

MEMORANDUM

TO: Peter Ten Kate, P.E.
FROM: Sean Savage
SUBJECT: Stormwater Report Memo

DATE: August 7, 2023
PROJECT NO.: 19-720
PROJECT NAME: Spectrum 360

This memo has been prepared for the purpose of demonstrating that the peak flow volume has remain unchanged between the January 11, 2023 Stormwater Report which utilized the Delmarva Hydrograph, and the August 7, 2023 Stormwater Report which utilizes the SCS Hydrograph.

Table 5 – Afterglow Avenue (DA-1):

January 11, 2023 Stormwater Report (Delmarva Hydrograph)

Table 5: Pre-Development and Post-Development Peak Flow Rate and Volume Summary to Afterglow Ave

Storm Event (yr)	Pre-Development Peak Flow Rate (cfs)	Post-Development Peak Flow Rate (cfs)	Pre-Development Peak Volume (af)	Post-Development Peak Flow Volume (af)
2	0.99	0.57	0.215	0.109
10	2.34	1.35	0.471	0.239
100	5.41	3.12	1.059	0.539

August 7, 2023 Stormwater Report (SCS Hydrograph)

Table 5: Pre-Development and Post-Development Peak Flow Rate and Volume Summary to Afterglow Ave (DA-1)

Storm Event (yr)	Pre-Development Peak Flow Rate (cfs)	Post-Development Peak Flow Rate (cfs)	Pre-Development Peak Volume (af)	Post-Development Peak Flow Volume (af)
2	1.46	0.80	0.207	0.101
10	3.39	1.85	0.453	0.222
100	7.68	4.19	1.019	0.500

Note that the drainage area for DA-1 has been revised from the January 11, 2023 stormwater report which attributes to the change in Post-Development Peak Flow Volume.

Table 7 – Overland to Bloomfield (DA-3):

January 11, 2023 Stormwater Report (Delmarva Hydrograph)

**Table 7: : Pre-Development and Post-Development Peak Flow Rate and Volume
Summary Overland to Bloomfield Ave**

Storm Event (yr)	Pre-Development Peak Flow Rate (cfs)	Post-Development Peak Flow Rate (cfs)	Pre-Development Peak Volume (af)	Post-Development Peak Flow Volume (af)
2	1.36	1.19	0.193	0.174
10	2.98	2.81	0.399	0.382
100	6.56	6.43	0.866	0.862

August 7, 2023 Stormwater Report (SCS Hydrograph)

**Table 7: : Pre-Development and Post-Development Peak Flow Rate and Volume
Summary Overland to Bloomfield Ave (DA-3)**

Storm Event (yr)	Pre-Development Peak Flow Rate (cfs)	Post-Development Peak Flow Rate (cfs)	Pre-Development Peak Volume (af)	Post-Development Peak Flow Volume (af)
2	1.93	1.71	0.193	0.174
10	4.16	3.95	0.399	0.382
100	9.05	8.90	0.866	0.862

As seen from the January 11, 2023 stormwater report (Delmarva Hydrograph) to the August 7, 2023 Stormwater report (SCS Hydrograph), the Pre- and Post-Development Peak flow volumes remain the same after switching from the Delmarva Hydrograph to the SCS Hydrograph.

Table 8 – Parkhurst Place (DA-4):

January 11, 2023 Stormwater Report (Delmarva Hydrograph)

Table 8: Pre-Development and Post-Development Peak Flow Rate and Volume Summary to Parkhurst Place

Storm Event (yr)	Pre-Development Peak Flow Rate (cfs)	Post-Development Peak Flow Rate (cfs)	Pre-Development Peak Volume (af)	Post-Development Peak Flow Volume (af)
2	0.35	0.30	0.064	0.053
10	0.83	0.72	0.139	0.119
100	1.93	1.69	0.312	0.272

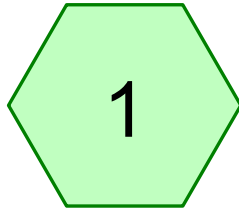
August 7, 2023 Stormwater Report (SCS Hydrograph)

Table 8: Pre-Development and Post-Development Peak Flow Rate and Volume Summary to Parkhurst Place (DA-4)

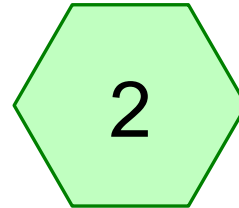
Storm Event (yr)	Pre-Development Peak Flow Rate (cfs)	Post-Development Peak Flow Rate (cfs)	Pre-Development Peak Volume (af)	Post-Development Peak Flow Volume (af)
2	0.53	0.44	0.064	0.053
10	1.22	1.06	0.139	0.119
100	2.77	2.43	0.312	0.272

As seen from the January 11, 2023 stormwater report (Delmarva Hydrograph) to the August 7, 2023 Stormwater report (SCS Hydrograph), the Pre- and Post-Development Peak flow volumes remain the same after switching from the Delmarva Hydrograph to the SCS Hydrograph.

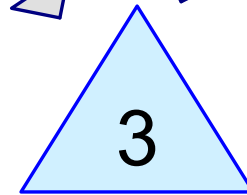
**HYDROCAD FROM JANUARY 11, 2023 STORMWATER
MANAGEMENT REPORT – DELMARVA UNIT HYDROGRAPH
AFTERGLOW AVENUE (DA-1)**



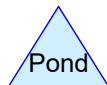
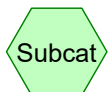
Afterglow-Perv



Off-Site Afterglow-Perv



Prop. DA-1 Overland to
Afterglow



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Page 2

Summary for Subcatchment 1: Afterglow-Perv

Runoff = 0.51 cfs @ 12.41 hrs, Volume= 0.097 af, Depth= 1.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2-yr Rainfall=3.42"

Area (ac)	CN	Description
1.030	72	Woods/grass comb., Good, HSG C
0.060	74	>75% Grass cover, Good, HSG C
1.090	72	Weighted Average
1.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	100	0.0230	0.08		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.9	102	0.0775	1.95		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.4	131	0.0481	1.54		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	92	0.1957	2.21		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	46	0.1739	2.09		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	54	0.2037	2.26		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
23.5	525	Total			

Post-Development

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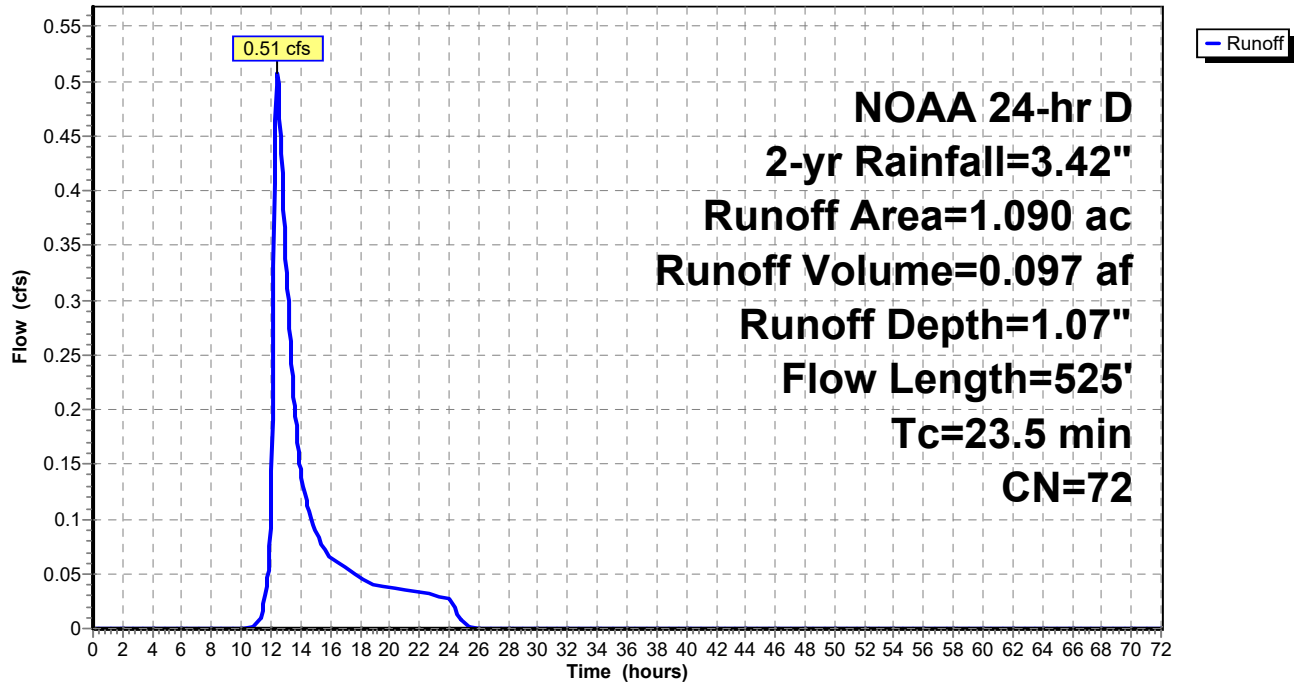
NOAA 24-hr D 2-yr Rainfall=3.42"

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Subcatchment 1: Afterglow-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Subcatchment 1: Afterglow-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	3.42	1.07	0.00
1.00	0.04	0.00	0.00	54.00	3.42	1.07	0.00
2.00	0.08	0.00	0.00	55.00	3.42	1.07	0.00
3.00	0.13	0.00	0.00	56.00	3.42	1.07	0.00
4.00	0.18	0.00	0.00	57.00	3.42	1.07	0.00
5.00	0.23	0.00	0.00	58.00	3.42	1.07	0.00
6.00	0.29	0.00	0.00	59.00	3.42	1.07	0.00
7.00	0.36	0.00	0.00	60.00	3.42	1.07	0.00
8.00	0.44	0.00	0.00	61.00	3.42	1.07	0.00
9.00	0.54	0.00	0.00	62.00	3.42	1.07	0.00
10.00	0.68	0.00	0.00	63.00	3.42	1.07	0.00
11.00	0.89	0.00	0.00	64.00	3.42	1.07	0.00
12.00	1.64	0.16	0.11	65.00	3.42	1.07	0.00
13.00	2.53	0.54	0.34	66.00	3.42	1.07	0.00
14.00	2.74	0.66	0.14	67.00	3.42	1.07	0.00
15.00	2.88	0.74	0.09	68.00	3.42	1.07	0.00
16.00	2.98	0.79	0.07	69.00	3.42	1.07	0.00
17.00	3.06	0.84	0.06	70.00	3.42	1.07	0.00
18.00	3.13	0.89	0.05	71.00	3.42	1.07	0.00
19.00	3.19	0.92	0.04	72.00	3.42	1.07	0.00
20.00	3.24	0.95	0.04				
21.00	3.29	0.99	0.04				
22.00	3.34	1.02	0.03				
23.00	3.38	1.04	0.03				
24.00	3.42	1.07	0.03				
25.00	3.42	1.07	0.00				
26.00	3.42	1.07	0.00				
27.00	3.42	1.07	0.00				
28.00	3.42	1.07	0.00				
29.00	3.42	1.07	0.00				
30.00	3.42	1.07	0.00				
31.00	3.42	1.07	0.00				
32.00	3.42	1.07	0.00				
33.00	3.42	1.07	0.00				
34.00	3.42	1.07	0.00				
35.00	3.42	1.07	0.00				
36.00	3.42	1.07	0.00				
37.00	3.42	1.07	0.00				
38.00	3.42	1.07	0.00				
39.00	3.42	1.07	0.00				
40.00	3.42	1.07	0.00				
41.00	3.42	1.07	0.00				
42.00	3.42	1.07	0.00				
43.00	3.42	1.07	0.00				
44.00	3.42	1.07	0.00				
45.00	3.42	1.07	0.00				
46.00	3.42	1.07	0.00				
47.00	3.42	1.07	0.00				
48.00	3.42	1.07	0.00				
49.00	3.42	1.07	0.00				
50.00	3.42	1.07	0.00				
51.00	3.42	1.07	0.00				
52.00	3.42	1.07	0.00				

Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Page 5

Summary for Subcatchment 2: Off-Site Afterglow-Perv

Runoff = 0.02 cfs @ 12.41 hrs, Volume= 0.004 af, Depth= 1.07"

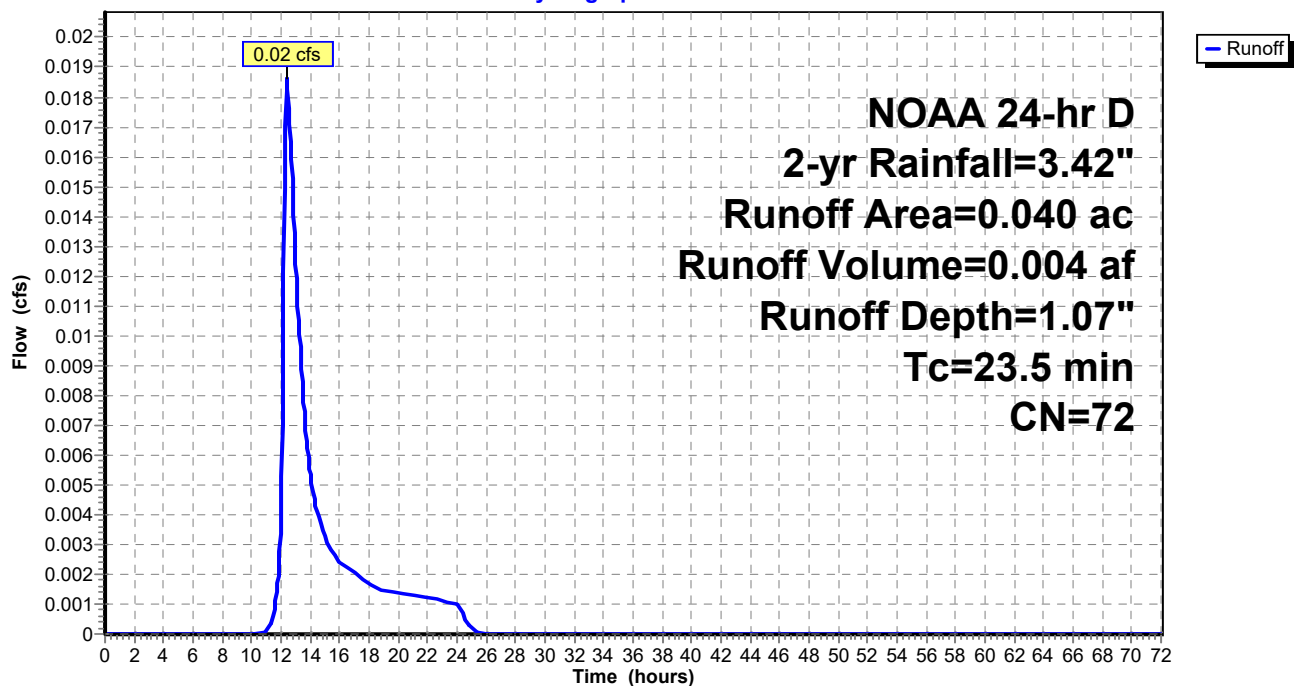
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2-yr Rainfall=3.42"

