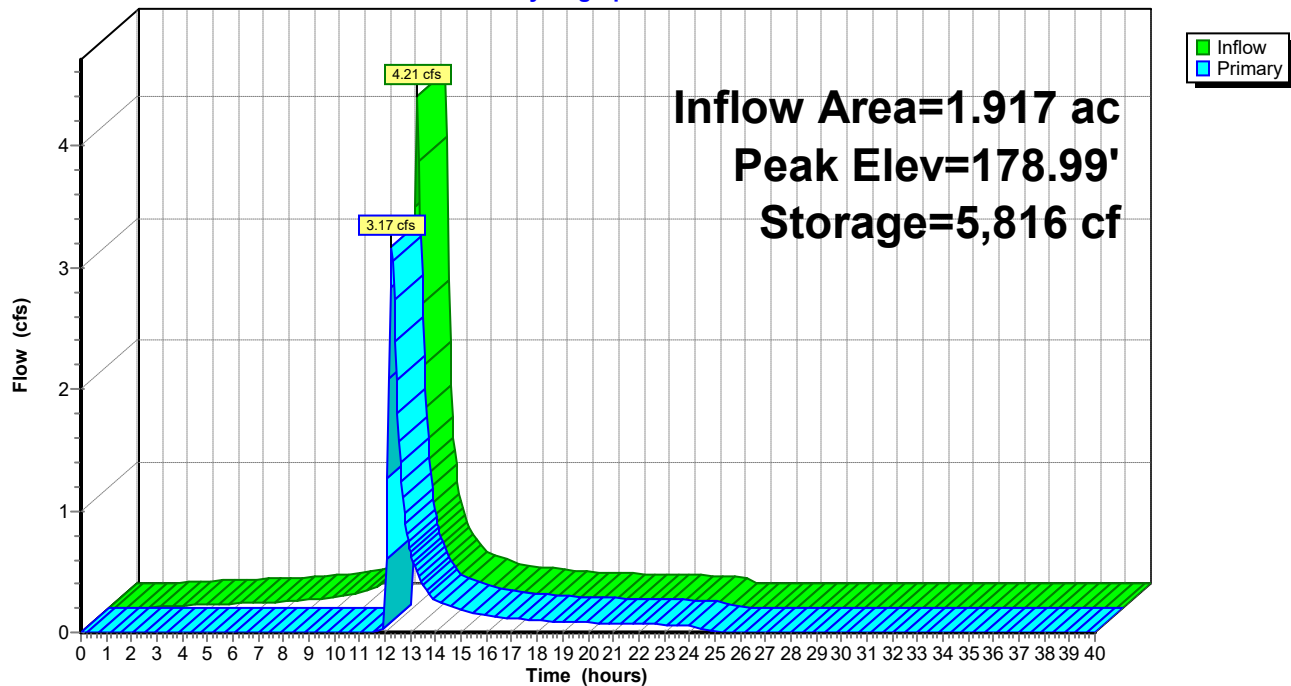
Device	Routing	Invert	Outlet Devices
#1	Primary	175.65'	18.0" Round Culvert L= 186.0' Ke= 0.500 Inlet / Outlet Invert= 175.65' / 168.80' S= 0.0368 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	178.45'	30.0" W x 9.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.09'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	179.84'	50.0' long + 3.0' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.13 cfs @ 12.26 hrs HW=178.98' (Free Discharge)

1=Culvert (Passes 3.13 cfs of 13.68 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 3.13 cfs @ 2.35 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-28: Basin #28

Hydrograph



Summary for Pond B-3: Basin #3

Inflow Area = 2.904 ac, 42.80% Impervious, Inflow Depth = 1.98" for Current 2 yr event
 Inflow = 5.79 cfs @ 12.17 hrs, Volume= 0.480 af
 Outflow = 0.07 cfs @ 24.10 hrs, Volume= 0.106 af, Atten= 99%, Lag= 715.4 min
 Primary = 0.07 cfs @ 24.10 hrs, Volume= 0.106 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 214.30' @ 24.10 hrs Surf.Area= 13,691 sf Storage= 18,830 cf

Plug-Flow detention time= 956.8 min calculated for 0.106 af (22% of inflow)
 Center-of-Mass det. time= 744.9 min (1,540.0 - 795.1)

Volume	Invert	Avail.Storage	Storage Description
#1	212.30'	67,257 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.30	0	0	0
213.00	9,992	3,497	3,497
214.00	12,803	11,398	14,895
215.00	15,792	14,298	29,192
216.00	18,977	17,385	46,577
217.00	22,384	20,681	67,257

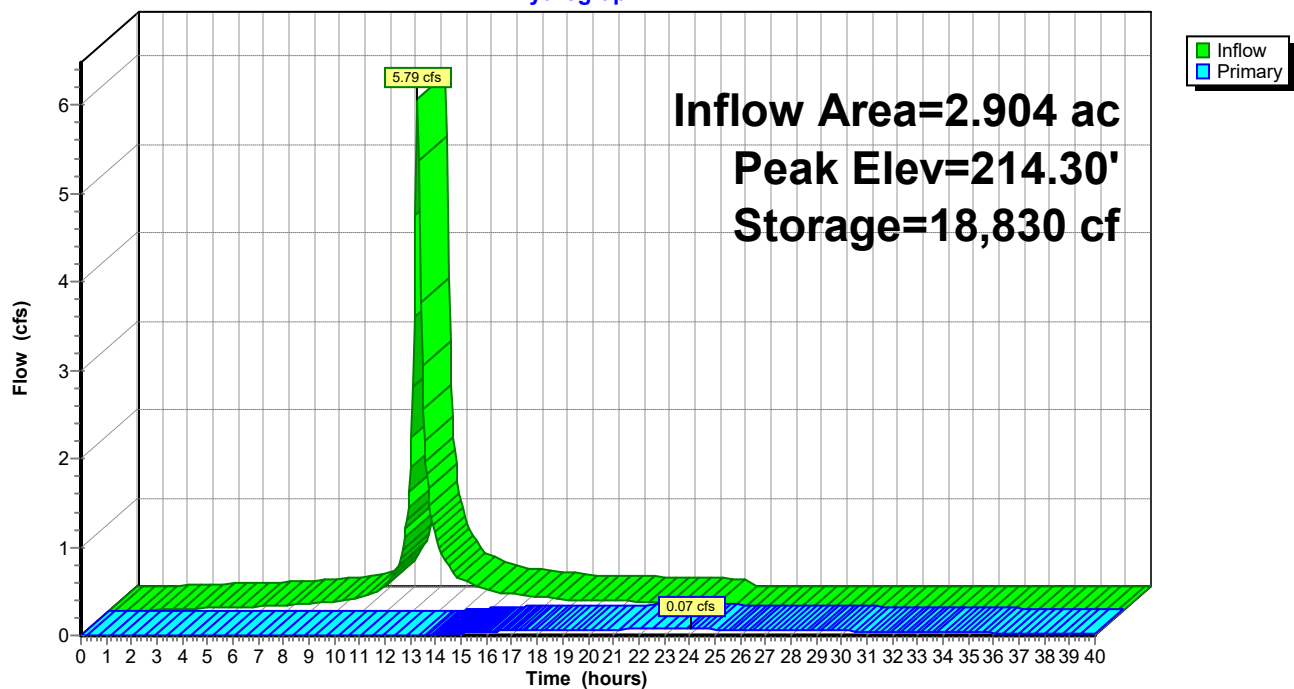
Device	Routing	Invert	Outlet Devices
#1	Primary	212.65'	18.0" Round Culvert L= 122.0' Ke= 0.500 Inlet / Outlet Invert= 212.65' / 204.00' S= 0.0709 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	214.00'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	214.50'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	215.70'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.07 cfs @ 24.10 hrs HW=214.30' (Free Discharge)

1=Culvert (Passes 0.07 cfs of 8.06 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.07 cfs @ 2.11 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-3: Basin #3

Hydrograph



Summary for Pond B-4: Basin #4

Inflow Area = 2.725 ac, 24.99% Impervious, Inflow Depth = 1.63" for Current 2 yr event
 Inflow = 4.54 cfs @ 12.18 hrs, Volume= 0.371 af
 Outflow = 0.15 cfs @ 16.46 hrs, Volume= 0.266 af, Atten= 97%, Lag= 256.8 min
 Primary = 0.15 cfs @ 16.46 hrs, Volume= 0.266 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 201.06' @ 16.46 hrs Surf.Area= 8,788 sf Storage= 11,146 cf

Plug-Flow detention time= 718.5 min calculated for 0.266 af (72% of inflow)
 Center-of-Mass det. time= 616.4 min (1,432.2 - 815.8)

Volume	Invert	Avail.Storage	Storage Description
#1	199.30'	72,824 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.30	0	0	0
200.00	7,419	2,597	2,597
201.00	8,712	8,066	10,662
202.00	10,094	9,403	20,065
203.00	11,557	10,826	30,891
204.00	13,100	12,329	43,219
205.00	14,725	13,913	57,132
206.00	16,659	15,692	72,824

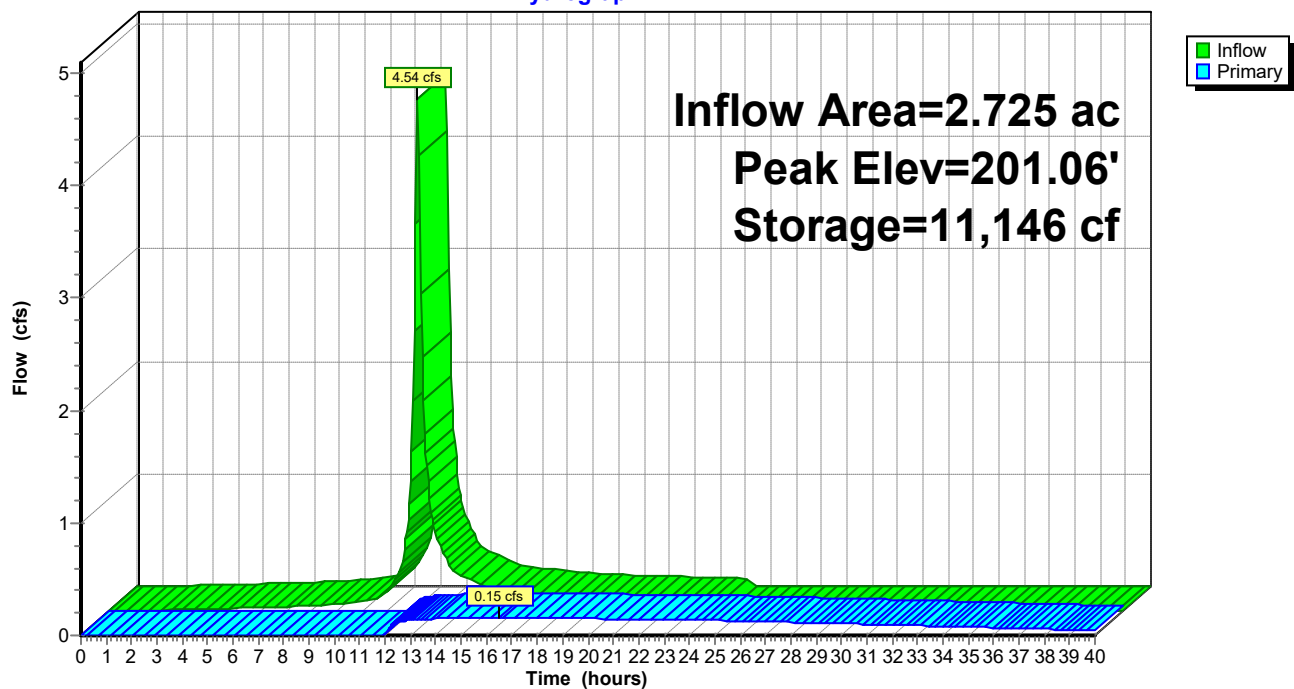
Device	Routing	Invert	Outlet Devices
#1	Primary	198.65'	18.0" Round Culvert L= 58.0' Ke= 0.500 Inlet / Outlet Invert= 198.65' / 198.00' S= 0.0112 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	200.08'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	201.38'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	202.68'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.15 cfs @ 16.46 hrs HW=201.06' (Free Discharge)

- 1=Culvert (Passes 0.15 cfs of 10.95 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.15 cfs @ 4.49 fps)
- 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-4: Basin #4

Hydrograph



Summary for Pond B-5: Basin #5

Inflow Area = 1.419 ac, 34.60% Impervious, Inflow Depth = 1.82" for Current 2 yr event
 Inflow = 2.61 cfs @ 12.18 hrs, Volume= 0.216 af
 Outflow = 0.09 cfs @ 16.01 hrs, Volume= 0.144 af, Atten= 97%, Lag= 229.9 min
 Primary = 0.09 cfs @ 16.01 hrs, Volume= 0.144 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 200.21' @ 16.01 hrs Surf.Area= 11,881 sf Storage= 6,590 cf

Plug-Flow detention time= 697.8 min calculated for 0.144 af (67% of inflow)
 Center-of-Mass det. time= 589.5 min (1,393.2 - 803.6)

Volume	Invert	Avail.Storage	Storage Description
#1	199.30'	96,047 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.30	0	0	0
200.00	11,631	4,071	4,071
201.00	12,798	12,215	16,285
202.00	14,009	13,404	29,689
203.00	15,262	14,636	44,324
204.00	16,558	15,910	60,234
205.00	17,896	17,227	77,461
206.00	19,275	18,586	96,047

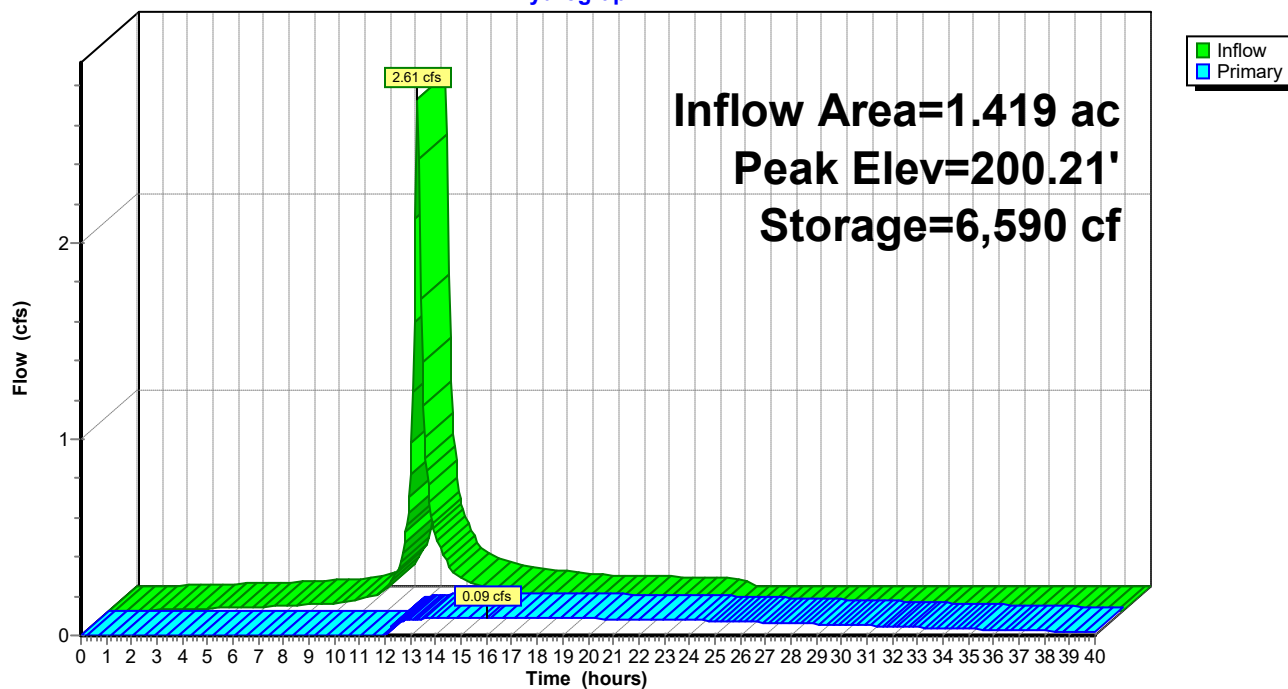
Device	Routing	Invert	Outlet Devices
#1	Primary	198.65'	18.0" Round Culvert L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 198.65' / 196.00' S= 0.0379 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	199.81'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	200.35'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	201.07'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.09 cfs @ 16.01 hrs HW=200.21' (Free Discharge)

- 1=Culvert (Passes 0.09 cfs of 7.68 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.09 cfs @ 2.64 fps)
- 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-5: Basin #5

Hydrograph



Summary for Pond B-6: Basin #6

Inflow Area = 1.191 ac, 58.27% Impervious, Inflow Depth = 2.29" for Current 2 yr event
 Inflow = 2.71 cfs @ 12.17 hrs, Volume= 0.227 af
 Outflow = 0.13 cfs @ 14.55 hrs, Volume= 0.156 af, Atten= 95%, Lag= 142.9 min
 Primary = 0.13 cfs @ 14.55 hrs, Volume= 0.156 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 199.87' @ 14.55 hrs Surf.Area= 5,973 sf Storage= 6,834 cf

Plug-Flow detention time= 580.3 min calculated for 0.156 af (69% of inflow)
 Center-of-Mass det. time= 477.4 min (1,259.6 - 782.3)

Volume	Invert	Avail.Storage	Storage Description
#1	198.30'	37,655 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
198.30	0	0	0
199.00	5,389	1,886	1,886
200.00	6,060	5,725	7,611
201.00	6,761	6,411	14,021
202.00	7,490	7,126	21,147
203.00	8,247	7,869	29,015
204.00	9,032	8,640	37,655

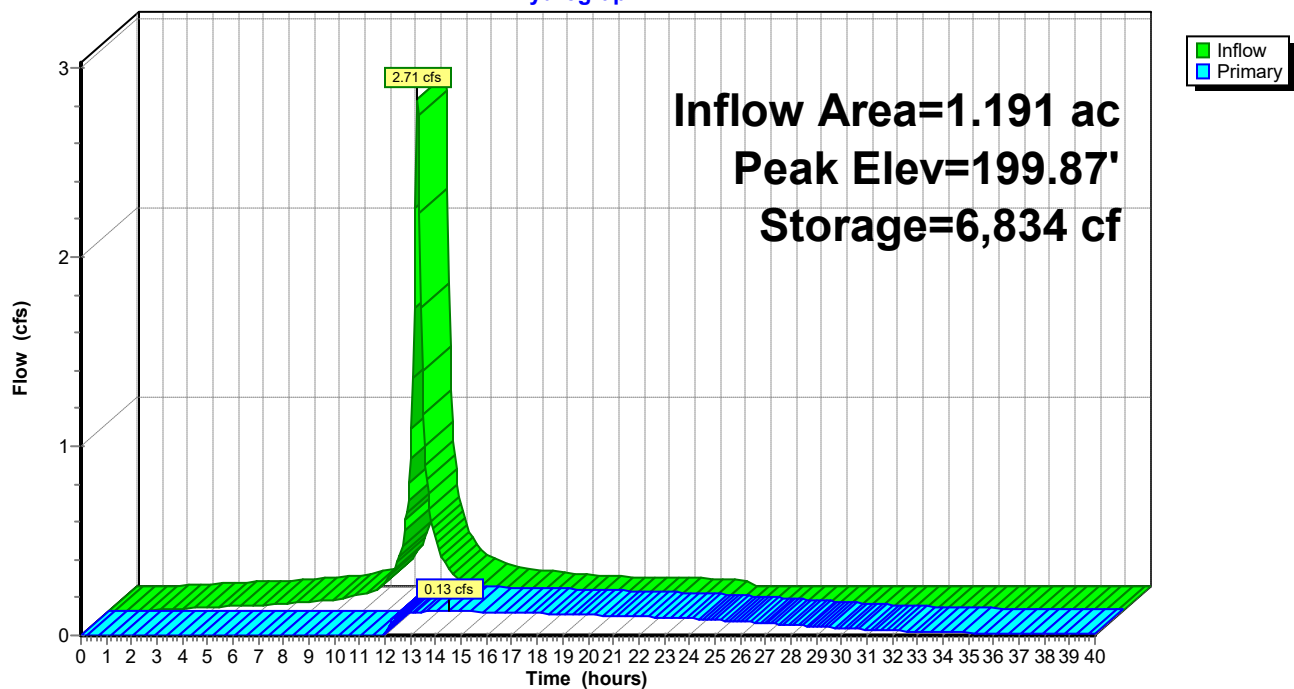
Device	Routing	Invert	Outlet Devices
#1	Primary	197.65'	18.0" Round Culvert L= 627.0' Ke= 0.500 Inlet / Outlet Invert= 197.65' / 194.00' S= 0.0058 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	199.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	200.10'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.89'	50.0' long + 3.0' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.13 cfs @ 14.55 hrs HW=199.87' (Free Discharge)

1=Culvert (Passes 0.13 cfs of 8.23 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 3.72 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-6: Basin #6

Hydrograph



Summary for Pond B-7: Basin #7

Inflow Area = 1.564 ac, 62.85% Impervious, Inflow Depth = 2.38" for Current 2 yr event
 Inflow = 3.68 cfs @ 12.17 hrs, Volume= 0.310 af
 Outflow = 0.12 cfs @ 15.66 hrs, Volume= 0.194 af, Atten= 97%, Lag= 209.2 min
 Primary = 0.12 cfs @ 15.66 hrs, Volume= 0.194 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 207.80' @ 15.66 hrs Surf.Area= 9,929 sf Storage= 9,933 cf

Plug-Flow detention time= 733.3 min calculated for 0.194 af (63% of inflow)
 Center-of-Mass det. time= 622.5 min (1,401.7 - 779.1)

Volume	Invert	Avail.Storage	Storage Description
#1	206.47'	48,130 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.47	0	0	0
207.00	8,989	2,382	2,382
208.00	10,166	9,578	11,960
209.00	11,395	10,781	22,740
210.00	12,681	12,038	34,778
211.00	14,023	13,352	48,130

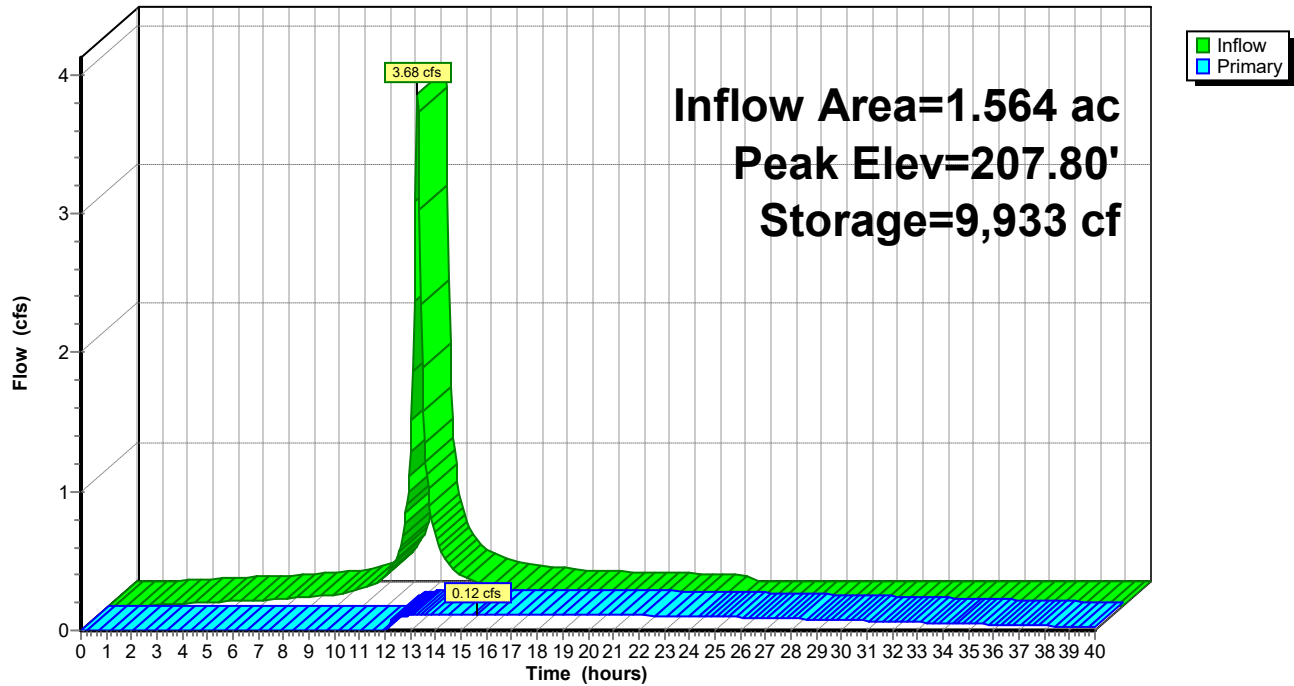
Device	Routing	Invert	Outlet Devices
#1	Primary	206.47'	18.0" Round Culvert L= 94.0' Ke= 0.500 Inlet / Outlet Invert= 206.47' / 206.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	207.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	207.99'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	208.86'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.12 cfs @ 15.66 hrs HW=207.80' (Free Discharge)

1=Culvert (Passes 0.12 cfs of 5.25 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 3.49 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-7: Basin #7

Hydrograph



Summary for Pond B-8: Basin #8

Inflow Area = 2.546 ac, 37.27% Impervious, Inflow Depth = 1.88" for Current 2 yr event
 Inflow = 4.81 cfs @ 12.18 hrs, Volume= 0.398 af
 Outflow = 0.12 cfs @ 17.63 hrs, Volume= 0.233 af, Atten= 97%, Lag= 327.4 min
 Primary = 0.12 cfs @ 17.63 hrs, Volume= 0.233 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.61' @ 17.63 hrs Surf.Area= 13,887 sf Storage= 12,928 cf

Plug-Flow detention time= 804.2 min calculated for 0.233 af (59% of inflow)
 Center-of-Mass det. time= 684.1 min (1,484.8 - 800.7)

Volume	Invert	Avail.Storage	Storage Description
#1	178.30'	49,028 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.30	0	0	0
179.00	13,283	4,649	4,649
180.00	14,274	13,779	18,428
181.00	15,293	14,784	33,211
182.00	16,341	15,817	49,028

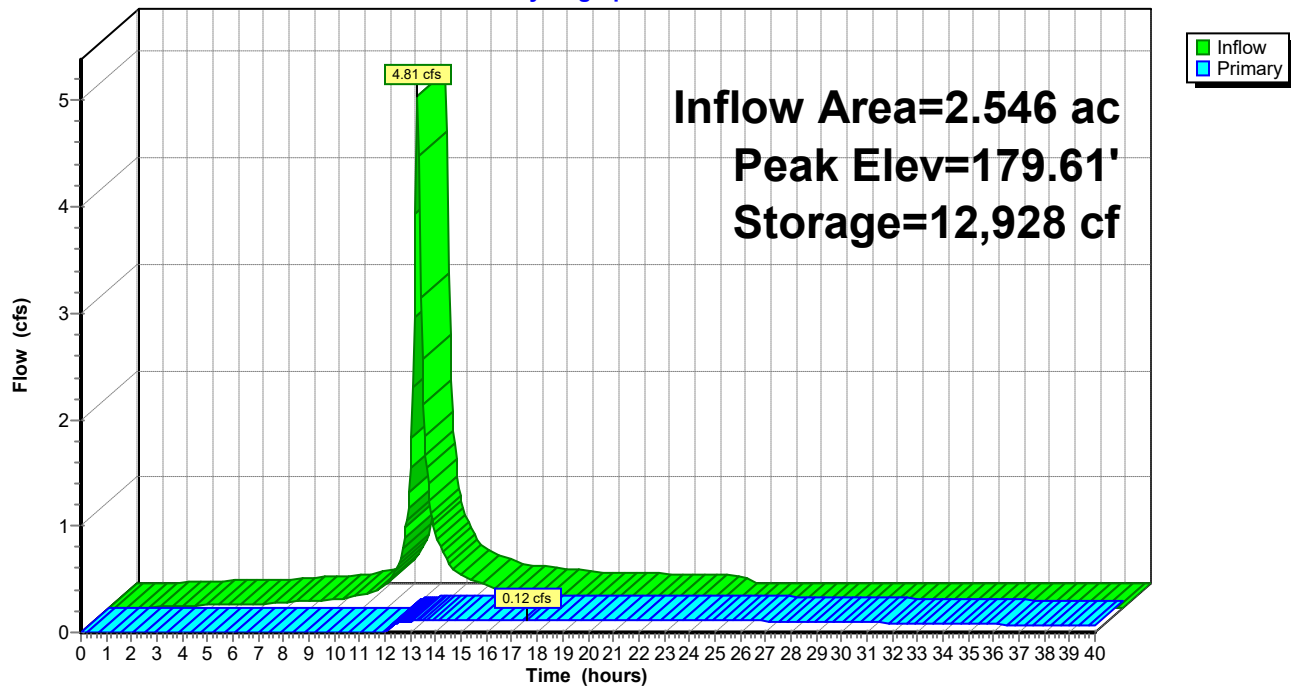
Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 46.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	178.95'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.83'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.83'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.12 cfs @ 17.63 hrs HW=179.61' (Free Discharge)

1=Culvert (Passes 0.12 cfs of 5.36 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 3.59 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-8: Basin #8

Hydrograph



Summary for Pond B-9: Basin #9

Inflow Area = 1.503 ac, 52.63% Impervious, Inflow Depth = 2.18" for Current 2 yr event
 Inflow = 3.26 cfs @ 12.17 hrs, Volume= 0.273 af
 Outflow = 0.10 cfs @ 16.02 hrs, Volume= 0.170 af, Atten= 97%, Lag= 230.8 min
 Primary = 0.10 cfs @ 16.02 hrs, Volume= 0.170 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.45' @ 16.02 hrs Surf.Area= 11,161 sf Storage= 8,676 cf

Plug-Flow detention time= 732.6 min calculated for 0.170 af (62% of inflow)
 Center-of-Mass det. time= 619.9 min (1,406.4 - 786.5)

Volume	Invert	Avail.Storage	Storage Description
#1	178.30'	40,392 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.30	0	0	0
179.00	10,720	3,752	3,752
180.00	11,700	11,210	14,962
181.00	12,708	12,204	27,166
182.00	13,745	13,227	40,392

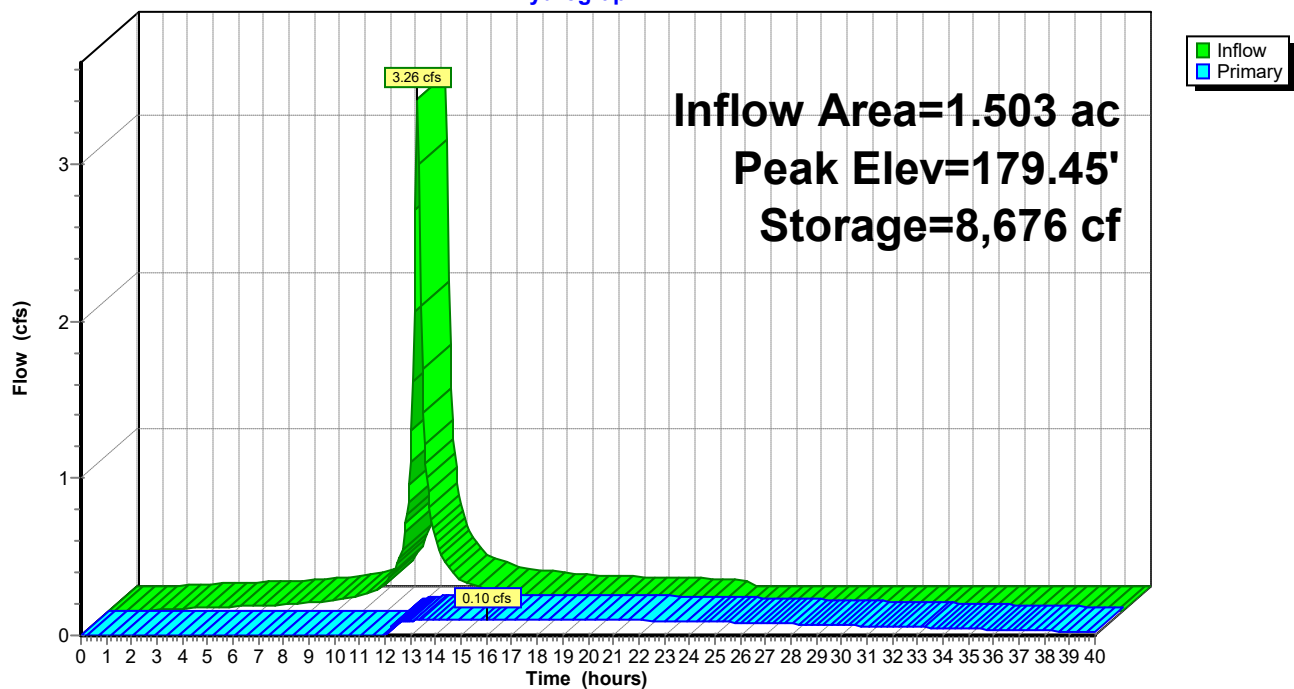
Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 45.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0051 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	178.95'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.61'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.31'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.10 cfs @ 16.02 hrs HW=179.45' (Free Discharge)

1=Culvert (Passes 0.10 cfs of 4.46 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.10 cfs @ 3.03 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-9: Basin #9

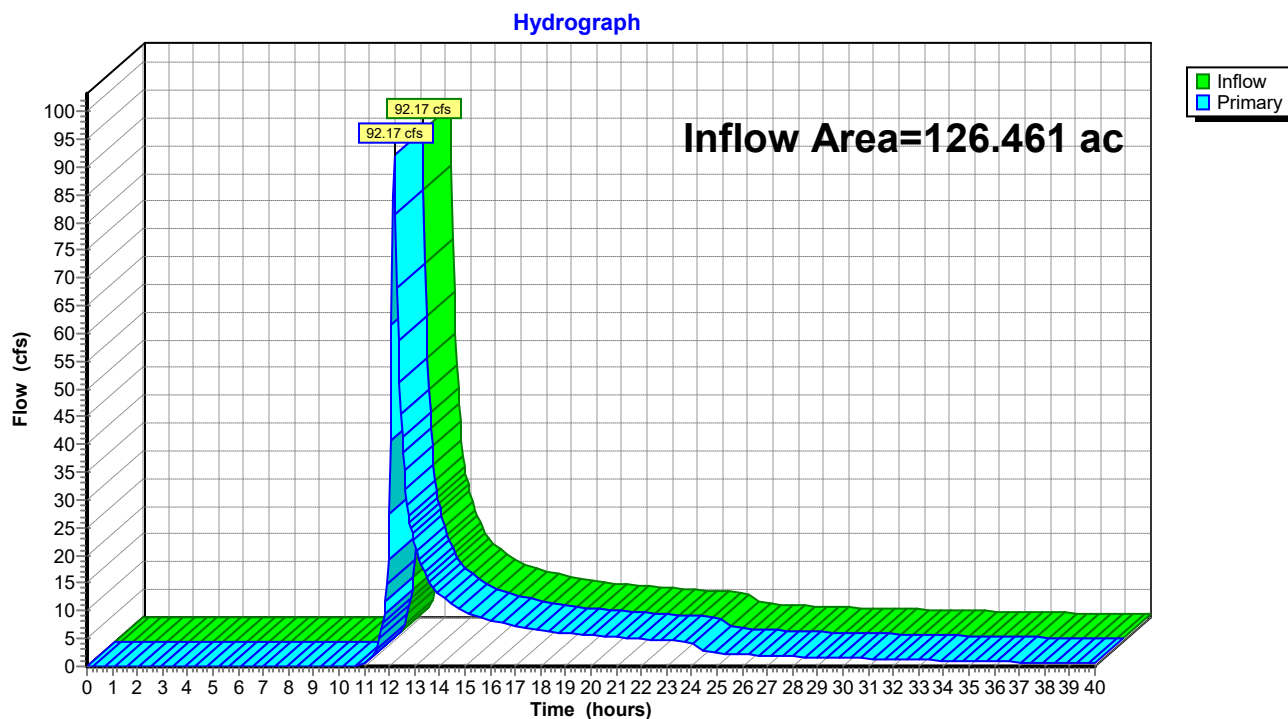
Hydrograph



Summary for Link DP-1: Design Pont #1 (Ewing Creek)

Inflow Area = 126.461 ac, 21.23% Impervious, Inflow Depth > 1.23" for Current 2 yr event
Inflow = 92.17 cfs @ 12.19 hrs, Volume= 12.973 af
Primary = 92.17 cfs @ 12.19 hrs, Volume= 12.973 af, Atten= 0%, Lag= 0.0 min