Area (ac)	CN	Description
0.040	72	Woods/grass comb., Good, HSG C
0.040		100.00% Pervious Area

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

Subcatchment 2: Off-Site Afterglow-Perv

Hydrograph



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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Subcatchment 2: Off-Site Afterglow-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	3.42	1.07	0.00
1.00	0.04	0.00	0.00	54.00	3.42	1.07	0.00
2.00	0.08	0.00	0.00	55.00	3.42	1.07	0.00
3.00	0.13	0.00	0.00	56.00	3.42	1.07	0.00
4.00	0.18	0.00	0.00	57.00	3.42	1.07	0.00
5.00	0.23	0.00	0.00	58.00	3.42	1.07	0.00
6.00	0.29	0.00	0.00	59.00	3.42	1.07	0.00
7.00	0.36	0.00	0.00	60.00	3.42	1.07	0.00
8.00	0.44	0.00	0.00	61.00	3.42	1.07	0.00
9.00	0.54	0.00	0.00	62.00	3.42	1.07	0.00
10.00	0.68	0.00	0.00	63.00	3.42	1.07	0.00
11.00	0.89	0.00	0.00	64.00	3.42	1.07	0.00
12.00	1.64	0.16	0.00	65.00	3.42	1.07	0.00
13.00	2.53	0.54	0.01	66.00	3.42	1.07	0.00
14.00	2.74	0.66	0.01	67.00	3.42	1.07	0.00
15.00	2.88	0.74	0.00	68.00	3.42	1.07	0.00
16.00	2.98	0.79	0.00	69.00	3.42	1.07	0.00
17.00	3.06	0.84	0.00	70.00	3.42	1.07	0.00
18.00	3.13	0.89	0.00	71.00	3.42	1.07	0.00
19.00	3.19	0.92	0.00	72.00	3.42	1.07	0.00
20.00	3.24	0.95	0.00				
21.00	3.29	0.99	0.00				
22.00	3.34	1.02	0.00				
23.00	3.38	1.04	0.00				
24.00	3.42	1.07	0.00				
25.00	3.42	1.07	0.00				
26.00	3.42	1.07	0.00				
27.00	3.42	1.07	0.00				
28.00	3.42	1.07	0.00				
29.00	3.42	1.07	0.00				
30.00	3.42	1.07	0.00				
31.00	3.42	1.07	0.00				
32.00	3.42	1.07	0.00				
33.00	3.42	1.07	0.00				
34.00	3.42	1.07	0.00				
35.00	3.42	1.07	0.00				
36.00	3.42	1.07	0.00				
37.00	3.42	1.07	0.00				
38.00	3.42	1.07	0.00				
39.00	3.42	1.07	0.00				
40.00	3.42	1.07	0.00				
41.00	3.42	1.07	0.00				
42.00	3.42	1.07	0.00				
43.00	3.42	1.07	0.00				
44.00	3.42	1.07	0.00				
45.00	3.42	1.07	0.00				
46.00	3.42	1.07	0.00				
47.00	3.42	1.07	0.00				
48.00	3.42	1.07	0.00				
49.00	3.42	1.07	0.00				
50.00	3.42	1.07	0.00				
51.00	3.42	1.07	0.00				
52.00	3.42	1.07	0.00				

Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Page 7

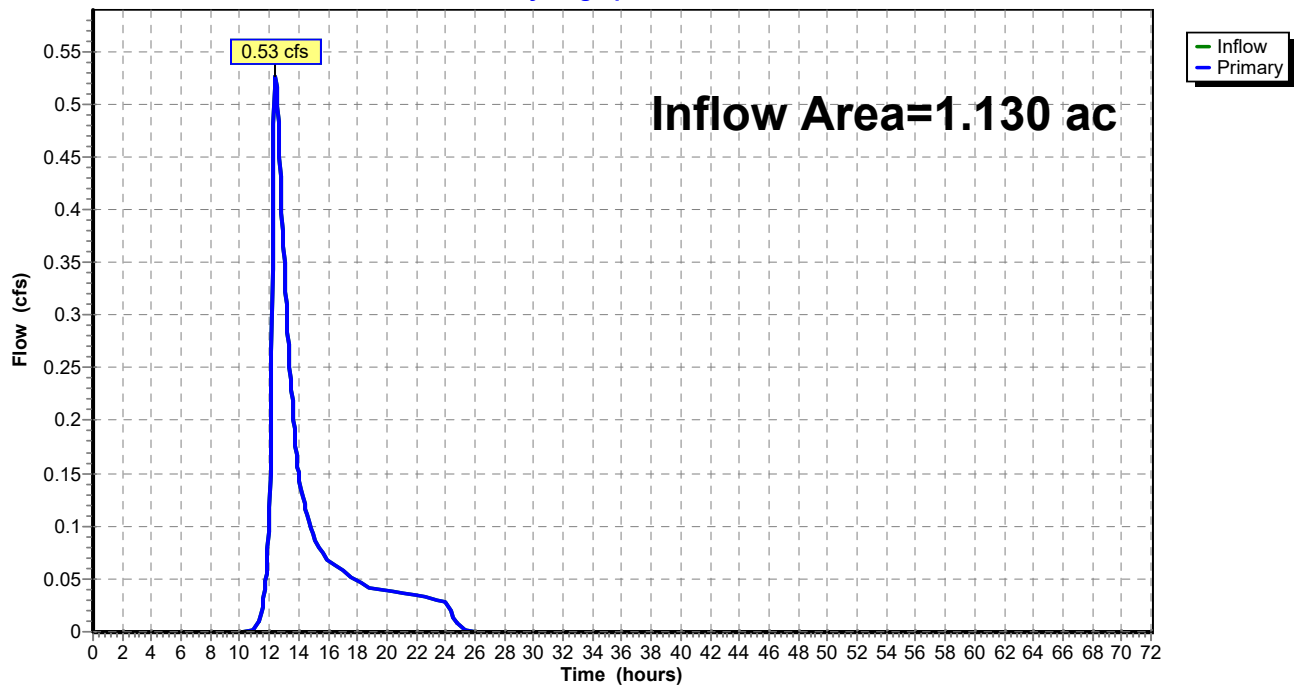
Summary for Pond 3: Prop. DA-1 Overland to Afterglow

Inflow Area = 1.130 ac, 0.00% Impervious, Inflow Depth = 1.07" for 2-yr event
Inflow = 0.53 cfs @ 12.41 hrs, Volume= 0.101 af
Primary = 0.53 cfs @ 12.41 hrs, Volume= 0.101 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 3: Prop. DA-1 Overland to Afterglow

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Pond 3: Prop. DA-1 Overland to Afterglow

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.00		0.00	61.00	0.00		0.00
9.00	0.00		0.00	62.00	0.00		0.00
10.00	0.00		0.00	63.00	0.00		0.00
11.00	0.00		0.00	64.00	0.00		0.00
12.00	0.12		0.12	65.00	0.00		0.00
13.00	0.35		0.35	66.00	0.00		0.00
14.00	0.15		0.15	67.00	0.00		0.00
15.00	0.09		0.09	68.00	0.00		0.00
16.00	0.07		0.07	69.00	0.00		0.00
17.00	0.06		0.06	70.00	0.00		0.00
18.00	0.05		0.05	71.00	0.00		0.00
19.00	0.04		0.04	72.00	0.00		0.00
20.00	0.04		0.04				
21.00	0.04		0.04				
22.00	0.03		0.03				
23.00	0.03		0.03				
24.00	0.03		0.03				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Summary for Subcatchment 1: Afterglow-Perv

Runoff = 1.21 cfs @ 12.39 hrs, Volume= 0.214 af, Depth= 2.35"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10-yr Rainfall=5.20"

Area (ac)	CN	Description
1.030	72	Woods/grass comb., Good, HSG C
0.060	74	>75% Grass cover, Good, HSG C
1.090	72	Weighted Average
1.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	100	0.0230	0.08		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.9	102	0.0775	1.95		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.4	131	0.0481	1.54		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	92	0.1957	2.21		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	46	0.1739	2.09		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	54	0.2037	2.26		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
23.5	525	Total			

Post-Development

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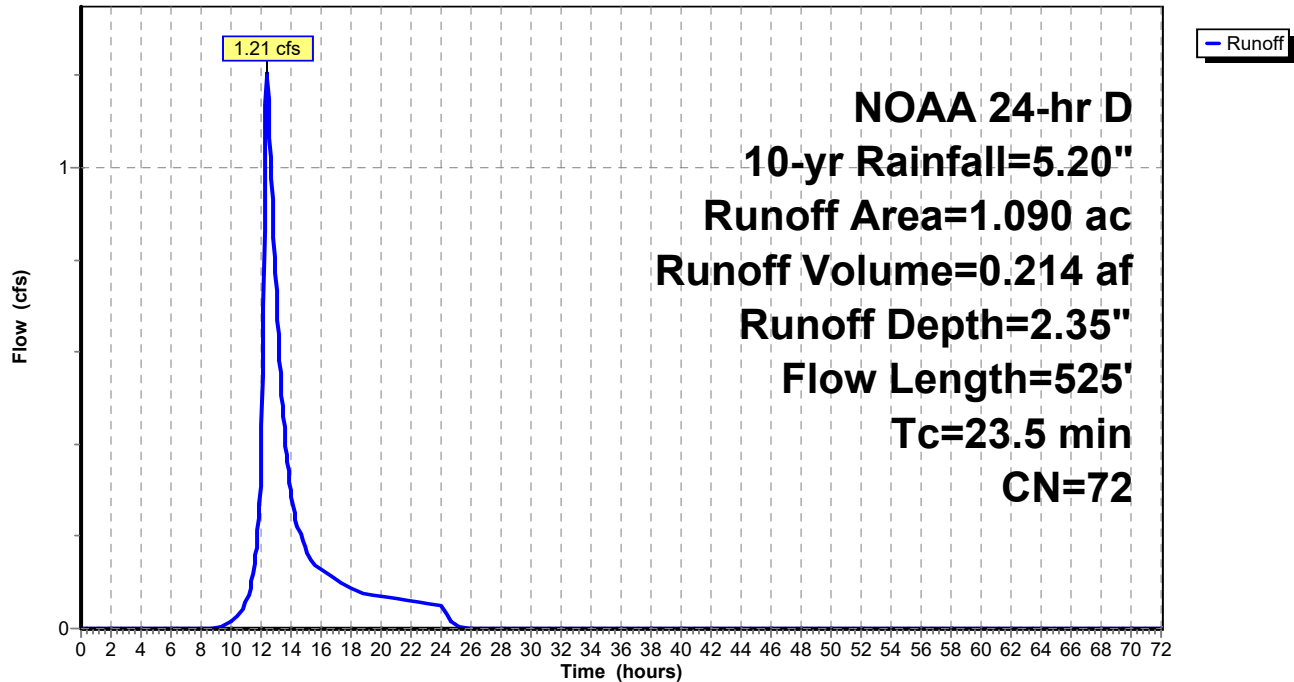
NOAA 24-hr D 10-yr Rainfall=5.20"

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Subcatchment 1: Afterglow-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Subcatchment 1: Afterglow-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	5.20	2.35	0.00
1.00	0.06	0.00	0.00	54.00	5.20	2.35	0.00
2.00	0.12	0.00	0.00	55.00	5.20	2.35	0.00
3.00	0.20	0.00	0.00	56.00	5.20	2.35	0.00
4.00	0.27	0.00	0.00	57.00	5.20	2.35	0.00
5.00	0.36	0.00	0.00	58.00	5.20	2.35	0.00
6.00	0.44	0.00	0.00	59.00	5.20	2.35	0.00
7.00	0.55	0.00	0.00	60.00	5.20	2.35	0.00
8.00	0.67	0.00	0.00	61.00	5.20	2.35	0.00
9.00	0.82	0.00	0.00	62.00	5.20	2.35	0.00
10.00	1.03	0.02	0.01	63.00	5.20	2.35	0.00
11.00	1.35	0.07	0.06	64.00	5.20	2.35	0.00
12.00	2.49	0.52	0.36	65.00	5.20	2.35	0.00
13.00	3.85	1.35	0.74	66.00	5.20	2.35	0.00
14.00	4.17	1.58	0.29	67.00	5.20	2.35	0.00
15.00	4.38	1.73	0.17	68.00	5.20	2.35	0.00
16.00	4.53	1.84	0.13	69.00	5.20	2.35	0.00
17.00	4.65	1.93	0.11	70.00	5.20	2.35	0.00
18.00	4.76	2.01	0.09	71.00	5.20	2.35	0.00
19.00	4.84	2.08	0.08	72.00	5.20	2.35	0.00
20.00	4.93	2.14	0.07				
21.00	5.00	2.20	0.07				
22.00	5.08	2.26	0.06				
23.00	5.14	2.31	0.06				
24.00	5.20	2.35	0.05				
25.00	5.20	2.35	0.01				
26.00	5.20	2.35	0.00				
27.00	5.20	2.35	0.00				
28.00	5.20	2.35	0.00				
29.00	5.20	2.35	0.00				
30.00	5.20	2.35	0.00				
31.00	5.20	2.35	0.00				
32.00	5.20	2.35	0.00				
33.00	5.20	2.35	0.00				
34.00	5.20	2.35	0.00				
35.00	5.20	2.35	0.00				
36.00	5.20	2.35	0.00				
37.00	5.20	2.35	0.00				
38.00	5.20	2.35	0.00				
39.00	5.20	2.35	0.00				
40.00	5.20	2.35	0.00				
41.00	5.20	2.35	0.00				
42.00	5.20	2.35	0.00				
43.00	5.20	2.35	0.00				
44.00	5.20	2.35	0.00				
45.00	5.20	2.35	0.00				
46.00	5.20	2.35	0.00				
47.00	5.20	2.35	0.00				
48.00	5.20	2.35	0.00				
49.00	5.20	2.35	0.00				
50.00	5.20	2.35	0.00				
51.00	5.20	2.35	0.00				
52.00	5.20	2.35	0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Summary for Subcatchment 2: Off-Site Afterglow-Perv

Runoff = 0.04 cfs @ 12.39 hrs, Volume= 0.008 af, Depth= 2.35"

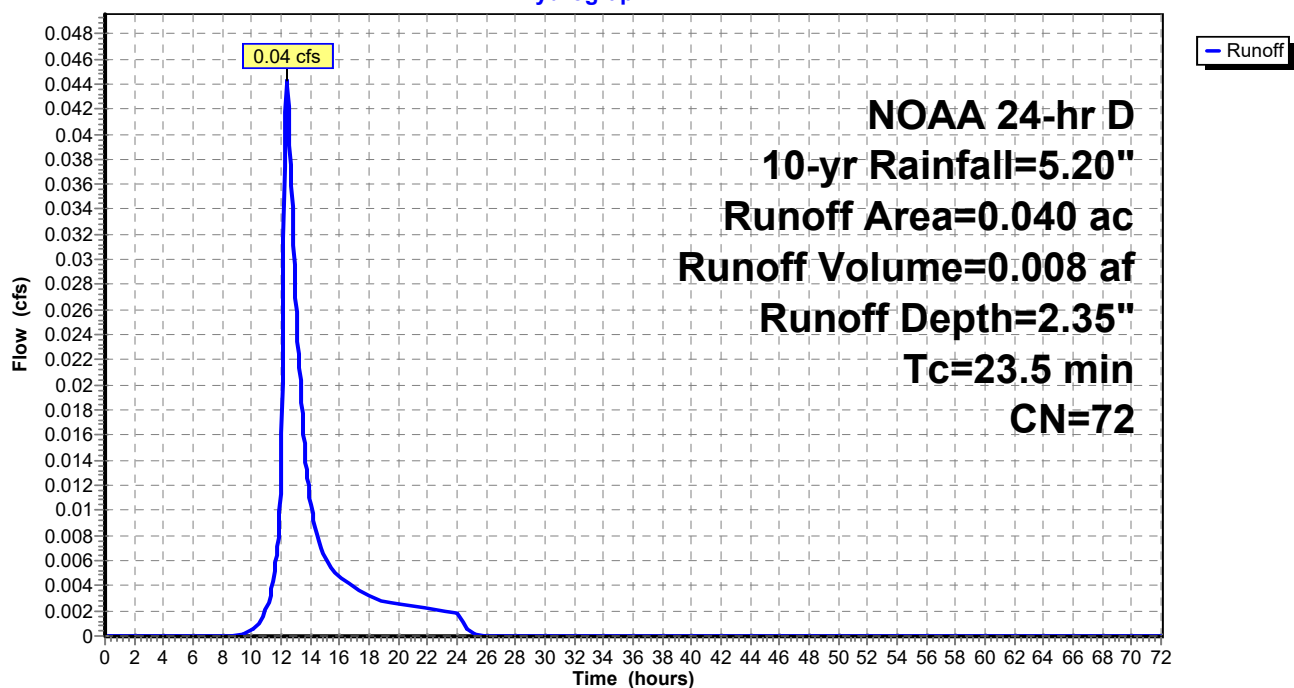
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10-yr Rainfall=5.20"

Area (ac)	CN	Description
0.040	72	Woods/grass comb., Good, HSG C
0.040		100.00% Pervious Area

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

Subcatchment 2: Off-Site Afterglow-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Subcatchment 2: Off-Site Afterglow-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	5.20	2.35	0.00
1.00	0.06	0.00	0.00	54.00	5.20	2.35	0.00
2.00	0.12	0.00	0.00	55.00	5.20	2.35	0.00
3.00	0.20	0.00	0.00	56.00	5.20	2.35	0.00
4.00	0.27	0.00	0.00	57.00	5.20	2.35	0.00
5.00	0.36	0.00	0.00	58.00	5.20	2.35	0.00
6.00	0.44	0.00	0.00	59.00	5.20	2.35	0.00
7.00	0.55	0.00	0.00	60.00	5.20	2.35	0.00
8.00	0.67	0.00	0.00	61.00	5.20	2.35	0.00
9.00	0.82	0.00	0.00	62.00	5.20	2.35	0.00
10.00	1.03	0.02	0.00	63.00	5.20	2.35	0.00
11.00	1.35	0.07	0.00	64.00	5.20	2.35	0.00
12.00	2.49	0.52	0.01	65.00	5.20	2.35	0.00
13.00	3.85	1.35	0.03	66.00	5.20	2.35	0.00
14.00	4.17	1.58	0.01	67.00	5.20	2.35	0.00
15.00	4.38	1.73	0.01	68.00	5.20	2.35	0.00
16.00	4.53	1.84	0.00	69.00	5.20	2.35	0.00
17.00	4.65	1.93	0.00	70.00	5.20	2.35	0.00
18.00	4.76	2.01	0.00	71.00	5.20	2.35	0.00
19.00	4.84	2.08	0.00	72.00	5.20	2.35	0.00
20.00	4.93	2.14	0.00				
21.00	5.00	2.20	0.00				
22.00	5.08	2.26	0.00				
23.00	5.14	2.31	0.00				
24.00	5.20	2.35	0.00				
25.00	5.20	2.35	0.00				
26.00	5.20	2.35	0.00				
27.00	5.20	2.35	0.00				
28.00	5.20	2.35	0.00				
29.00	5.20	2.35	0.00				
30.00	5.20	2.35	0.00				
31.00	5.20	2.35	0.00				
32.00	5.20	2.35	0.00				
33.00	5.20	2.35	0.00				
34.00	5.20	2.35	0.00				
35.00	5.20	2.35	0.00				
36.00	5.20	2.35	0.00				
37.00	5.20	2.35	0.00				
38.00	5.20	2.35	0.00				
39.00	5.20	2.35	0.00				
40.00	5.20	2.35	0.00				
41.00	5.20	2.35	0.00				
42.00	5.20	2.35	0.00				
43.00	5.20	2.35	0.00				
44.00	5.20	2.35	0.00				
45.00	5.20	2.35	0.00				
46.00	5.20	2.35	0.00				
47.00	5.20	2.35	0.00				
48.00	5.20	2.35	0.00				
49.00	5.20	2.35	0.00				
50.00	5.20	2.35	0.00				
51.00	5.20	2.35	0.00				
52.00	5.20	2.35	0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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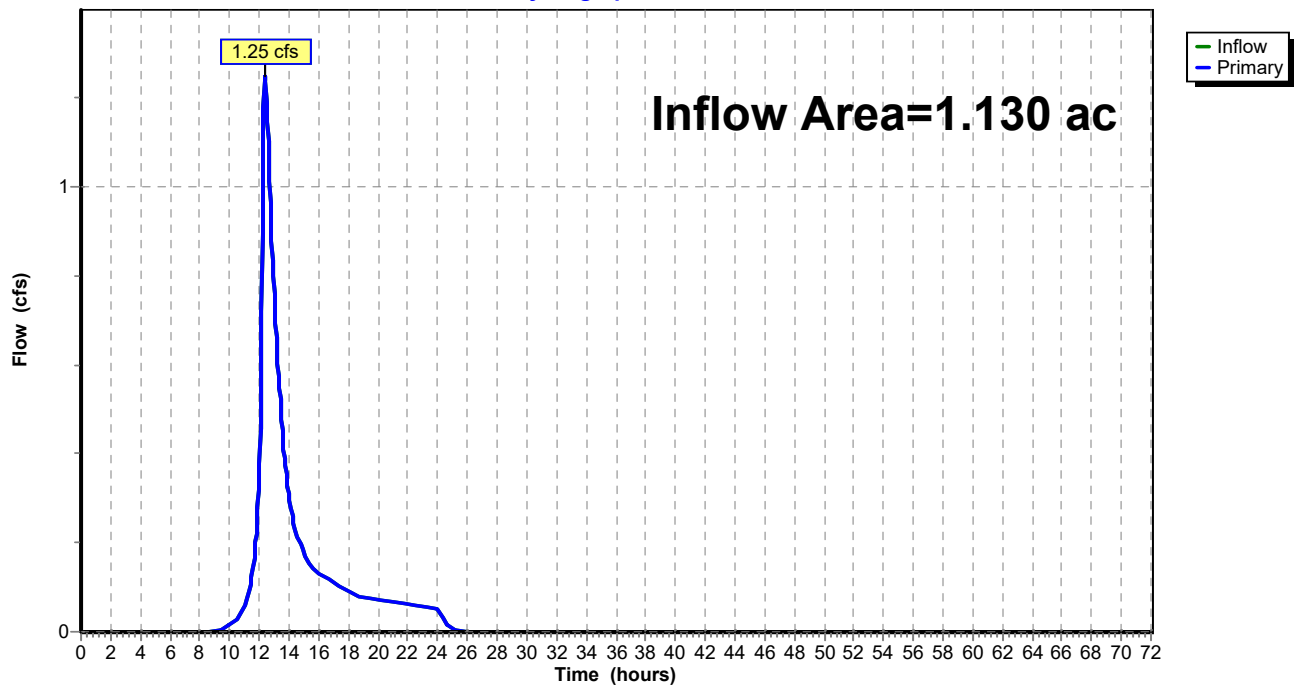
Summary for Pond 3: Prop. DA-1 Overland to Afterglow

Inflow Area = 1.130 ac, 0.00% Impervious, Inflow Depth = 2.35" for 10-yr event
Inflow = 1.25 cfs @ 12.39 hrs, Volume= 0.222 af
Primary = 1.25 cfs @ 12.39 hrs, Volume= 0.222 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 3: Prop. DA-1 Overland to Afterglow

Hydrograph



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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Pond 3: Prop. DA-1 Overland to Afterglow

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.00		0.00	61.00	0.00		0.00
9.00	0.00		0.00	62.00	0.00		0.00
10.00	0.02		0.02	63.00	0.00		0.00
11.00	0.06		0.06	64.00	0.00		0.00
12.00	0.38		0.38	65.00	0.00		0.00
13.00	0.76		0.76	66.00	0.00		0.00
14.00	0.30		0.30	67.00	0.00		0.00
15.00	0.18		0.18	68.00	0.00		0.00
16.00	0.13		0.13	69.00	0.00		0.00
17.00	0.11		0.11	70.00	0.00		0.00
18.00	0.09		0.09	71.00	0.00		0.00
19.00	0.08		0.08	72.00	0.00		0.00
20.00	0.07		0.07				
21.00	0.07		0.07				
22.00	0.06		0.06				
23.00	0.06		0.06				
24.00	0.05		0.05				
25.00	0.01		0.01				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Summary for Subcatchment 1: Afterglow-Perv

Runoff = 2.79 cfs @ 12.37 hrs, Volume= 0.482 af, Depth= 5.30"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100-yr Rainfall=8.69"

Area (ac)	CN	Description
1.030	72	Woods/grass comb., Good, HSG C
0.060	74	>75% Grass cover, Good, HSG C
1.090	72	Weighted Average
1.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	100	0.0230	0.08		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.9	102	0.0775	1.95		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.4	131	0.0481	1.54		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	92	0.1957	2.21		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	46	0.1739	2.09		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	54	0.2037	2.26		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
23.5	525	Total			