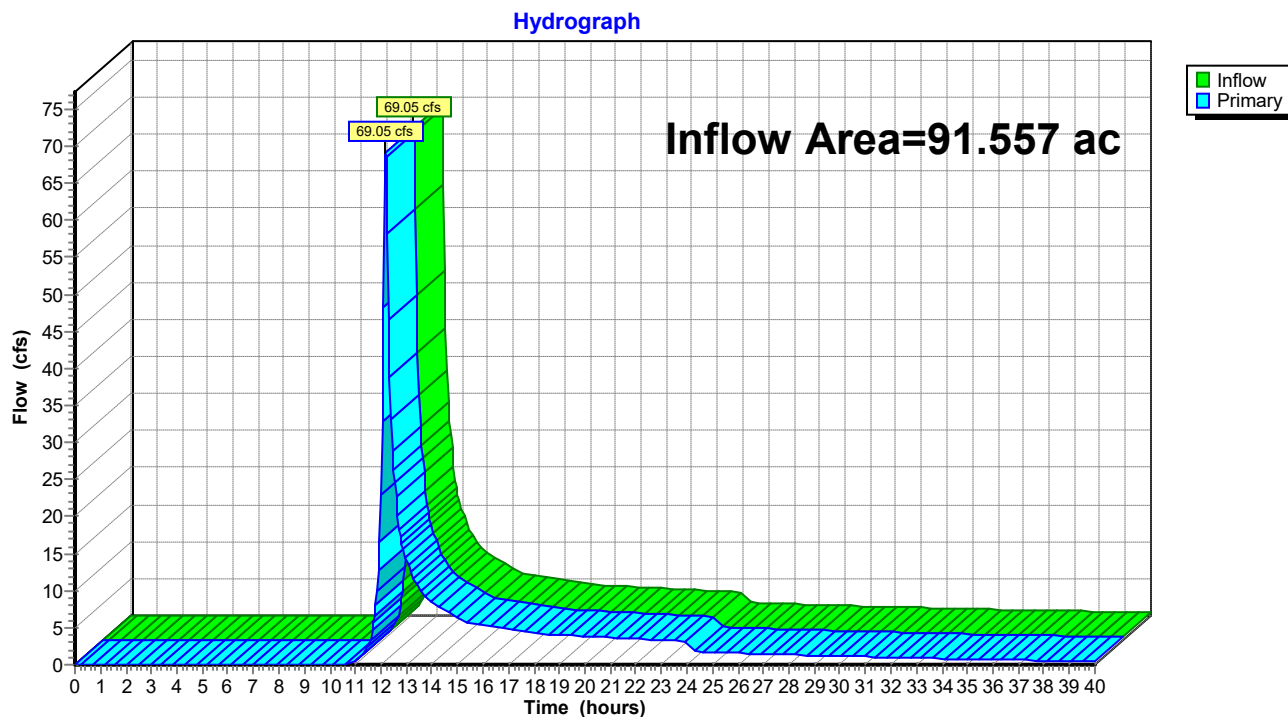
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link DP-1: Design Pont #1 (Ewing Creek)

Summary for Link PDA-1: Proposed Drainage Area #1

Inflow Area = 91.557 ac, 16.93% Impervious, Inflow Depth > 1.17" for Current 2 yr event
Inflow = 69.05 cfs @ 12.19 hrs, Volume= 8.943 af
Primary = 69.05 cfs @ 12.19 hrs, Volume= 8.943 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-1 : Design Pont #1 (Ewing Creek)

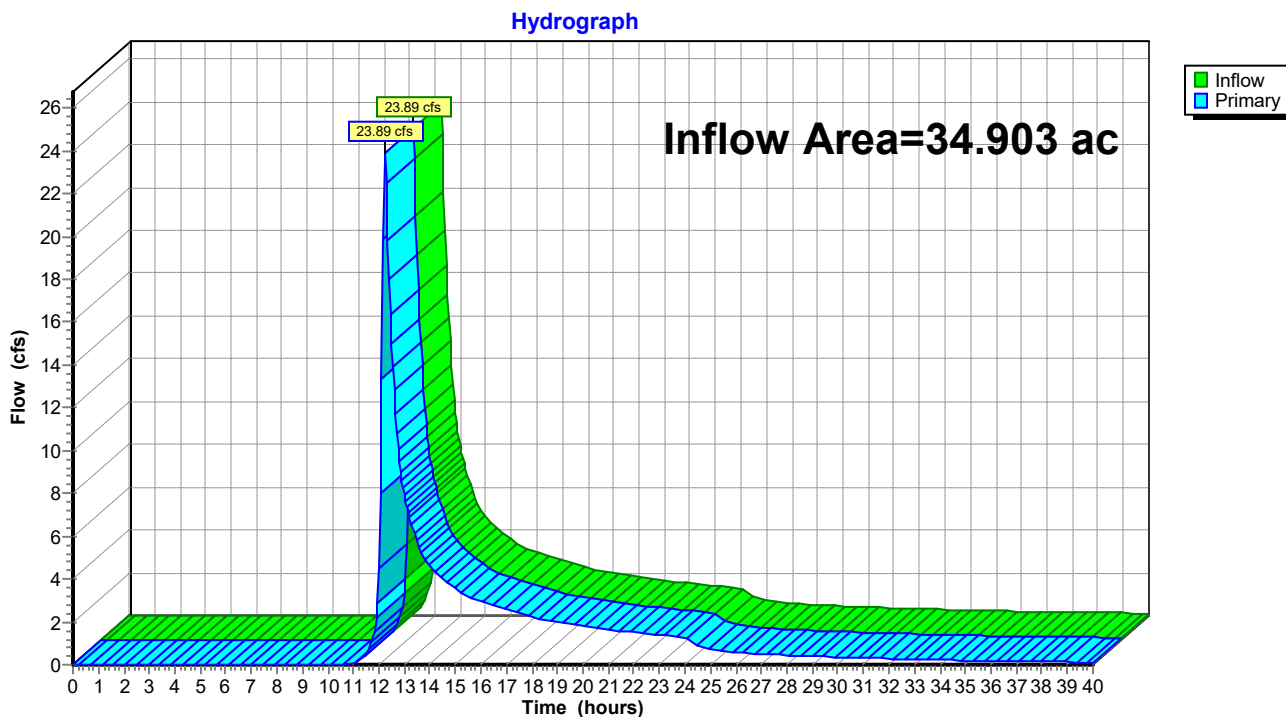
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-1: Proposed Drainage Area #1

Summary for Link PDA-2: Proposed Drainage Area #2

Inflow Area = 34.903 ac, 32.51% Impervious, Inflow Depth > 1.39" for Current 2 yr event
Inflow = 23.89 cfs @ 12.22 hrs, Volume= 4.029 af
Primary = 23.89 cfs @ 12.22 hrs, Volume= 4.029 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP-1 : Design Pont #1 (Ewing Creek)

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-2: Proposed Drainage Area #2

Summary for Subcatchment 1I: PDA-1 (impervious)

Runoff = 0.55 cfs @ 12.17 hrs, Volume= 0.048 af, Depth= 4.86"
 Routed to Pond B-1 : Basin #1

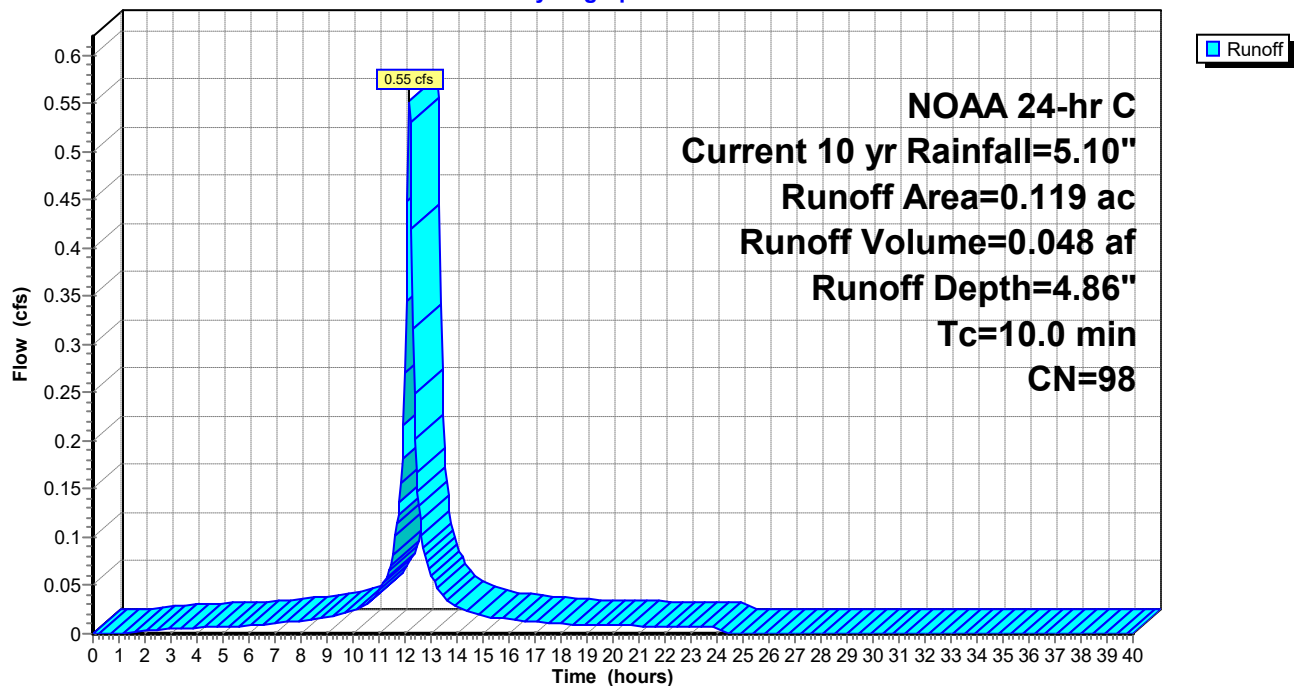
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.115	98	Pavement, HSG C
* 0.004	98	Concrete, HSG C
0.119	98	Weighted Average
0.119		100.00% Impervious Area

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

Subcatchment 1I: PDA-1 (impervious)

Hydrograph



Summary for Subcatchment 1P: PDA-1 (pervious)

Runoff = 6.39 cfs @ 12.18 hrs, Volume= 0.482 af, Depth= 2.44"
Routed to Pond B-1 : Basin #1

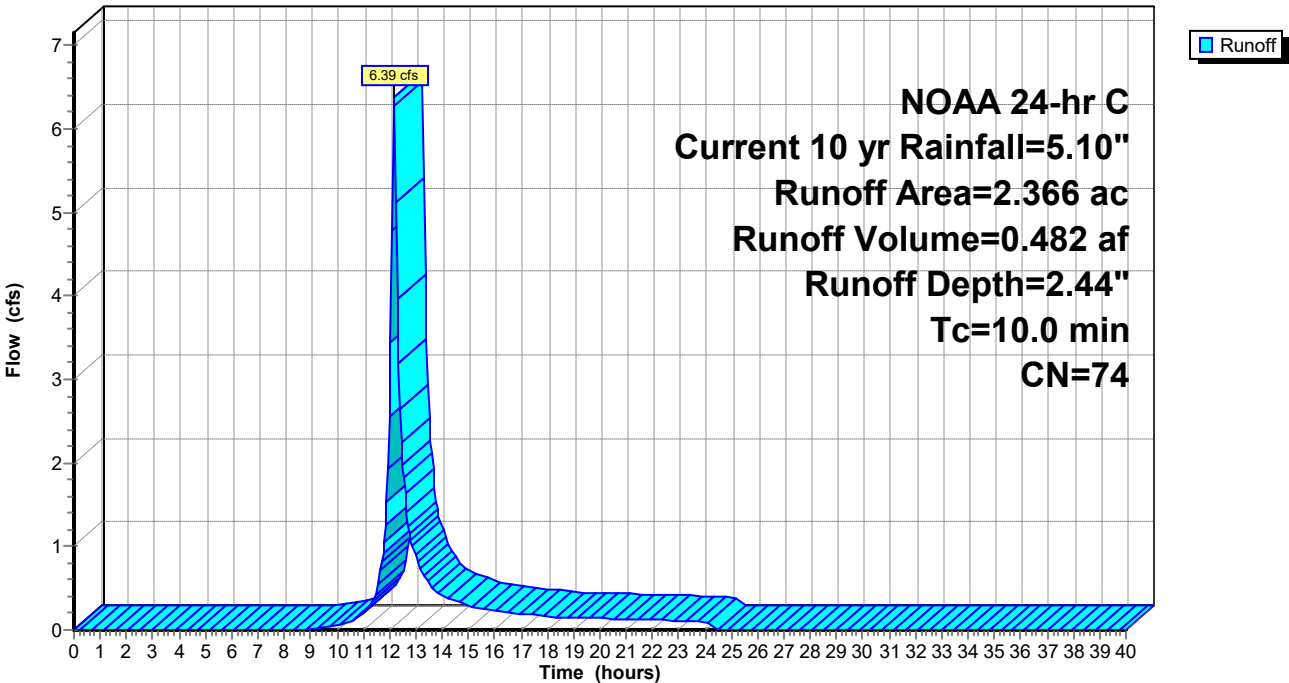
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
2.366	74	>75% Grass cover, Good, HSG C
2.366		100.00% Pervious Area

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

Subcatchment 1P: PDA-1 (pervious)

Hydrograph



Summary for Subcatchment 2I: PDA-2 (impervious)

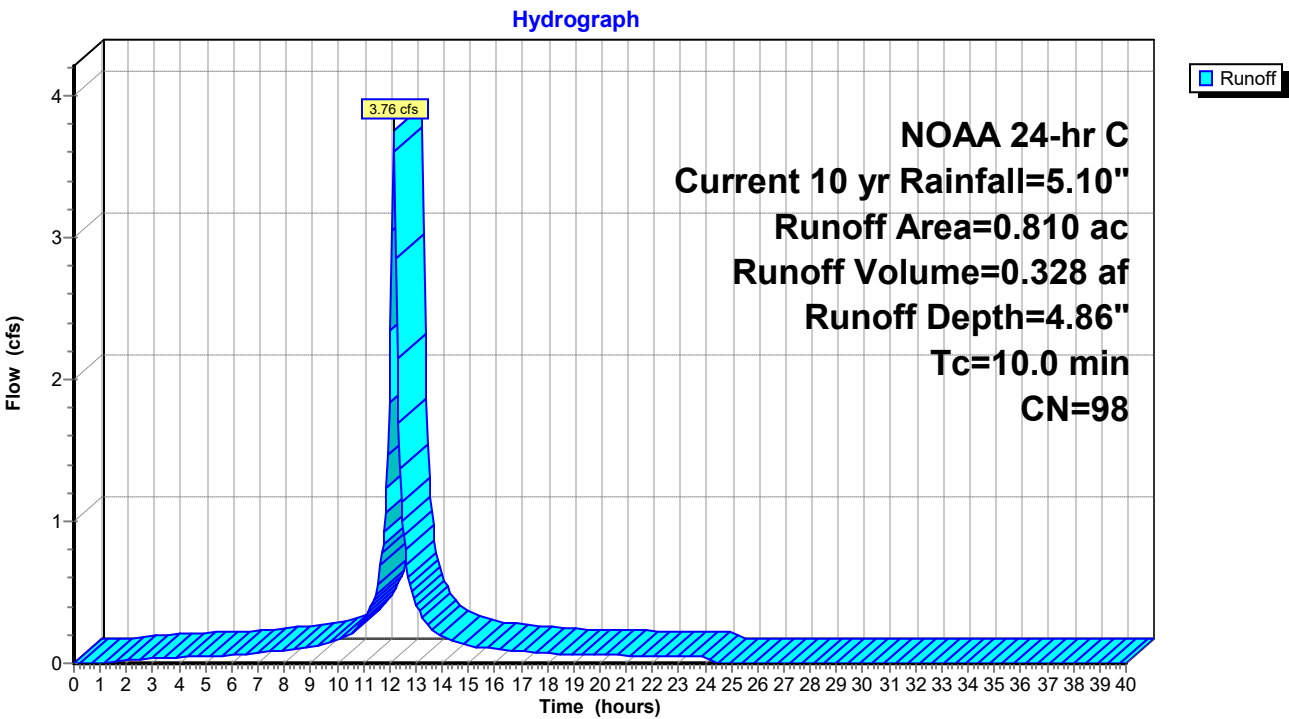
Runoff = 3.76 cfs @ 12.17 hrs, Volume= 0.328 af, Depth= 4.86"
Routed to Pond B-2 : Basin #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.490	98	Roof, HSG C
* 0.269	98	Pavement, HSG C
* 0.051	98	Concrete, HSG C
0.810	98	Weighted Average
0.810		100.00% Impervious Area

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

Subcatchment 2I: PDA-2 (impervious)



Summary for Subcatchment 2P: PDA-2 (pervious)

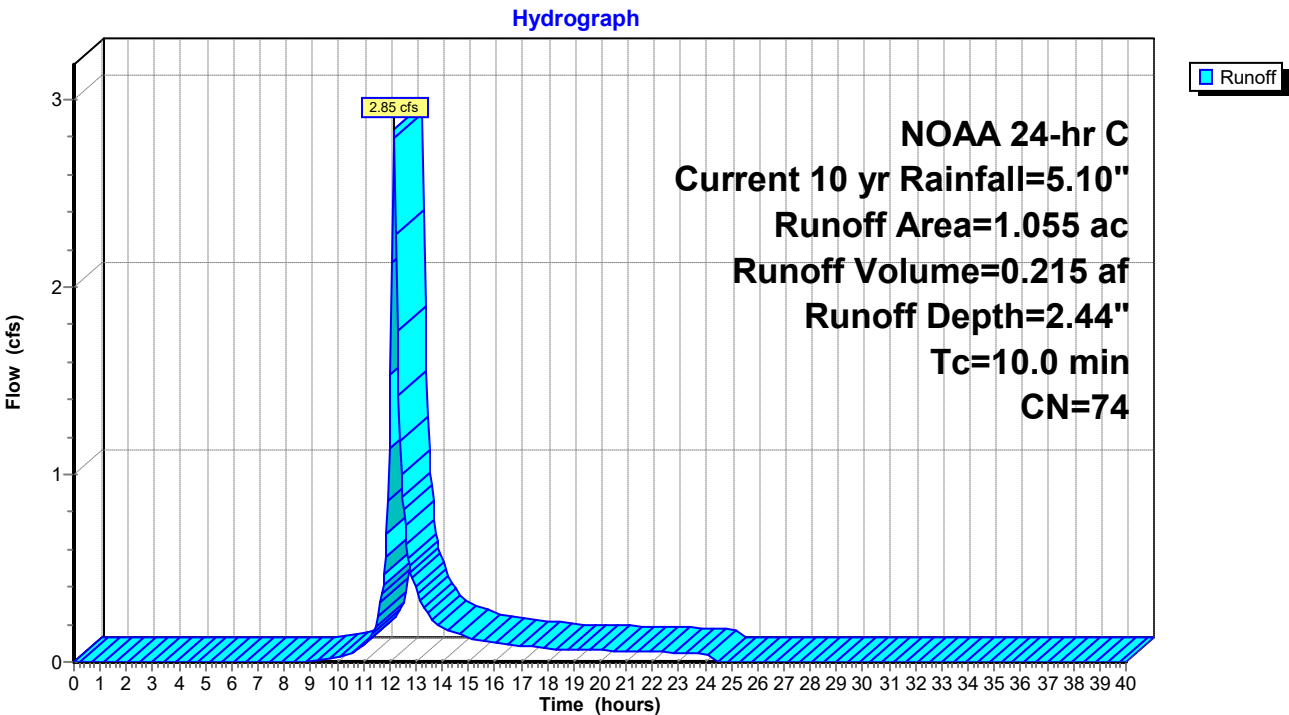
Runoff = 2.85 cfs @ 12.18 hrs, Volume= 0.215 af, Depth= 2.44"
Routed to Pond B-2 : Basin #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.055	74	>75% Grass cover, Good, HSG C
1.055		100.00% Pervious Area

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

Subcatchment 2P: PDA-2 (pervious)



Summary for Subcatchment 3I: PDA-3 (impervious)

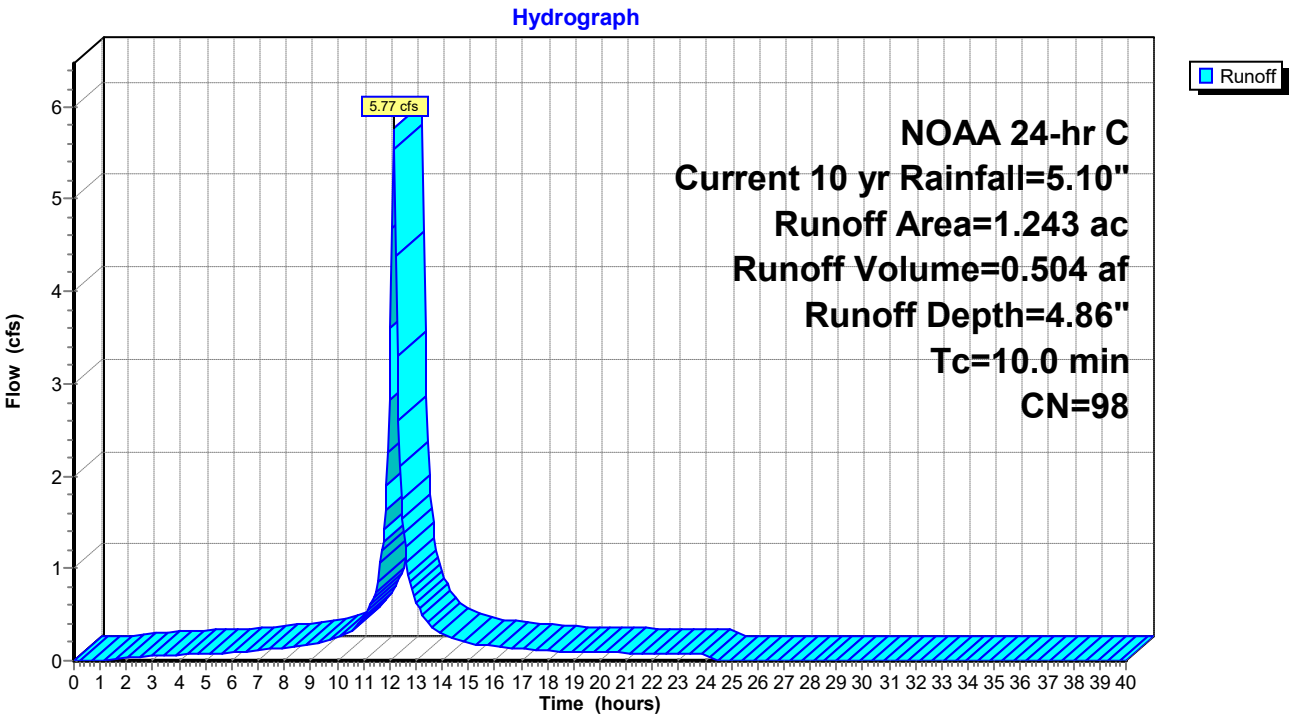
Runoff = 5.77 cfs @ 12.17 hrs, Volume= 0.504 af, Depth= 4.86"
Routed to Pond B-3 : Basin #3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 1.162	98	Pavement, HSG C
* 0.081	98	Concrete, HSG C
1.243	98	Weighted Average
1.243		100.00% Impervious Area

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

Subcatchment 3I: PDA-3 (impervious)



Summary for Subcatchment 3P: PDA-3 (pervious)

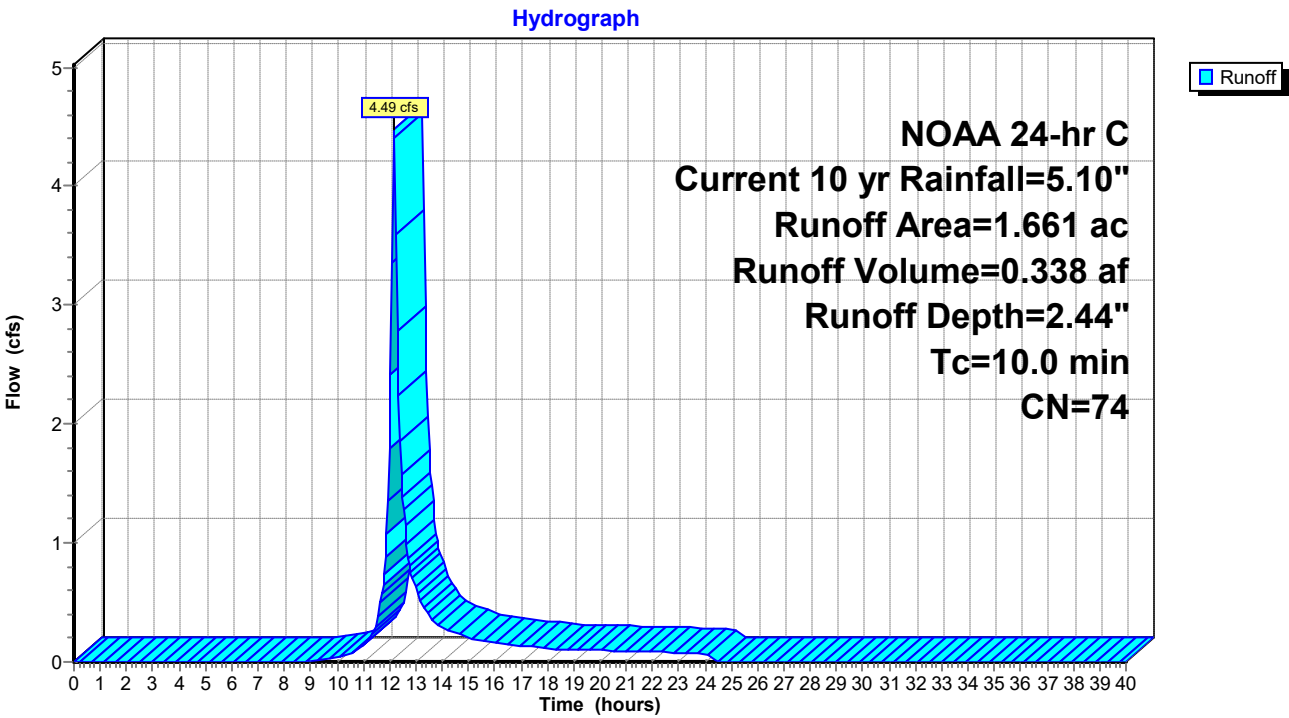
Runoff = 4.49 cfs @ 12.18 hrs, Volume= 0.338 af, Depth= 2.44"
Routed to Pond B-3 : Basin #3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.661	74	>75% Grass cover, Good, HSG C
1.661		100.00% Pervious Area

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

Subcatchment 3P: PDA-3 (pervious)



Summary for Subcatchment 4I: PDA-4 (impervious)

Runoff = 3.16 cfs @ 12.17 hrs, Volume= 0.276 af, Depth= 4.86"
 Routed to Pond B-4 : Basin #4

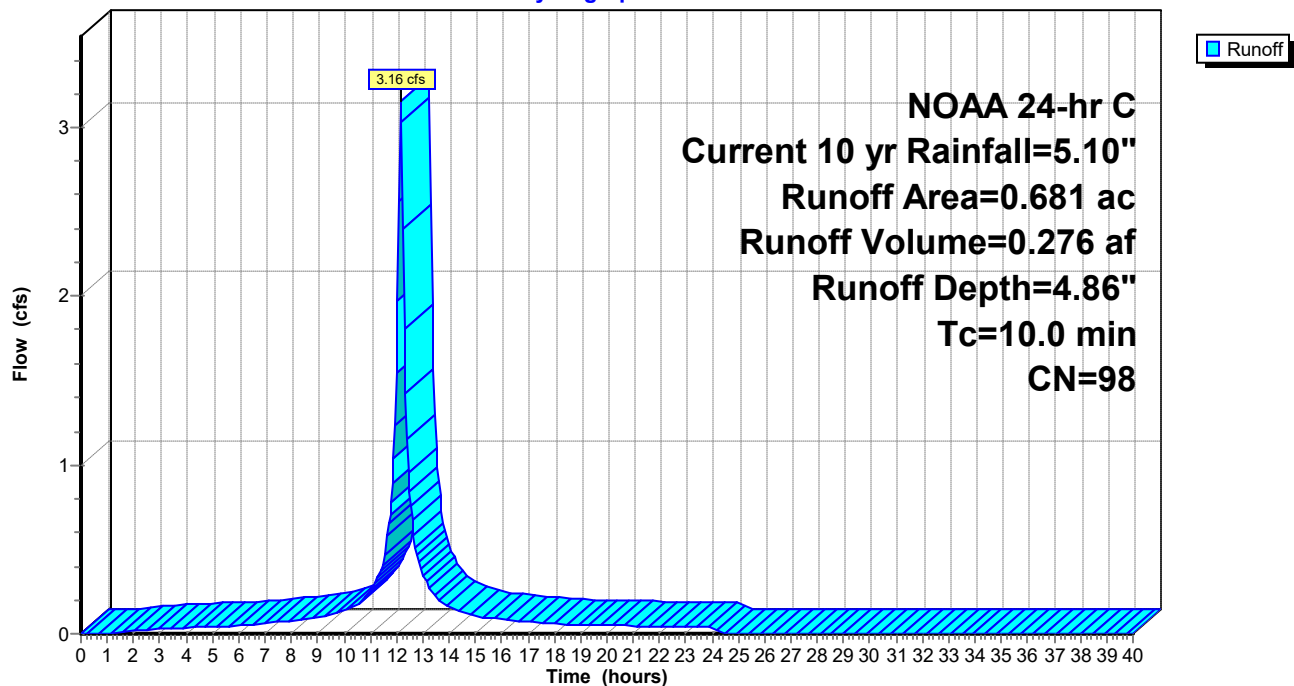
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.433	98	Pavement, HSG C
* 0.248	98	Concrete, HSG C
0.681	98	Weighted Average
0.681		100.00% Impervious Area

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

Subcatchment 4I: PDA-4 (impervious)

Hydrograph



Summary for Subcatchment 4P: PDA-4 (pervious)

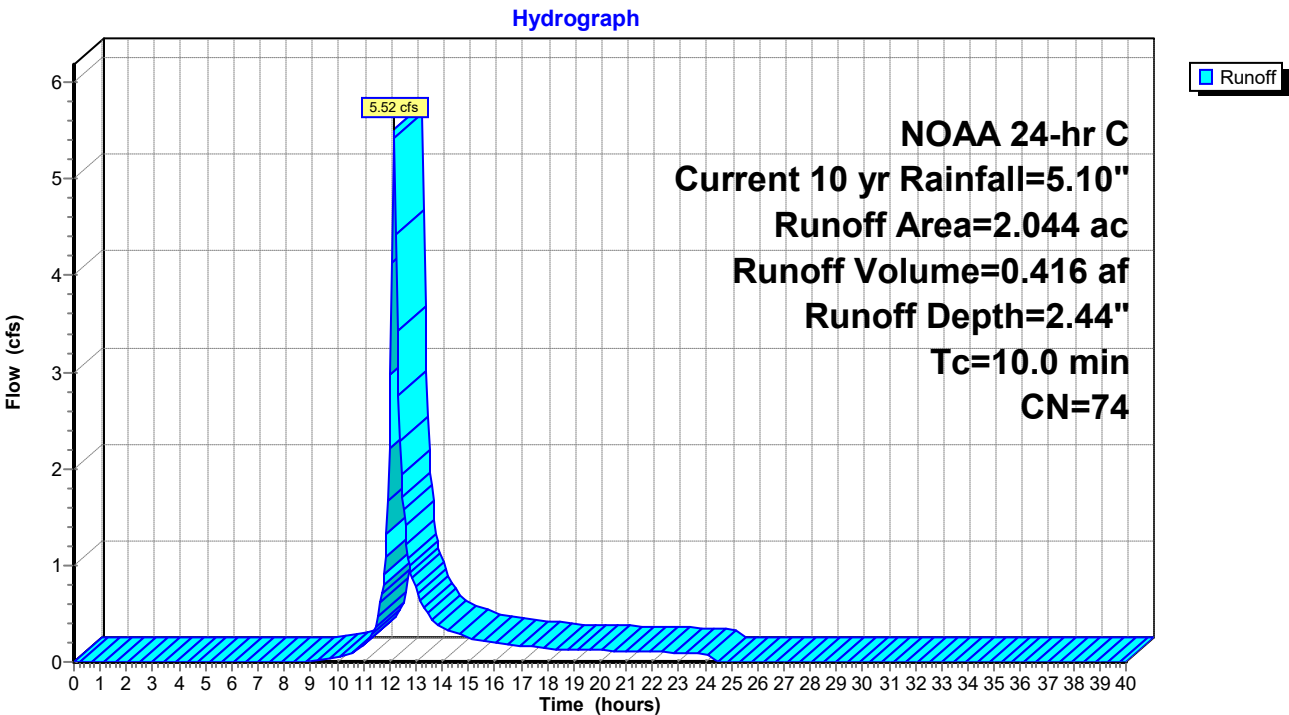
Runoff = 5.52 cfs @ 12.18 hrs, Volume= 0.416 af, Depth= 2.44"
Routed to Pond B-4 : Basin #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
2.044	74	>75% Grass cover, Good, HSG C
2.044		100.00% Pervious Area

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

Subcatchment 4P: PDA-4 (pervious)



Summary for Subcatchment 5I: PDA-5 (impervious)

Runoff = 2.28 cfs @ 12.17 hrs, Volume= 0.199 af, Depth= 4.86"
 Routed to Pond B-5 : Basin #5

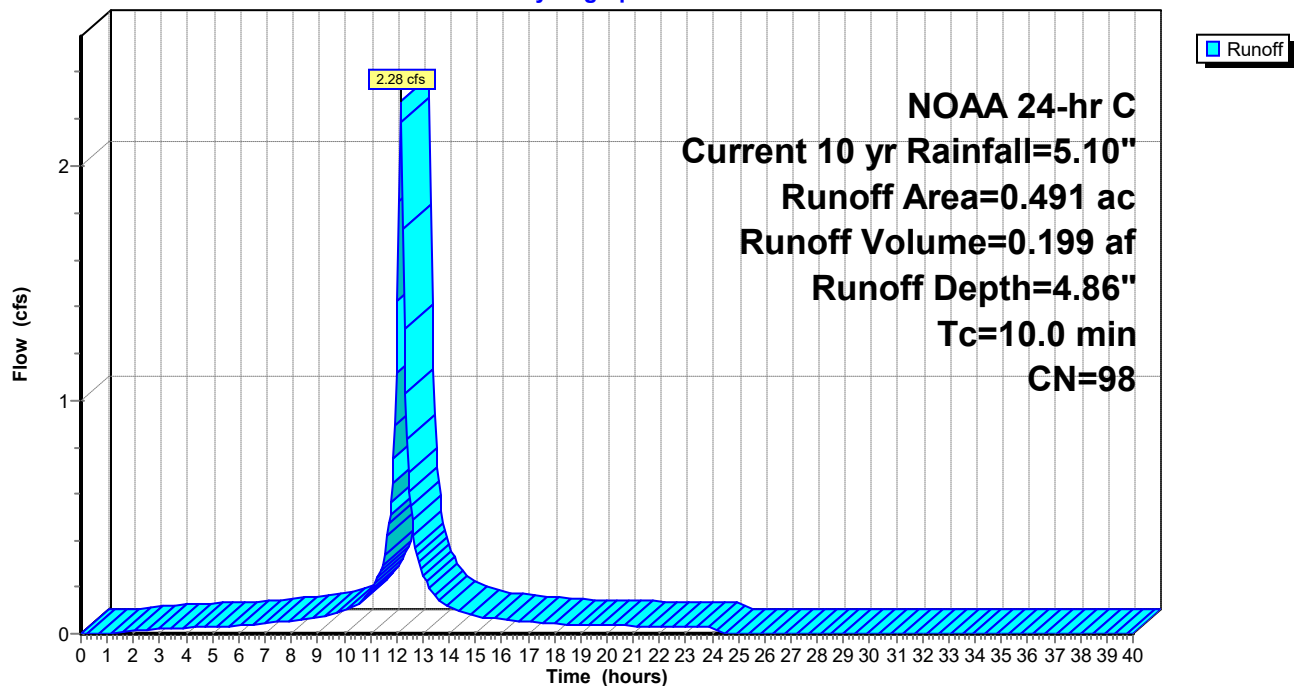
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.393	98	Pavement, HSG C
* 0.098	98	Concrete, HSG C
0.491	98	Weighted Average
0.491		100.00% Impervious Area

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

Subcatchment 5I: PDA-5 (impervious)

Hydrograph



Summary for Subcatchment 5P: PDA-5 (pervious)

Runoff = 2.51 cfs @ 12.18 hrs, Volume= 0.189 af, Depth= 2.44"
 Routed to Pond B-5 : Basin #5