Post-Development

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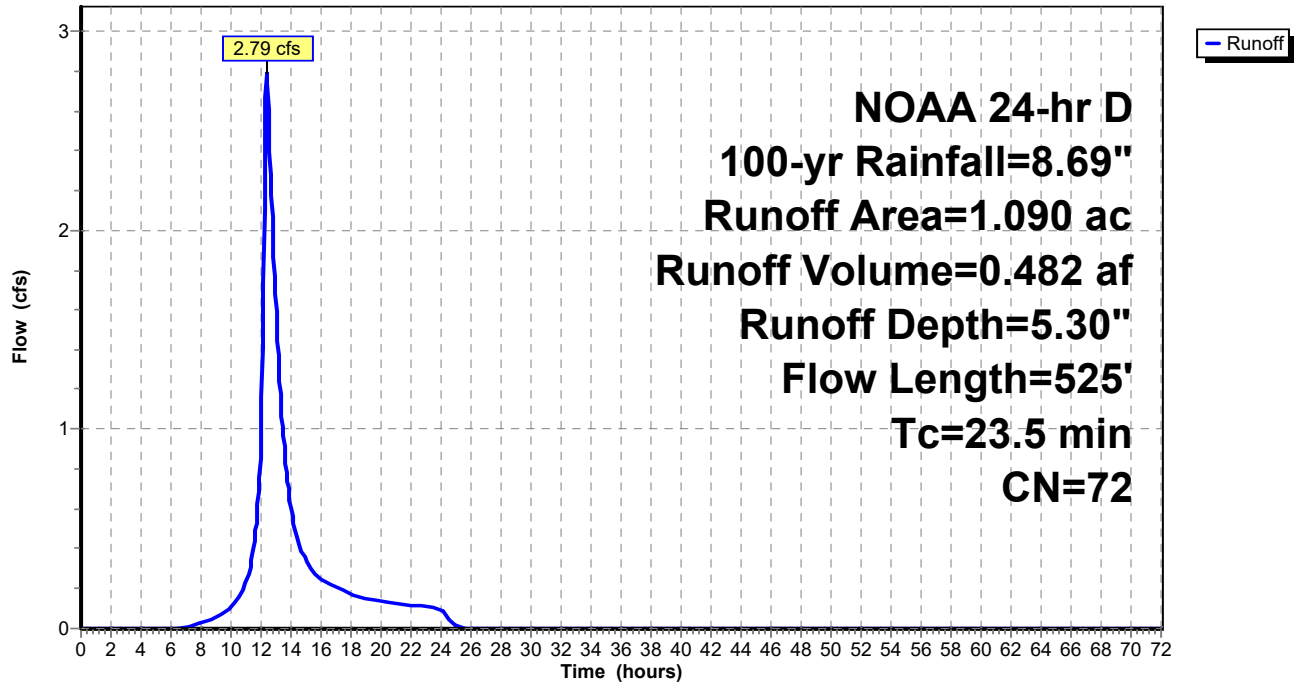
NOAA 24-hr D 100-yr Rainfall=8.69"

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Subcatchment 1: Afterglow-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Hydrograph for Subcatchment 1: Afterglow-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	8.69	5.30	0.00
1.00	0.10	0.00	0.00	54.00	8.69	5.30	0.00
2.00	0.21	0.00	0.00	55.00	8.69	5.30	0.00
3.00	0.33	0.00	0.00	56.00	8.69	5.30	0.00
4.00	0.46	0.00	0.00	57.00	8.69	5.30	0.00
5.00	0.59	0.00	0.00	58.00	8.69	5.30	0.00
6.00	0.74	0.00	0.00	59.00	8.69	5.30	0.00
7.00	0.92	0.00	0.00	60.00	8.69	5.30	0.00
8.00	1.13	0.03	0.02	61.00	8.69	5.30	0.00
9.00	1.38	0.08	0.05	62.00	8.69	5.30	0.00
10.00	1.72	0.18	0.11	63.00	8.69	5.30	0.00
11.00	2.26	0.41	0.23	64.00	8.69	5.30	0.00
12.00	4.16	1.58	0.98	65.00	8.69	5.30	0.00
13.00	6.43	3.35	1.60	66.00	8.69	5.30	0.00
14.00	6.97	3.80	0.59	67.00	8.69	5.30	0.00
15.00	7.31	4.10	0.34	68.00	8.69	5.30	0.00
16.00	7.56	4.31	0.25	69.00	8.69	5.30	0.00
17.00	7.77	4.50	0.21	70.00	8.69	5.30	0.00
18.00	7.95	4.65	0.17	71.00	8.69	5.30	0.00
19.00	8.10	4.78	0.15	72.00	8.69	5.30	0.00
20.00	8.23	4.90	0.13				
21.00	8.36	5.01	0.13				
22.00	8.48	5.12	0.12				
23.00	8.59	5.22	0.11				
24.00	8.69	5.30	0.10				
25.00	8.69	5.30	0.01				
26.00	8.69	5.30	0.00				
27.00	8.69	5.30	0.00				
28.00	8.69	5.30	0.00				
29.00	8.69	5.30	0.00				
30.00	8.69	5.30	0.00				
31.00	8.69	5.30	0.00				
32.00	8.69	5.30	0.00				
33.00	8.69	5.30	0.00				
34.00	8.69	5.30	0.00				
35.00	8.69	5.30	0.00				
36.00	8.69	5.30	0.00				
37.00	8.69	5.30	0.00				
38.00	8.69	5.30	0.00				
39.00	8.69	5.30	0.00				
40.00	8.69	5.30	0.00				
41.00	8.69	5.30	0.00				
42.00	8.69	5.30	0.00				
43.00	8.69	5.30	0.00				
44.00	8.69	5.30	0.00				
45.00	8.69	5.30	0.00				
46.00	8.69	5.30	0.00				
47.00	8.69	5.30	0.00				
48.00	8.69	5.30	0.00				
49.00	8.69	5.30	0.00				
50.00	8.69	5.30	0.00				
51.00	8.69	5.30	0.00				
52.00	8.69	5.30	0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Summary for Subcatchment 2: Off-Site Afterglow-Perv

Runoff = 0.10 cfs @ 12.37 hrs, Volume= 0.018 af, Depth= 5.30"

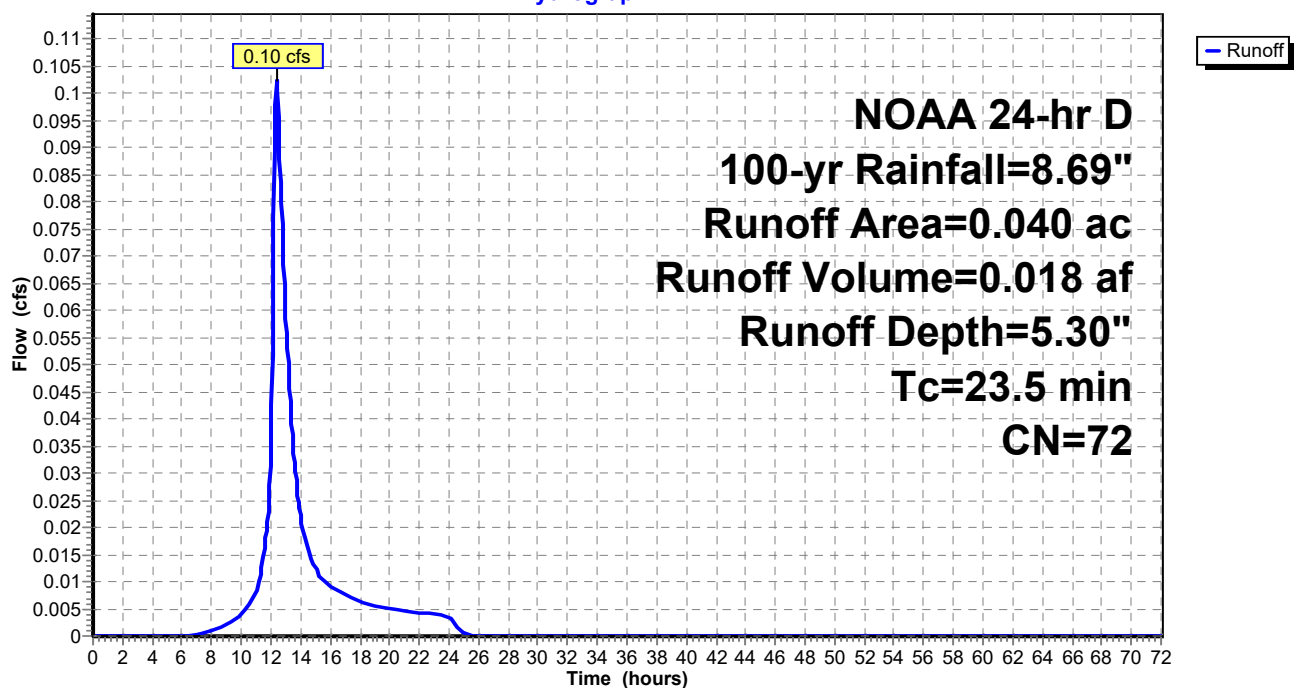
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100-yr Rainfall=8.69"

Area (ac)	CN	Description
0.040	72	Woods/grass comb., Good, HSG C
0.040		100.00% Pervious Area

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

Subcatchment 2: Off-Site Afterglow-Perv

Hydrograph



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NOAA 24-hr D 100-yr Rainfall=8.69"

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Hydrograph for Subcatchment 2: Off-Site Afterglow-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	8.69	5.30	0.00
1.00	0.10	0.00	0.00	54.00	8.69	5.30	0.00
2.00	0.21	0.00	0.00	55.00	8.69	5.30	0.00
3.00	0.33	0.00	0.00	56.00	8.69	5.30	0.00
4.00	0.46	0.00	0.00	57.00	8.69	5.30	0.00
5.00	0.59	0.00	0.00	58.00	8.69	5.30	0.00
6.00	0.74	0.00	0.00	59.00	8.69	5.30	0.00
7.00	0.92	0.00	0.00	60.00	8.69	5.30	0.00
8.00	1.13	0.03	0.00	61.00	8.69	5.30	0.00
9.00	1.38	0.08	0.00	62.00	8.69	5.30	0.00
10.00	1.72	0.18	0.00	63.00	8.69	5.30	0.00
11.00	2.26	0.41	0.01	64.00	8.69	5.30	0.00
12.00	4.16	1.58	0.04	65.00	8.69	5.30	0.00
13.00	6.43	3.35	0.06	66.00	8.69	5.30	0.00
14.00	6.97	3.80	0.02	67.00	8.69	5.30	0.00
15.00	7.31	4.10	0.01	68.00	8.69	5.30	0.00
16.00	7.56	4.31	0.01	69.00	8.69	5.30	0.00
17.00	7.77	4.50	0.01	70.00	8.69	5.30	0.00
18.00	7.95	4.65	0.01	71.00	8.69	5.30	0.00
19.00	8.10	4.78	0.01	72.00	8.69	5.30	0.00
20.00	8.23	4.90	0.00				
21.00	8.36	5.01	0.00				
22.00	8.48	5.12	0.00				
23.00	8.59	5.22	0.00				
24.00	8.69	5.30	0.00				
25.00	8.69	5.30	0.00				
26.00	8.69	5.30	0.00				
27.00	8.69	5.30	0.00				
28.00	8.69	5.30	0.00				
29.00	8.69	5.30	0.00				
30.00	8.69	5.30	0.00				
31.00	8.69	5.30	0.00				
32.00	8.69	5.30	0.00				
33.00	8.69	5.30	0.00				
34.00	8.69	5.30	0.00				
35.00	8.69	5.30	0.00				
36.00	8.69	5.30	0.00				
37.00	8.69	5.30	0.00				
38.00	8.69	5.30	0.00				
39.00	8.69	5.30	0.00				
40.00	8.69	5.30	0.00				
41.00	8.69	5.30	0.00				
42.00	8.69	5.30	0.00				
43.00	8.69	5.30	0.00				
44.00	8.69	5.30	0.00				
45.00	8.69	5.30	0.00				
46.00	8.69	5.30	0.00				
47.00	8.69	5.30	0.00				
48.00	8.69	5.30	0.00				
49.00	8.69	5.30	0.00				
50.00	8.69	5.30	0.00				
51.00	8.69	5.30	0.00				
52.00	8.69	5.30	0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

Printed 8/2/2023

Page 21

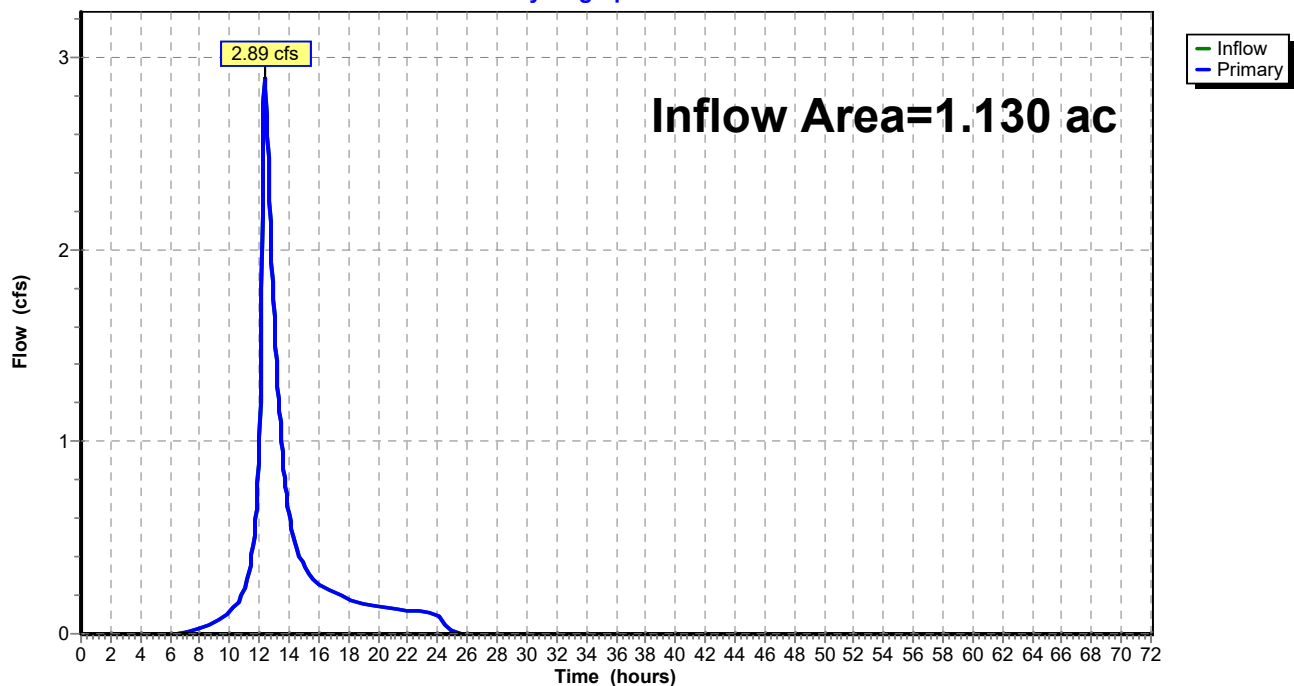
Summary for Pond 3: Prop. DA-1 Overland to Afterglow

Inflow Area = 1.130 ac, 0.00% Impervious, Inflow Depth = 5.30" for 100-yr event
Inflow = 2.89 cfs @ 12.37 hrs, Volume= 0.500 af
Primary = 2.89 cfs @ 12.37 hrs, Volume= 0.500 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 3: Prop. DA-1 Overland to Afterglow

Hydrograph



Post-Development

Prepared by Matrix New World Engineering

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NOAA 24-hr D 100-yr Rainfall=8.69"

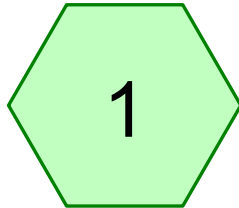
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Page 22

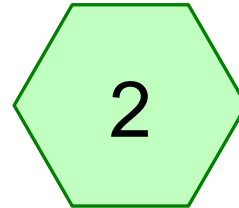
Hydrograph for Pond 3: Prop. DA-1 Overland to Afterglow

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.03		0.03	61.00	0.00		0.00
9.00	0.06		0.06	62.00	0.00		0.00
10.00	0.11		0.11	63.00	0.00		0.00
11.00	0.24		0.24	64.00	0.00		0.00
12.00	1.02		1.02	65.00	0.00		0.00
13.00	1.65		1.65	66.00	0.00		0.00
14.00	0.61		0.61	67.00	0.00		0.00
15.00	0.35		0.35	68.00	0.00		0.00
16.00	0.26		0.26	69.00	0.00		0.00
17.00	0.21		0.21	70.00	0.00		0.00
18.00	0.18		0.18	71.00	0.00		0.00
19.00	0.15		0.15	72.00	0.00		0.00
20.00	0.14		0.14				
21.00	0.13		0.13				
22.00	0.12		0.12				
23.00	0.11		0.11				
24.00	0.10		0.10				
25.00	0.02		0.02				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
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52.00	0.00		0.00				

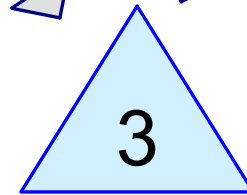
**HYDROCAD FROM AUGUST 7, 2023 STORMWATER
MANAGEMENT REPORT – SCS UNIT HYDROGRAPH
AFTERGLOW AVENUE (DA-1)**



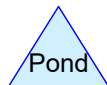
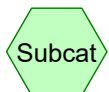
Afterglow-Perv



Off-Site Afterglow-Perv



Prop. DA-1 Overland to
Afterglow



Routing Diagram for Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Page 2

Summary for Subcatchment 1: Afterglow-Perv

Runoff = 0.77 cfs @ 12.36 hrs, Volume= 0.097 af, Depth= 1.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2-yr Rainfall=3.42"

Area (ac)	CN	Description
1.030	72	Woods/grass comb., Good, HSG C
0.060	74	>75% Grass cover, Good, HSG C
1.090	72	Weighted Average
1.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	100	0.0230	0.08		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.9	102	0.0775	1.95		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.4	131	0.0481	1.54		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	92	0.1957	2.21		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	46	0.1739	2.09		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	54	0.2037	2.26		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
23.5	525	Total			

Post-Development

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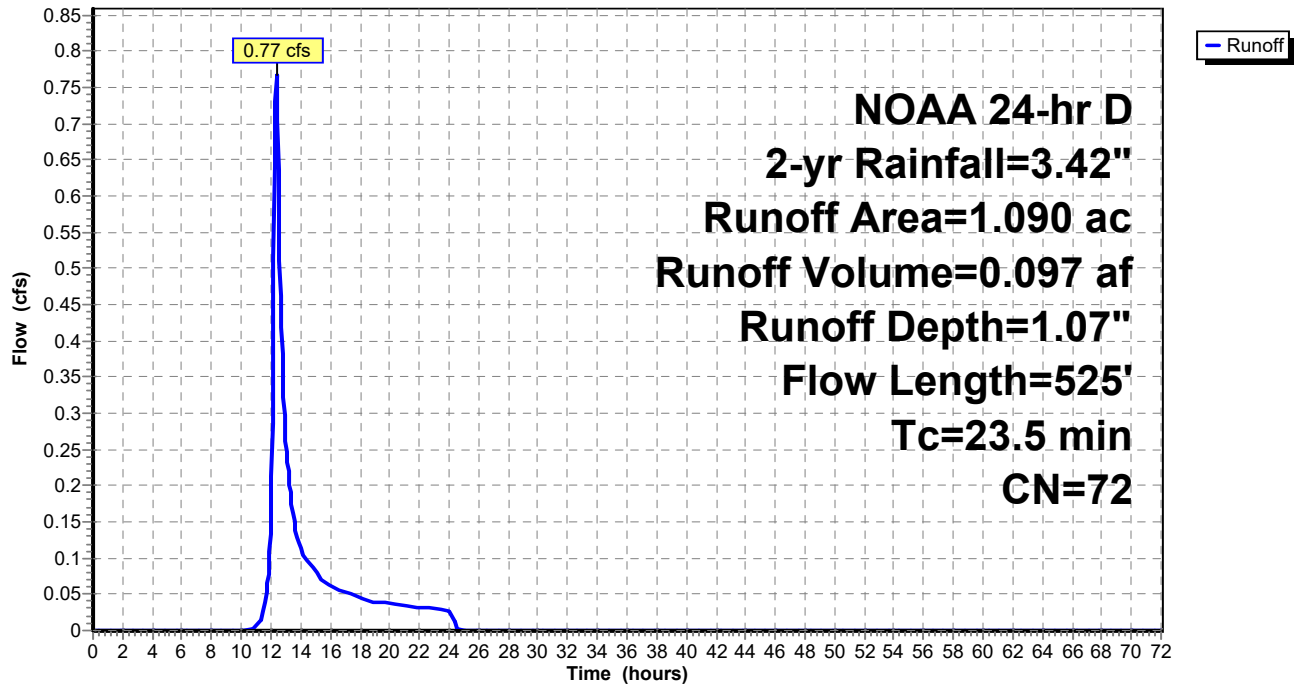
NOAA 24-hr D 2-yr Rainfall=3.42"

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Subcatchment 1: Afterglow-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Subcatchment 1: Afterglow-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	3.42	1.07	0.00
1.00	0.04	0.00	0.00	54.00	3.42	1.07	0.00
2.00	0.08	0.00	0.00	55.00	3.42	1.07	0.00
3.00	0.13	0.00	0.00	56.00	3.42	1.07	0.00
4.00	0.18	0.00	0.00	57.00	3.42	1.07	0.00
5.00	0.23	0.00	0.00	58.00	3.42	1.07	0.00
6.00	0.29	0.00	0.00	59.00	3.42	1.07	0.00
7.00	0.36	0.00	0.00	60.00	3.42	1.07	0.00
8.00	0.44	0.00	0.00	61.00	3.42	1.07	0.00
9.00	0.54	0.00	0.00	62.00	3.42	1.07	0.00
10.00	0.68	0.00	0.00	63.00	3.42	1.07	0.00
11.00	0.89	0.00	0.00	64.00	3.42	1.07	0.00
12.00	1.64	0.16	0.17	65.00	3.42	1.07	0.00
13.00	2.53	0.54	0.26	66.00	3.42	1.07	0.00
14.00	2.74	0.66	0.11	67.00	3.42	1.07	0.00
15.00	2.88	0.74	0.08	68.00	3.42	1.07	0.00
16.00	2.98	0.79	0.06	69.00	3.42	1.07	0.00
17.00	3.06	0.84	0.05	70.00	3.42	1.07	0.00
18.00	3.13	0.89	0.04	71.00	3.42	1.07	0.00
19.00	3.19	0.92	0.04	72.00	3.42	1.07	0.00
20.00	3.24	0.95	0.04				
21.00	3.29	0.99	0.03				
22.00	3.34	1.02	0.03				
23.00	3.38	1.04	0.03				
24.00	3.42	1.07	0.03				
25.00	3.42	1.07	0.00				
26.00	3.42	1.07	0.00				
27.00	3.42	1.07	0.00				
28.00	3.42	1.07	0.00				
29.00	3.42	1.07	0.00				
30.00	3.42	1.07	0.00				
31.00	3.42	1.07	0.00				
32.00	3.42	1.07	0.00				
33.00	3.42	1.07	0.00				
34.00	3.42	1.07	0.00				
35.00	3.42	1.07	0.00				
36.00	3.42	1.07	0.00				
37.00	3.42	1.07	0.00				
38.00	3.42	1.07	0.00				
39.00	3.42	1.07	0.00				
40.00	3.42	1.07	0.00				
41.00	3.42	1.07	0.00				
42.00	3.42	1.07	0.00				
43.00	3.42	1.07	0.00				
44.00	3.42	1.07	0.00				
45.00	3.42	1.07	0.00				
46.00	3.42	1.07	0.00				
47.00	3.42	1.07	0.00				
48.00	3.42	1.07	0.00				
49.00	3.42	1.07	0.00				
50.00	3.42	1.07	0.00				
51.00	3.42	1.07	0.00				
52.00	3.42	1.07	0.00				

Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Summary for Subcatchment 2: Off-Site Afterglow-Perv

Runoff = 0.03 cfs @ 12.36 hrs, Volume= 0.004 af, Depth= 1.07"

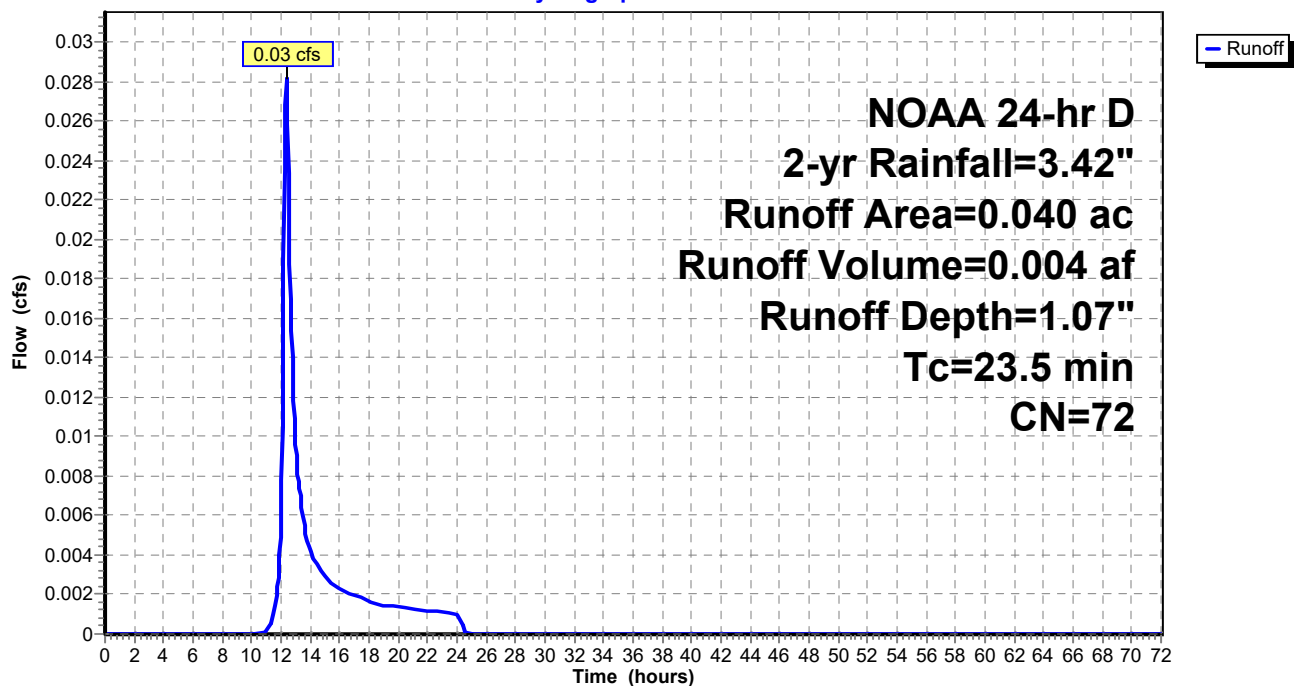
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2-yr Rainfall=3.42"

Area (ac)	CN	Description
0.040	72	Woods/grass comb., Good, HSG C
0.040		100.00% Pervious Area

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

Subcatchment 2: Off-Site Afterglow-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Subcatchment 2: Off-Site Afterglow-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	3.42	1.07	0.00
1.00	0.04	0.00	0.00	54.00	3.42	1.07	0.00
2.00	0.08	0.00	0.00	55.00	3.42	1.07	0.00
3.00	0.13	0.00	0.00	56.00	3.42	1.07	0.00
4.00	0.18	0.00	0.00	57.00	3.42	1.07	0.00
5.00	0.23	0.00	0.00	58.00	3.42	1.07	0.00
6.00	0.29	0.00	0.00	59.00	3.42	1.07	0.00
7.00	0.36	0.00	0.00	60.00	3.42	1.07	0.00
8.00	0.44	0.00	0.00	61.00	3.42	1.07	0.00
9.00	0.54	0.00	0.00	62.00	3.42	1.07	0.00
10.00	0.68	0.00	0.00	63.00	3.42	1.07	0.00
11.00	0.89	0.00	0.00	64.00	3.42	1.07	0.00
12.00	1.64	0.16	0.01	65.00	3.42	1.07	0.00
13.00	2.53	0.54	0.01	66.00	3.42	1.07	0.00
14.00	2.74	0.66	0.00	67.00	3.42	1.07	0.00
15.00	2.88	0.74	0.00	68.00	3.42	1.07	0.00
16.00	2.98	0.79	0.00	69.00	3.42	1.07	0.00
17.00	3.06	0.84	0.00	70.00	3.42	1.07	0.00
18.00	3.13	0.89	0.00	71.00	3.42	1.07	0.00
19.00	3.19	0.92	0.00	72.00	3.42	1.07	0.00
20.00	3.24	0.95	0.00				
21.00	3.29	0.99	0.00				
22.00	3.34	1.02	0.00				
23.00	3.38	1.04	0.00				
24.00	3.42	1.07	0.00				
25.00	3.42	1.07	0.00				
26.00	3.42	1.07	0.00				
27.00	3.42	1.07	0.00				
28.00	3.42	1.07	0.00				
29.00	3.42	1.07	0.00				
30.00	3.42	1.07	0.00				
31.00	3.42	1.07	0.00				
32.00	3.42	1.07	0.00				
33.00	3.42	1.07	0.00				
34.00	3.42	1.07	0.00				
35.00	3.42	1.07	0.00				
36.00	3.42	1.07	0.00				
37.00	3.42	1.07	0.00				
38.00	3.42	1.07	0.00				
39.00	3.42	1.07	0.00				
40.00	3.42	1.07	0.00				
41.00	3.42	1.07	0.00				
42.00	3.42	1.07	0.00				
43.00	3.42	1.07	0.00				
44.00	3.42	1.07	0.00				
45.00	3.42	1.07	0.00				
46.00	3.42	1.07	0.00				
47.00	3.42	1.07	0.00				
48.00	3.42	1.07	0.00				
49.00	3.42	1.07	0.00				
50.00	3.42	1.07	0.00				
51.00	3.42	1.07	0.00				
52.00	3.42	1.07	0.00				

Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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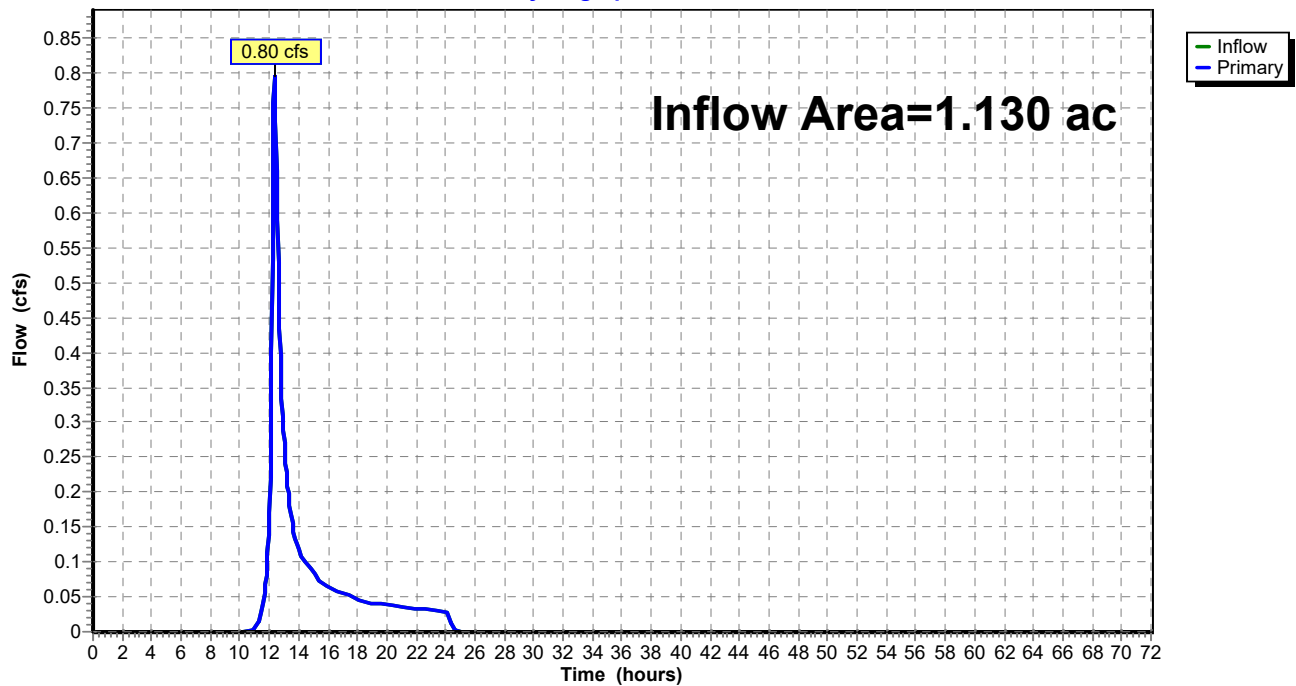
Summary for Pond 3: Prop. DA-1 Overland to Afterglow

Inflow Area = 1.130 ac, 0.00% Impervious, Inflow Depth = 1.07" for 2-yr event
Inflow = 0.80 cfs @ 12.36 hrs, Volume= 0.101 af
Primary = 0.80 cfs @ 12.36 hrs, Volume= 0.101 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 3: Prop. DA-1 Overland to Afterglow

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Pond 3: Prop. DA-1 Overland to Afterglow

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.00		0.00	61.00	0.00		0.00
9.00	0.00		0.00	62.00	0.00		0.00
10.00	0.00		0.00	63.00	0.00		0.00
11.00	0.00		0.00	64.00	0.00		0.00
12.00	0.17		0.17	65.00	0.00		0.00
13.00	0.27		0.27	66.00	0.00		0.00
14.00	0.12		0.12	67.00	0.00		0.00
15.00	0.08		0.08	68.00	0.00		0.00
16.00	0.06		0.06	69.00	0.00		0.00
17.00	0.06		0.06	70.00	0.00		0.00
18.00	0.05		0.05	71.00	0.00		0.00
19.00	0.04		0.04	72.00	0.00		0.00
20.00	0.04		0.04				
21.00	0.04		0.04				
22.00	0.03		0.03				
23.00	0.03		0.03				
24.00	0.03		0.03				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Summary for Subcatchment 1: Afterglow-Perv

Runoff = 1.78 cfs @ 12.35 hrs, Volume= 0.214 af, Depth= 2.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10-yr Rainfall=5.20"

Area (ac)	CN	Description
1.030	72	Woods/grass comb., Good, HSG C
0.060	74	>75% Grass cover, Good, HSG C
1.090	72	Weighted Average
1.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	100	0.0230	0.08		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.9	102	0.0775	1.95		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.4	131	0.0481	1.54		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	92	0.1957	2.21		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	46	0.1739	2.09		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	54	0.2037	2.26		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
23.5	525	Total			

Post-Development

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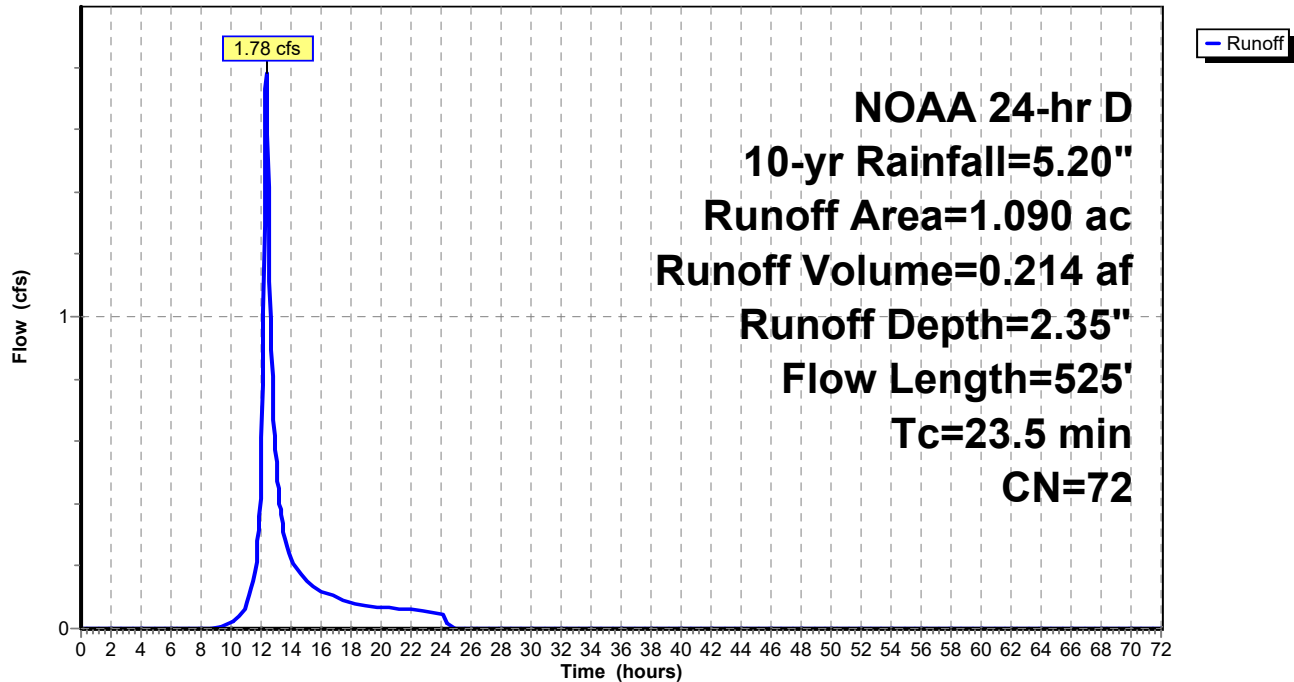
NOAA 24-hr D 10-yr Rainfall=5.20"

Printed 7/31/2023

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Subcatchment 1: Afterglow-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Subcatchment 1: Afterglow-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	5.20	2.35	0.00
1.00	0.06	0.00	0.00	54.00	5.20	2.35	0.00
2.00	0.12	0.00	0.00	55.00	5.20	2.35	0.00
3.00	0.20	0.00	0.00	56.00	5.20	2.35	0.00
4.00	0.27	0.00	0.00	57.00	5.20	2.35	0.00
5.00	0.36	0.00	0.00	58.00	5.20	2.35	0.00
6.00	0.44	0.00	0.00	59.00	5.20	2.35	0.00
7.00	0.55	0.00	0.00	60.00	5.20	2.35	0.00
8.00	0.67	0.00	0.00	61.00	5.20	2.35	0.00
9.00	0.82	0.00	0.00	62.00	5.20	2.35	0.00
10.00	1.03	0.02	0.02	63.00	5.20	2.35	0.00
11.00	1.35	0.07	0.07	64.00	5.20	2.35	0.00
12.00	2.49	0.52	0.50	65.00	5.20	2.35	0.00
13.00	3.85	1.35	0.53	66.00	5.20	2.35	0.00
14.00	4.17	1.58	0.22	67.00	5.20	2.35	0.00
15.00	4.38	1.73	0.16	68.00	5.20	2.35	0.00
16.00	4.53	1.84	0.12	69.00	5.20	2.35	0.00
17.00	4.65	1.93	0.10	70.00	5.20	2.35	0.00
18.00	4.76	2.01	0.08	71.00	5.20	2.35	0.00
19.00	4.84	2.08	0.07	72.00	5.20	2.35	0.00
20.00	4.93	2.14	0.07				
21.00	5.00	2.20	0.06				
22.00	5.08	2.26	0.06				
23.00	5.14	2.31	0.06				
24.00	5.20	2.35	0.05				
25.00	5.20	2.35	0.00				
26.00	5.20	2.35	0.00				
27.00	5.20	2.35	0.00				
28.00	5.20	2.35	0.00				
29.00	5.20	2.35	0.00				
30.00	5.20	2.35	0.00				
31.00	5.20	2.35	0.00				
32.00	5.20	2.35	0.00				
33.00	5.20	2.35	0.00				
34.00	5.20	2.35	0.00				
35.00	5.20	2.35	0.00				
36.00	5.20	2.35	0.00				
37.00	5.20	2.35	0.00				
38.00	5.20	2.35	0.00				
39.00	5.20	2.35	0.00				
40.00	5.20	2.35	0.00				
41.00	5.20	2.35	0.00				
42.00	5.20	2.35	0.00				
43.00	5.20	2.35	0.00				
44.00	5.20	2.35	0.00				
45.00	5.20	2.35	0.00				
46.00	5.20	2.35	0.00				
47.00	5.20	2.35	0.00				
48.00	5.20	2.35	0.00				
49.00	5.20	2.35	0.00				
50.00	5.20	2.35	0.00				
51.00	5.20	2.35	0.00				
52.00	5.20	2.35	0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Page 12

Summary for Subcatchment 2: Off-Site Afterglow-Perv

Runoff = 0.07 cfs @ 12.35 hrs, Volume= 0.008 af, Depth= 2.35"

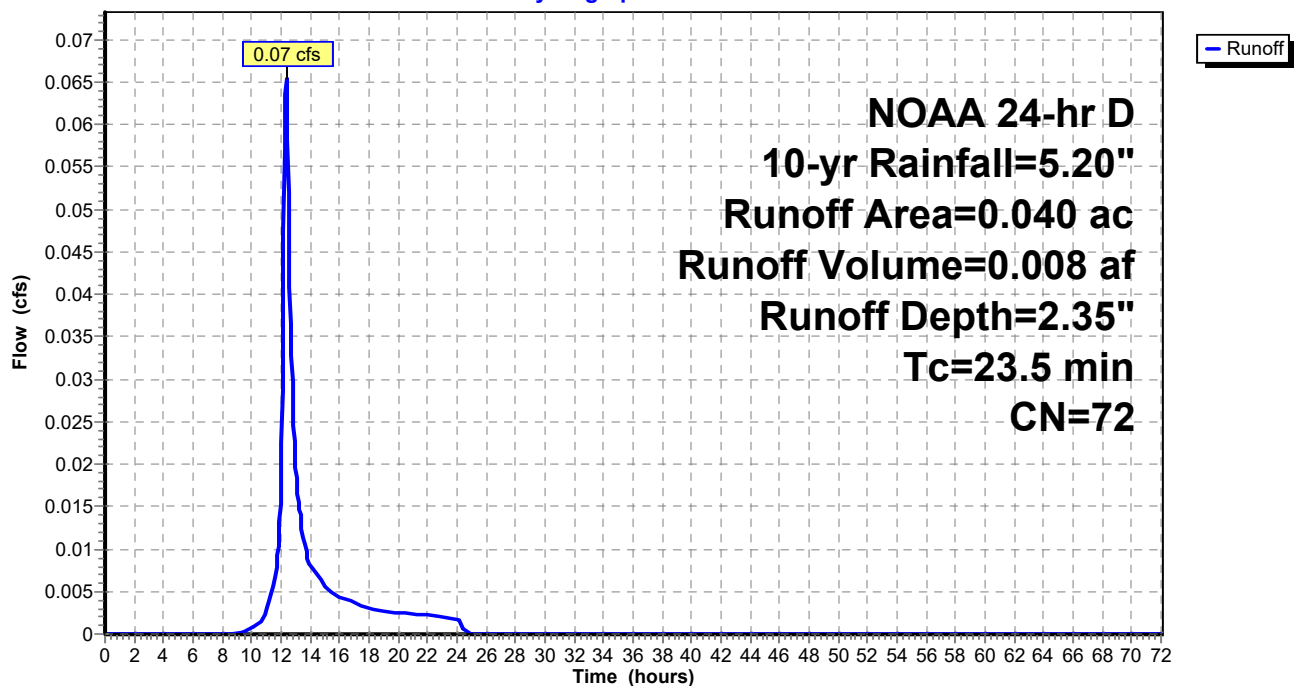
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10-yr Rainfall=5.20"