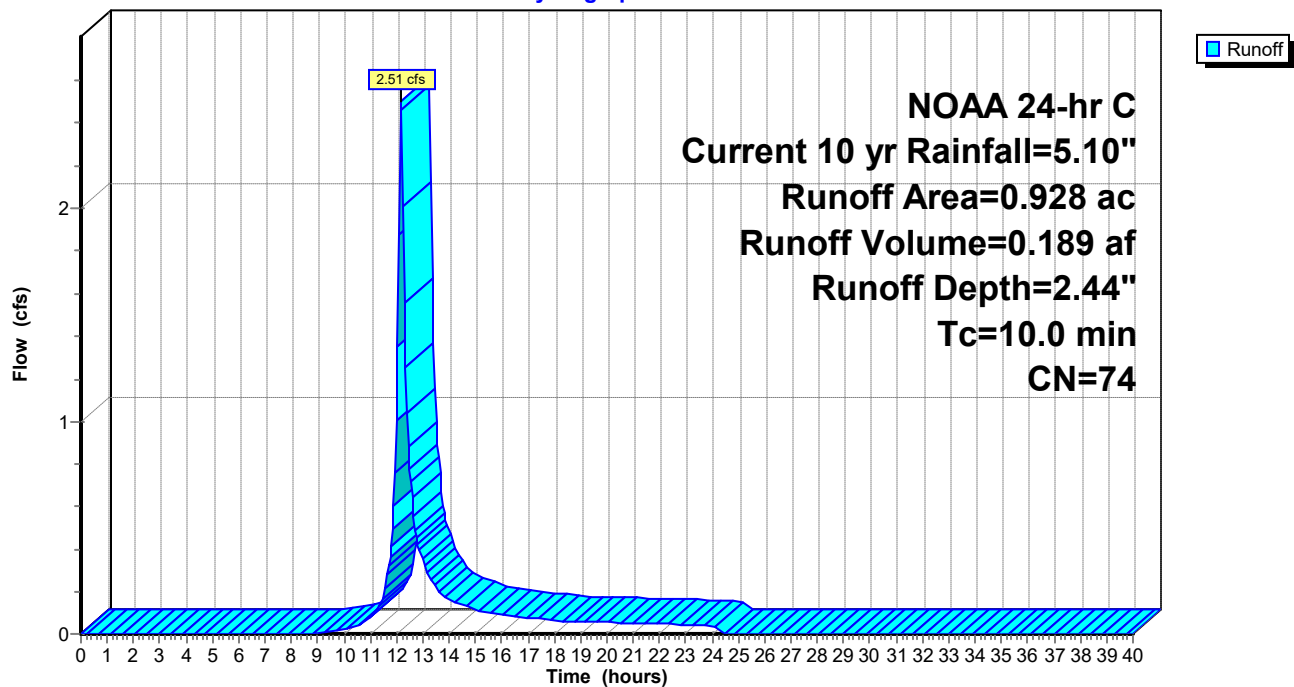
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.928	74	>75% Grass cover, Good, HSG C
0.928		100.00% Pervious Area

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

Subcatchment 5P: PDA-5 (pervious)

Hydrograph



Summary for Subcatchment 6I: PDA-6 (impervious)

Runoff = 3.22 cfs @ 12.17 hrs, Volume= 0.281 af, Depth= 4.86"
 Routed to Pond B-6 : Basin #6

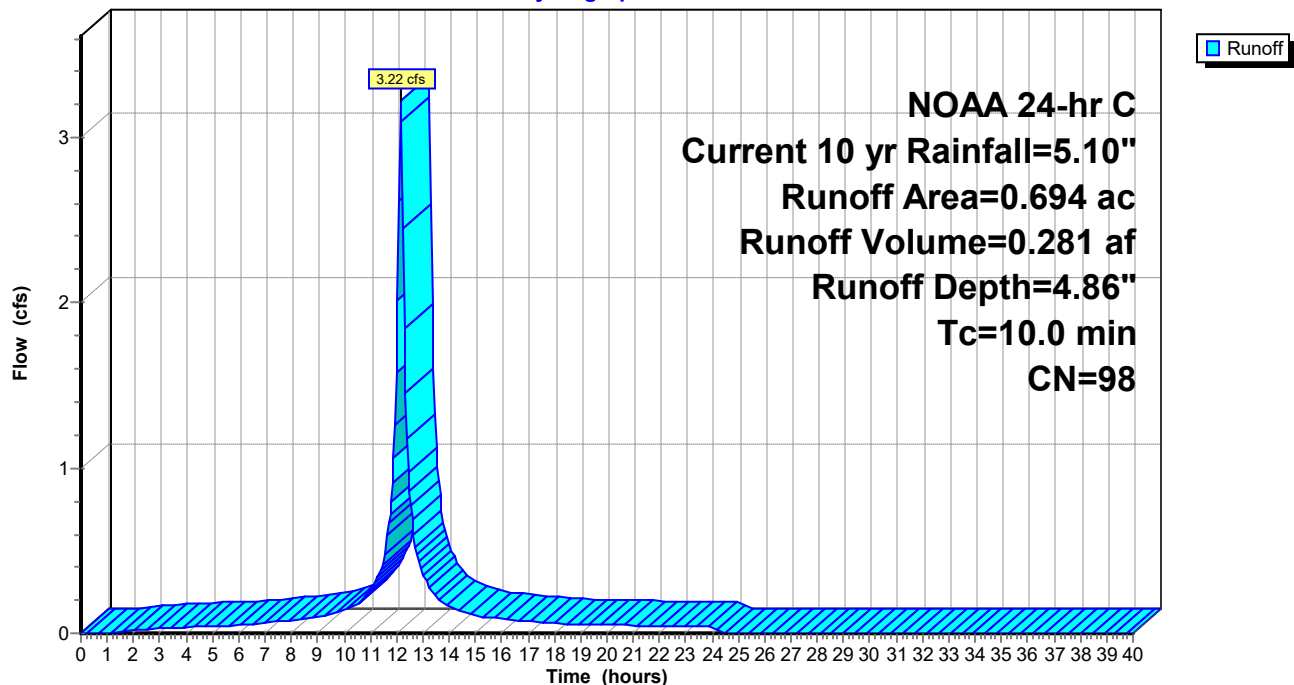
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.459	98	Pavement, HSG C
* 0.129	98	Roof, HSG C
* 0.106	98	Concrete, HSG C
0.694	98	Weighted Average
0.694		100.00% Impervious Area

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

Subcatchment 6I: PDA-6 (impervious)

Hydrograph



Summary for Subcatchment 6P: PDA-6 (pervious)

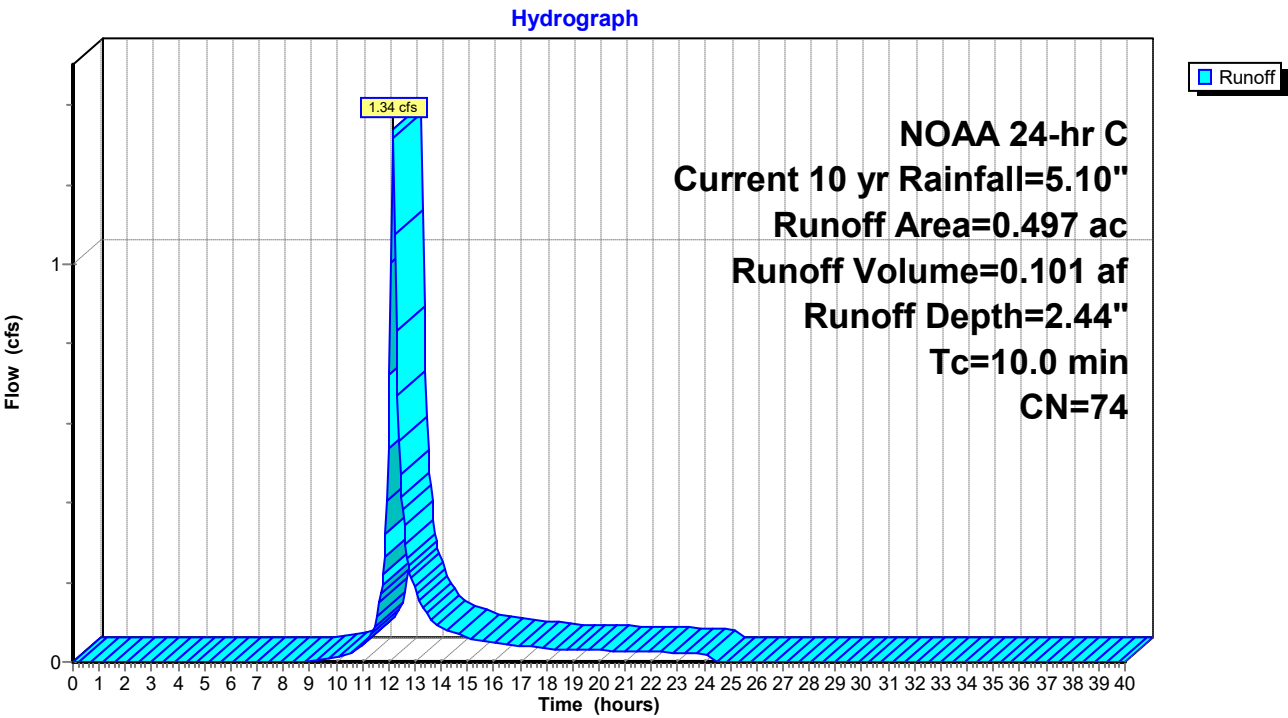
Runoff = 1.34 cfs @ 12.18 hrs, Volume= 0.101 af, Depth= 2.44"
Routed to Pond B-6 : Basin #6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.497	74	>75% Grass cover, Good, HSG C
0.497		100.00% Pervious Area

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

Subcatchment 6P: PDA-6 (pervious)



Summary for Subcatchment 7I: PDA-7 (impervious)

Runoff = 4.57 cfs @ 12.17 hrs, Volume= 0.398 af, Depth= 4.86"
 Routed to Pond B-7 : Basin #7

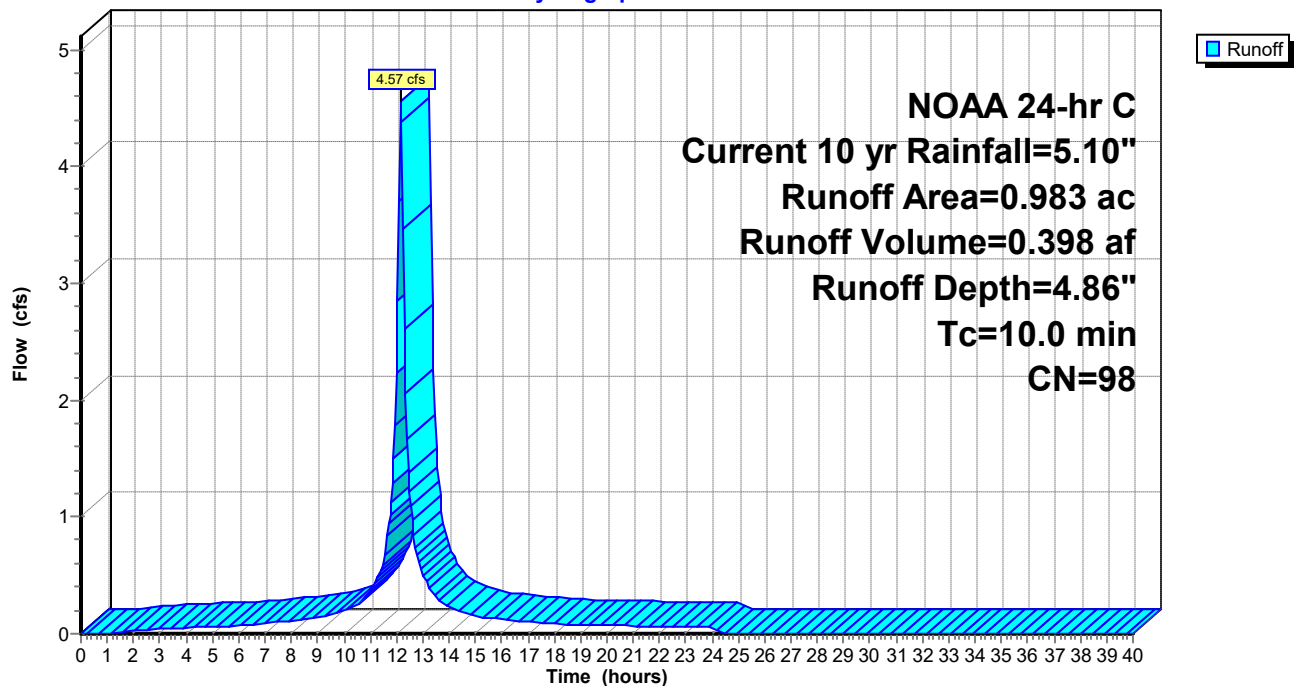
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.886	98	Pavement, HSG C
* 0.097	98	Concrete, HSG C
0.983	98	Weighted Average
0.983		100.00% Impervious Area

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

Subcatchment 7I: PDA-7 (impervious)

Hydrograph



Summary for Subcatchment 7P: PDA-7 (pervious)

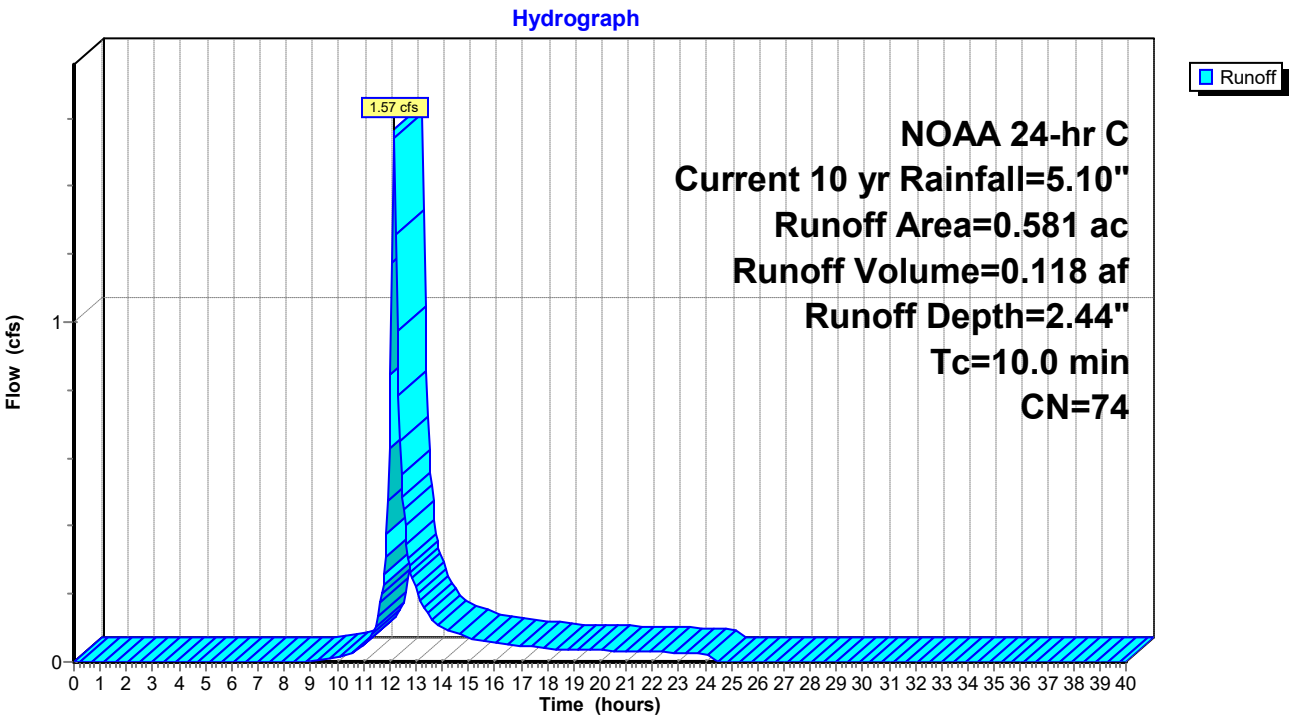
Runoff = 1.57 cfs @ 12.18 hrs, Volume= 0.118 af, Depth= 2.44"
Routed to Pond B-7 : Basin #7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.581	74	>75% Grass cover, Good, HSG C
0.581		100.00% Pervious Area

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

Subcatchment 7P: PDA-7 (pervious)



Summary for Subcatchment 8I: PDA-8 (impervious)

Runoff = 4.41 cfs @ 12.17 hrs, Volume= 0.385 af, Depth= 4.86"
 Routed to Pond B-8 : Basin #8

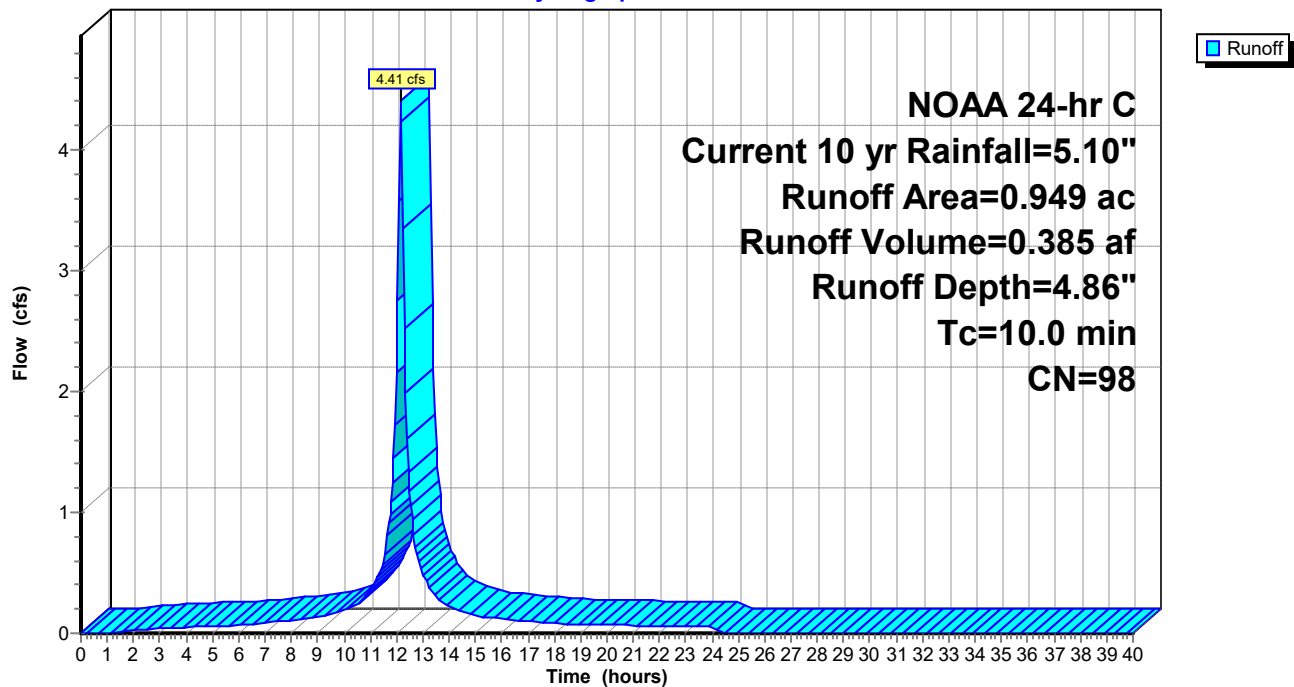
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.300	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.006	98	Concrete, HSG C
0.949	98	Weighted Average
0.949		100.00% Impervious Area

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

Subcatchment 8I: PDA-8 (impervious)

Hydrograph



Summary for Subcatchment 8P: PDA-8 (pervious)

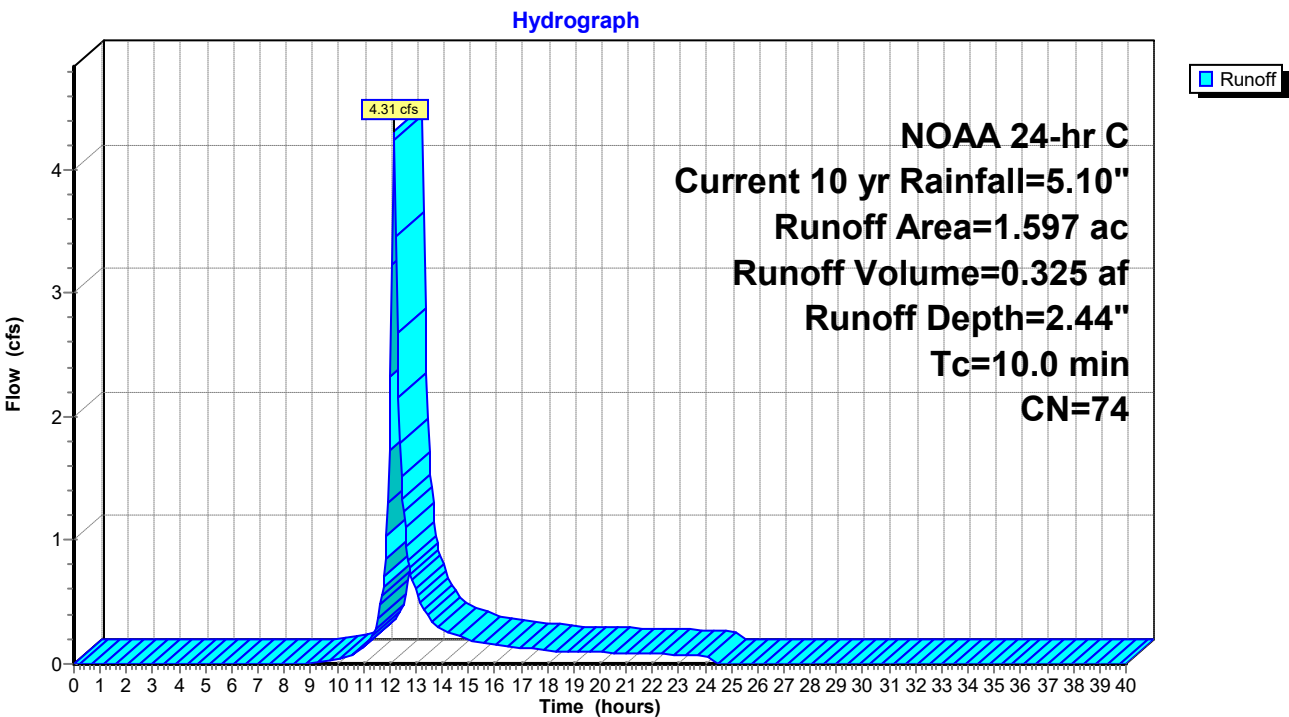
Runoff = 4.31 cfs @ 12.18 hrs, Volume= 0.325 af, Depth= 2.44"
Routed to Pond B-8 : Basin #8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.597	74	>75% Grass cover, Good, HSG C
1.597		100.00% Pervious Area

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

Subcatchment 8P: PDA-8 (pervious)



Summary for Subcatchment 9I: PDA-9 (impervious)

Runoff = 3.67 cfs @ 12.17 hrs, Volume= 0.321 af, Depth= 4.86"
 Routed to Pond B-9 : Basin #9

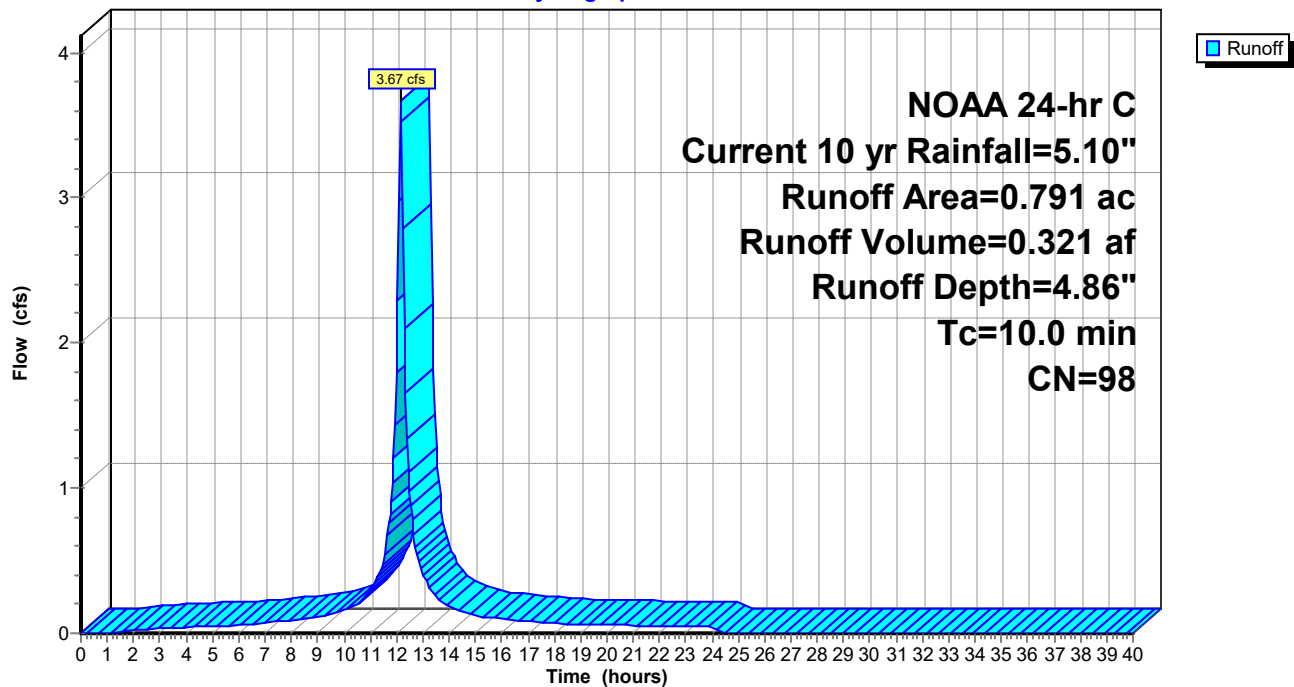
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.286	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.055	98	Concrete, HSG C
0.791	98	Weighted Average
0.791		100.00% Impervious Area

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

Subcatchment 9I: PDA-9 (impervious)

Hydrograph



Summary for Subcatchment 9P: PDA-9 (pervious)

Runoff = 1.92 cfs @ 12.18 hrs, Volume= 0.145 af, Depth= 2.44"
 Routed to Pond B-9 : Basin #9

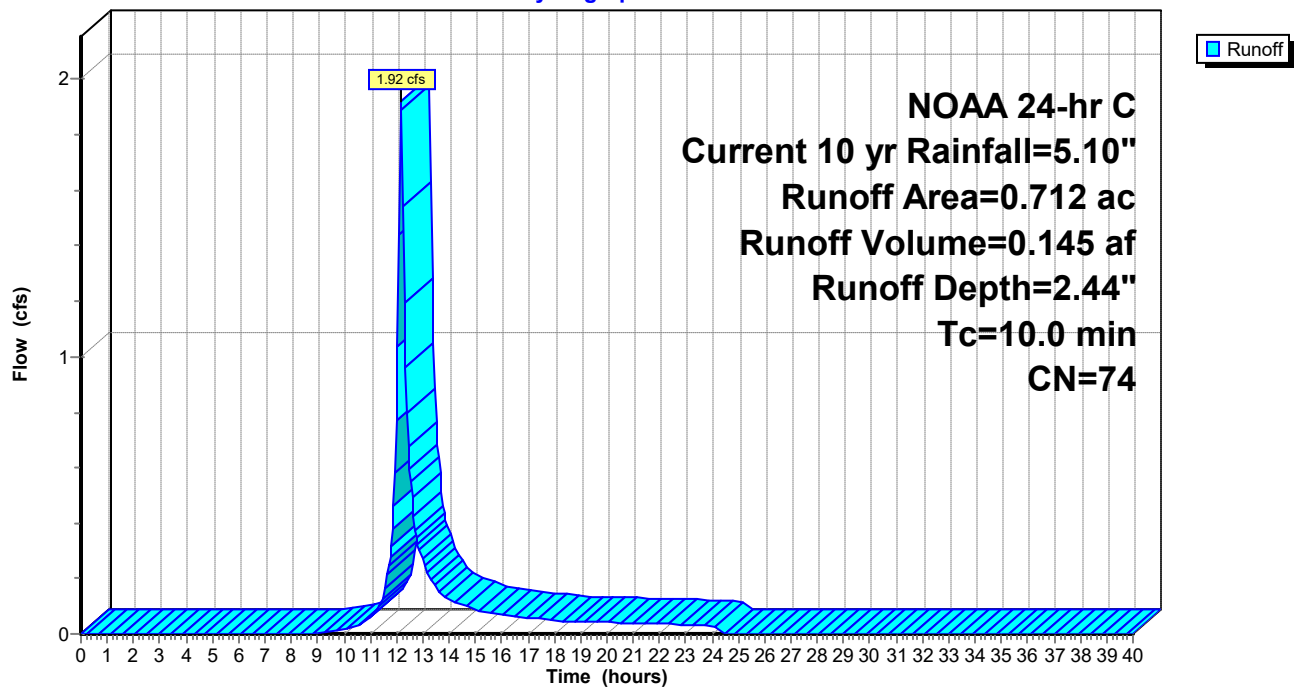
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.712	74	>75% Grass cover, Good, HSG C
0.712		100.00% Pervious Area

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

Subcatchment 9P: PDA-9 (pervious)

Hydrograph



Summary for Subcatchment 10I: PDA-10 (impervious)

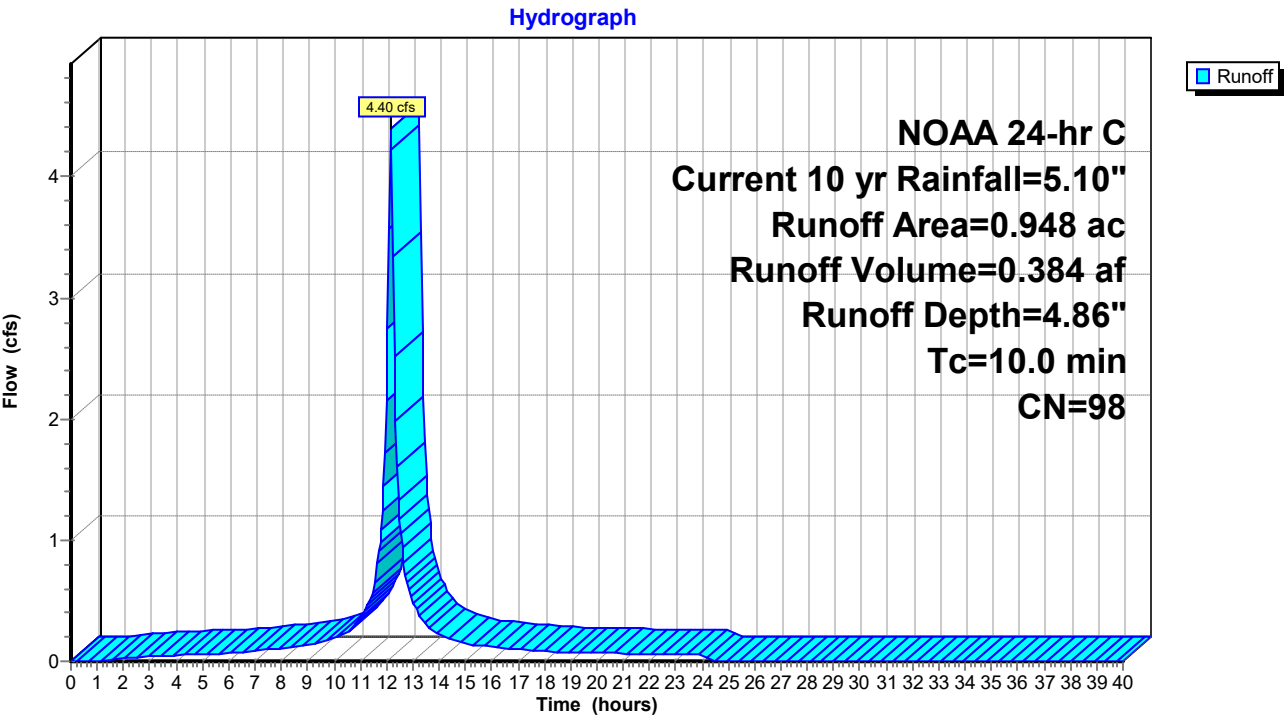
Runoff = 4.40 cfs @ 12.17 hrs, Volume= 0.384 af, Depth= 4.86"
Routed to Pond B-10 : Basin #10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.570	98	Pavement, HSG C
* 0.321	98	Roof, HSG C
* 0.057	98	Concrete, HSG C
0.948	98	Weighted Average
0.948		100.00% Impervious Area

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

Subcatchment 10I: PDA-10 (impervious)



Summary for Subcatchment 10P: PDA-10 (pervious)

Runoff = 1.96 cfs @ 12.18 hrs, Volume= 0.148 af, Depth= 2.44"
 Routed to Pond B-10 : Basin #10

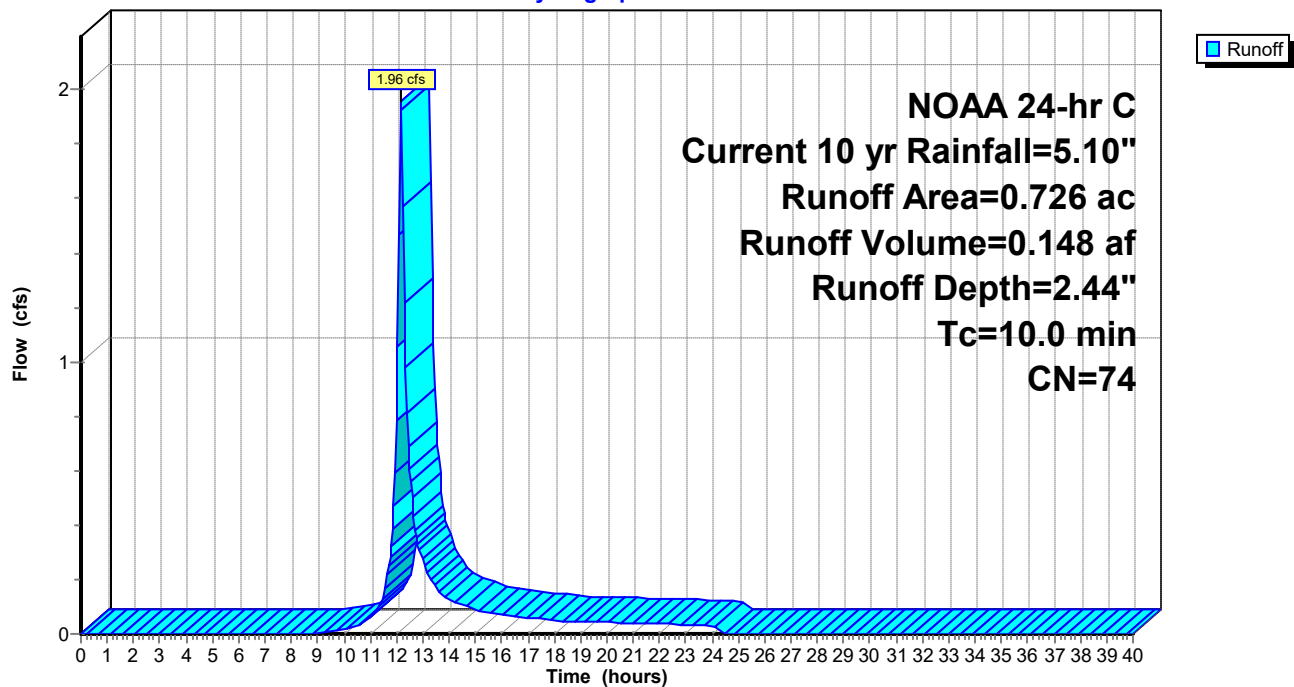
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.726	74	>75% Grass cover, Good, HSG C
0.726		100.00% Pervious Area

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

Subcatchment 10P: PDA-10 (pervious)

Hydrograph



Summary for Subcatchment 11I: PDA-11 (impervious)

Runoff = 4.33 cfs @ 12.17 hrs, Volume= 0.378 af, Depth= 4.86"
 Routed to Pond B-11 : Basin #11

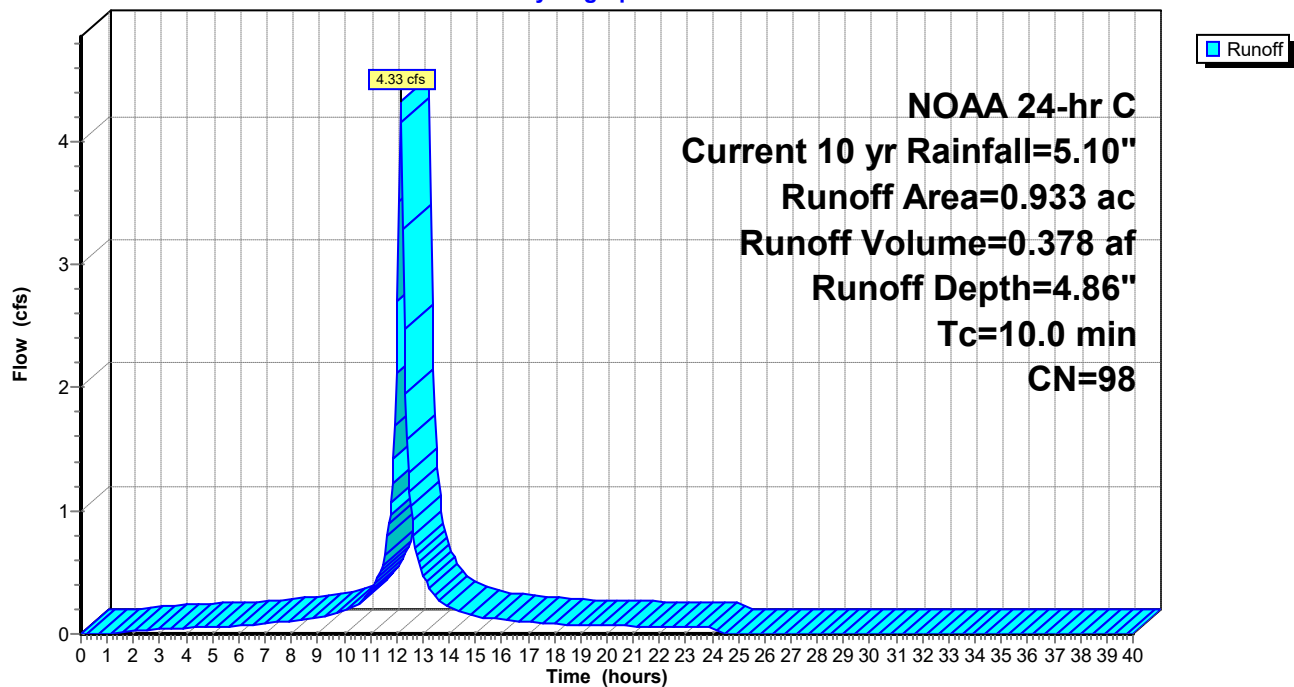
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.933	98	Concrete, HSG C
0.933		100.00% Impervious Area