Area (ac)	CN	Description
0.040	72	Woods/grass comb., Good, HSG C
0.040		100.00% Pervious Area

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

Subcatchment 2: Off-Site Afterglow-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Subcatchment 2: Off-Site Afterglow-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	5.20	2.35	0.00
1.00	0.06	0.00	0.00	54.00	5.20	2.35	0.00
2.00	0.12	0.00	0.00	55.00	5.20	2.35	0.00
3.00	0.20	0.00	0.00	56.00	5.20	2.35	0.00
4.00	0.27	0.00	0.00	57.00	5.20	2.35	0.00
5.00	0.36	0.00	0.00	58.00	5.20	2.35	0.00
6.00	0.44	0.00	0.00	59.00	5.20	2.35	0.00
7.00	0.55	0.00	0.00	60.00	5.20	2.35	0.00
8.00	0.67	0.00	0.00	61.00	5.20	2.35	0.00
9.00	0.82	0.00	0.00	62.00	5.20	2.35	0.00
10.00	1.03	0.02	0.00	63.00	5.20	2.35	0.00
11.00	1.35	0.07	0.00	64.00	5.20	2.35	0.00
12.00	2.49	0.52	0.02	65.00	5.20	2.35	0.00
13.00	3.85	1.35	0.02	66.00	5.20	2.35	0.00
14.00	4.17	1.58	0.01	67.00	5.20	2.35	0.00
15.00	4.38	1.73	0.01	68.00	5.20	2.35	0.00
16.00	4.53	1.84	0.00	69.00	5.20	2.35	0.00
17.00	4.65	1.93	0.00	70.00	5.20	2.35	0.00
18.00	4.76	2.01	0.00	71.00	5.20	2.35	0.00
19.00	4.84	2.08	0.00	72.00	5.20	2.35	0.00
20.00	4.93	2.14	0.00				
21.00	5.00	2.20	0.00				
22.00	5.08	2.26	0.00				
23.00	5.14	2.31	0.00				
24.00	5.20	2.35	0.00				
25.00	5.20	2.35	0.00				
26.00	5.20	2.35	0.00				
27.00	5.20	2.35	0.00				
28.00	5.20	2.35	0.00				
29.00	5.20	2.35	0.00				
30.00	5.20	2.35	0.00				
31.00	5.20	2.35	0.00				
32.00	5.20	2.35	0.00				
33.00	5.20	2.35	0.00				
34.00	5.20	2.35	0.00				
35.00	5.20	2.35	0.00				
36.00	5.20	2.35	0.00				
37.00	5.20	2.35	0.00				
38.00	5.20	2.35	0.00				
39.00	5.20	2.35	0.00				
40.00	5.20	2.35	0.00				
41.00	5.20	2.35	0.00				
42.00	5.20	2.35	0.00				
43.00	5.20	2.35	0.00				
44.00	5.20	2.35	0.00				
45.00	5.20	2.35	0.00				
46.00	5.20	2.35	0.00				
47.00	5.20	2.35	0.00				
48.00	5.20	2.35	0.00				
49.00	5.20	2.35	0.00				
50.00	5.20	2.35	0.00				
51.00	5.20	2.35	0.00				
52.00	5.20	2.35	0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

Printed 7/31/2023

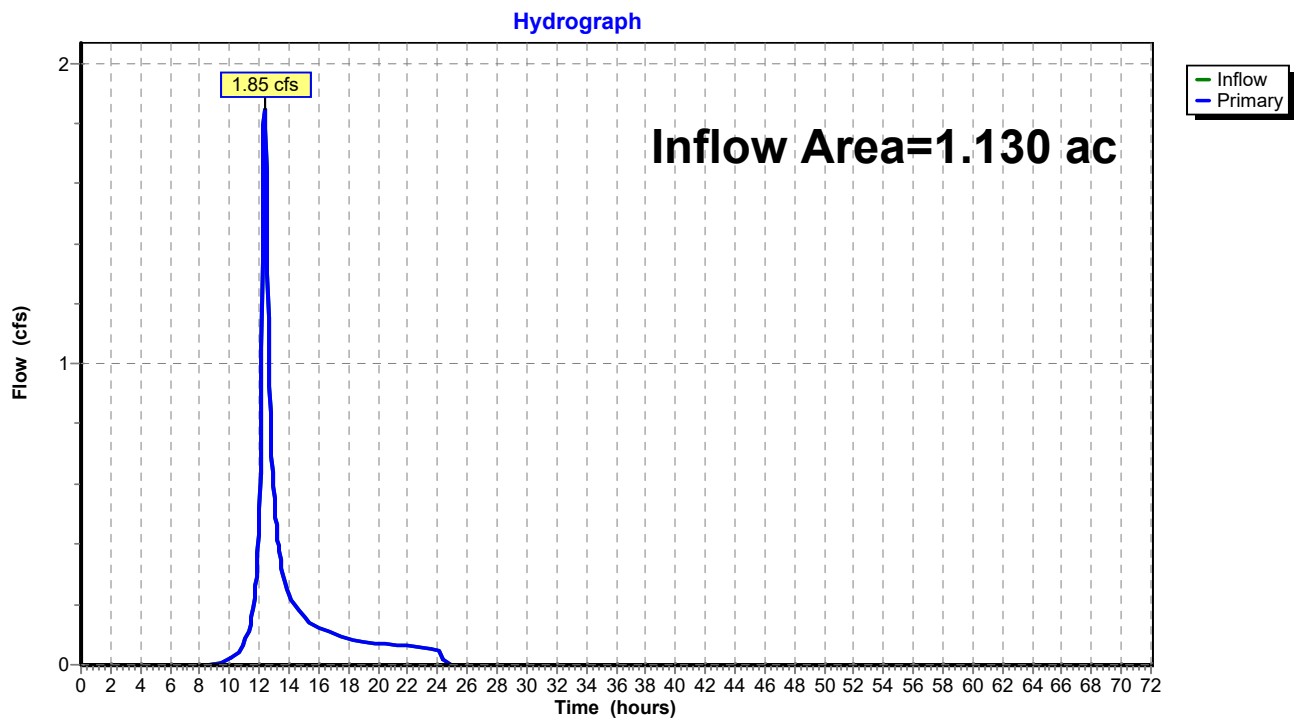
Page 14

Summary for Pond 3: Prop. DA-1 Overland to Afterglow

Inflow Area = 1.130 ac, 0.00% Impervious, Inflow Depth = 2.35" for 10-yr event
Inflow = 1.85 cfs @ 12.35 hrs, Volume= 0.222 af
Primary = 1.85 cfs @ 12.35 hrs, Volume= 0.222 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 3: Prop. DA-1 Overland to Afterglow



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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Pond 3: Prop. DA-1 Overland to Afterglow

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.00		0.00	61.00	0.00		0.00
9.00	0.00		0.00	62.00	0.00		0.00
10.00	0.02		0.02	63.00	0.00		0.00
11.00	0.08		0.08	64.00	0.00		0.00
12.00	0.52		0.52	65.00	0.00		0.00
13.00	0.55		0.55	66.00	0.00		0.00
14.00	0.23		0.23	67.00	0.00		0.00
15.00	0.16		0.16	68.00	0.00		0.00
16.00	0.12		0.12	69.00	0.00		0.00
17.00	0.11		0.11	70.00	0.00		0.00
18.00	0.09		0.09	71.00	0.00		0.00
19.00	0.08		0.08	72.00	0.00		0.00
20.00	0.07		0.07				
21.00	0.07		0.07				
22.00	0.06		0.06				
23.00	0.06		0.06				
24.00	0.05		0.05				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Summary for Subcatchment 1: Afterglow-Perv

Runoff = 4.04 cfs @ 12.34 hrs, Volume= 0.482 af, Depth= 5.30"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100-yr Rainfall=8.69"

Area (ac)	CN	Description
1.030	72	Woods/grass comb., Good, HSG C
0.060	74	>75% Grass cover, Good, HSG C
1.090	72	Weighted Average
1.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	100	0.0230	0.08		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.9	102	0.0775	1.95		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.4	131	0.0481	1.54		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	92	0.1957	2.21		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	46	0.1739	2.09		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	54	0.2037	2.26		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
23.5	525	Total			

Post-Development

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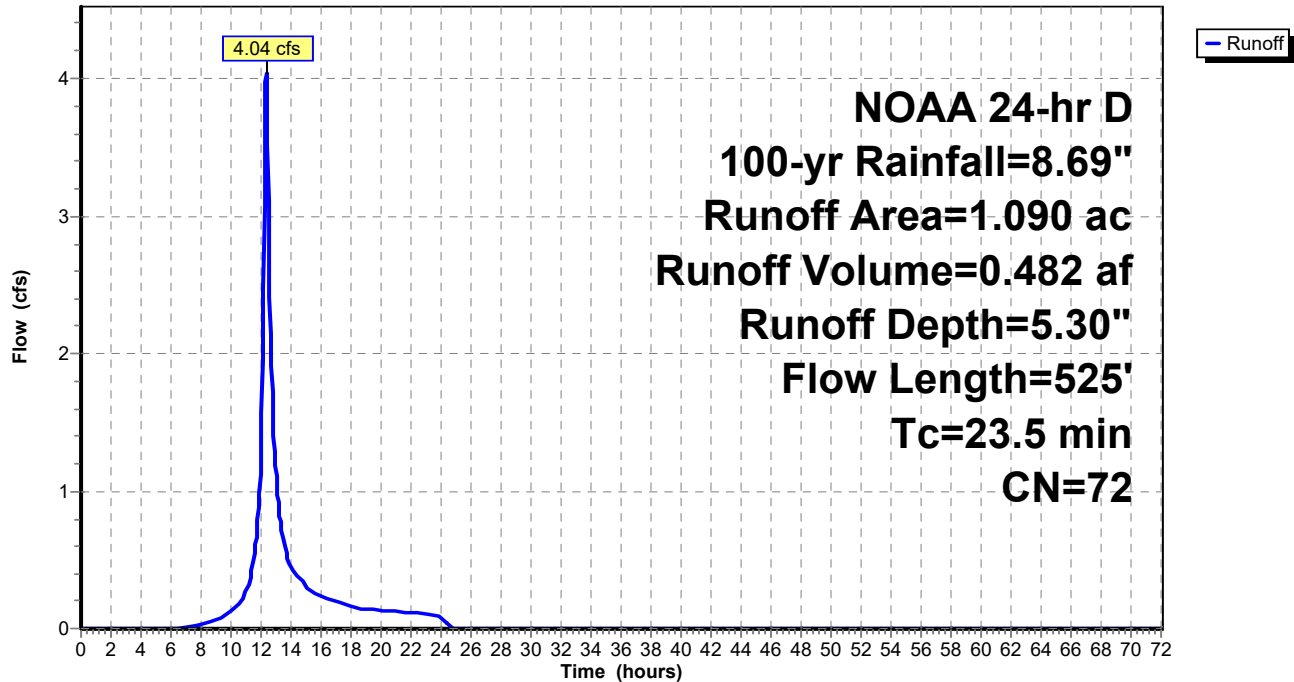
NOAA 24-hr D 100-yr Rainfall=8.69"