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

Subcatchment 11I: PDA-11 (impervious)

Hydrograph



Summary for Subcatchment 11P: PDA-11 (pervious)

Runoff = 4.69 cfs @ 12.18 hrs, Volume= 0.353 af, Depth= 2.44"
 Routed to Pond B-11 : Basin #11

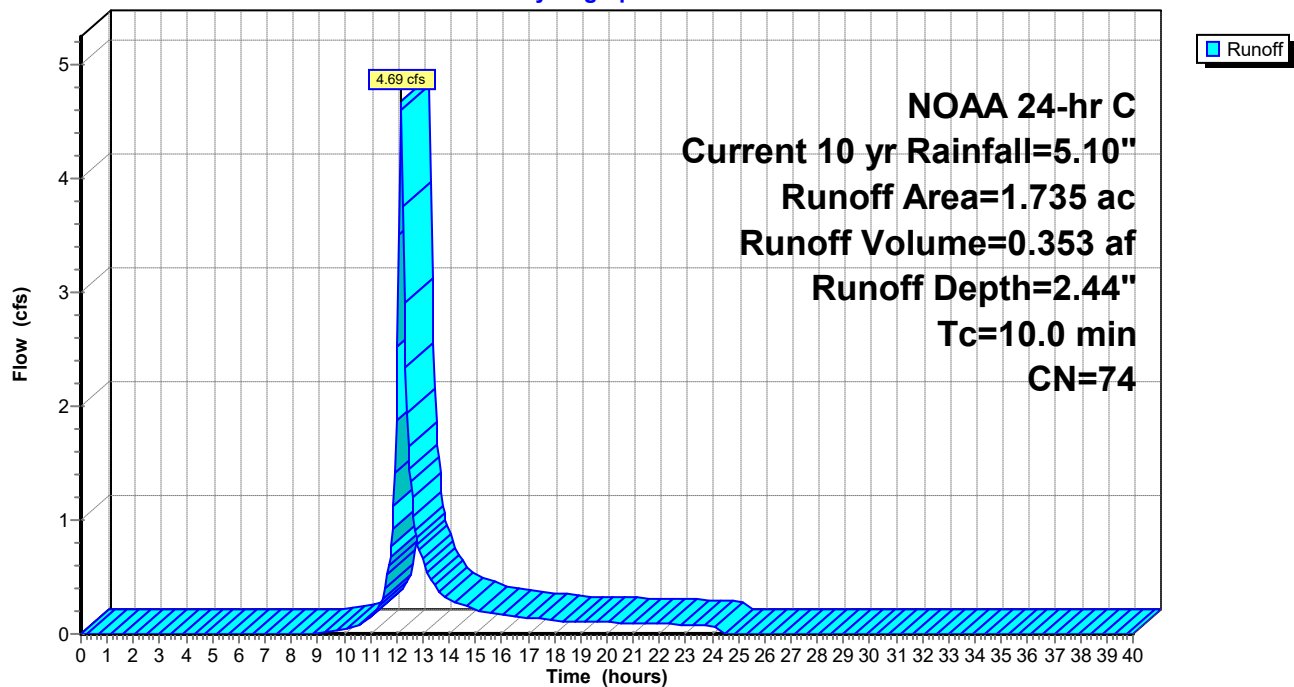
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.735	74	>75% Grass cover, Good, HSG C
1.735		100.00% Pervious Area

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

Subcatchment 11P: PDA-11 (pervious)

Hydrograph



Summary for Subcatchment 12I: PDA-12 (impervious)

Runoff = 6.36 cfs @ 12.17 hrs, Volume= 0.555 af, Depth= 4.86"
 Routed to Pond B-12 : Basin #12

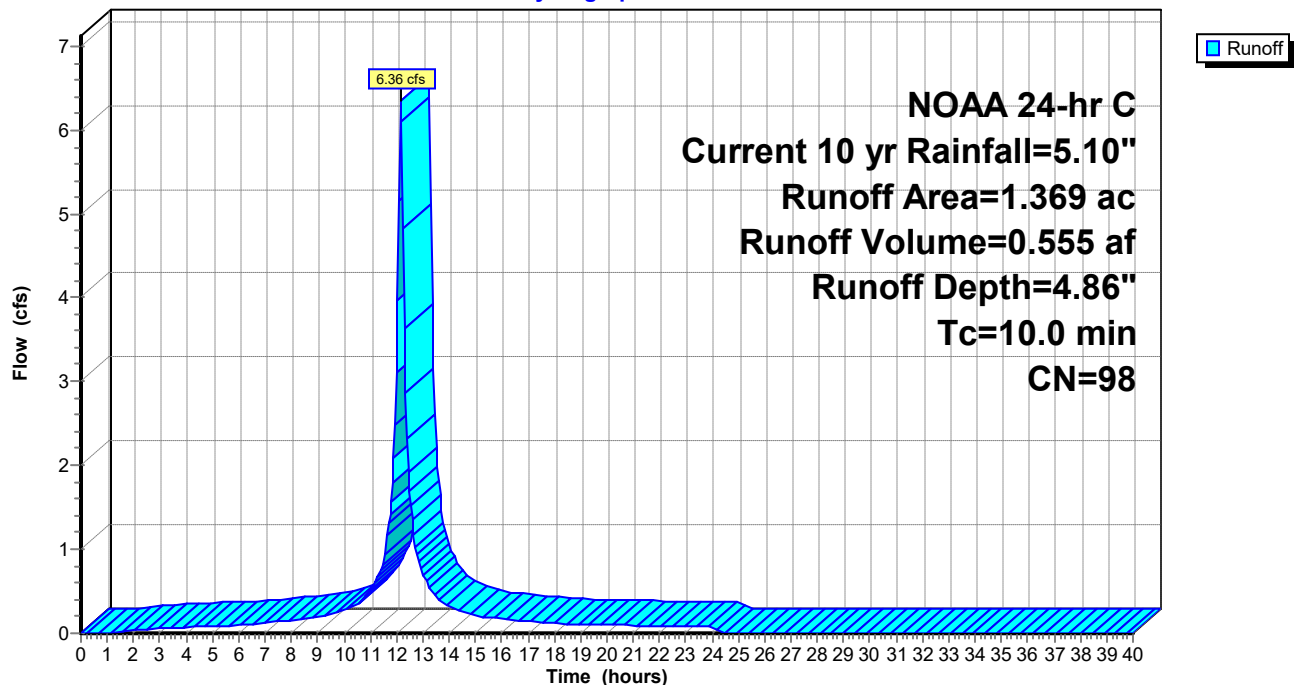
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.559	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.103	98	Concrete, HSG C
1.369	98	Weighted Average
1.369		100.00% Impervious Area

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

Subcatchment 12I: PDA-12 (impervious)

Hydrograph



Summary for Subcatchment 12P: PDA-12 (pervious)

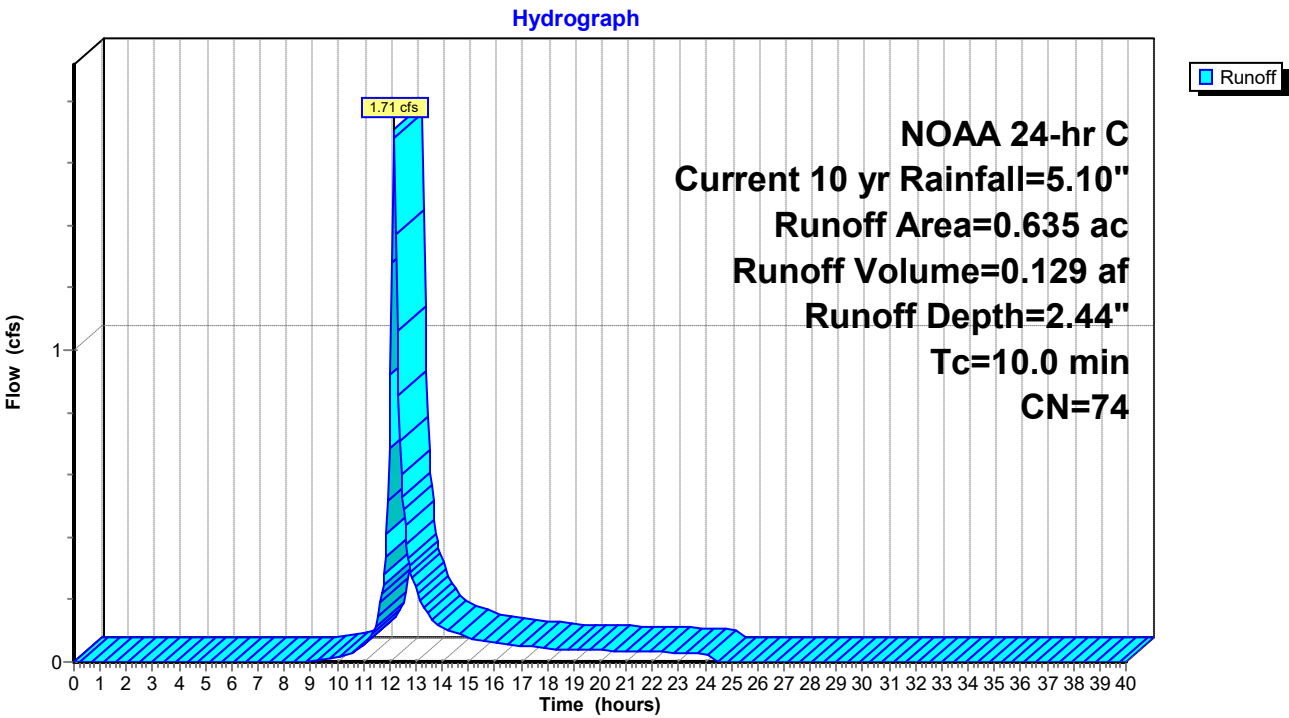
Runoff = 1.71 cfs @ 12.18 hrs, Volume= 0.129 af, Depth= 2.44"
Routed to Pond B-12 : Basin #12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.635	74	>75% Grass cover, Good, HSG C
0.635		100.00% Pervious Area

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

Subcatchment 12P: PDA-12 (pervious)



Summary for Subcatchment 13I: PDA-13 (impervious)

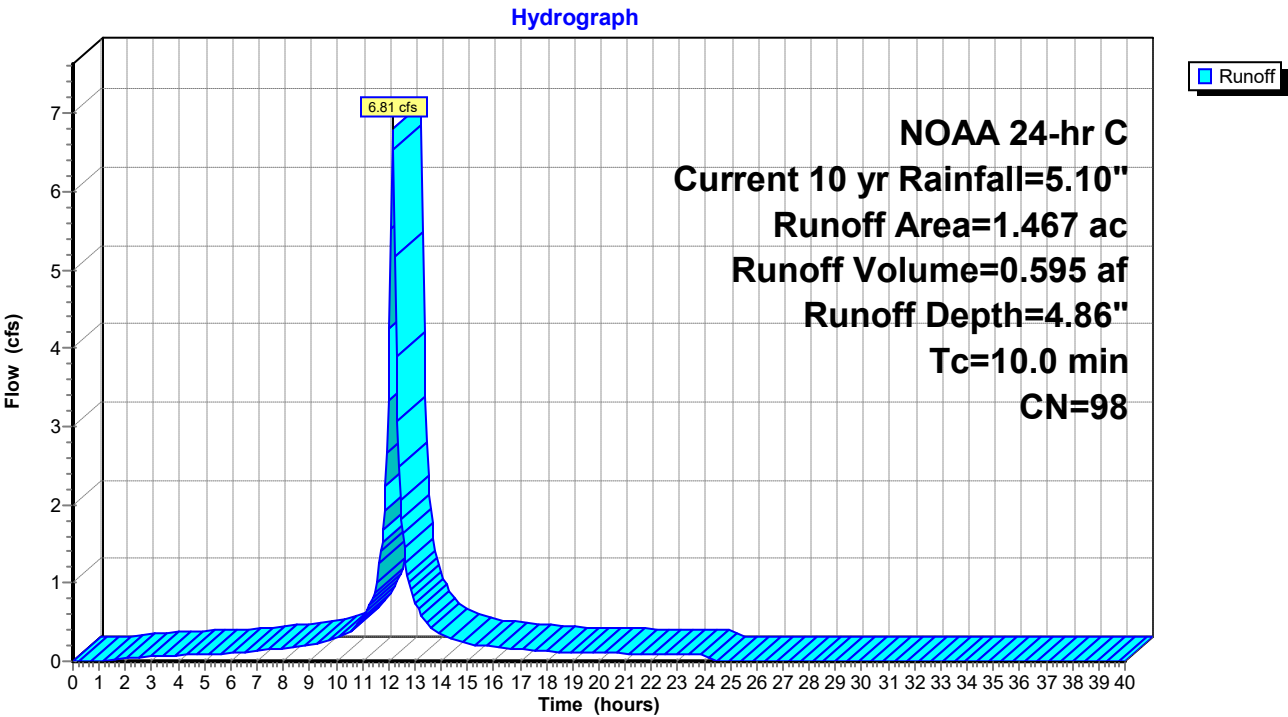
Runoff = 6.81 cfs @ 12.17 hrs, Volume= 0.595 af, Depth= 4.86"
Routed to Pond B-13 : Basin #13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.678	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.082	98	Concrete, HSG C
1.467	98	Weighted Average
1.467		100.00% Impervious Area

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

Subcatchment 13I: PDA-13 (impervious)



Summary for Subcatchment 13P: PDA-13 (pervious)

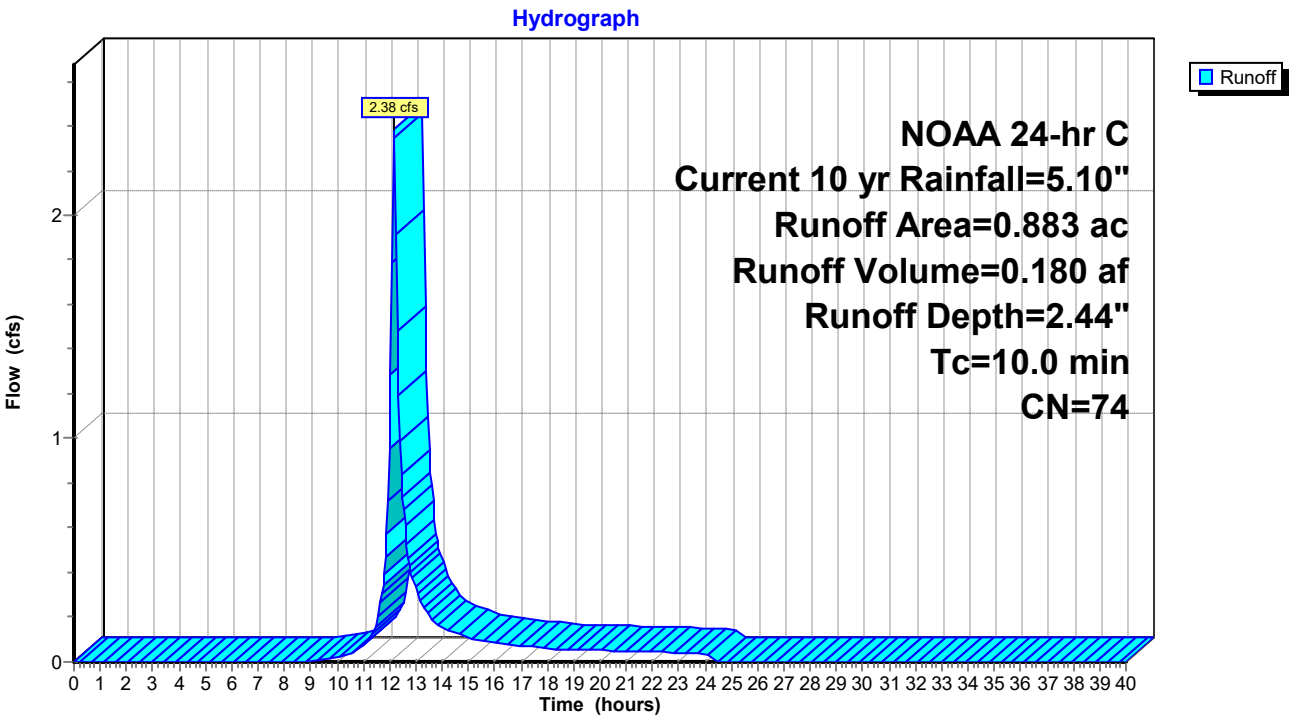
Runoff = 2.38 cfs @ 12.18 hrs, Volume= 0.180 af, Depth= 2.44"
Routed to Pond B-13 : Basin #13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.883	74	>75% Grass cover, Good, HSG C
0.883		100.00% Pervious Area

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

Subcatchment 13P: PDA-13 (pervious)



Summary for Subcatchment 14I: PDA-14 (impervious)

Runoff = 2.36 cfs @ 12.17 hrs, Volume= 0.206 af, Depth= 4.86"
 Routed to Pond B-14 : Basin #14

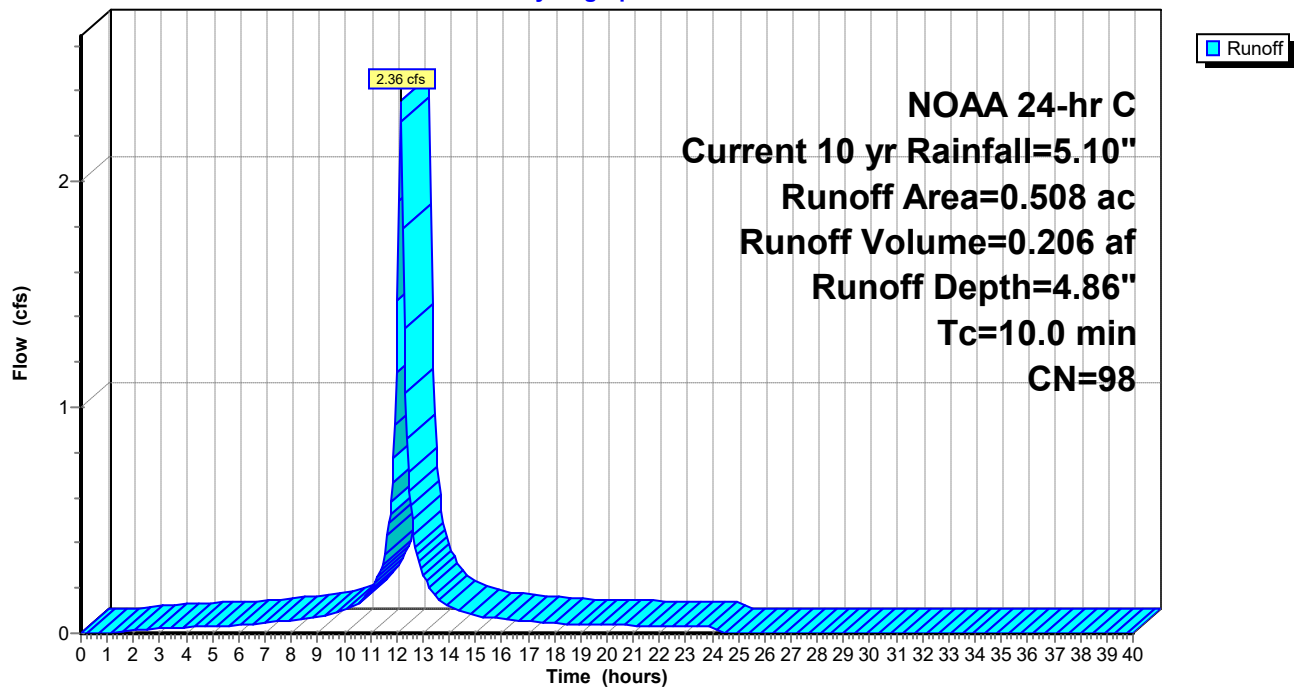
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.308	98	Pavement, HSG C
* 0.064	98	Roof, HSG C
* 0.136	98	Concrete, HSG C
0.508	98	Weighted Average
0.508		100.00% Impervious Area

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

Subcatchment 14I: PDA-14 (impervious)

Hydrograph



Summary for Subcatchment 14P: PDA-14 (pervious)

Runoff = 4.43 cfs @ 12.18 hrs, Volume= 0.334 af, Depth= 2.44"
 Routed to Pond B-14 : Basin #14

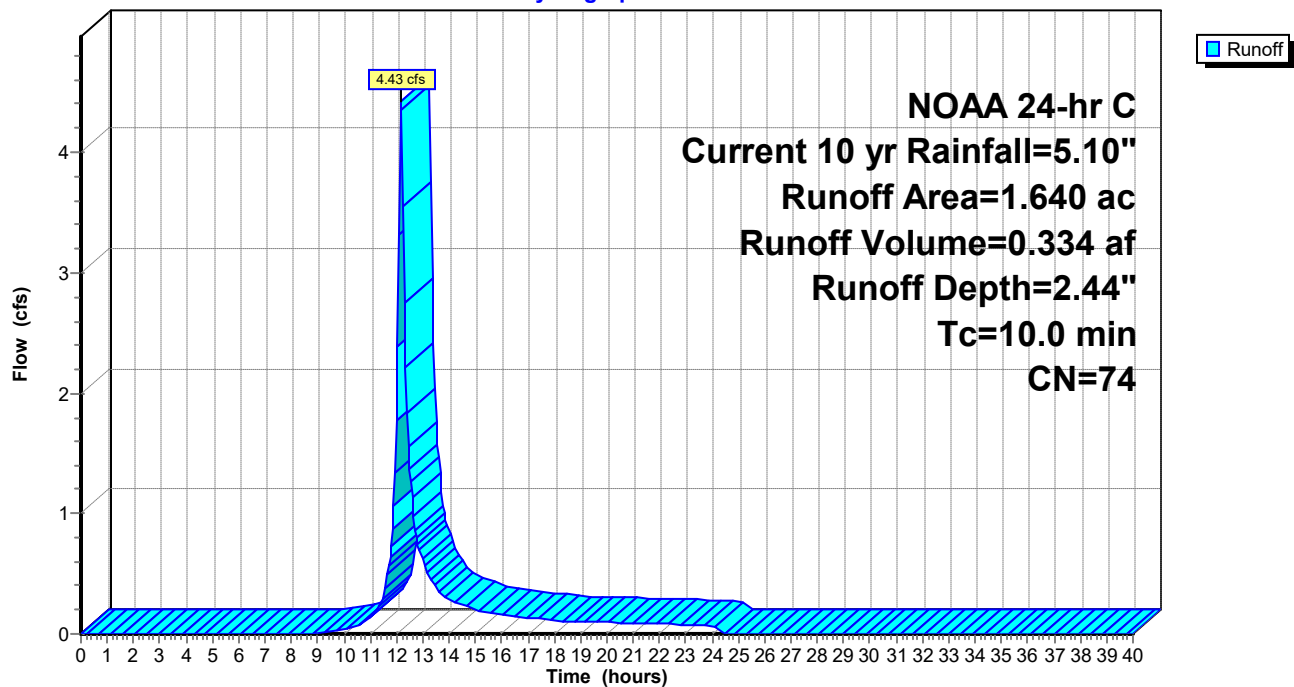
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.640	74	>75% Grass cover, Good, HSG C
1.640		100.00% Pervious Area

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

Subcatchment 14P: PDA-14 (pervious)

Hydrograph



Summary for Subcatchment 15I: PDA-15 (impervious)

Runoff = 6.45 cfs @ 12.17 hrs, Volume= 0.563 af, Depth= 4.86"
 Routed to Pond B-15 : Basin #15

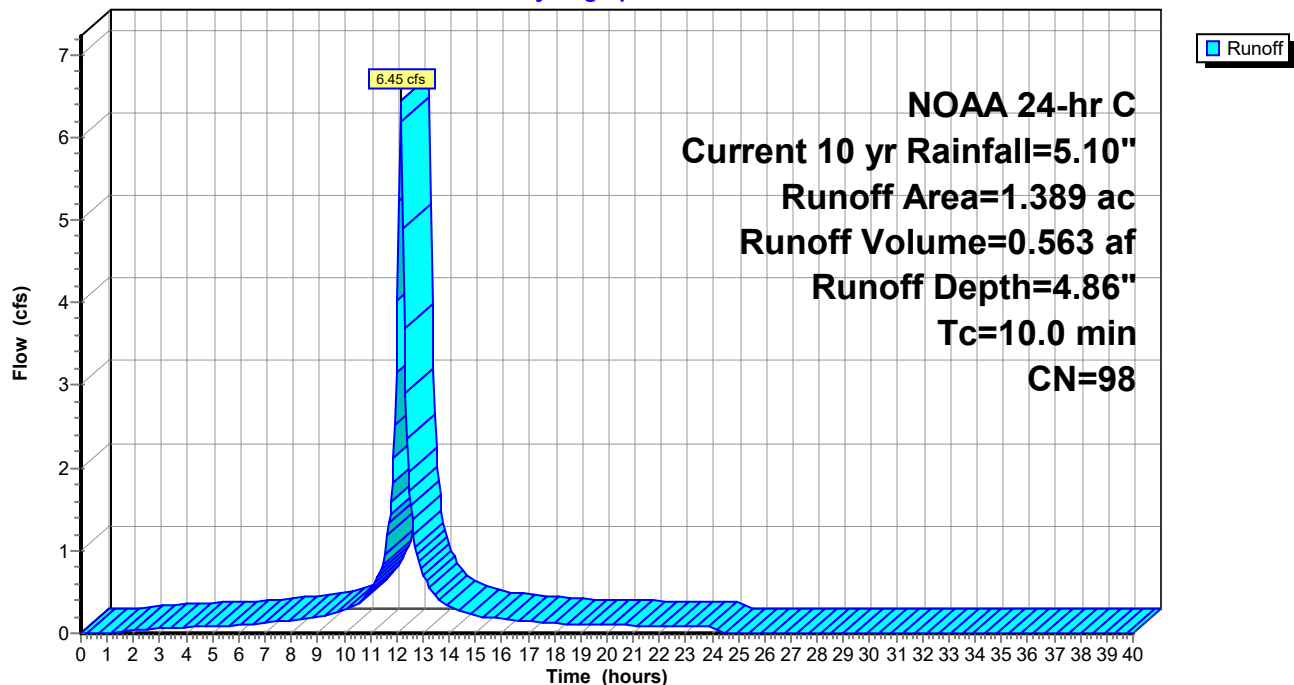
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.501	98	Pavement, HSG C
* 0.836	98	Roof, HSG C
* 0.052	98	Concrete, HSG C
1.389	98	Weighted Average
1.389		100.00% Impervious Area

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

Subcatchment 15I: PDA-15 (impervious)

Hydrograph



Summary for Subcatchment 15P: PDA-15 (pervious)

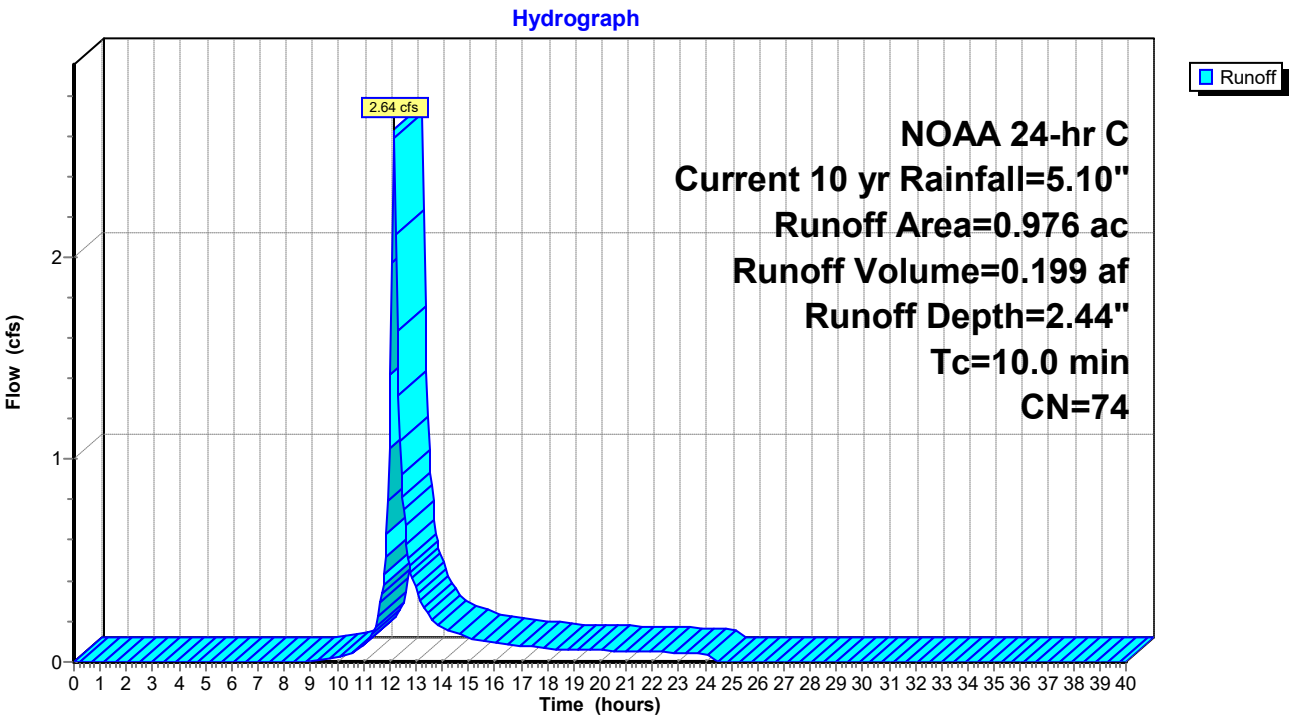
Runoff = 2.64 cfs @ 12.18 hrs, Volume= 0.199 af, Depth= 2.44"
Routed to Pond B-15 : Basin #15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.976	74	>75% Grass cover, Good, HSG C
0.976		100.00% Pervious Area

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

Subcatchment 15P: PDA-15 (pervious)



Summary for Subcatchment 16I: PDA-16 (impervious)

Runoff = 5.41 cfs @ 12.17 hrs, Volume= 0.472 af, Depth= 4.86"
 Routed to Pond B-16 : Basin #16

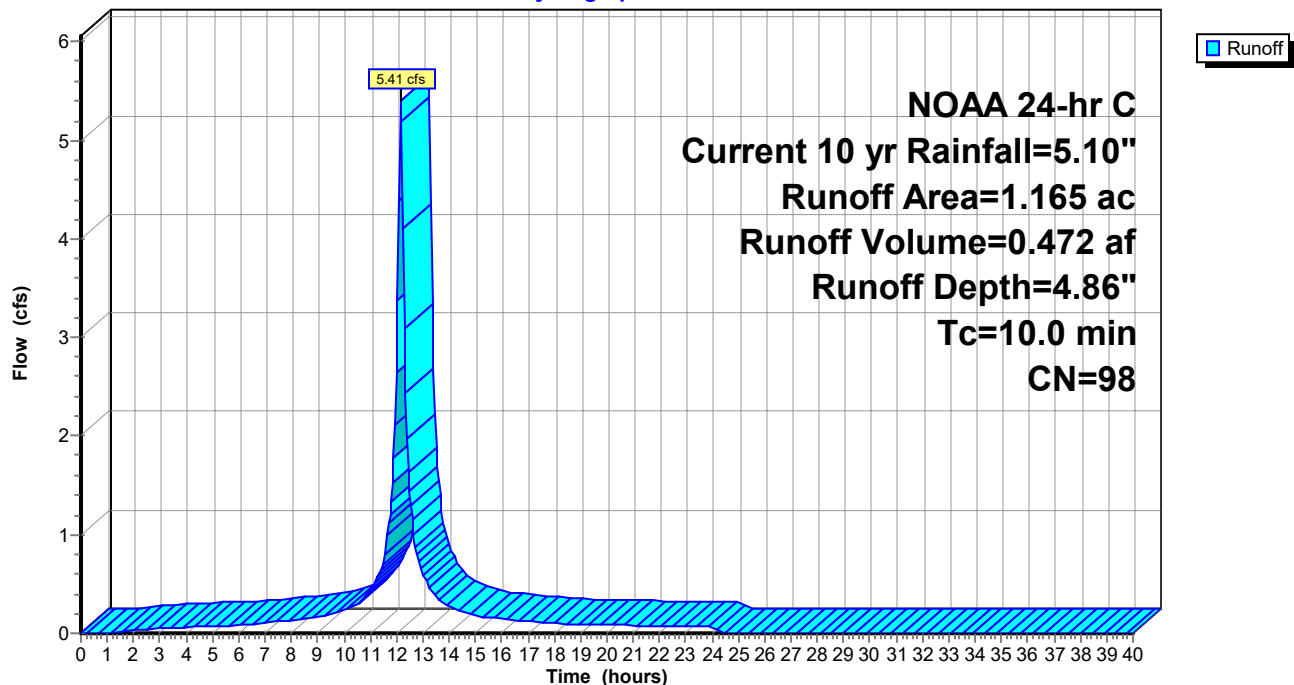
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.712	98	Pavement, HSG C
* 0.386	98	Roof, HSG C
* 0.067	98	Concrete, HSG C
1.165	98	Weighted Average
1.165		100.00% Impervious Area

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

Subcatchment 16I: PDA-16 (impervious)

Hydrograph



Summary for Subcatchment 16P: PDA-16 (pervious)

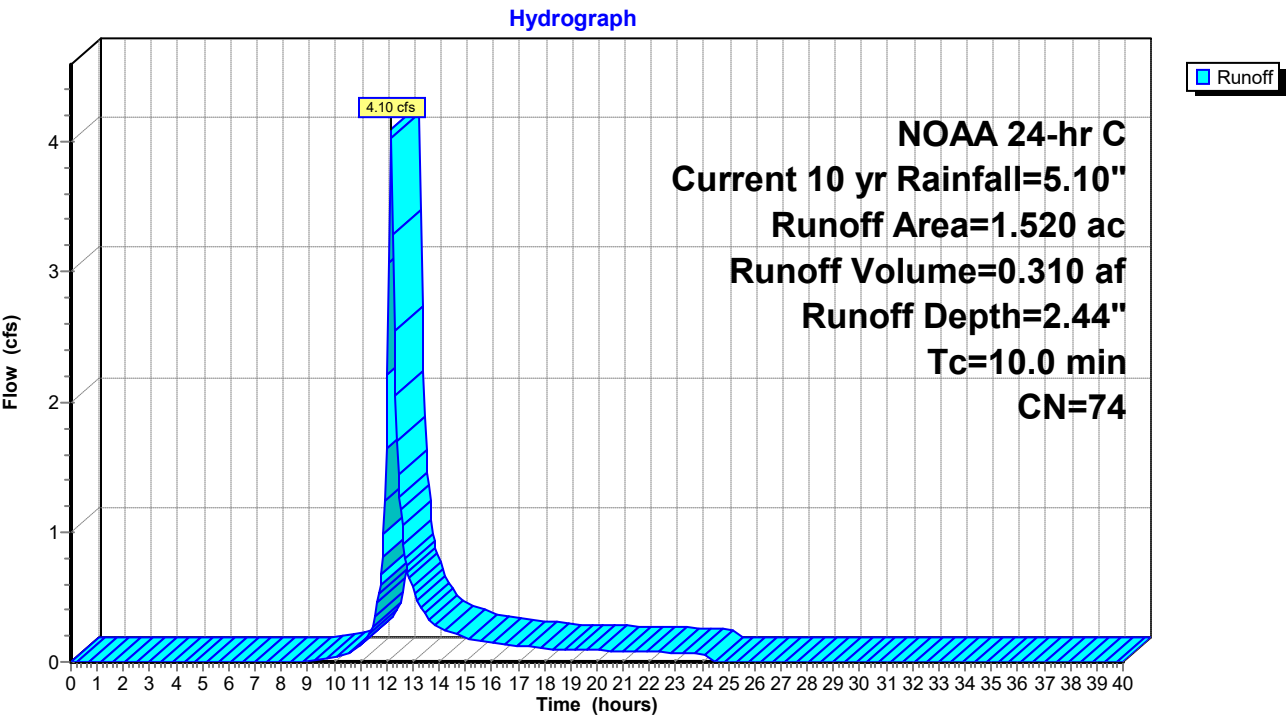
Runoff = 4.10 cfs @ 12.18 hrs, Volume= 0.310 af, Depth= 2.44"
Routed to Pond B-16 : Basin #16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.520	74	>75% Grass cover, Good, HSG C
1.520		100.00% Pervious Area

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

Subcatchment 16P: PDA-16 (pervious)



Summary for Subcatchment 17I: PDA-17 (impervious)

Runoff = 4.48 cfs @ 12.17 hrs, Volume= 0.391 af, Depth= 4.86"
 Routed to Pond B-17 : Basin #17

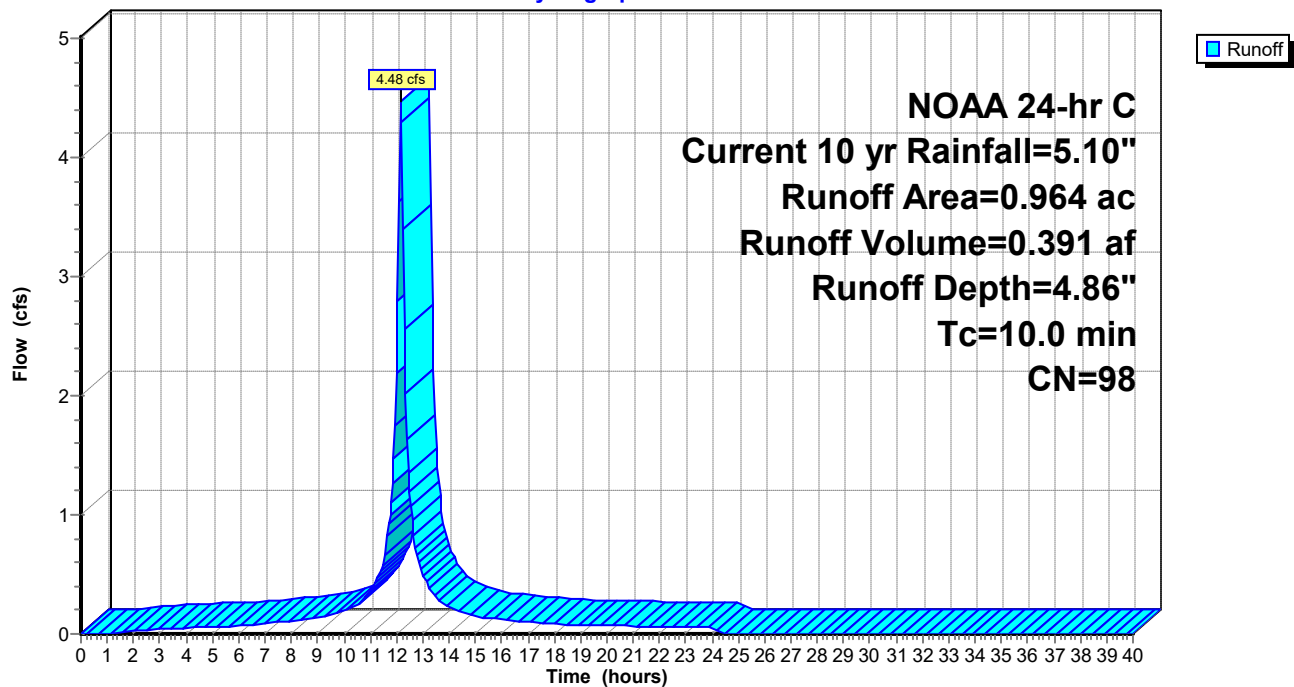
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.964	98	Roof, HSG C
0.964		100.00% Impervious Area

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

Subcatchment 17I: PDA-17 (impervious)

Hydrograph



Summary for Subcatchment 17P: PDA-17 (pervious)

Runoff = 4.93 cfs @ 12.18 hrs, Volume= 0.372 af, Depth= 2.44"
 Routed to Pond B-17 : Basin #17

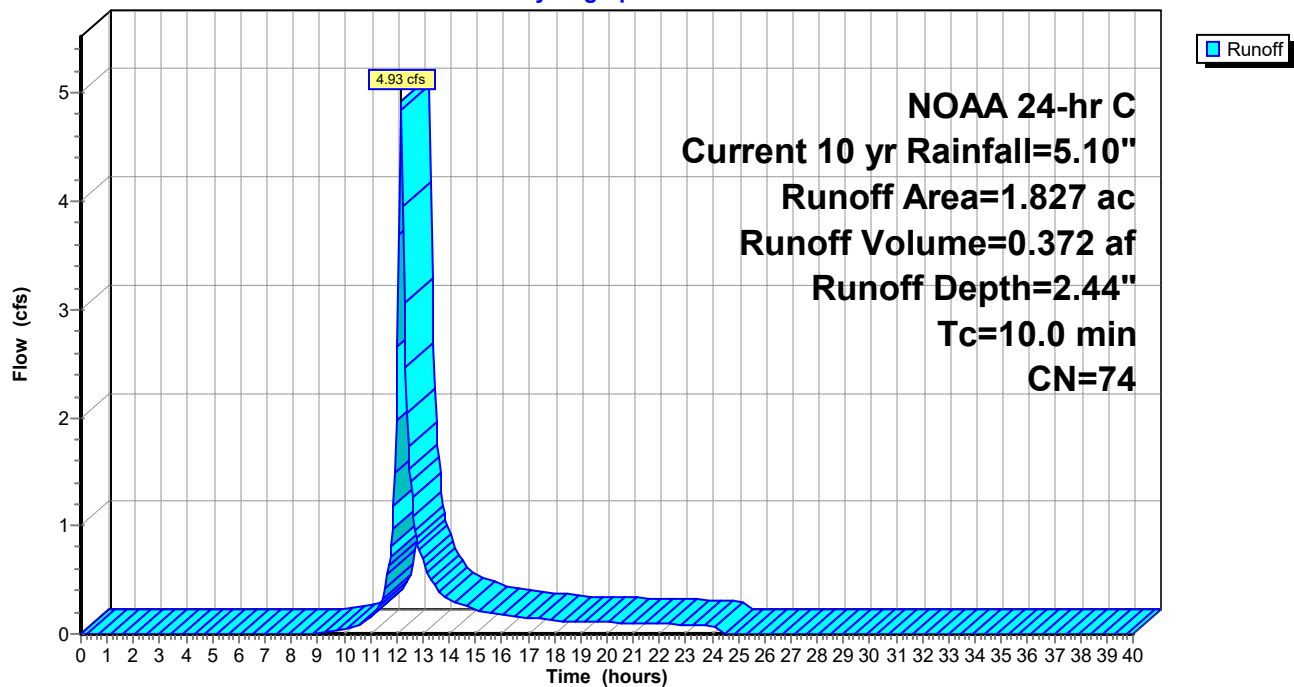
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.827	74	>75% Grass cover, Good, HSG C
1.827		100.00% Pervious Area

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

Subcatchment 17P: PDA-17 (pervious)

Hydrograph



Summary for Subcatchment 18I: PDA-18 (impervious)

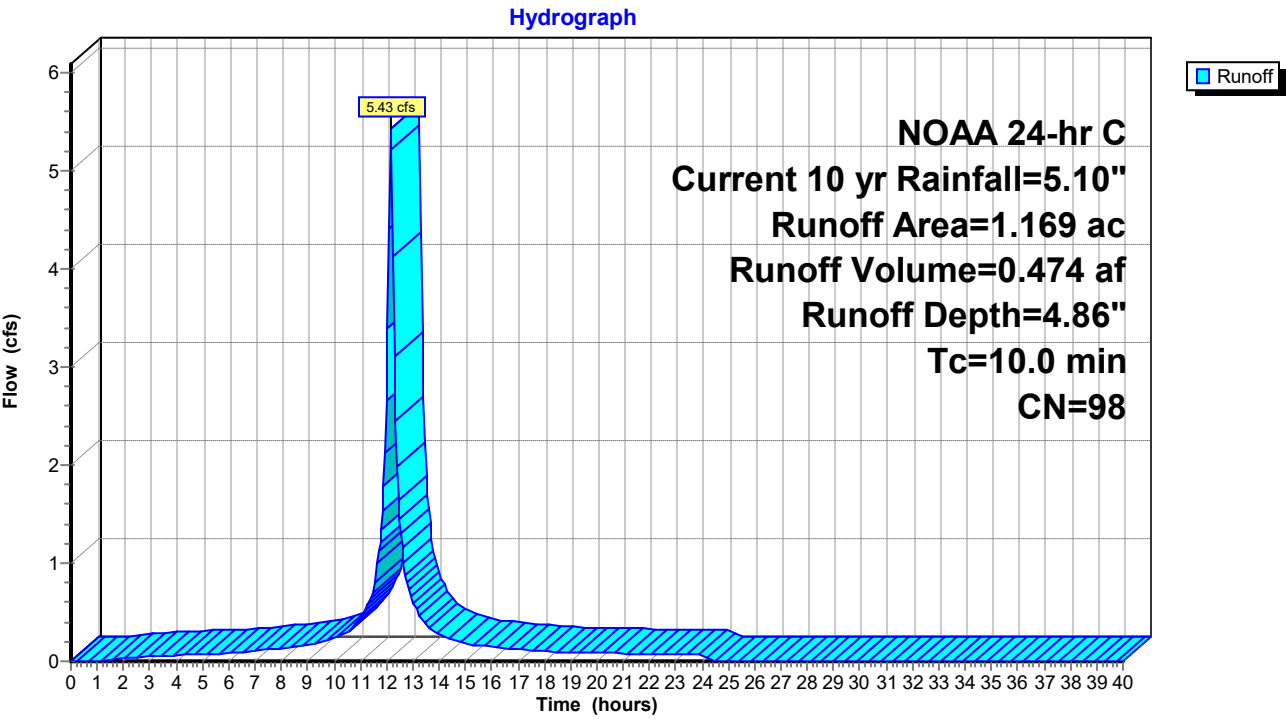
Runoff = 5.43 cfs @ 12.17 hrs, Volume= 0.474 af, Depth= 4.86"
Routed to Pond B-18 : Basin #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.474	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.052	98	Concrete, HSG C
1.169	98	Weighted Average
1.169		100.00% Impervious Area

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

Subcatchment 18I: PDA-18 (impervious)



Summary for Subcatchment 18P: PDA-18 (pervious)

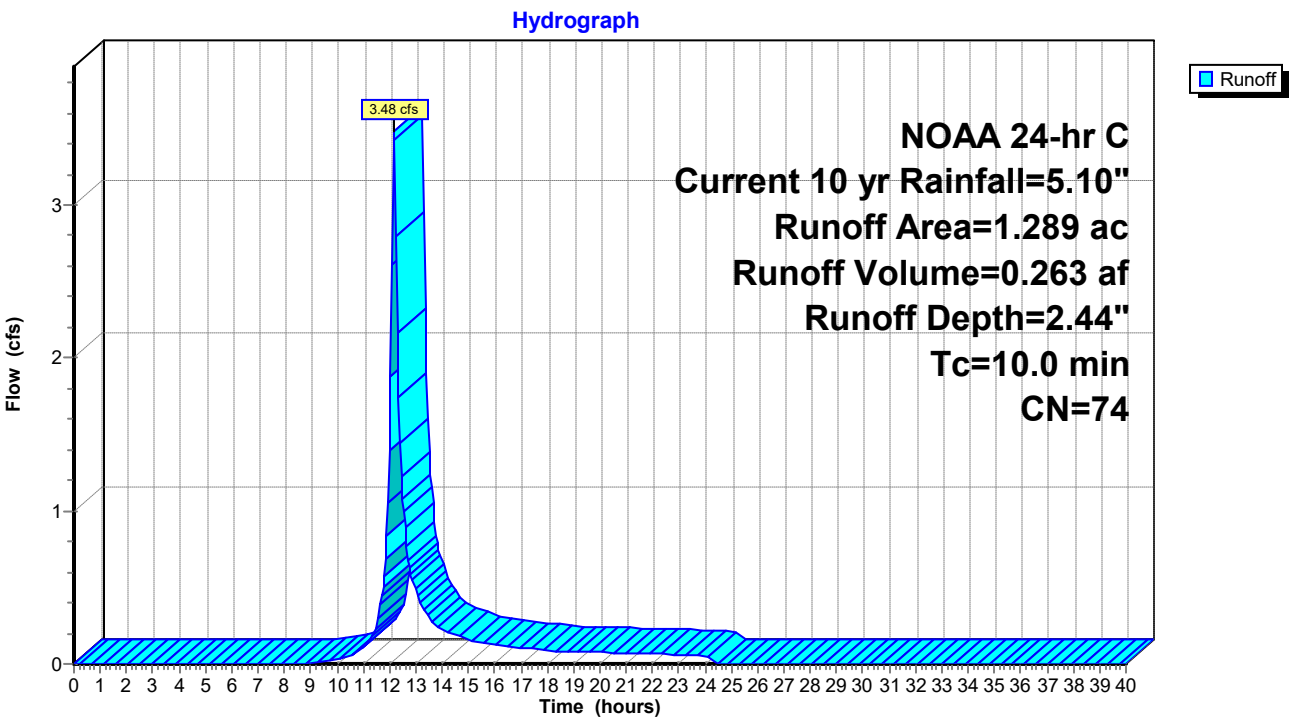
Runoff = 3.48 cfs @ 12.18 hrs, Volume= 0.263 af, Depth= 2.44"
Routed to Pond B-18 : Basin #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.289	74	>75% Grass cover, Good, HSG C
1.289		100.00% Pervious Area

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

Subcatchment 18P: PDA-18 (pervious)



Summary for Subcatchment 19I: PDA-19 (impervious)

Runoff = 1.77 cfs @ 12.17 hrs, Volume= 0.154 af, Depth= 4.86"
 Routed to Pond B-19 : Basin #19

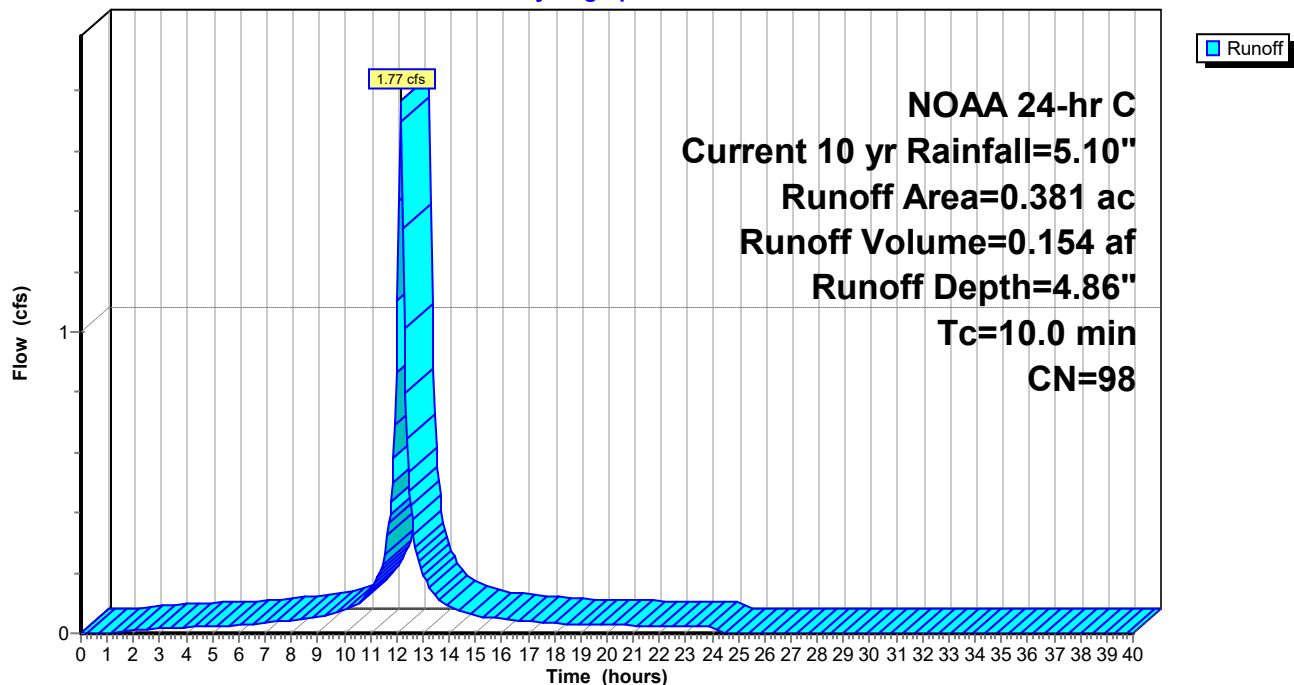
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.167	98	Pavement, HSG C
* 0.193	98	Roof, HSG C
* 0.021	98	Concrete, HSG C
0.381	98	Weighted Average
0.381		100.00% Impervious Area

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

Subcatchment 19I: PDA-19 (impervious)

Hydrograph



Summary for Subcatchment 19P: PDA-19 (pervious)

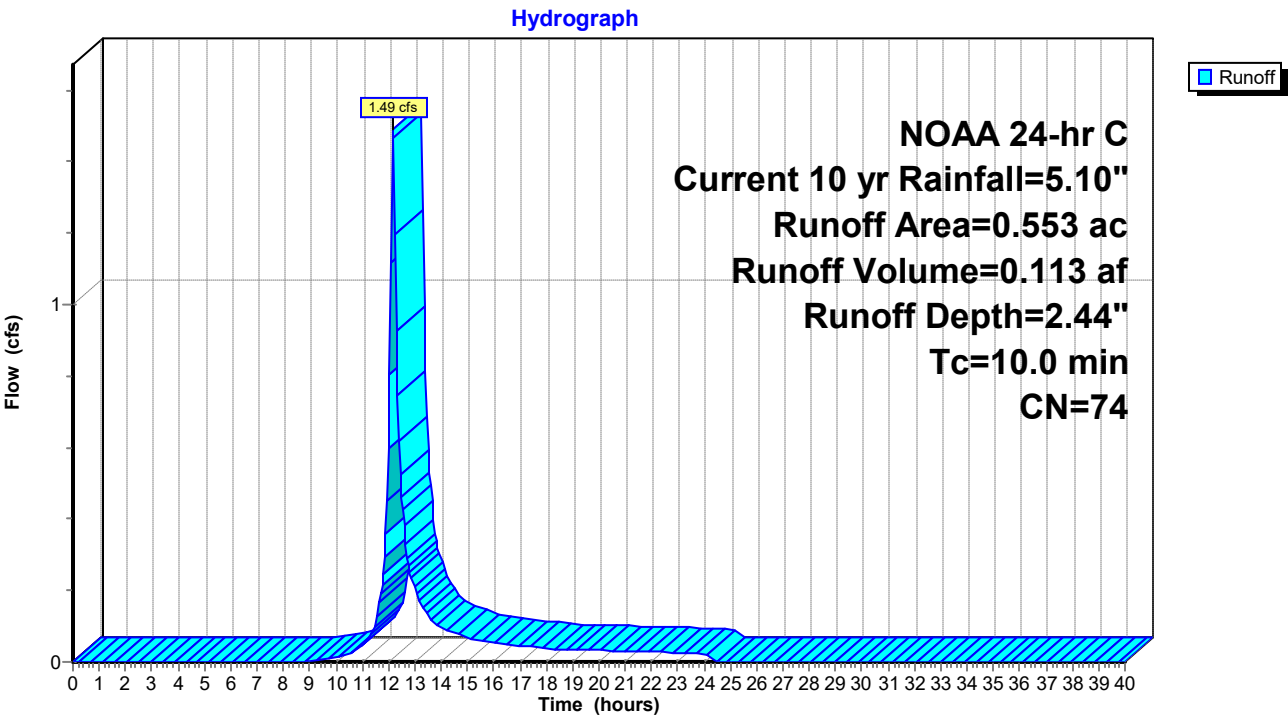
Runoff = 1.49 cfs @ 12.18 hrs, Volume= 0.113 af, Depth= 2.44"
Routed to Pond B-19 : Basin #19

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.553	74	>75% Grass cover, Good, HSG C
0.553		100.00% Pervious Area

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

Subcatchment 19P: PDA-19 (pervious)



Summary for Subcatchment 20I: PDA-20 (impervious)

Runoff = 5.92 cfs @ 12.17 hrs, Volume= 0.516 af, Depth= 4.86"
 Routed to Pond B-20 : Basin #20

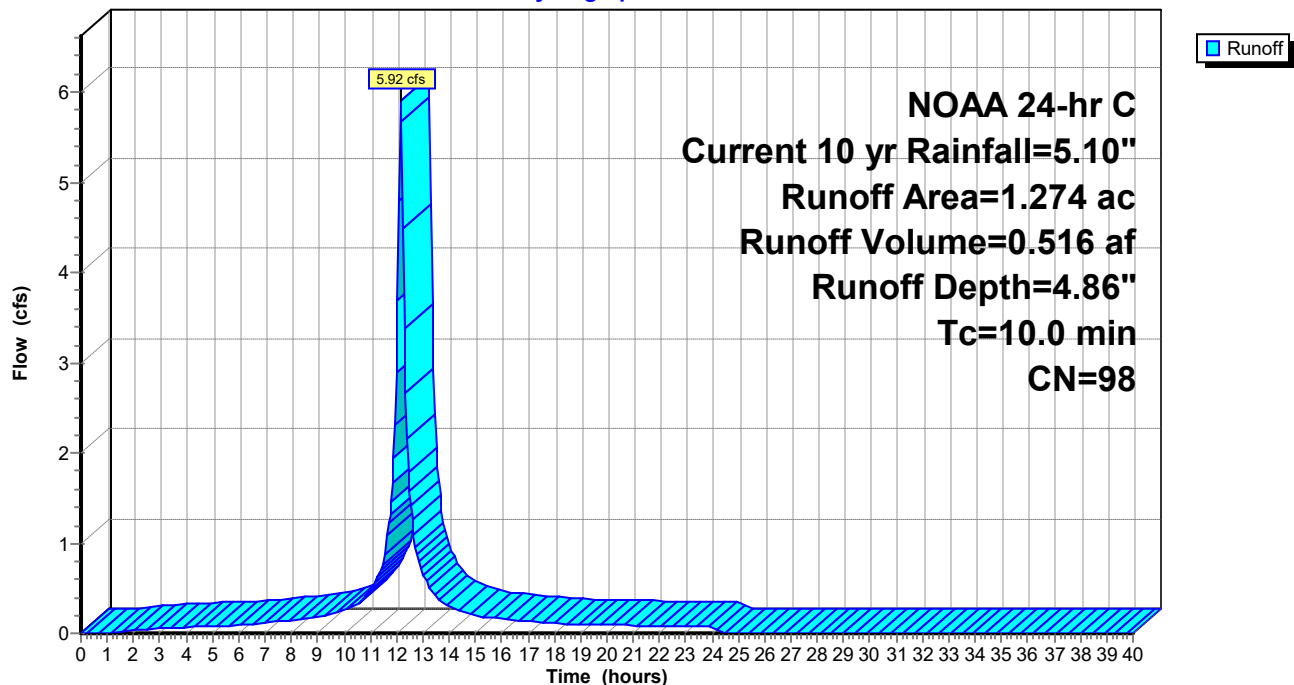
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.500	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.067	98	Concrete, HSC C
1.274	98	Weighted Average
1.274		100.00% Impervious Area

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

Subcatchment 20I: PDA-20 (impervious)

Hydrograph



Summary for Subcatchment 20P: PDA-20 (pervious)

Runoff = 3.79 cfs @ 12.18 hrs, Volume= 0.286 af, Depth= 2.44"
 Routed to Pond B-20 : Basin #20

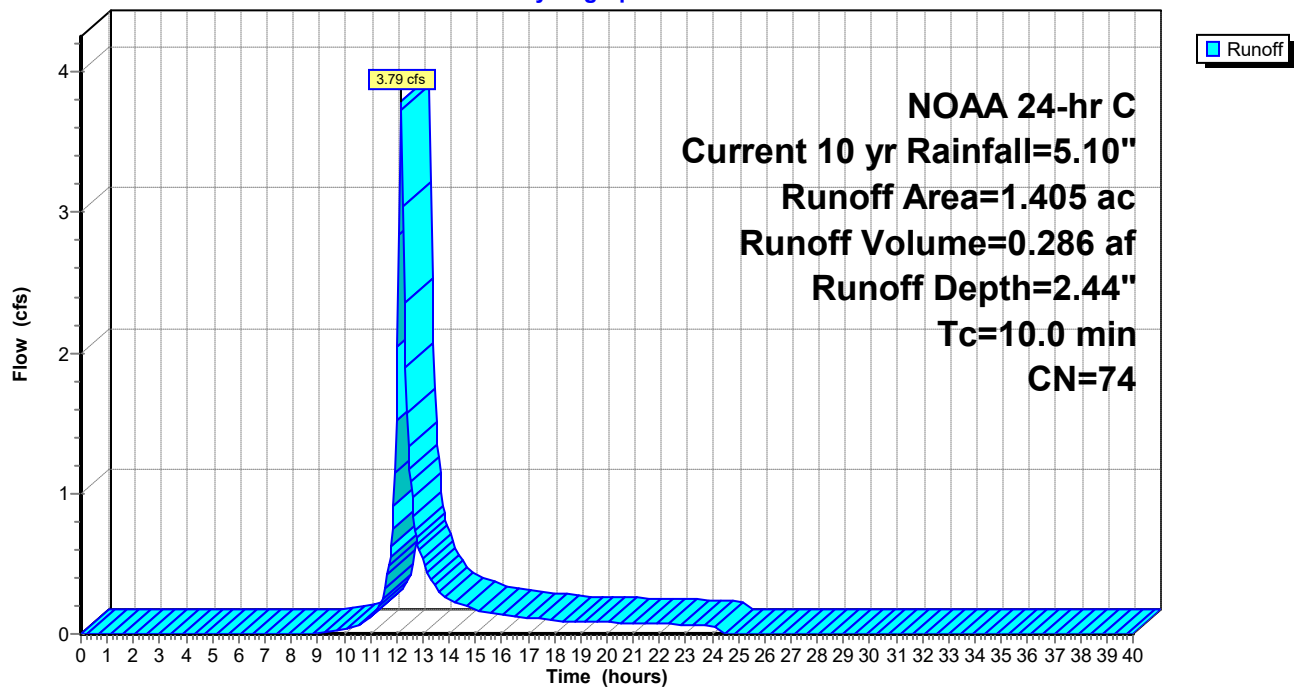
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.405	74	>75% Grass cover, Good, HSG C
1.405		100.00% Pervious Area

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

Subcatchment 20P: PDA-20 (pervious)

Hydrograph



Summary for Subcatchment 21I: PDA-21 (impervious)

Runoff = 5.18 cfs @ 12.17 hrs, Volume= 0.452 af, Depth= 4.86"
 Routed to Pond B-21 : Basin #21

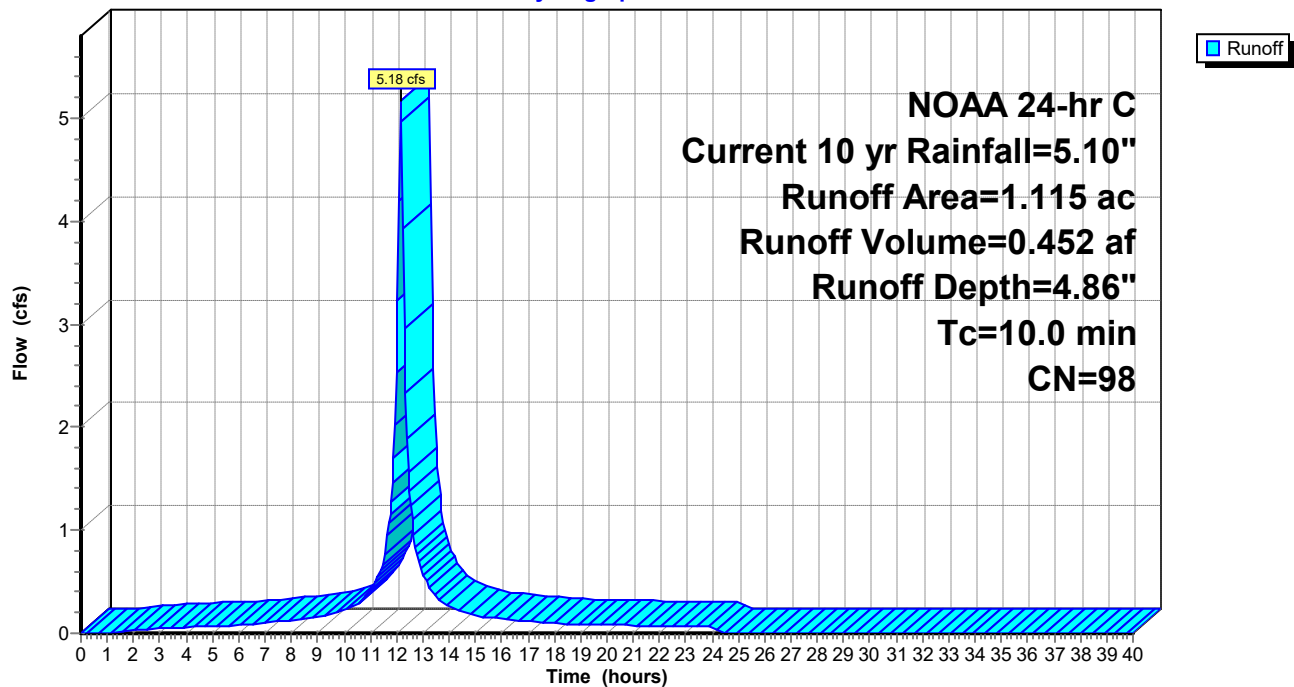
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.556	98	Pavement, HSG C
* 0.514	98	Roof, HSG C
* 0.045	98	Concrete, HSC C
1.115	98	Weighted Average
1.115		100.00% Impervious Area

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

Subcatchment 21I: PDA-21 (impervious)

Hydrograph



Summary for Subcatchment 21P: PDA-21 (pervious)

Runoff = 4.23 cfs @ 12.18 hrs, Volume= 0.319 af, Depth= 2.44"
 Routed to Pond B-21 : Basin #21

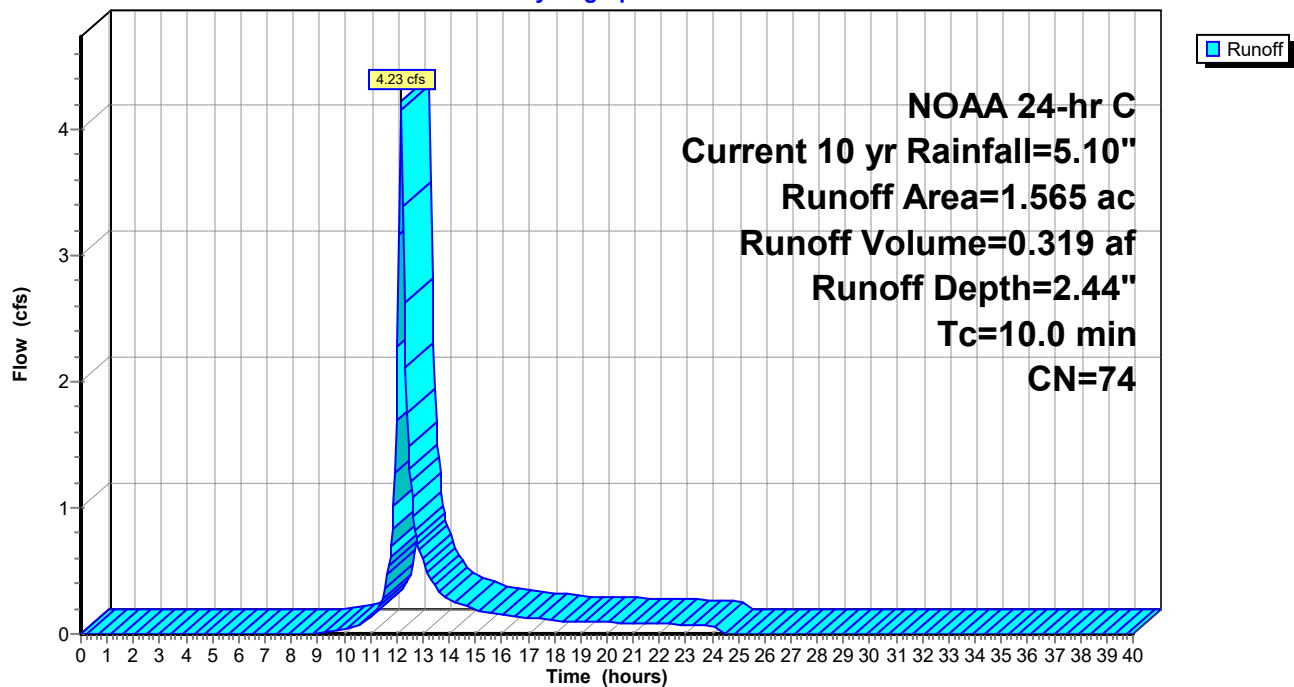
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.565	74	>75% Grass cover, Good, HSG C
1.565		100.00% Pervious Area

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

Subcatchment 21P: PDA-21 (pervious)

Hydrograph



Summary for Subcatchment 22I: PDA-22 (impervious)

Runoff = 3.85 cfs @ 12.17 hrs, Volume= 0.336 af, Depth= 4.86"
 Routed to Pond B-22 : Basin #22

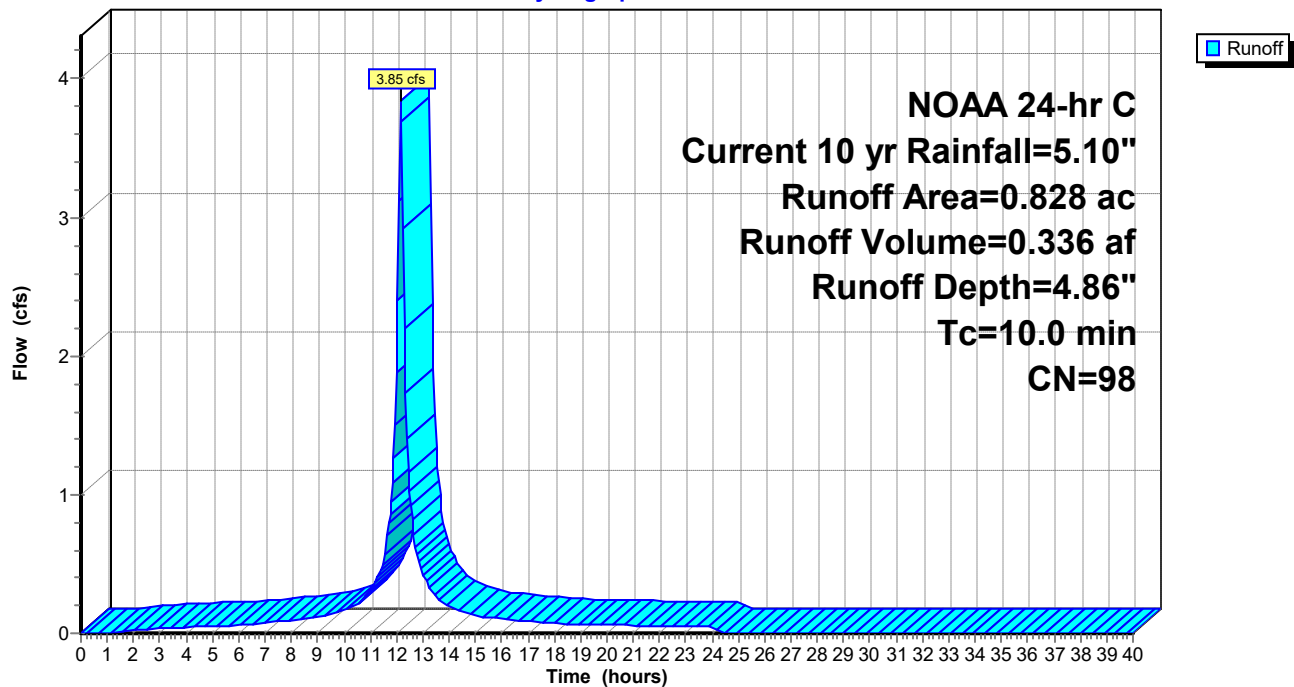
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.372	98	Pavement, HSG C
* 0.386	98	Roof, HSG C
* 0.070	98	Concrete, HSC C
0.828	98	Weighted Average
0.828		100.00% Impervious Area

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

Subcatchment 22I: PDA-22 (impervious)

Hydrograph



Summary for Subcatchment 22P: PDA-22 (pervious)

Runoff = 5.17 cfs @ 12.18 hrs, Volume= 0.390 af, Depth= 2.44"
 Routed to Pond B-22 : Basin #22

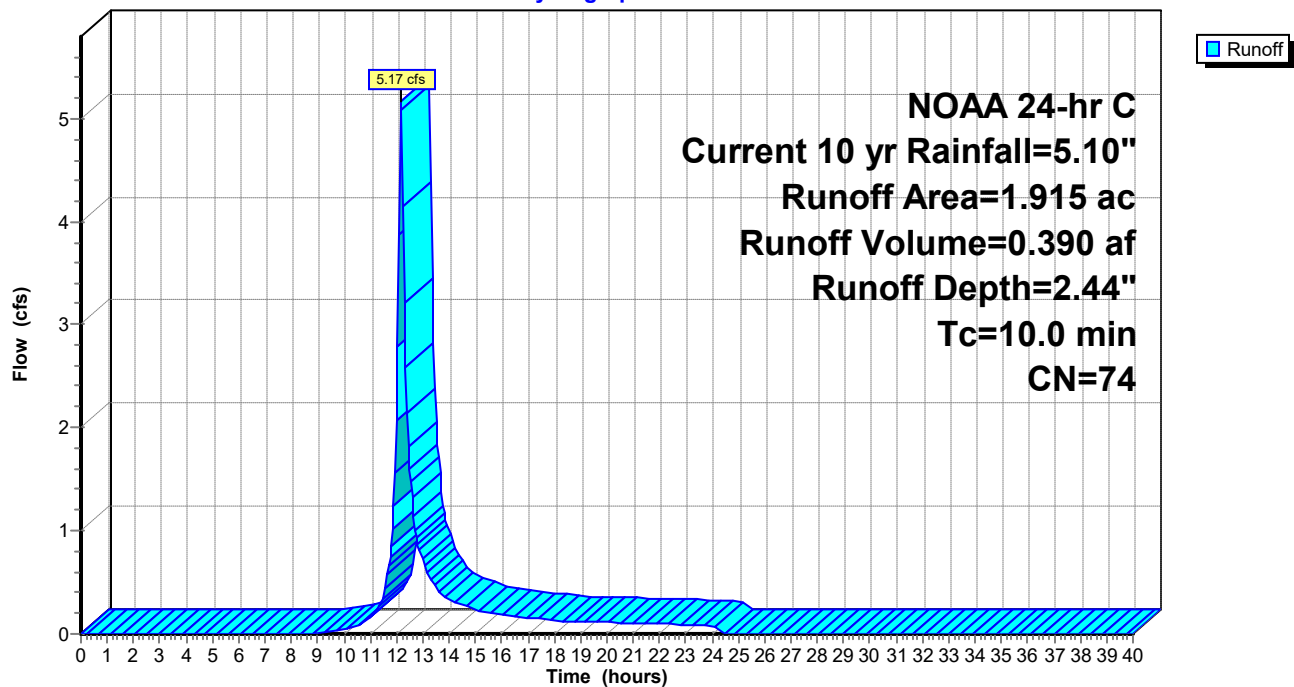
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.915	74	>75% Grass cover, Good, HSG C
1.915		100.00% Pervious Area

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

Subcatchment 22P: PDA-22 (pervious)

Hydrograph



Summary for Subcatchment 23I: PDA-23 (impervious)

Runoff = 4.68 cfs @ 12.17 hrs, Volume= 0.408 af, Depth= 4.86"
 Routed to Pond B-23 : Basin #23

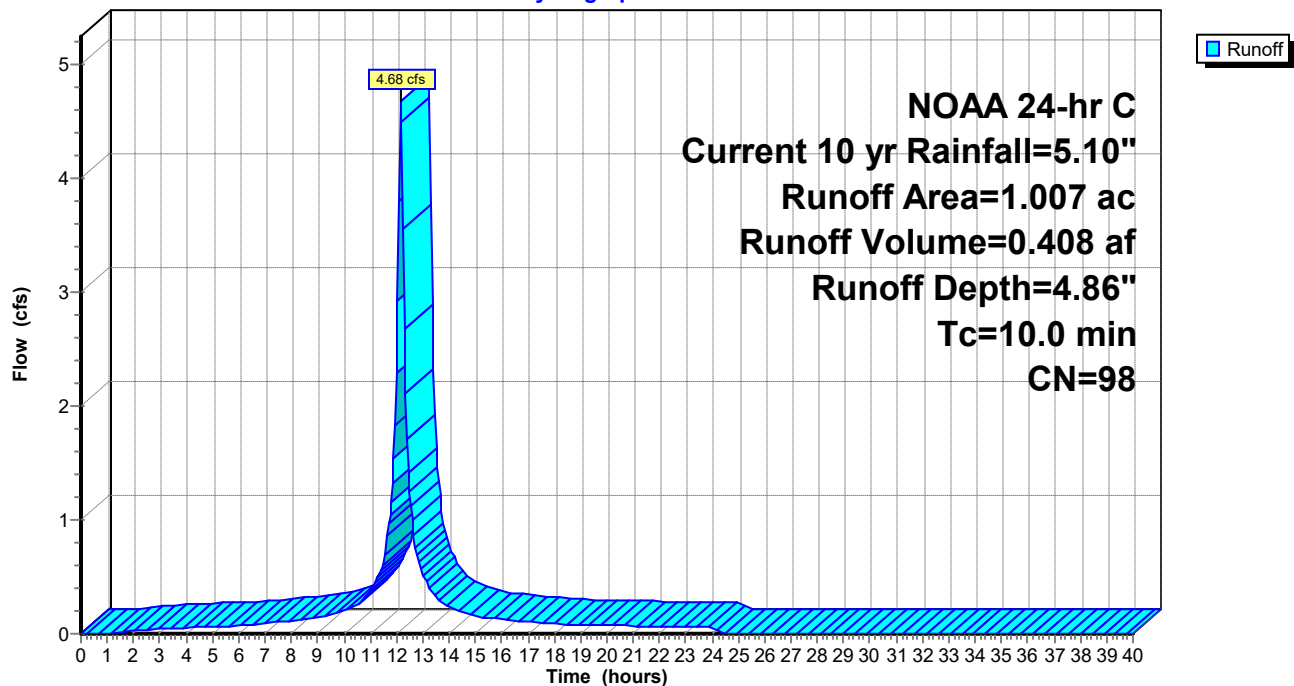
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.987	98	Pavement, HSG C
* 0.020	98	Concrete, HSG C
1.007	98	Weighted Average
1.007		100.00% Impervious Area

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

Subcatchment 23I: PDA-23 (impervious)

Hydrograph



Summary for Subcatchment 23P: PDA-23 (pervious)

Runoff = 1.36 cfs @ 12.18 hrs, Volume= 0.103 af, Depth= 2.44"
 Routed to Pond B-23 : Basin #23

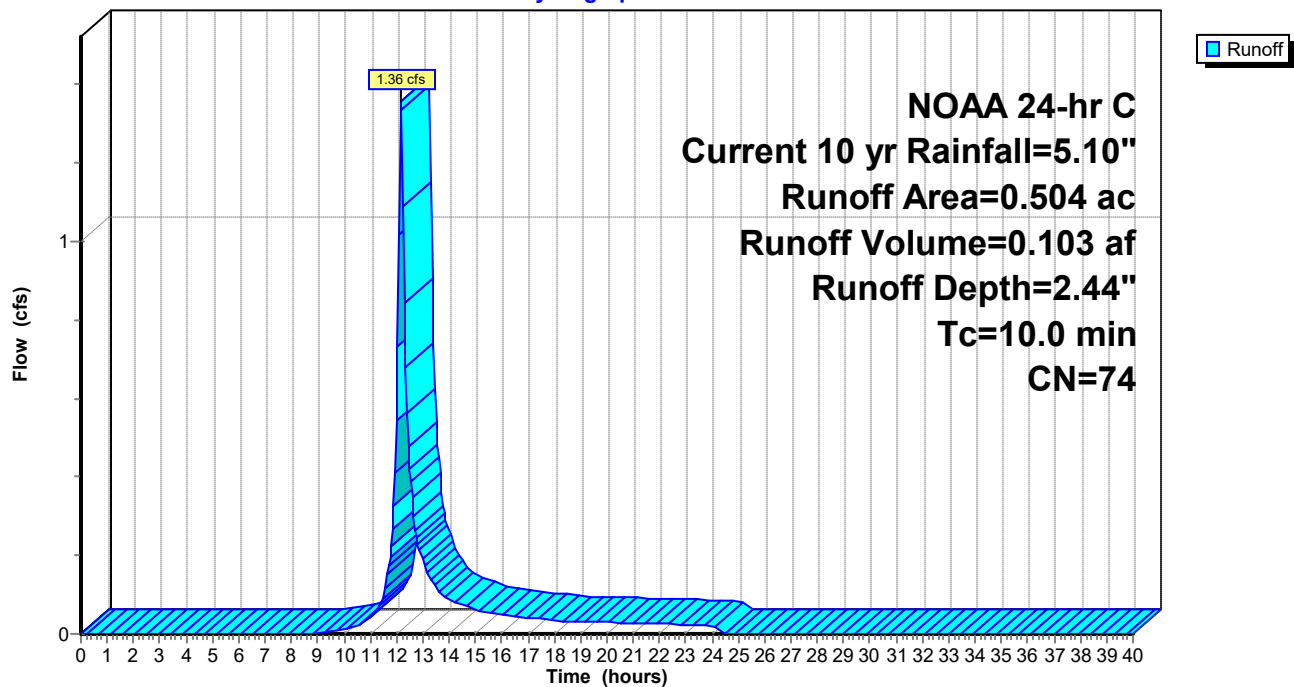
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.504	74	>75% Grass cover, Good, HSG C
0.504		100.00% Pervious Area

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

Subcatchment 23P: PDA-23 (pervious)

Hydrograph



Summary for Subcatchment 24I: PDA-24 (impervious)

Runoff = 5.70 cfs @ 12.17 hrs, Volume= 0.497 af, Depth= 4.86"
 Routed to Pond B-24 : Basin #24

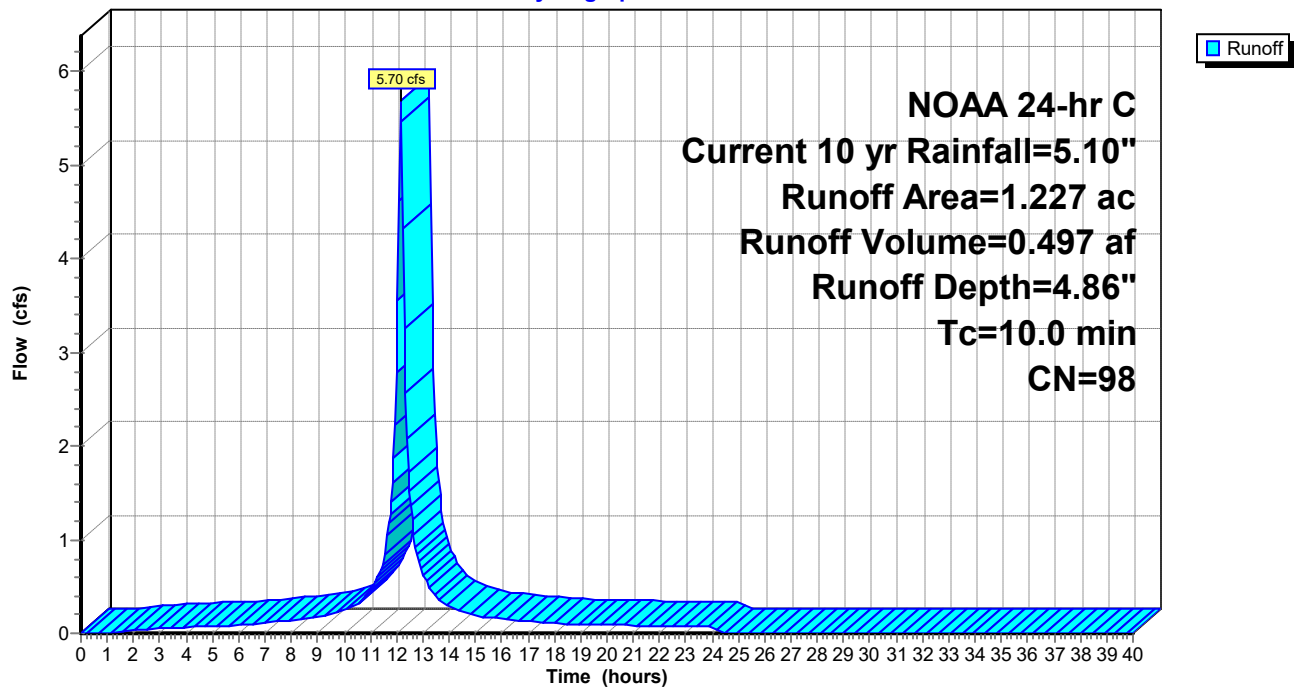
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.525	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.059	98	Concrete, HSC C
1.227	98	Weighted Average
1.227		100.00% Impervious Area

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

Subcatchment 24I: PDA-24 (impervious)

Hydrograph



Summary for Subcatchment 24P: PDA-24 (pervious)

Runoff = 4.08 cfs @ 12.18 hrs, Volume= 0.308 af, Depth= 2.44"
 Routed to Pond B-24 : Basin #24

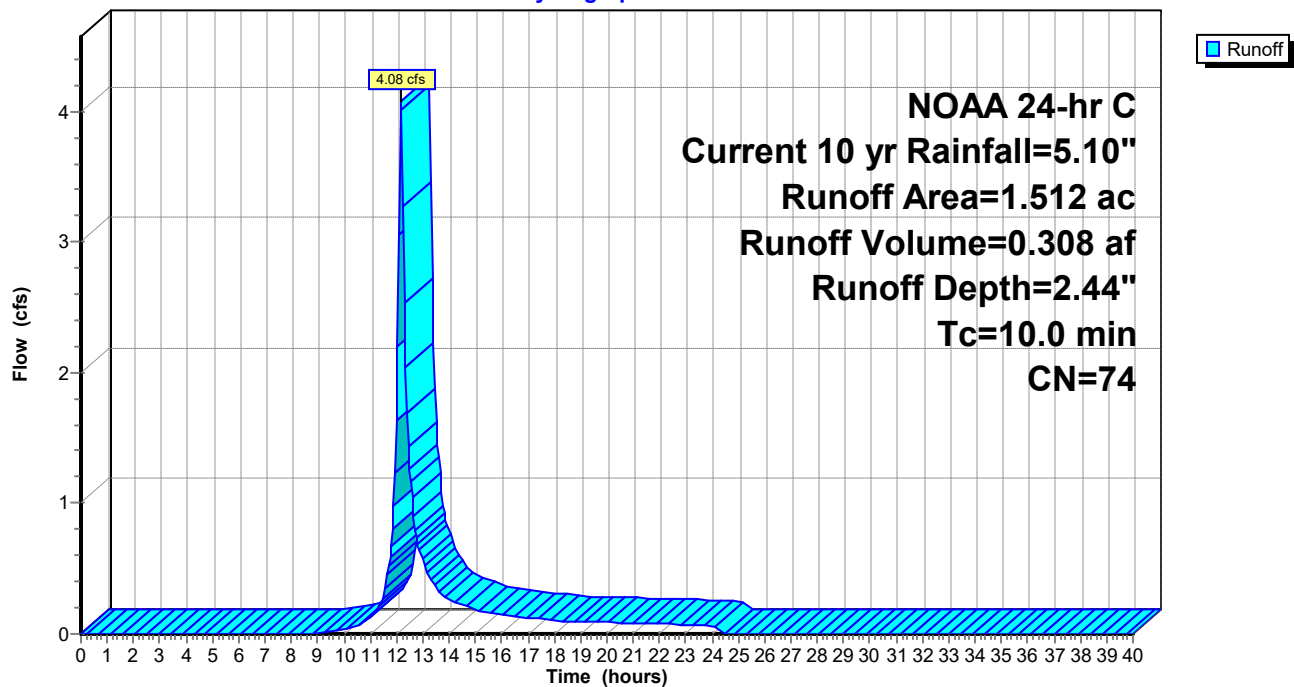
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.512	74	>75% Grass cover, Good, HSG C
1.512		100.00% Pervious Area

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

Subcatchment 24P: PDA-24 (pervious)

Hydrograph



Summary for Subcatchment 25I: PDA-25 (impervious)

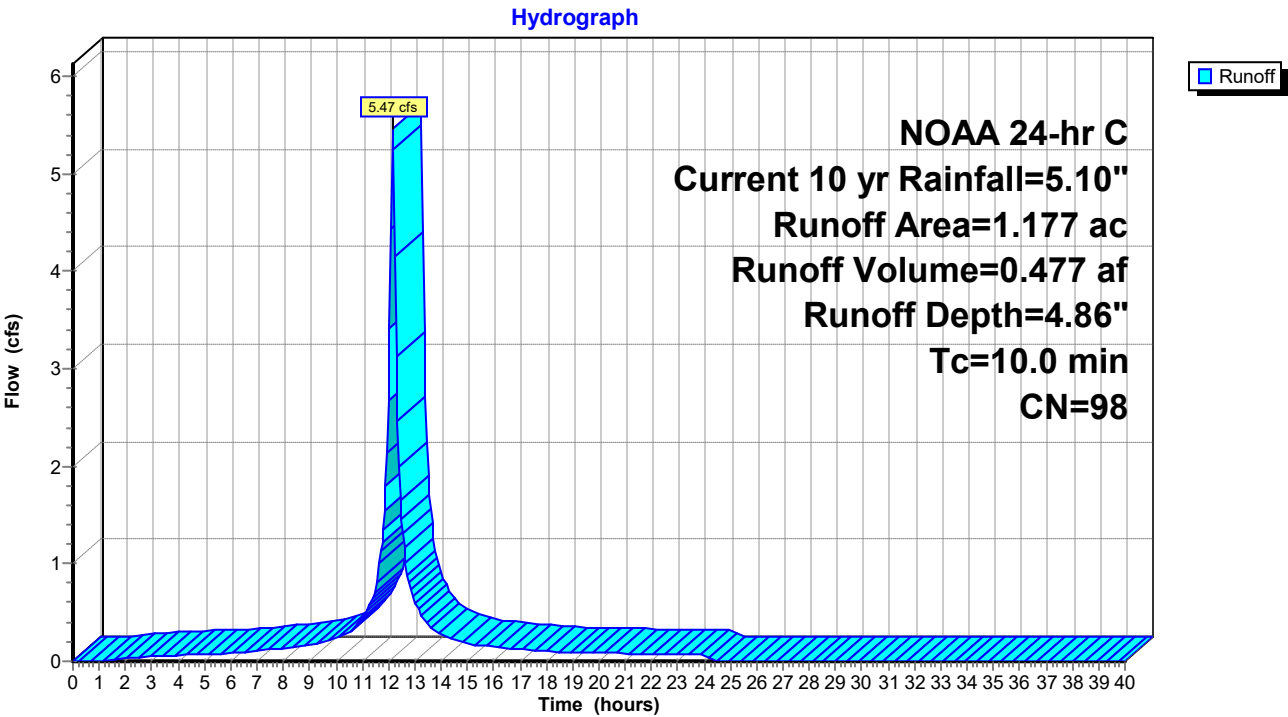
Runoff = 5.47 cfs @ 12.17 hrs, Volume= 0.477 af, Depth= 4.86"
Routed to Pond B-25 : Basin #25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.573	98	Pavement, HSG C
* 0.514	98	Roof, HSG C
* 0.090	98	Concrete, HSC C
1.177	98	Weighted Average
1.177		100.00% Impervious Area

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

Subcatchment 25I: PDA-25 (impervious)



Summary for Subcatchment 25P: PDA-25 (pervious)

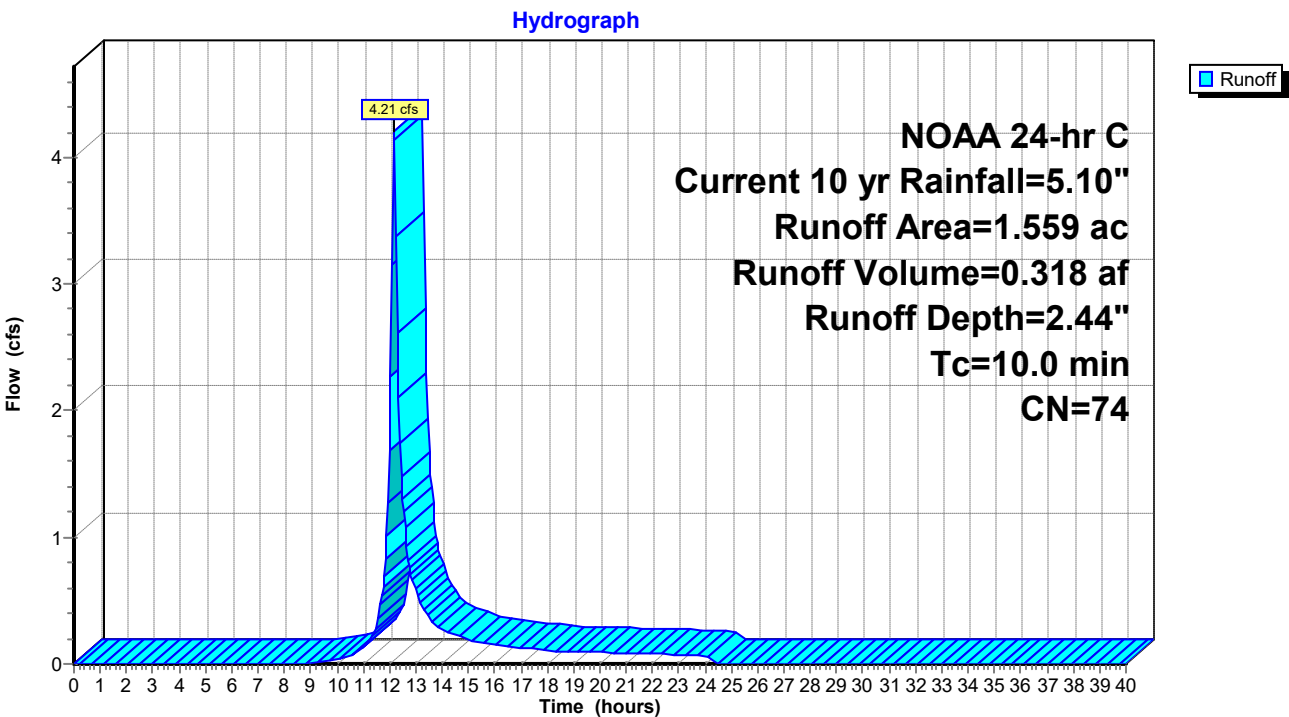
Runoff = 4.21 cfs @ 12.18 hrs, Volume= 0.318 af, Depth= 2.44"
Routed to Pond B-25 : Basin #25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.559	74	>75% Grass cover, Good, HSG C
1.559		100.00% Pervious Area

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

Subcatchment 25P: PDA-25 (pervious)



Summary for Subcatchment 26I: PDA-26 (impervious)

Runoff = 4.50 cfs @ 12.17 hrs, Volume= 0.393 af, Depth= 4.86"
 Routed to Pond B-26 : Basin #26

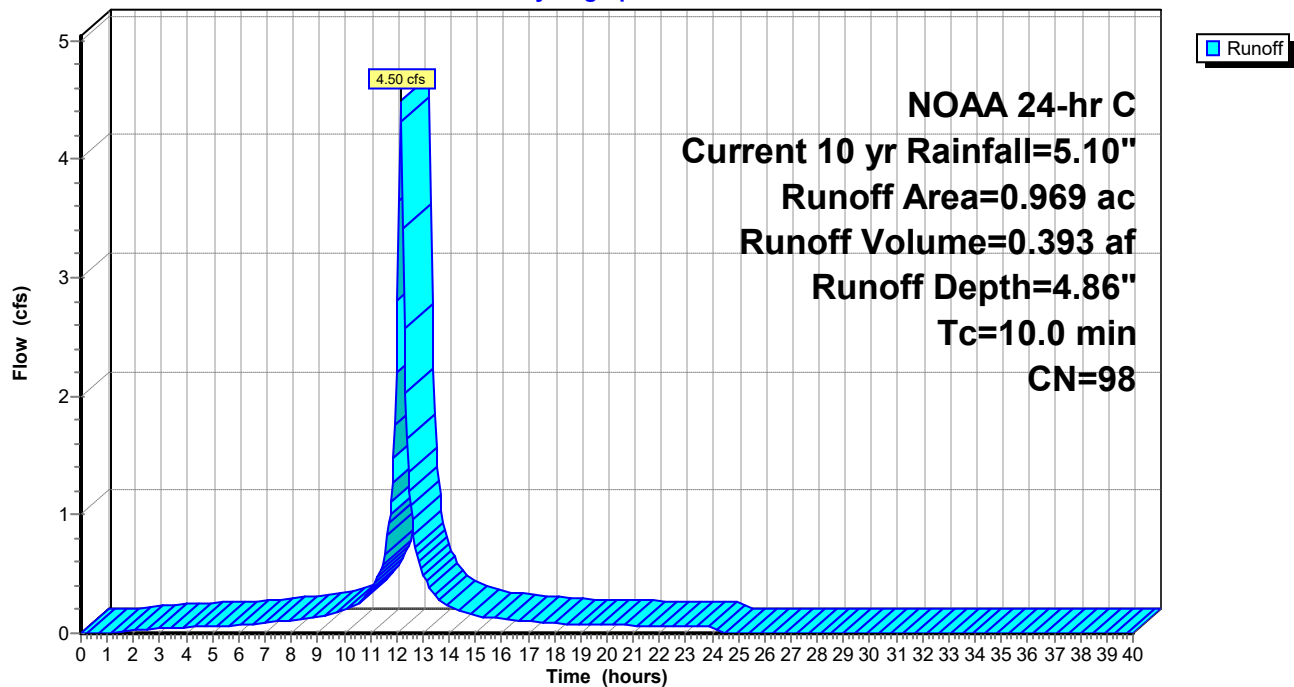
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.277	98	Pavement, HSG C
* 0.687	98	Roof, HSG C
* 0.005	98	Concrete, HSC C
0.969	98	Weighted Average
0.969		100.00% Impervious Area

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

Subcatchment 26I: PDA-26 (impervious)

Hydrograph



Summary for Subcatchment 26P: PDA-26 (pervious)

Runoff = 4.64 cfs @ 12.18 hrs, Volume= 0.350 af, Depth= 2.44"
 Routed to Pond B-26 : Basin #26

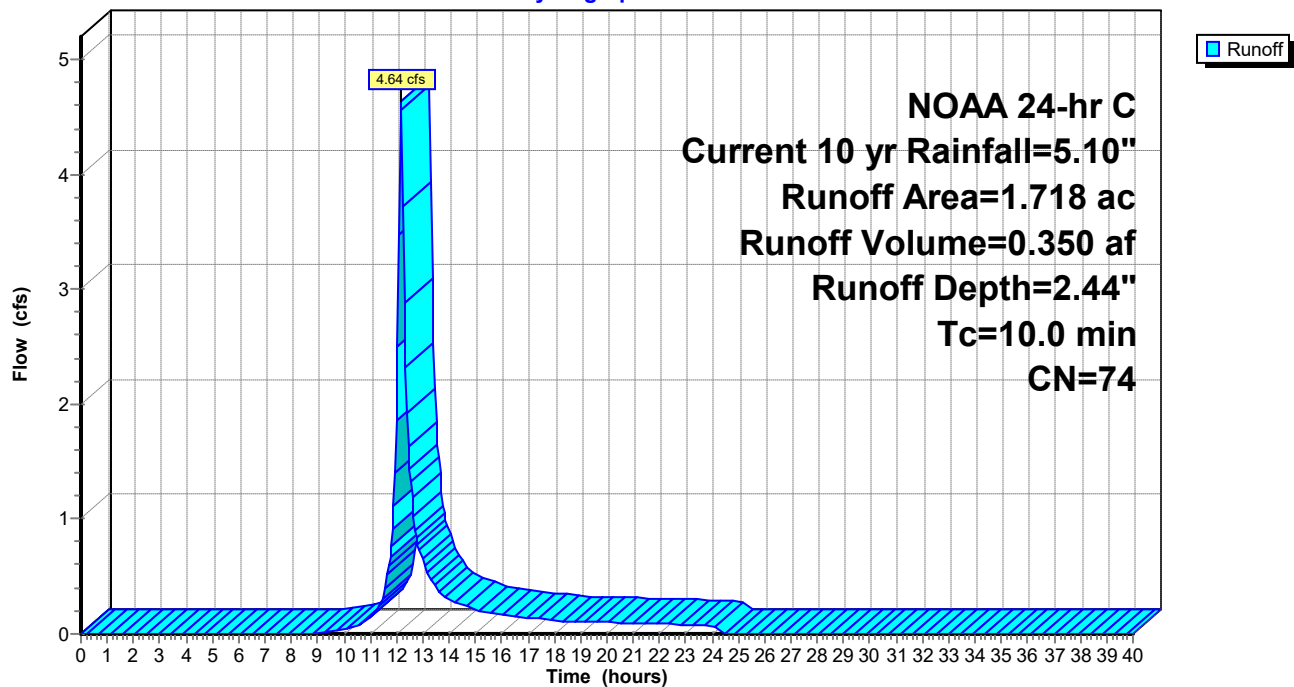
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.718	74	>75% Grass cover, Good, HSG C
1.718		100.00% Pervious Area

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

Subcatchment 26P: PDA-26 (pervious)

Hydrograph



Summary for Subcatchment 27I: PDA-27 (impervious)

Runoff = 5.41 cfs @ 12.17 hrs, Volume= 0.472 af, Depth= 4.86"
 Routed to Pond B-27 : Basin #27

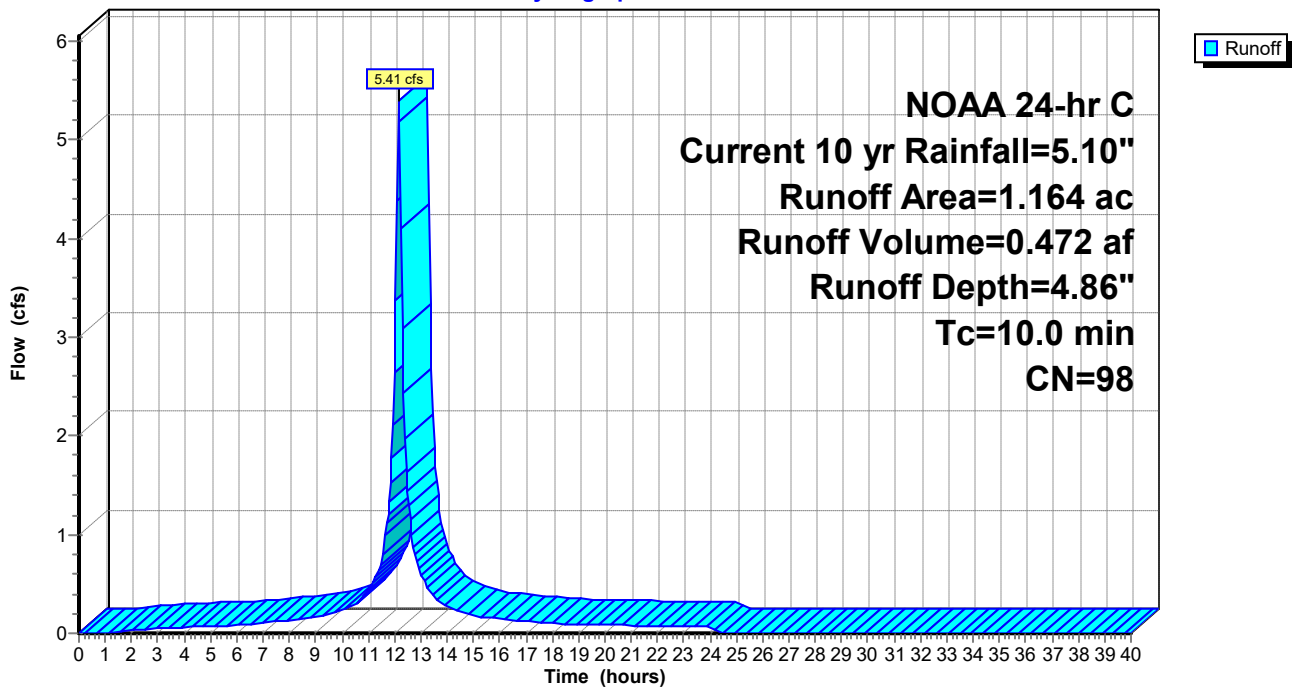
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.410	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.047	98	Concrete, HSC C
1.164	98	Weighted Average
1.164		100.00% Impervious Area

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

Subcatchment 27I: PDA-27 (impervious)

Hydrograph



Summary for Subcatchment 27P: PDA-27 (pervious)

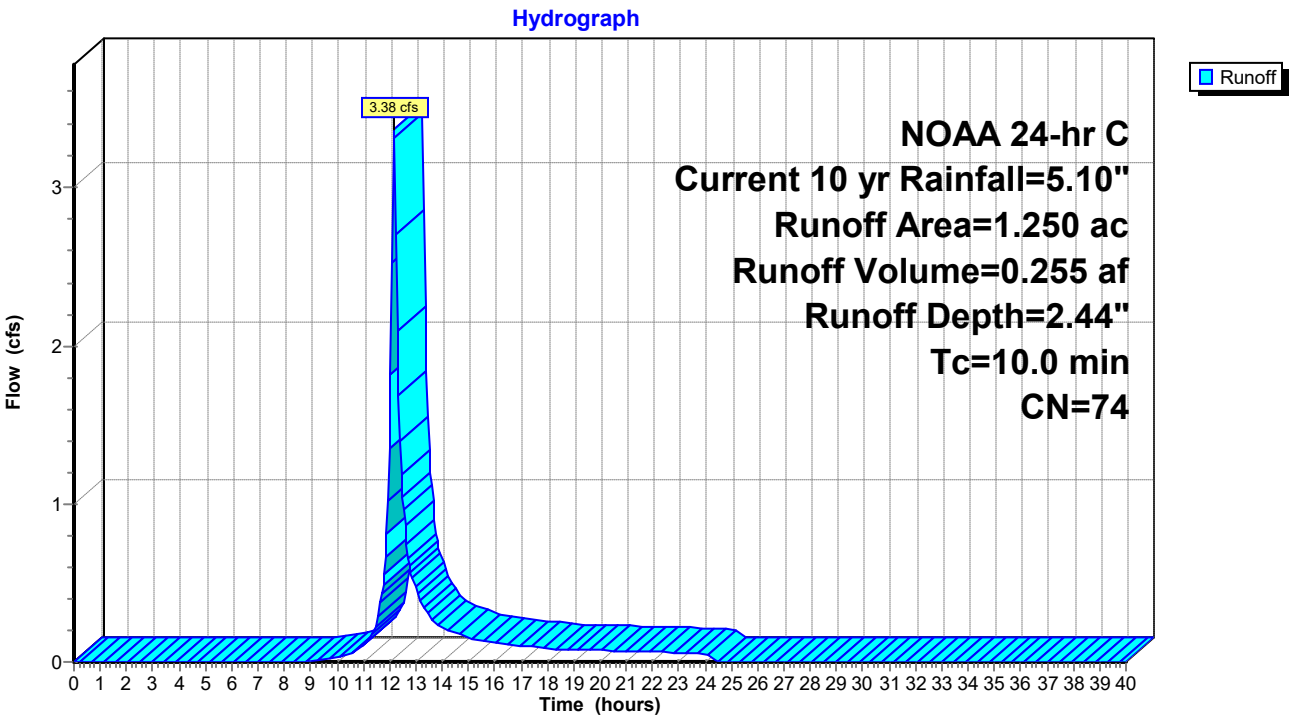
Runoff = 3.38 cfs @ 12.18 hrs, Volume= 0.255 af, Depth= 2.44"
Routed to Pond B-27 : Basin #27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.250	74	>75% Grass cover, Good, HSG C
1.250		100.00% Pervious Area

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

Subcatchment 27P: PDA-27 (pervious)



Summary for Subcatchment 28I: PDA-28 (impervious)

Runoff = 4.81 cfs @ 12.17 hrs, Volume= 0.419 af, Depth= 4.86"
 Routed to Pond B-28 : Basin #28

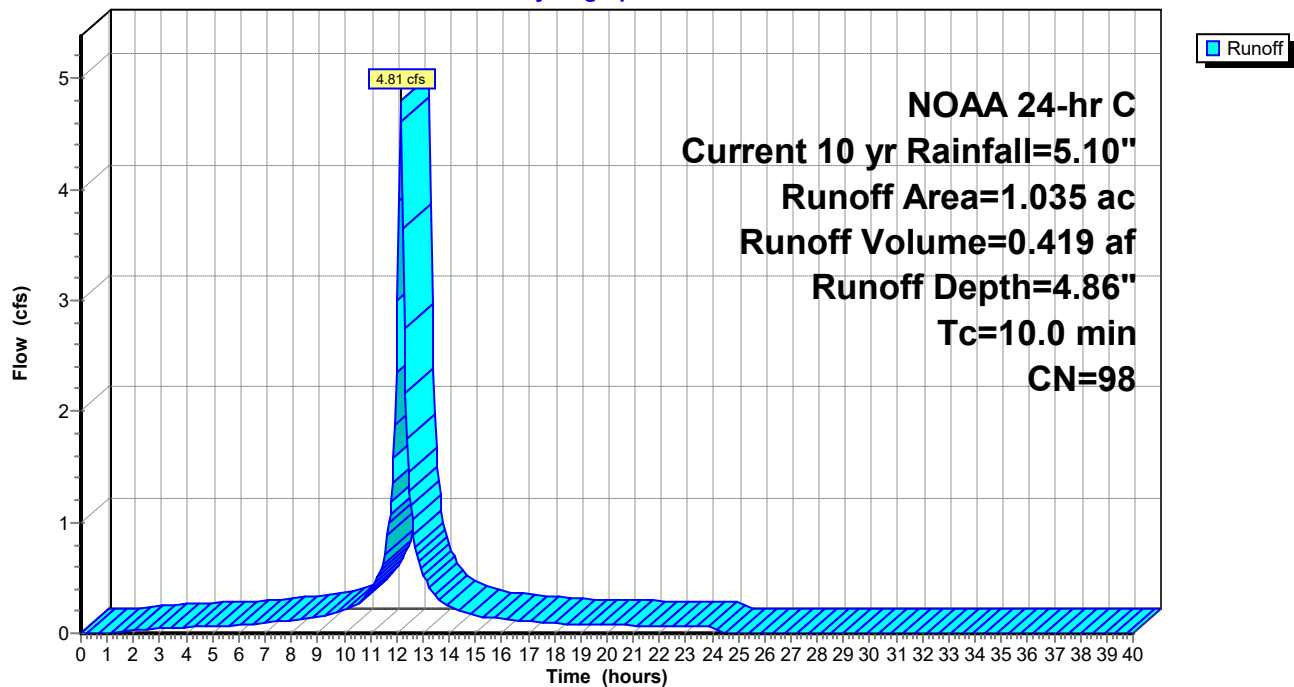
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.179	98	Pavement, HSG C
* 0.836	98	Roof, HSG C
* 0.020	98	Concrete, HSC C
1.035	98	Weighted Average
1.035		100.00% Impervious Area

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

Subcatchment 28I: PDA-28 (impervious)

Hydrograph



Summary for Subcatchment 28P: PDA-28 (pervious)

Runoff = 2.38 cfs @ 12.18 hrs, Volume= 0.180 af, Depth= 2.44"
 Routed to Pond B-28 : Basin #28

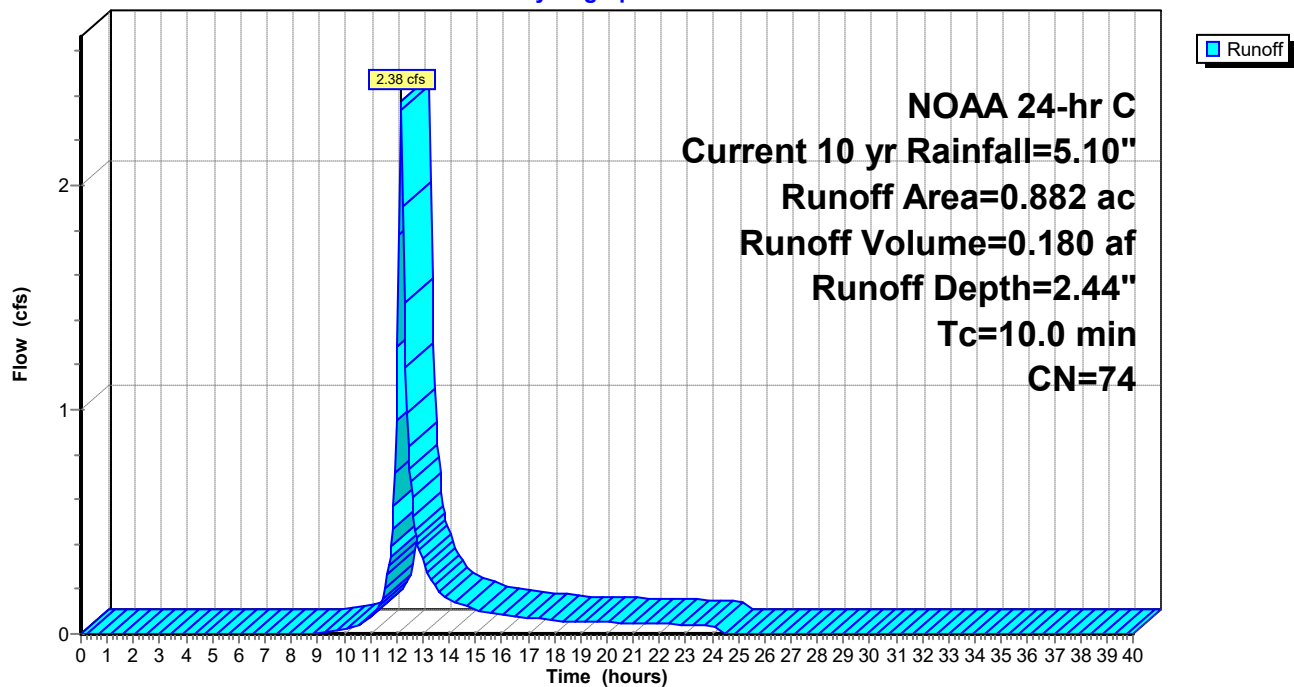
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.882	74	>75% Grass cover, Good, HSG C
0.882		100.00% Pervious Area

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

Subcatchment 28P: PDA-28 (pervious)

Hydrograph



Summary for Subcatchment UPDA-1: PDA-1 (undetained)

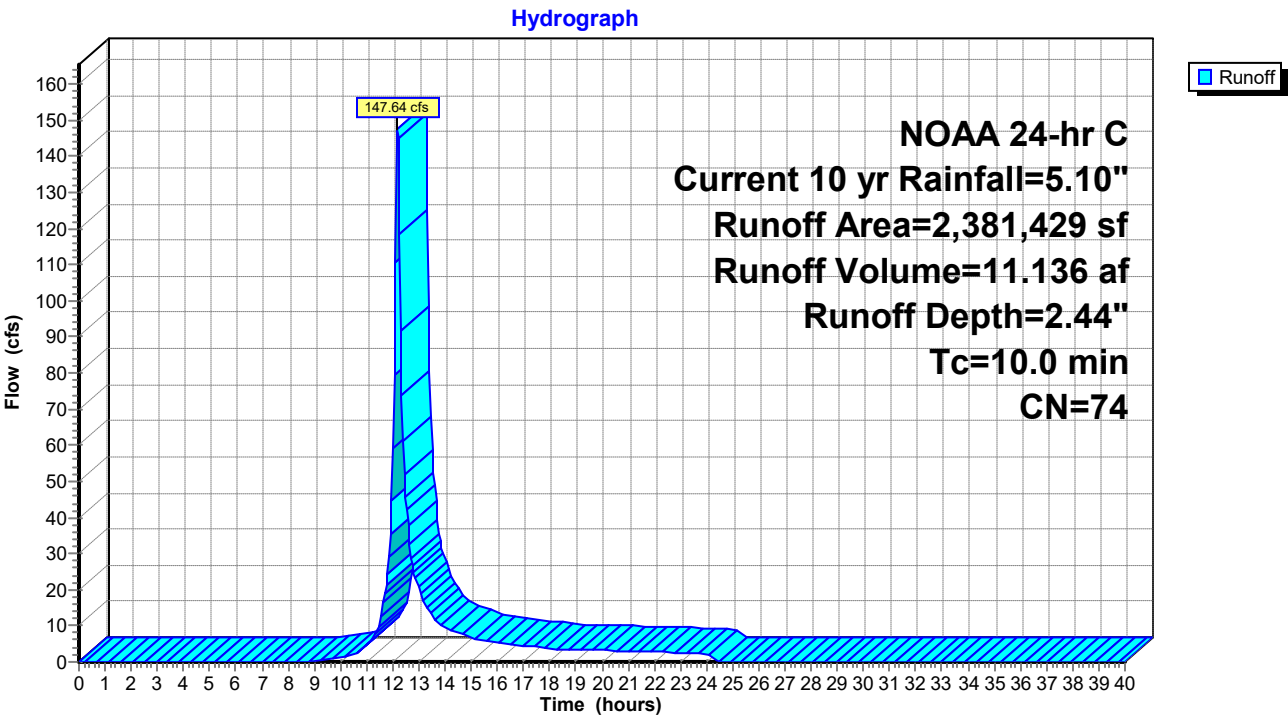
Runoff = 147.64 cfs @ 12.18 hrs, Volume= 11.136 af, Depth= 2.44"
Routed to Link PDA-1 : Proposed Drainage Area #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (sf)	CN	Description
2,381,429	74	>75% Grass cover, Good, HSG C
2,381,429		100.00% Pervious Area

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

Subcatchment UPDA-1: PDA-1 (undetained)



Summary for Subcatchment UPDA-2: PDA-2 (undetained)

Runoff = 25.40 cfs @ 12.18 hrs, Volume= 1.916 af, Depth= 2.44"

Routed to Link PDA-2 : Proposed Drainage Area #2

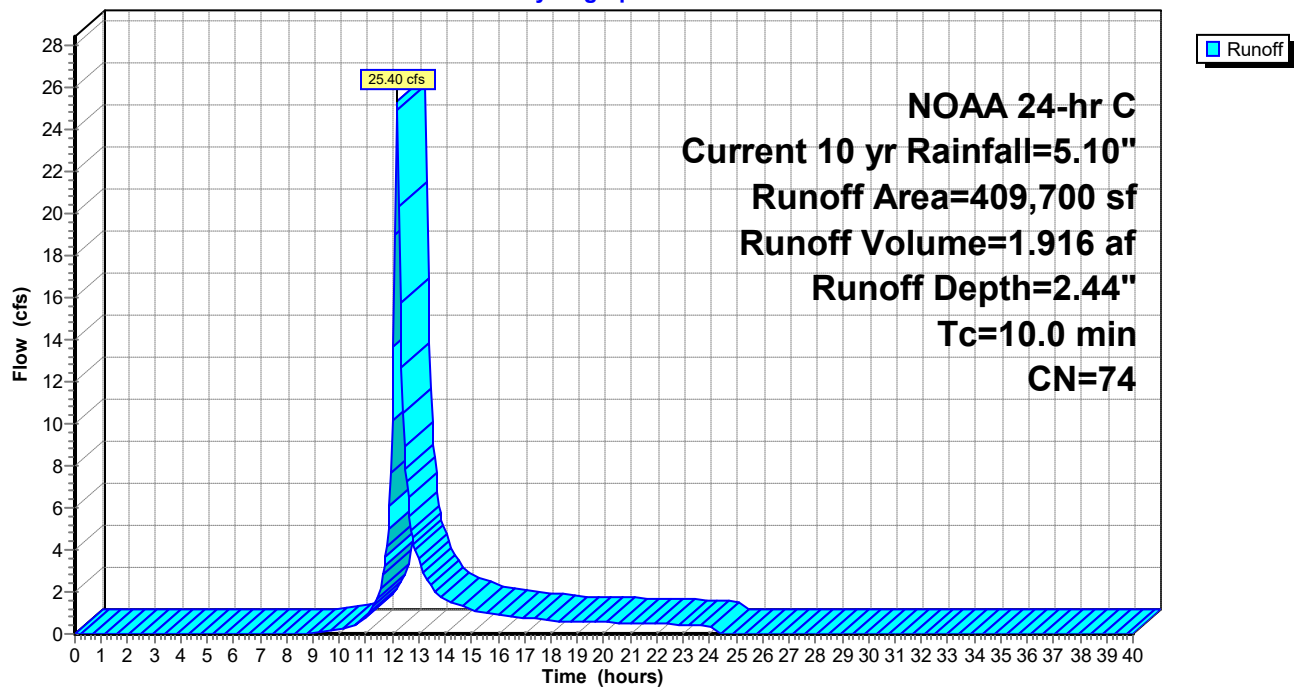
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (sf)	CN	Description
409,700	74	>75% Grass cover, Good, HSG C
409,700		100.00% Pervious Area

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

Subcatchment UPDA-2: PDA-2 (undetained)

Hydrograph



Summary for Pond B-1: Basin #1

Inflow Area = 2.485 ac, 4.79% Impervious, Inflow Depth = 2.56" for Current 10 yr event
 Inflow = 6.94 cfs @ 12.18 hrs, Volume= 0.530 af
 Outflow = 0.98 cfs @ 12.97 hrs, Volume= 0.374 af, Atten= 86%, Lag= 47.5 min
 Primary = 0.98 cfs @ 12.97 hrs, Volume= 0.374 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 209.83' @ 12.97 hrs Surf.Area= 10,975 sf Storage= 12,376 cf

Plug-Flow detention time= 443.3 min calculated for 0.374 af (71% of inflow)
 Center-of-Mass det. time= 341.6 min (1,176.8 - 835.2)

Volume	Invert	Avail.Storage	Storage Description
#1	208.30'	38,468 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.30	0	0	0
209.00	10,187	3,565	3,565
210.00	11,133	10,660	14,225
211.00	12,113	11,623	25,848
212.00	13,126	12,620	38,468

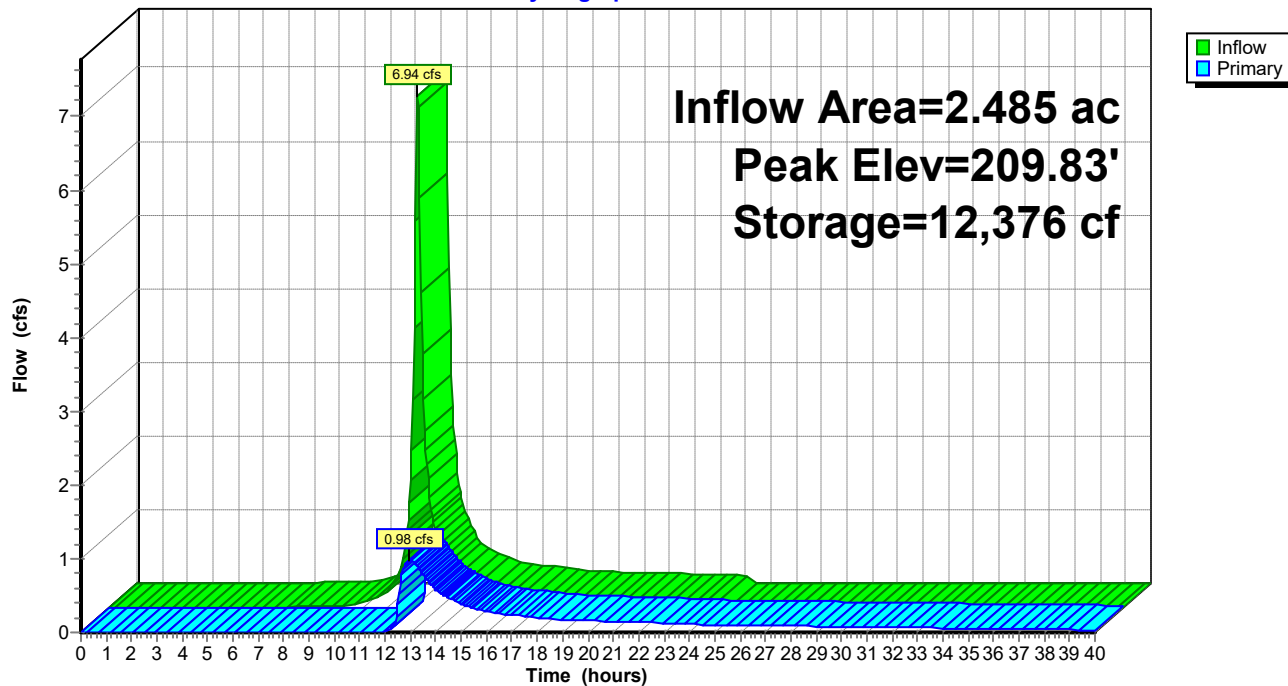
Device	Routing	Invert	Outlet Devices
#1	Primary	207.65'	18.0" Round Culvert L= 276.0' Ke= 0.500 Inlet / Outlet Invert= 207.65' / 204.00' S= 0.0132 ' / S= 0.0132 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	209.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	209.67'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	210.80'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.97 cfs @ 12.97 hrs HW=209.83' (Free Discharge)

1=Culvert (Passes 0.97 cfs of 10.18 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 3.60 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.85 cfs @ 1.32 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-1: Basin #1

Hydrograph



Summary for Pond B-10: Basin #10

Inflow Area = 1.674 ac, 56.63% Impervious, Inflow Depth = 3.81" for Current 10 yr event
 Inflow = 6.36 cfs @ 12.17 hrs, Volume= 0.532 af
 Outflow = 1.68 cfs @ 12.53 hrs, Volume= 0.433 af, Atten= 74%, Lag= 21.7 min
 Primary = 1.68 cfs @ 12.53 hrs, Volume= 0.433 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 181.22' @ 12.53 hrs Surf.Area= 6,030 sf Storage= 12,839 cf

Plug-Flow detention time= 495.4 min calculated for 0.432 af (81% of inflow)
 Center-of-Mass det. time= 417.7 min (1,195.3 - 777.6)

Volume	Invert	Avail.Storage	Storage Description
#1	178.30'	24,949 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.30	0	0	0
179.00	4,220	1,477	1,477
180.00	5,003	4,612	6,088
181.00	5,833	5,418	11,506
182.00	6,710	6,272	17,778
183.00	7,633	7,172	24,949

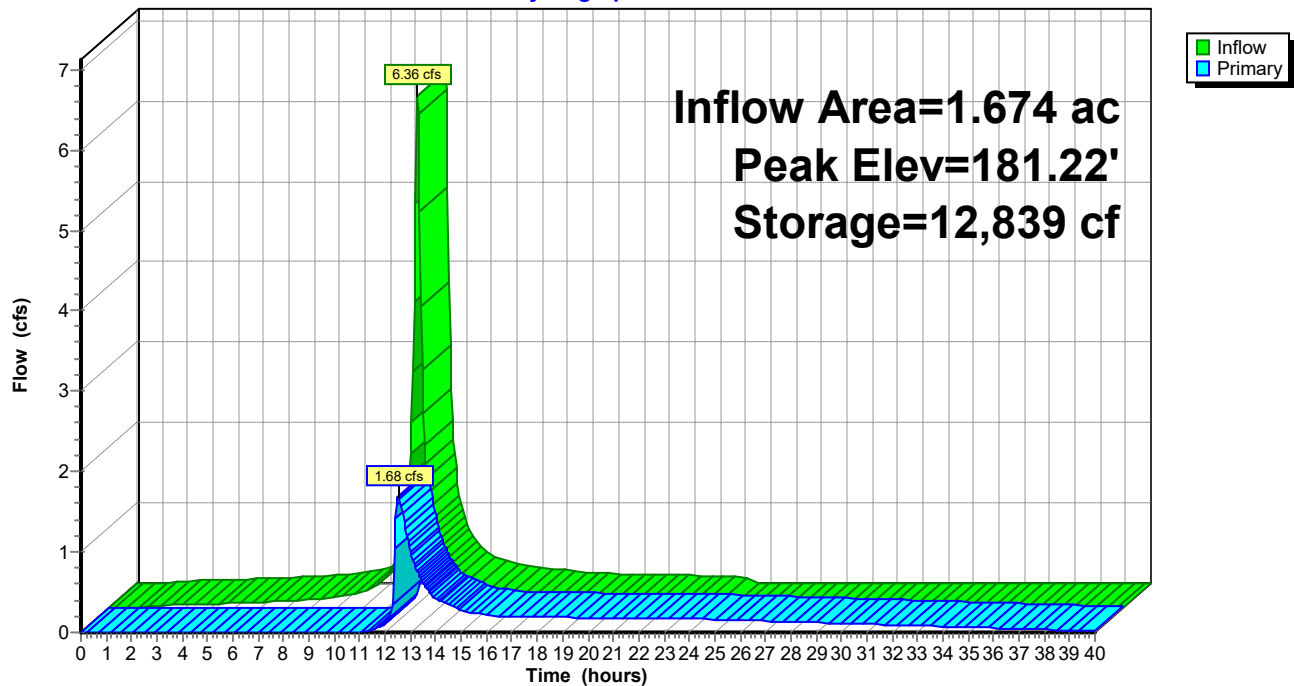
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 52.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 176.00' S= 0.0317 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.53'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	180.99'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.86'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.67 cfs @ 12.53 hrs HW=181.22' (Free Discharge)

1=Culvert (Passes 1.67 cfs of 14.30 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.21 cfs @ 6.07 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.47 cfs @ 1.58 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-10: Basin #10

Hydrograph



Summary for Pond B-11: Basin #11

Inflow Area = 2.668 ac, 34.97% Impervious, Inflow Depth = 3.29" for Current 10 yr event
 Inflow = 9.02 cfs @ 12.17 hrs, Volume= 0.732 af
 Outflow = 2.23 cfs @ 12.58 hrs, Volume= 0.602 af, Atten= 75%, Lag= 24.4 min
 Primary = 2.23 cfs @ 12.58 hrs, Volume= 0.602 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 182.64' @ 12.58 hrs Surf.Area= 6,835 sf Storage= 16,931 cf

Plug-Flow detention time= 511.2 min calculated for 0.602 af (82% of inflow)
 Center-of-Mass det. time= 434.0 min (1,230.4 - 796.3)

Volume	Invert	Avail.Storage	Storage Description
#1	179.30'	44,897 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.30	0	0	0
180.00	4,780	1,673	1,673
181.00	5,522	5,151	6,824
182.00	6,306	5,914	12,738
183.00	7,135	6,721	19,458
184.00	8,007	7,571	27,029
185.00	8,923	8,465	35,494
186.00	9,882	9,403	44,897

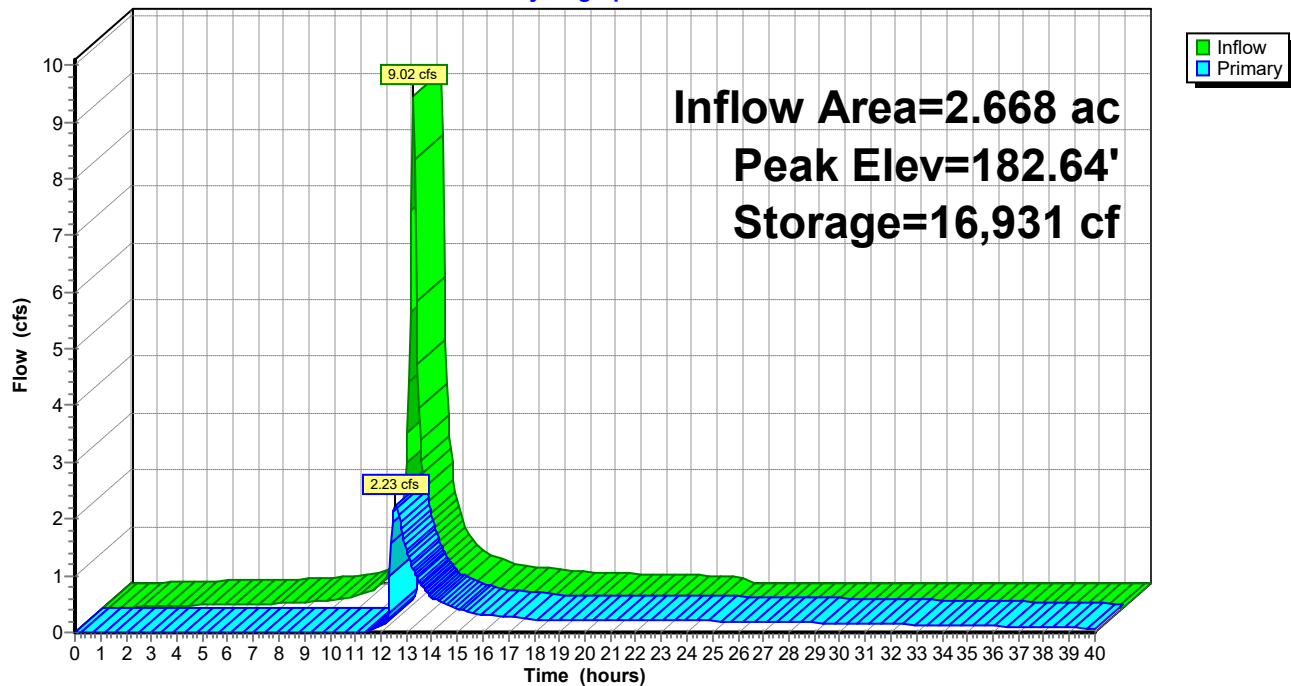
Device	Routing	Invert	Outlet Devices
#1	Primary	178.65'	18.0" Round Culvert L= 131.0' Ke= 0.500 Inlet / Outlet Invert= 178.65' / 178.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	180.47'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.35'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	183.91'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.22 cfs @ 12.58 hrs HW=182.64' (Free Discharge)

- 1=Culvert (Passes 2.22 cfs of 12.73 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.24 cfs @ 6.92 fps)
- 3=Sharp-Crested Rectangular Weir (Weir Controls 1.99 cfs @ 1.75 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-11: Basin #11

Hydrograph



Summary for Pond B-12: Basin #12

Inflow Area = 2.004 ac, 68.31% Impervious, Inflow Depth = 4.10" for Current 10 yr event
 Inflow = 8.07 cfs @ 12.17 hrs, Volume= 0.684 af
 Outflow = 4.02 cfs @ 12.34 hrs, Volume= 0.560 af, Atten= 50%, Lag= 10.2 min
 Primary = 4.02 cfs @ 12.34 hrs, Volume= 0.560 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 203.20' @ 12.34 hrs Surf.Area= 6,261 sf Storage= 13,573 cf

Plug-Flow detention time= 213.3 min calculated for 0.560 af (82% of inflow)
 Center-of-Mass det. time= 135.9 min (905.4 - 769.5)

Volume	Invert	Avail.Storage	Storage Description
#1	200.30'	26,105 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.30	0	0	0
201.00	4,623	1,618	1,618
202.00	5,350	4,987	6,605
203.00	6,105	5,728	12,332
204.00	6,883	6,494	18,826
205.00	7,674	7,279	26,105

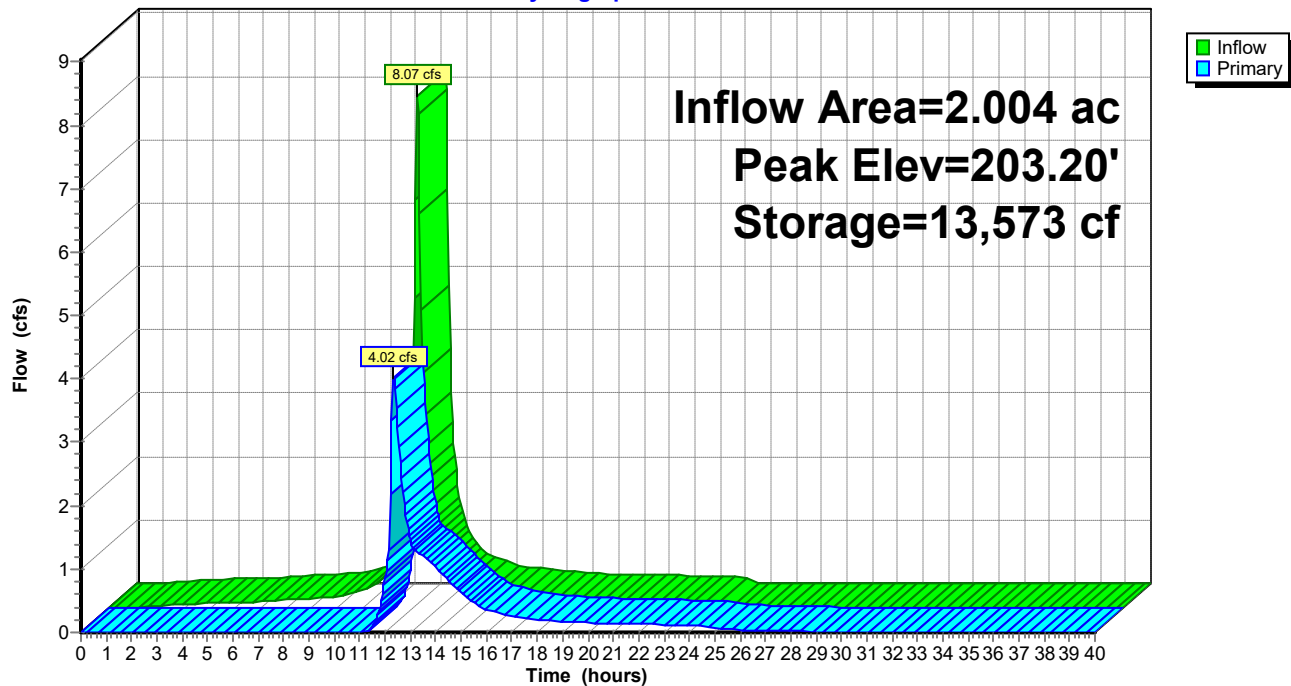
Device	Routing	Invert	Outlet Devices
#1	Primary	199.65'	18.0" Round Culvert L= 238.0' Ke= 0.500 Inlet / Outlet Invert= 199.65' / 195.50' S= 0.0174 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.76'	7.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	202.87'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	203.96'	50.0' long + 3.0 ' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.99 cfs @ 12.34 hrs HW=203.20' (Free Discharge)

1=Culvert (Passes 3.99 cfs of 14.24 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.57 cfs @ 5.11 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 2.43 cfs @ 1.88 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-12: Basin #12

Hydrograph



Summary for Pond B-13: Basin #13

Inflow Area = 2.350 ac, 62.43% Impervious, Inflow Depth = 3.95" for Current 10 yr event
 Inflow = 9.20 cfs @ 12.17 hrs, Volume= 0.774 af
 Outflow = 1.68 cfs @ 12.67 hrs, Volume= 0.558 af, Atten= 82%, Lag= 30.2 min
 Primary = 1.68 cfs @ 12.67 hrs, Volume= 0.558 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 193.99' @ 12.67 hrs Surf.Area= 9,642 sf Storage= 20,270 cf

Plug-Flow detention time= 573.5 min calculated for 0.558 af (72% of inflow)
 Center-of-Mass det. time= 476.9 min (1,250.3 - 773.4)

Volume	Invert	Avail.Storage	Storage Description
#1	191.30'	41,458 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
191.30	0	0	0
192.00	7,975	2,791	2,791
193.00	8,804	8,390	11,181
194.00	9,654	9,229	20,410
195.00	10,522	10,088	30,498
196.00	11,399	10,961	41,458

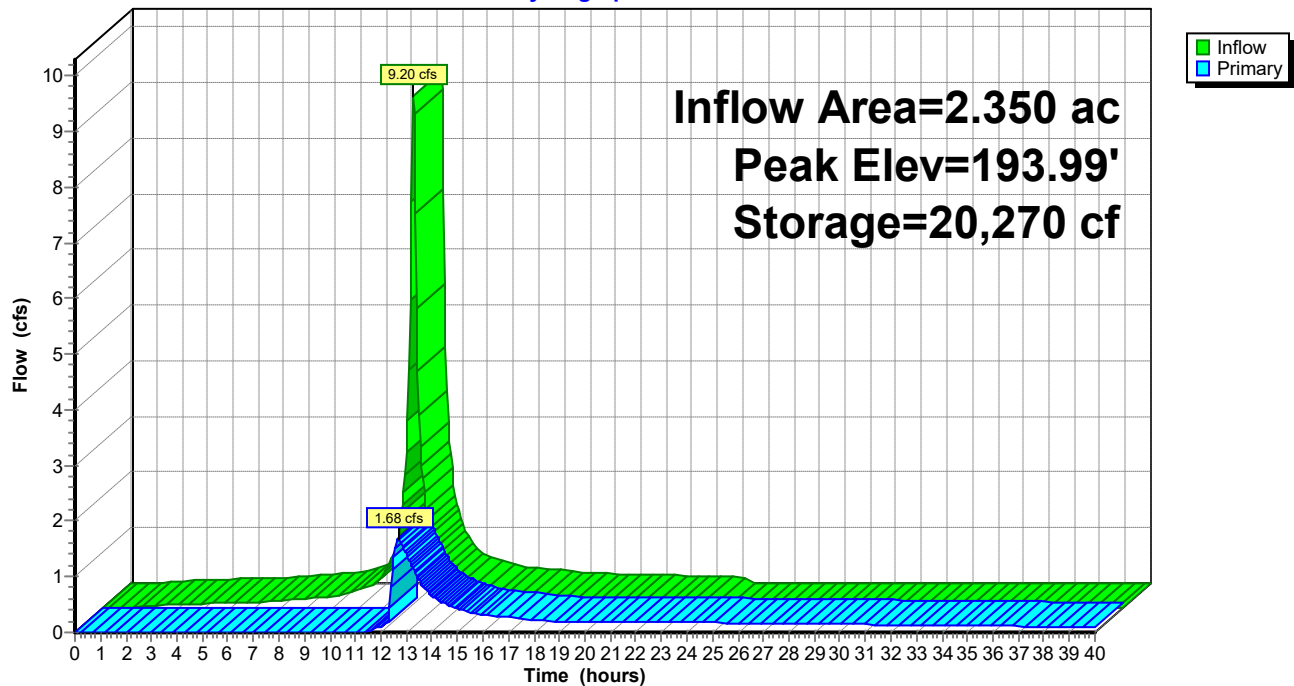
Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 57.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0465 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.37'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.96'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.67 cfs @ 12.67 hrs HW=193.98' (Free Discharge)

1=Culvert (Passes 1.67 cfs of 13.68 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.20 cfs @ 5.92 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.47 cfs @ 1.58 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-13: Basin #13

Hydrograph



Summary for Pond B-14: Basin #14

Inflow Area = 2.148 ac, 23.65% Impervious, Inflow Depth = 3.02" for Current 10 yr event
 Inflow = 6.79 cfs @ 12.17 hrs, Volume= 0.540 af
 Outflow = 1.63 cfs @ 12.60 hrs, Volume= 0.459 af, Atten= 76%, Lag= 25.6 min
 Primary = 1.63 cfs @ 12.60 hrs, Volume= 0.459 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 193.50' @ 12.60 hrs Surf.Area= 6,929 sf Storage= 12,048 cf

Plug-Flow detention time= 476.2 min calculated for 0.459 af (85% of inflow)
 Center-of-Mass det. time= 406.7 min (1,215.4 - 808.7)

Volume	Invert	Avail.Storage	Storage Description
#1	191.30'	30,883 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
191.30	0	0	0
192.00	6,224	2,178	2,178
193.00	6,689	6,457	8,635
194.00	7,167	6,928	15,563
195.00	7,657	7,412	22,975
196.00	8,160	7,909	30,883

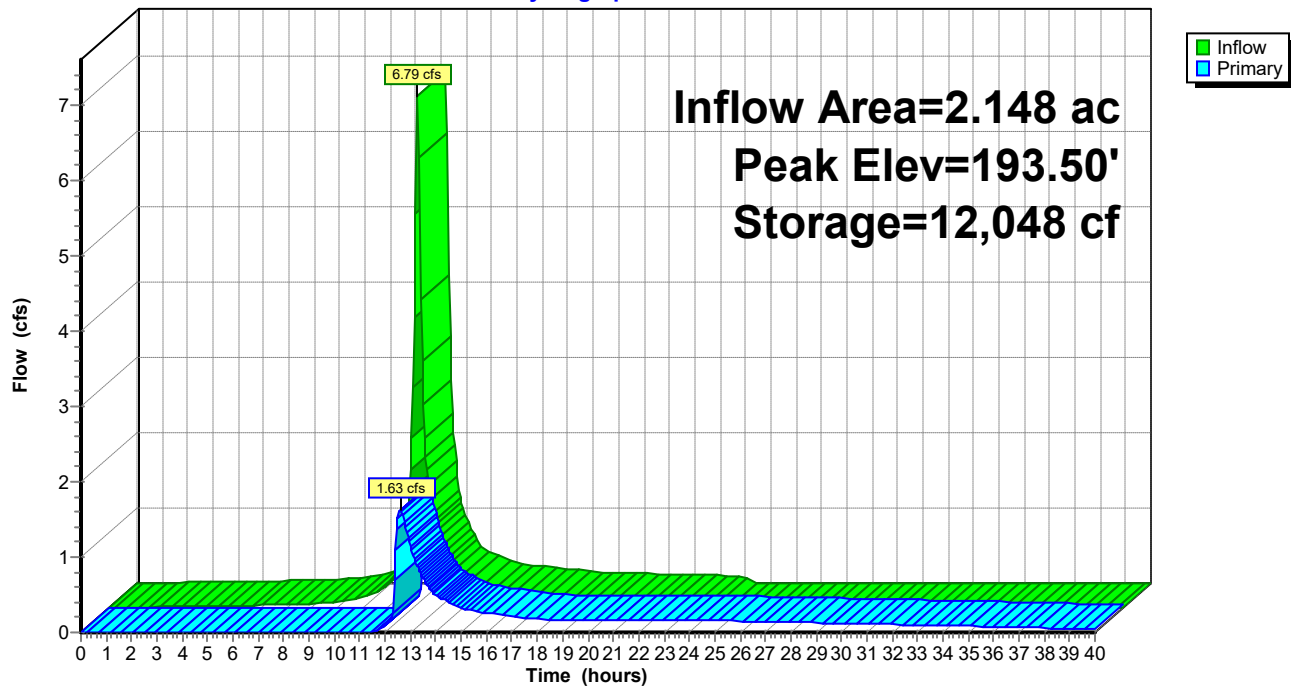
Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 194.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0137 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.04'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.27'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.44'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.63 cfs @ 12.60 hrs HW=193.50' (Free Discharge)

1=Culvert (Passes 1.63 cfs of 12.33 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.19 cfs @ 5.61 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.44 cfs @ 1.57 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-14: Basin #14

Hydrograph



Summary for Pond B-15: Basin #15

Inflow Area = 2.365 ac, 58.73% Impervious, Inflow Depth = 3.86" for Current 10 yr event
 Inflow = 9.08 cfs @ 12.17 hrs, Volume= 0.762 af
 Outflow = 4.65 cfs @ 12.34 hrs, Volume= 0.634 af, Atten= 49%, Lag= 9.8 min
 Primary = 4.65 cfs @ 12.34 hrs, Volume= 0.634 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 198.98' @ 12.34 hrs Surf.Area= 5,371 sf Storage= 14,757 cf

Plug-Flow detention time= 205.3 min calculated for 0.634 af (83% of inflow)
 Center-of-Mass det. time= 131.1 min (907.1 - 776.1)

Volume	Invert	Avail.Storage	Storage Description
#1	195.30'	26,898 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
195.30	0	0	0
196.00	3,706	1,297	1,297
197.00	4,236	3,971	5,268
198.00	4,795	4,516	9,784
199.00	5,384	5,090	14,873
200.00	6,002	5,693	20,566
201.00	6,662	6,332	26,898

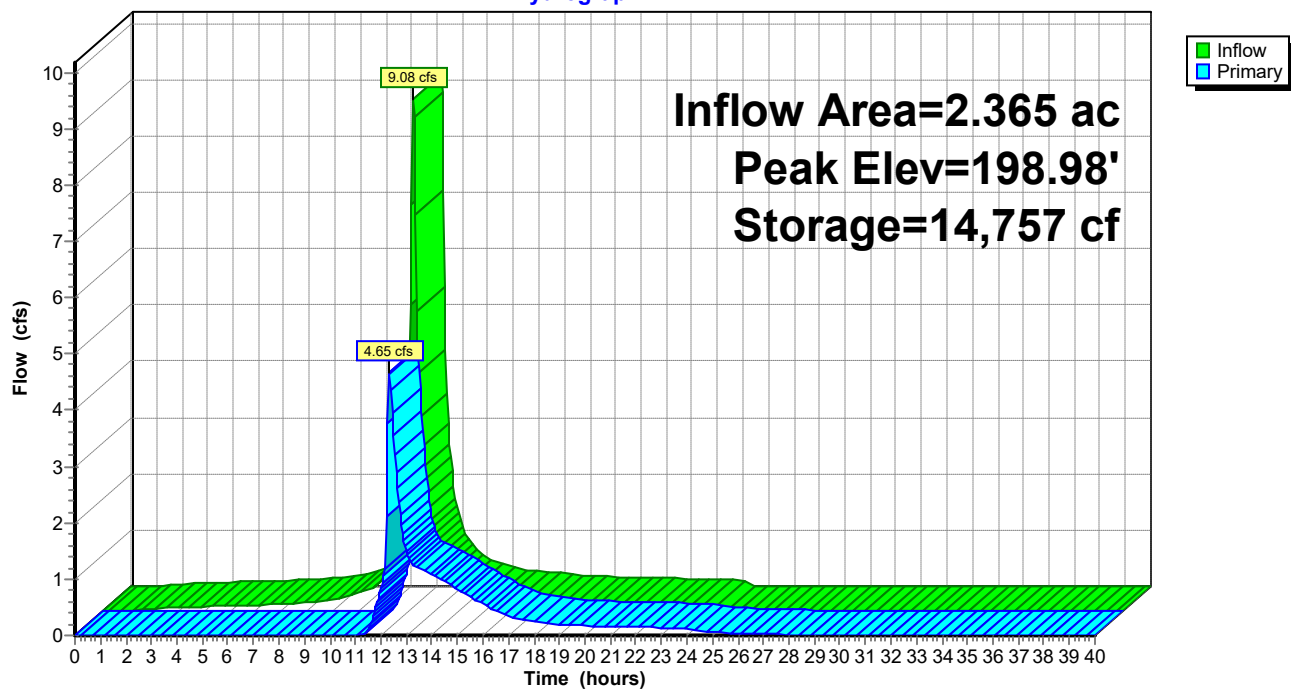
Device	Routing	Invert	Outlet Devices
#1	Primary	194.65'	18.0" Round Culvert L= 203.0' Ke= 0.500 Inlet / Outlet Invert= 194.65' / 192.00' S= 0.0131 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	197.06'	6.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	198.58'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.00'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=4.61 cfs @ 12.34 hrs HW=198.98' (Free Discharge)

1=Culvert (Passes 4.61 cfs of 14.53 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.42 cfs @ 6.17 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 3.19 cfs @ 2.06 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-15: Basin #15

Hydrograph



Summary for Pond B-16: Basin #16

Inflow Area = 2.685 ac, 43.39% Impervious, Inflow Depth = 3.49" for Current 10 yr event
 Inflow = 9.51 cfs @ 12.17 hrs, Volume= 0.782 af
 Outflow = 1.50 cfs @ 12.77 hrs, Volume= 0.559 af, Atten= 84%, Lag= 35.8 min
 Primary = 1.50 cfs @ 12.77 hrs, Volume= 0.559 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.53' @ 12.77 hrs Surf.Area= 11,512 sf Storage= 20,055 cf

Plug-Flow detention time= 554.4 min calculated for 0.558 af (71% of inflow)
 Center-of-Mass det. time= 457.0 min (1,245.4 - 788.4)

Volume	Invert	Avail.Storage	Storage Description
#1	177.30'	51,430 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
177.30	0	0	0
178.00	10,122	3,543	3,543
179.00	11,022	10,572	14,115
180.00	11,951	11,487	25,601
181.00	12,907	12,429	38,030
182.00	13,893	13,400	51,430

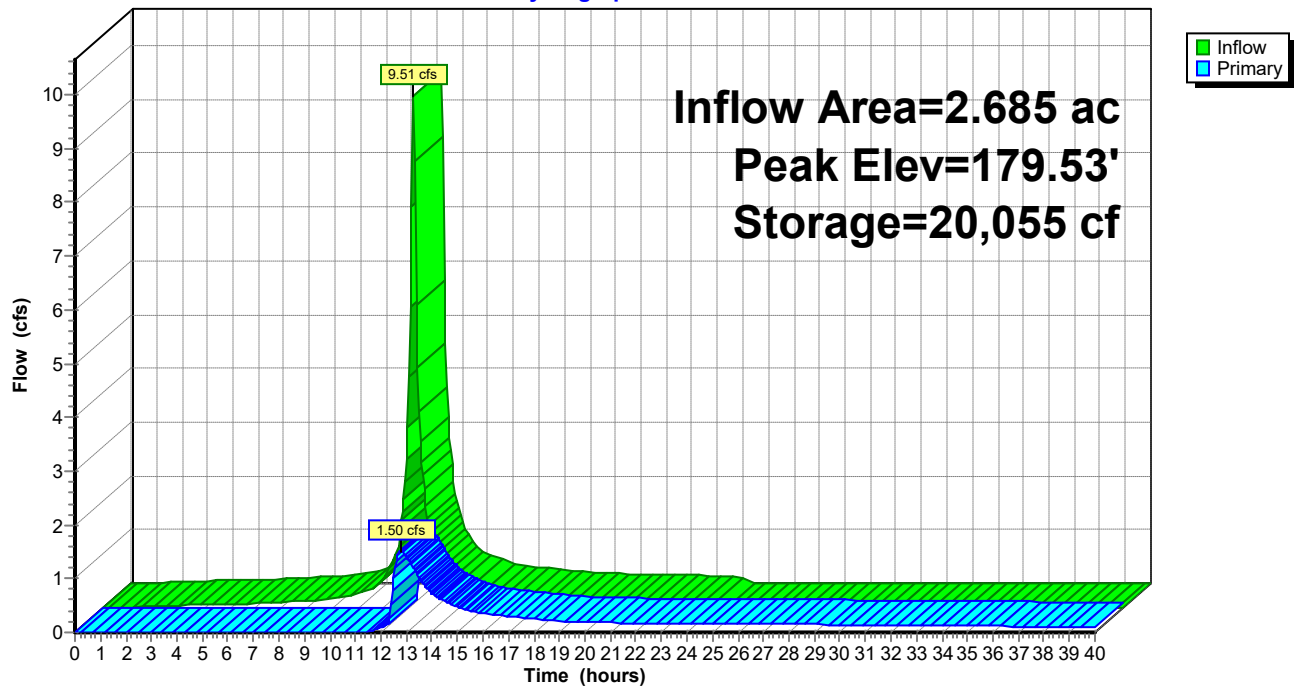
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	178.13'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.31'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.57'	50.0' long + 3.0 ' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.49 cfs @ 12.77 hrs HW=179.53' (Free Discharge)

- 1=Culvert (Passes 1.49 cfs of 12.41 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.19 cfs @ 5.47 fps)
- 3=Sharp-Crested Rectangular Weir (Weir Controls 1.31 cfs @ 1.52 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16: Basin #16

Hydrograph



Summary for Pond B-17: Basin #17

Inflow Area = 2.791 ac, 34.54% Impervious, Inflow Depth = 3.28" for Current 10 yr event
 Inflow = 9.41 cfs @ 12.17 hrs, Volume= 0.763 af
 Outflow = 1.14 cfs @ 13.04 hrs, Volume= 0.524 af, Atten= 88%, Lag= 51.8 min
 Primary = 1.14 cfs @ 13.04 hrs, Volume= 0.524 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.01' @ 13.04 hrs Surf.Area= 16,054 sf Storage= 20,013 cf

Plug-Flow detention time= 550.6 min calculated for 0.523 af (69% of inflow)
 Center-of-Mass det. time= 448.4 min (1,245.2 - 796.8)

Volume	Invert	Avail.Storage	Storage Description
#1	178.30'	77,758 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.30	0	0	0
179.00	13,952	4,883	4,883
180.00	16,036	14,994	19,877
181.00	18,176	17,106	36,983
182.00	20,373	19,275	56,258
183.00	22,627	21,500	77,758

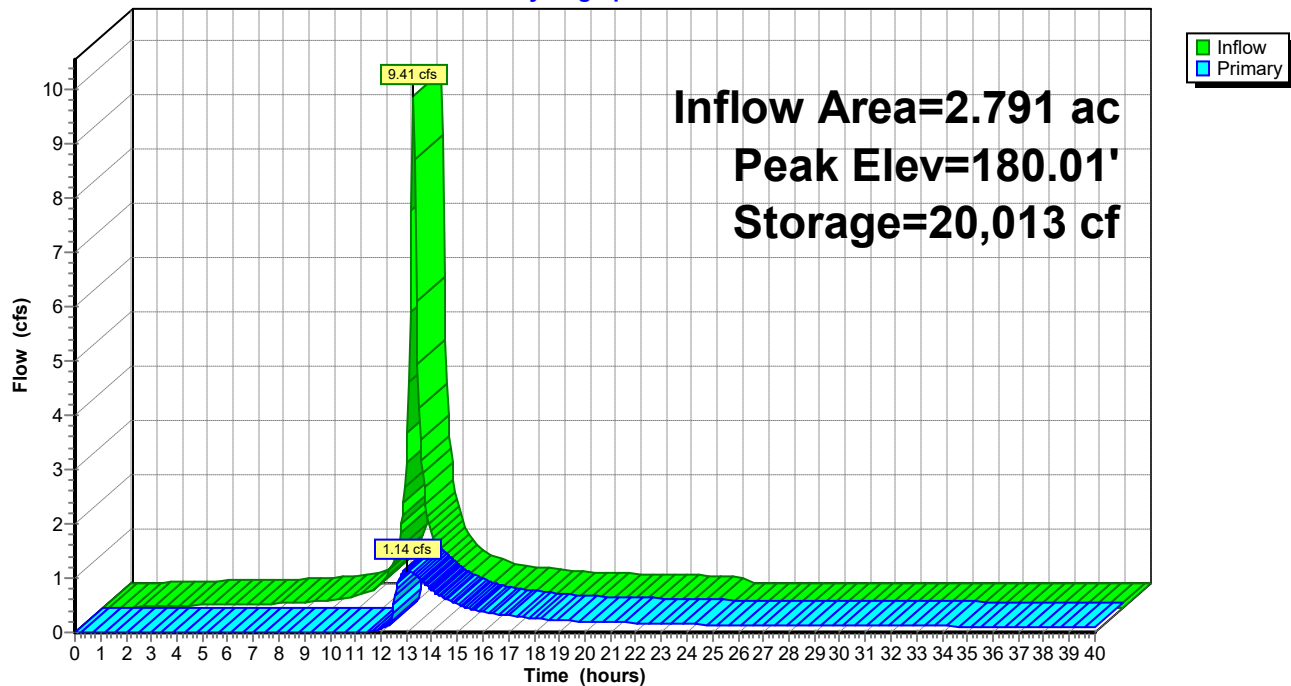
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	178.95'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.83'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.93'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.14 cfs @ 13.04 hrs HW=180.01' (Free Discharge)

1=Culvert (Passes 1.14 cfs of 10.79 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.16 cfs @ 4.70 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.98 cfs @ 1.38 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-17: Basin #17

Hydrograph



Summary for Pond B-18: Basin #18

Inflow Area = 2.458 ac, 47.56% Impervious, Inflow Depth = 3.59" for Current 10 yr event
 Inflow = 8.91 cfs @ 12.17 hrs, Volume= 0.736 af
 Outflow = 6.85 cfs @ 12.26 hrs, Volume= 0.627 af, Atten= 23%, Lag= 5.3 min
 Primary = 6.85 cfs @ 12.26 hrs, Volume= 0.627 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 198.83' @ 12.26 hrs Surf.Area= 3,663 sf Storage= 9,082 cf

Plug-Flow detention time= 134.1 min calculated for 0.626 af (85% of inflow)
 Center-of-Mass det. time= 65.6 min (850.4 - 784.8)

Volume	Invert	Avail.Storage	Storage Description
#1	194.65'	18,838 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
194.65	0	0	0
195.00	1,068	187	187
196.00	1,693	1,381	1,567
197.00	2,352	2,023	3,590
198.00	3,059	2,706	6,295
199.00	3,788	3,424	9,719
200.00	4,551	4,170	13,888
201.00	5,348	4,950	18,838

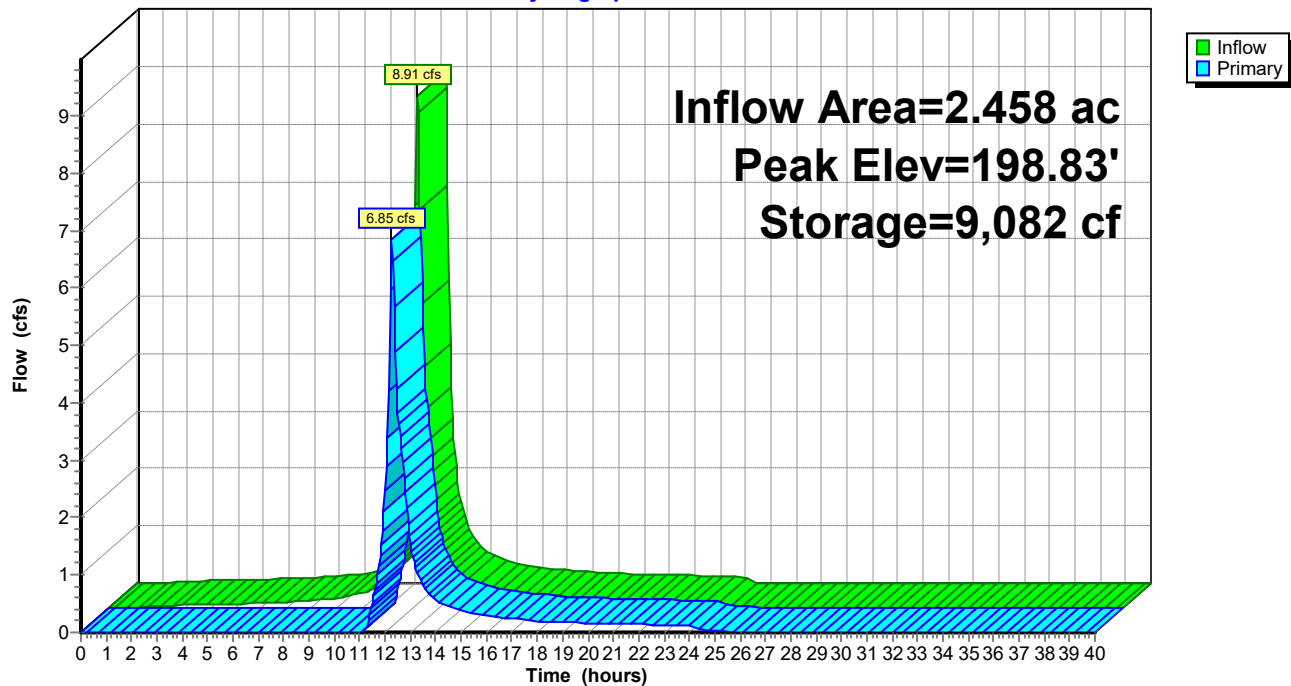
Device	Routing	Invert	Outlet Devices
#1	Primary	194.65'	18.0" Round Culvert L= 102.0' Ke= 0.500 Inlet / Outlet Invert= 194.65' / 194.14' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	197.47'	20.0" W x 6.5" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	198.51'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.00'	50.0' long + 3.0' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=6.74 cfs @ 12.26 hrs HW=198.82' (Free Discharge)

1=Culvert (Passes 6.74 cfs of 13.79 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 4.51 cfs @ 4.99 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 2.24 cfs @ 1.82 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-18: Basin #18

Hydrograph



Summary for Pond B-19: Basin #19

Inflow Area = 0.934 ac, 40.79% Impervious, Inflow Depth = 3.43" for Current 10 yr event
 Inflow = 3.26 cfs @ 12.17 hrs, Volume= 0.267 af
 Outflow = 1.71 cfs @ 12.33 hrs, Volume= 0.230 af, Atten= 48%, Lag= 9.6 min
 Primary = 1.71 cfs @ 12.33 hrs, Volume= 0.230 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 203.51' @ 12.33 hrs Surf.Area= 3,300 sf Storage= 4,929 cf

Plug-Flow detention time= 198.4 min calculated for 0.230 af (86% of inflow)
 Center-of-Mass det. time= 131.9 min (922.6 - 790.7)

Volume	Invert	Avail.Storage	Storage Description
#1	201.30'	10,696 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.30	0	0	0
202.00	2,224	778	778
203.00	2,930	2,577	3,355
204.00	3,663	3,297	6,652
205.00	4,425	4,044	10,696

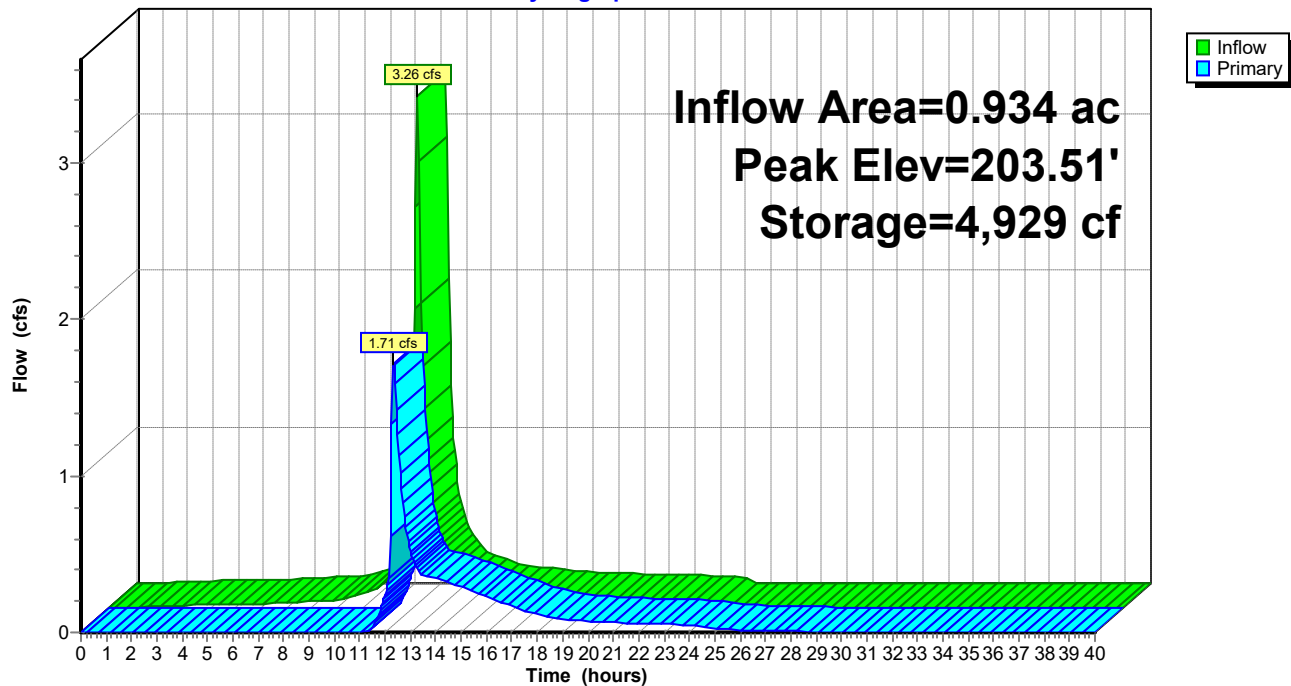
Device	Routing	Invert	Outlet Devices
#1	Primary	200.65'	18.0" Round Culvert L= 214.0' Ke= 0.500 Inlet / Outlet Invert= 200.65' / 199.57' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	202.35'	4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.29'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	203.98'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.69 cfs @ 12.33 hrs HW=203.50' (Free Discharge)

1=Culvert (Passes 1.69 cfs of 9.51 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.42 cfs @ 4.78 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.28 cfs @ 1.51 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-19: Basin #19

Hydrograph



Summary for Pond B-2: Basin #2

Inflow Area = 1.865 ac, 43.43% Impervious, Inflow Depth = 3.49" for Current 10 yr event
 Inflow = 6.61 cfs @ 12.17 hrs, Volume= 0.543 af
 Outflow = 1.69 cfs @ 12.56 hrs, Volume= 0.455 af, Atten= 74%, Lag= 23.1 min
 Primary = 1.69 cfs @ 12.56 hrs, Volume= 0.455 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 210.22' @ 12.56 hrs Surf.Area= 8,646 sf Storage= 12,509 cf

Plug-Flow detention time= 381.2 min calculated for 0.455 af (84% of inflow)
 Center-of-Mass det. time= 308.1 min (1,096.5 - 788.3)

Volume	Invert	Avail.Storage	Storage Description
#1	208.30'	29,385 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.30	0	0	0
209.00	7,501	2,625	2,625
210.00	8,431	7,966	10,591
211.00	9,390	8,911	19,502
212.00	10,376	9,883	29,385

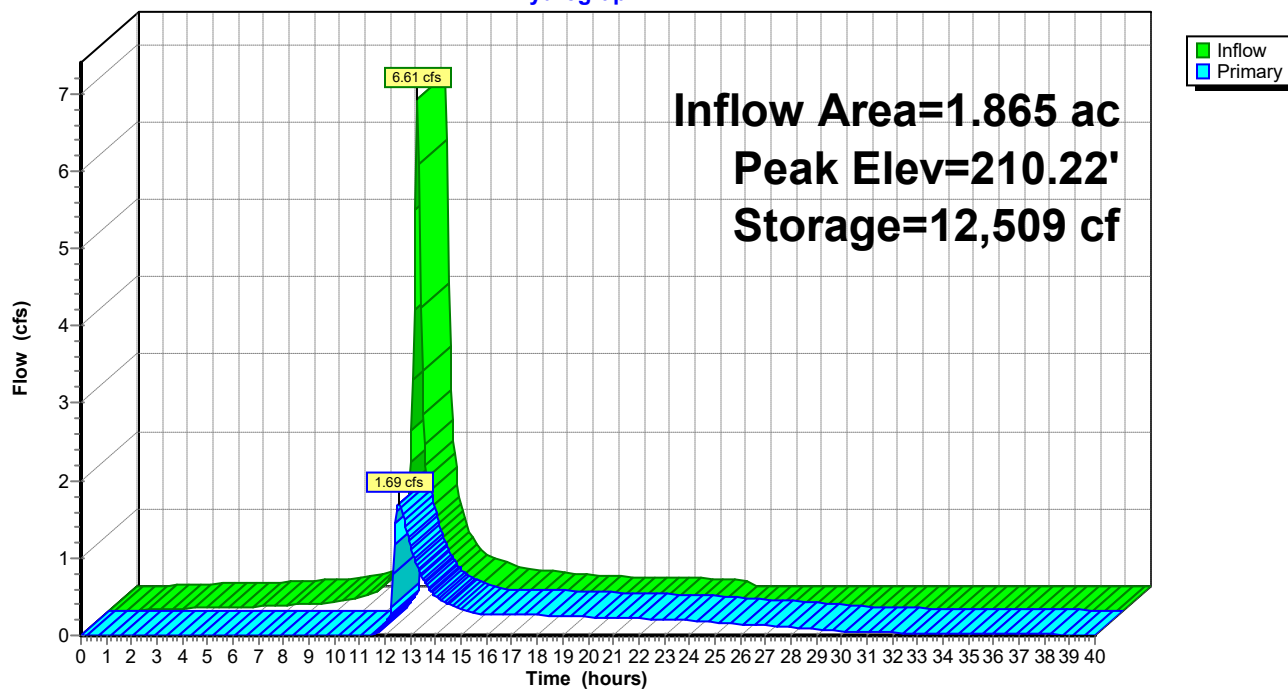
Device	Routing	Invert	Outlet Devices
#1	Primary	207.65'	18.0" Round Culvert L= 202.0' Ke= 0.500 Inlet / Outlet Invert= 207.65' / 204.00' S= 0.0181 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	209.10'	3.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	210.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	211.00'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.69 cfs @ 12.56 hrs HW=210.22' (Free Discharge)

1=Culvert (Passes 1.69 cfs of 11.49 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.32 cfs @ 4.76 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.37 cfs @ 1.55 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-2: Basin #2

Hydrograph



Summary for Pond B-20: Basin #20

Inflow Area = 2.679 ac, 47.56% Impervious, Inflow Depth = 3.59" for Current 10 yr event
 Inflow = 9.71 cfs @ 12.17 hrs, Volume= 0.802 af
 Outflow = 5.95 cfs @ 12.30 hrs, Volume= 0.682 af, Atten= 39%, Lag= 7.8 min
 Primary = 5.95 cfs @ 12.30 hrs, Volume= 0.682 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 152.81' @ 12.30 hrs Surf.Area= 7,363 sf Storage= 12,424 cf

Plug-Flow detention time= 156.5 min calculated for 0.682 af (85% of inflow)
 Center-of-Mass det. time= 86.9 min (871.7 - 784.8)

Volume	Invert	Avail.Storage	Storage Description
#1	150.87'	35,230 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.87	0	0	0
151.00	5,926	385	385
152.00	6,706	6,316	6,701
153.00	7,514	7,110	13,811
154.00	8,347	7,931	21,742
155.00	9,205	8,776	30,518
155.50	9,643	4,712	35,230

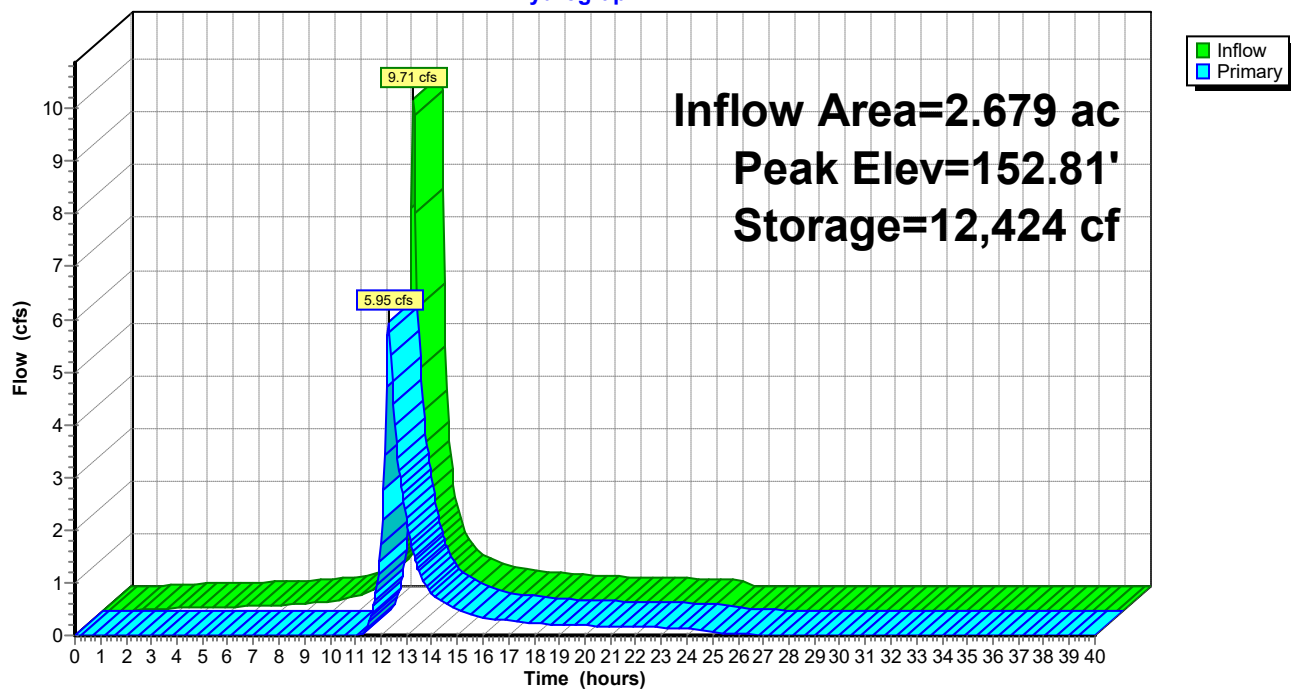
Device	Routing	Invert	Outlet Devices
#1	Primary	150.87'	18.0" Round Culvert L= 174.0' Ke= 0.500 Inlet / Outlet Invert= 150.87' / 150.00' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	151.78'	20.0" W x 7.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	152.53'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	154.32'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=5.94 cfs @ 12.30 hrs HW=152.81' (Free Discharge)

1=Culvert (Passes 5.94 cfs of 7.93 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 4.00 cfs @ 4.12 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.94 cfs @ 1.74 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-20: Basin #20

Hydrograph



Summary for Pond B-21: Basin #21

Inflow Area = 2.680 ac, 41.60% Impervious, Inflow Depth = 3.45" for Current 10 yr event
 Inflow = 9.40 cfs @ 12.17 hrs, Volume= 0.771 af
 Outflow = 2.12 cfs @ 12.61 hrs, Volume= 0.612 af, Atten= 77%, Lag= 26.3 min
 Primary = 2.12 cfs @ 12.61 hrs, Volume= 0.612 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 152.93' @ 12.61 hrs Surf.Area= 7,727 sf Storage= 18,546 cf

Plug-Flow detention time= 532.6 min calculated for 0.611 af (79% of inflow)
 Center-of-Mass det. time= 449.9 min (1,239.8 - 790.0)

Volume	Invert	Avail.Storage	Storage Description
#1	149.90'	42,109 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
149.90	0	0	0
150.00	4,848	242	242
151.00	5,776	5,312	5,554
152.00	6,761	6,269	11,823
153.00	7,802	7,282	19,104
154.00	8,900	8,351	27,455
155.00	10,054	9,477	36,932
155.50	10,653	5,177	42,109

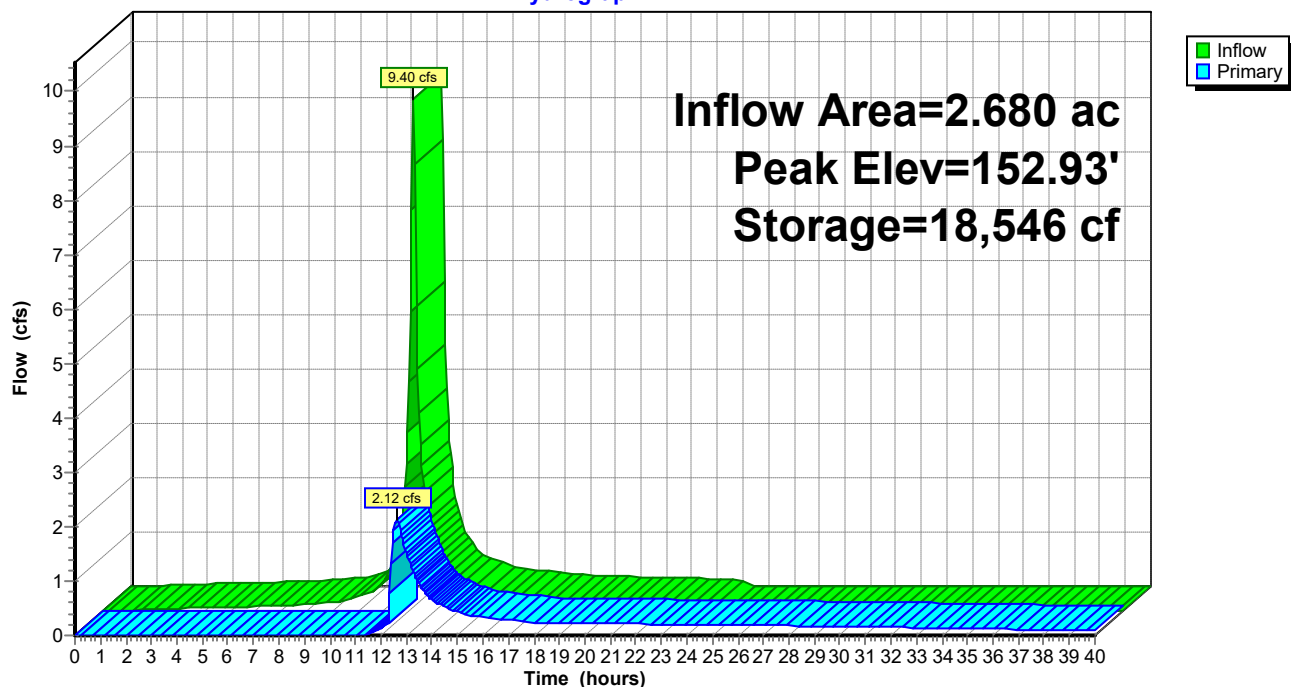
Device	Routing	Invert	Outlet Devices
#1	Primary	149.90'	18.0" Round Culvert L= 182.0' Ke= 0.500 Inlet / Outlet Invert= 149.90' / 149.00' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	150.84'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	152.65'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	154.16'	50.0' long + 3.0 ' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.12 cfs @ 12.61 hrs HW=152.93' (Free Discharge)

- 1=Culvert (Passes 2.12 cfs of 10.06 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.23 cfs @ 6.78 fps)
- 3=Sharp-Crested Rectangular Weir (Weir Controls 1.89 cfs @ 1.72 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-21: Basin #21

Hydrograph



Summary for Pond B-22: Basin #22

Inflow Area = 2.743 ac, 30.19% Impervious, Inflow Depth = 3.17" for Current 10 yr event
 Inflow = 9.02 cfs @ 12.17 hrs, Volume= 0.726 af
 Outflow = 1.81 cfs @ 12.66 hrs, Volume= 0.574 af, Atten= 80%, Lag= 29.3 min
 Primary = 1.81 cfs @ 12.66 hrs, Volume= 0.574 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 149.88' @ 12.66 hrs Surf.Area= 8,873 sf Storage= 17,240 cf

Plug-Flow detention time= 523.0 min calculated for 0.574 af (79% of inflow)
 Center-of-Mass det. time= 439.2 min (1,240.5 - 801.3)

Volume	Invert	Avail.Storage	Storage Description
#1	147.30'	50,528 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.30	0	0	0
148.00	6,928	2,425	2,425
149.00	7,937	7,433	9,857
150.00	9,003	8,470	18,327
151.00	10,125	9,564	27,891
152.00	11,304	10,715	38,606
153.00	12,540	11,922	50,528

Device	Routing	Invert	Outlet Devices
#1	Primary	147.30'	18.0" Round Culvert L= 169.0' Ke= 0.500 Inlet / Outlet Invert= 147.30' / 146.00' S= 0.0077 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	148.18'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	149.63'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	151.18'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.80 cfs @ 12.66 hrs HW=149.88' (Free Discharge)

- 1=Culvert (Passes 1.80 cfs of 10.21 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.21 cfs @ 6.08 fps)
- 3=Sharp-Crested Rectangular Weir (Weir Controls 1.59 cfs @ 1.63 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-22: Basin #22