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Subcatchment 1: Afterglow-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Hydrograph for Subcatchment 1: Afterglow-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	8.69	5.30	0.00
1.00	0.10	0.00	0.00	54.00	8.69	5.30	0.00
2.00	0.21	0.00	0.00	55.00	8.69	5.30	0.00
3.00	0.33	0.00	0.00	56.00	8.69	5.30	0.00
4.00	0.46	0.00	0.00	57.00	8.69	5.30	0.00
5.00	0.59	0.00	0.00	58.00	8.69	5.30	0.00
6.00	0.74	0.00	0.00	59.00	8.69	5.30	0.00
7.00	0.92	0.00	0.01	60.00	8.69	5.30	0.00
8.00	1.13	0.03	0.03	61.00	8.69	5.30	0.00
9.00	1.38	0.08	0.06	62.00	8.69	5.30	0.00
10.00	1.72	0.18	0.13	63.00	8.69	5.30	0.00
11.00	2.26	0.41	0.27	64.00	8.69	5.30	0.00
12.00	4.16	1.58	1.31	65.00	8.69	5.30	0.00
13.00	6.43	3.35	1.11	66.00	8.69	5.30	0.00
14.00	6.97	3.80	0.44	67.00	8.69	5.30	0.00
15.00	7.31	4.10	0.31	68.00	8.69	5.30	0.00
16.00	7.56	4.31	0.23	69.00	8.69	5.30	0.00
17.00	7.77	4.50	0.20	70.00	8.69	5.30	0.00
18.00	7.95	4.65	0.16	71.00	8.69	5.30	0.00
19.00	8.10	4.78	0.14	72.00	8.69	5.30	0.00
20.00	8.23	4.90	0.13				
21.00	8.36	5.01	0.12				
22.00	8.48	5.12	0.11				
23.00	8.59	5.22	0.11				
24.00	8.69	5.30	0.10				
25.00	8.69	5.30	0.00				
26.00	8.69	5.30	0.00				
27.00	8.69	5.30	0.00				
28.00	8.69	5.30	0.00				
29.00	8.69	5.30	0.00				
30.00	8.69	5.30	0.00				
31.00	8.69	5.30	0.00				
32.00	8.69	5.30	0.00				
33.00	8.69	5.30	0.00				
34.00	8.69	5.30	0.00				
35.00	8.69	5.30	0.00				
36.00	8.69	5.30	0.00				
37.00	8.69	5.30	0.00				
38.00	8.69	5.30	0.00				
39.00	8.69	5.30	0.00				
40.00	8.69	5.30	0.00				
41.00	8.69	5.30	0.00				
42.00	8.69	5.30	0.00				
43.00	8.69	5.30	0.00				
44.00	8.69	5.30	0.00				
45.00	8.69	5.30	0.00				
46.00	8.69	5.30	0.00				
47.00	8.69	5.30	0.00				
48.00	8.69	5.30	0.00				
49.00	8.69	5.30	0.00				
50.00	8.69	5.30	0.00				
51.00	8.69	5.30	0.00				
52.00	8.69	5.30	0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Summary for Subcatchment 2: Off-Site Afterglow-Perv

Runoff = 0.15 cfs @ 12.34 hrs, Volume= 0.018 af, Depth= 5.30"

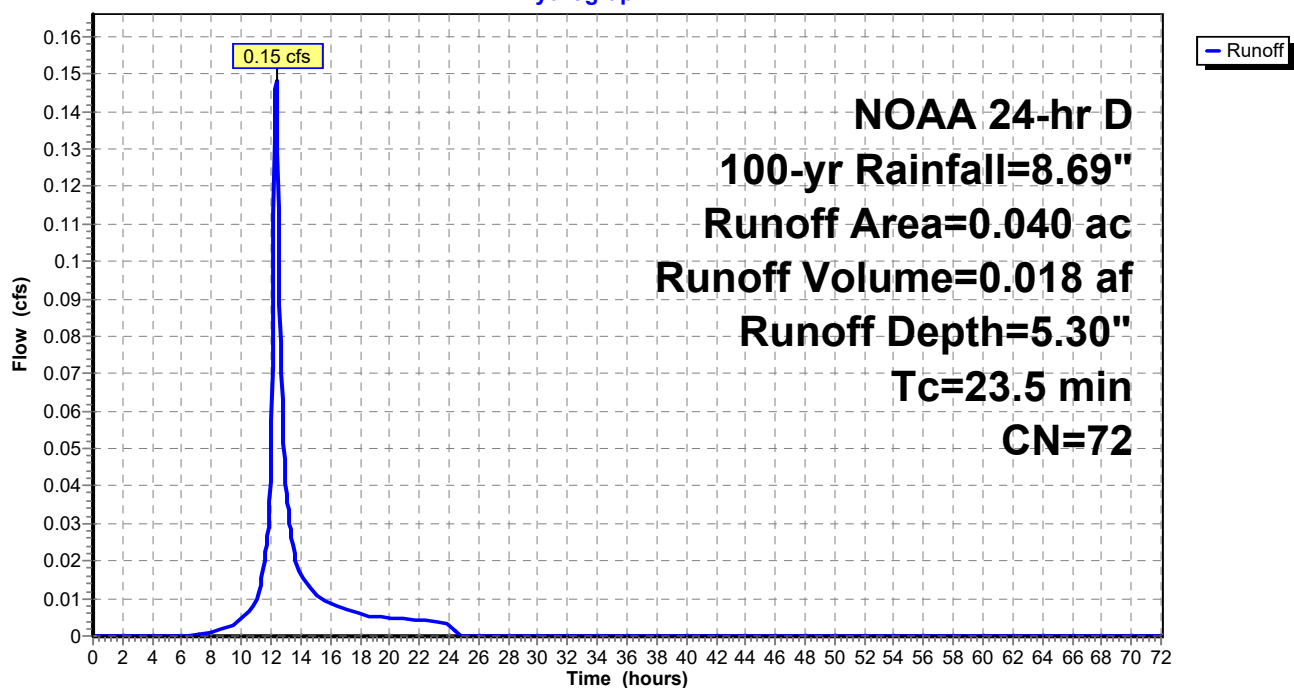
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100-yr Rainfall=8.69"

Area (ac)	CN	Description
0.040	72	Woods/grass comb., Good, HSG C
0.040		100.00% Pervious Area

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

Subcatchment 2: Off-Site Afterglow-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Hydrograph for Subcatchment 2: Off-Site Afterglow-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	8.69	5.30	0.00
1.00	0.10	0.00	0.00	54.00	8.69	5.30	0.00
2.00	0.21	0.00	0.00	55.00	8.69	5.30	0.00
3.00	0.33	0.00	0.00	56.00	8.69	5.30	0.00
4.00	0.46	0.00	0.00	57.00	8.69	5.30	0.00
5.00	0.59	0.00	0.00	58.00	8.69	5.30	0.00
6.00	0.74	0.00	0.00	59.00	8.69	5.30	0.00
7.00	0.92	0.00	0.00	60.00	8.69	5.30	0.00
8.00	1.13	0.03	0.00	61.00	8.69	5.30	0.00
9.00	1.38	0.08	0.00	62.00	8.69	5.30	0.00
10.00	1.72	0.18	0.00	63.00	8.69	5.30	0.00
11.00	2.26	0.41	0.01	64.00	8.69	5.30	0.00
12.00	4.16	1.58	0.05	65.00	8.69	5.30	0.00
13.00	6.43	3.35	0.04	66.00	8.69	5.30	0.00
14.00	6.97	3.80	0.02	67.00	8.69	5.30	0.00
15.00	7.31	4.10	0.01	68.00	8.69	5.30	0.00
16.00	7.56	4.31	0.01	69.00	8.69	5.30	0.00
17.00	7.77	4.50	0.01	70.00	8.69	5.30	0.00
18.00	7.95	4.65	0.01	71.00	8.69	5.30	0.00
19.00	8.10	4.78	0.01	72.00	8.69	5.30	0.00
20.00	8.23	4.90	0.00				
21.00	8.36	5.01	0.00				
22.00	8.48	5.12	0.00				
23.00	8.59	5.22	0.00				
24.00	8.69	5.30	0.00				
25.00	8.69	5.30	0.00				
26.00	8.69	5.30	0.00				
27.00	8.69	5.30	0.00				
28.00	8.69	5.30	0.00				
29.00	8.69	5.30	0.00				
30.00	8.69	5.30	0.00				
31.00	8.69	5.30	0.00				
32.00	8.69	5.30	0.00				
33.00	8.69	5.30	0.00				
34.00	8.69	5.30	0.00				
35.00	8.69	5.30	0.00				
36.00	8.69	5.30	0.00				
37.00	8.69	5.30	0.00				
38.00	8.69	5.30	0.00				
39.00	8.69	5.30	0.00				
40.00	8.69	5.30	0.00				
41.00	8.69	5.30	0.00				
42.00	8.69	5.30	0.00				
43.00	8.69	5.30	0.00				
44.00	8.69	5.30	0.00				
45.00	8.69	5.30	0.00				
46.00	8.69	5.30	0.00				
47.00	8.69	5.30	0.00				
48.00	8.69	5.30	0.00				
49.00	8.69	5.30	0.00				
50.00	8.69	5.30	0.00				
51.00	8.69	5.30	0.00				
52.00	8.69	5.30	0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Page 21

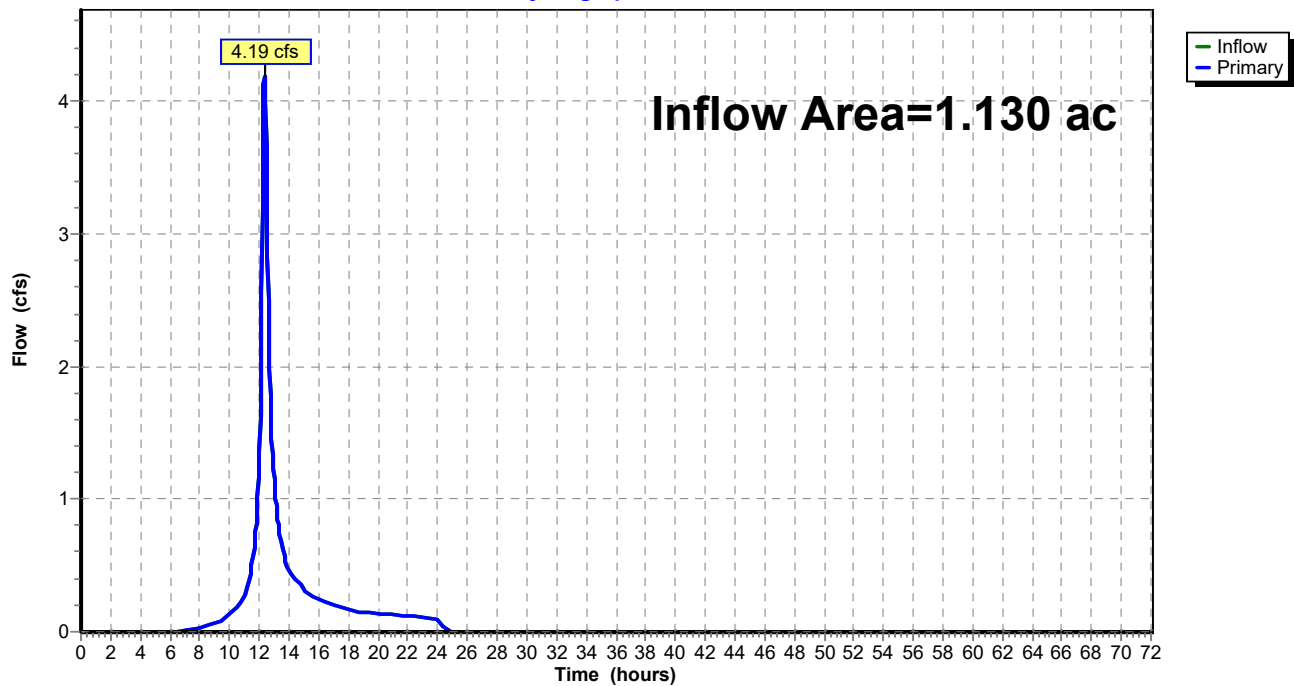
Summary for Pond 3: Prop. DA-1 Overland to Afterglow

Inflow Area = 1.130 ac, 0.00% Impervious, Inflow Depth = 5.30" for 100-yr event
Inflow = 4.19 cfs @ 12.34 hrs, Volume= 0.500 af
Primary = 4.19 cfs @ 12.34 hrs, Volume= 0.500 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 3: Prop. DA-1 Overland to Afterglow

Hydrograph



Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

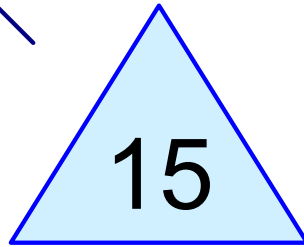
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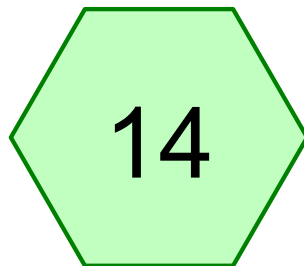
Hydrograph for Pond 3: Prop. DA-1 Overland to Afterglow

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.01		0.01	60.00	0.00		0.00
8.00	0.03		0.03	61.00	0.00		0.00
9.00	0.06		0.06	62.00	0.00		0.00
10.00	0.13		0.13	63.00	0.00		0.00
11.00	0.28		0.28	64.00	0.00		0.00
12.00	1.36		1.36	65.00	0.00		0.00
13.00	1.15		1.15	66.00	0.00		0.00
14.00	0.46		0.46	67.00	0.00		0.00
15.00	0.32		0.32	68.00	0.00		0.00
16.00	0.24		0.24	69.00	0.00		0.00
17.00	0.21		0.21	70.00	0.00		0.00
18.00	0.17		0.17	71.00	0.00		0.00
19.00	0.15		0.15	72.00	0.00		0.00
20.00	0.14		0.14				
21.00	0.13		0.13				
22.00	0.12		0.12				
23.00	0.11		0.11				
24.00	0.10		0.10				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

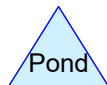
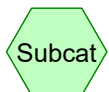
**HYDROCAD FROM JANUARY 11, 2023 STORMWATER
MANAGEMENT REPORT – DELMARVA UNIT HYDROGRAPH
OVERLAND TO BLOOMFIELD (DA-3)**



Prop. DA-3 Overland to
Bloomfield



Overland to Bloom-perv



Routing Diagram for Post-Development

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Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Page 2

Summary for Subcatchment 14: Overland to Bloom-perv

Runoff = 1.19 cfs @ 12.27 hrs, Volume= 0.174 af, Depth= 1.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2-yr Rainfall=3.42"

Area (ac)	CN	Description
1.170	74	>75% Grass cover, Good, HSG C
0.780	70	Woods, Good, HSG C
1.950	72	Weighted Average
1.950		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	100	0.0300	0.21		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
2.0	174	0.0445	1.48		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.7	300	0.0720	1.88		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.6	79	0.1012	2.23		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	61	0.0410	1.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.5	61	0.0738	1.90		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.0	13	1.0000	7.00		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
14.6	788	Total			

Post-Development

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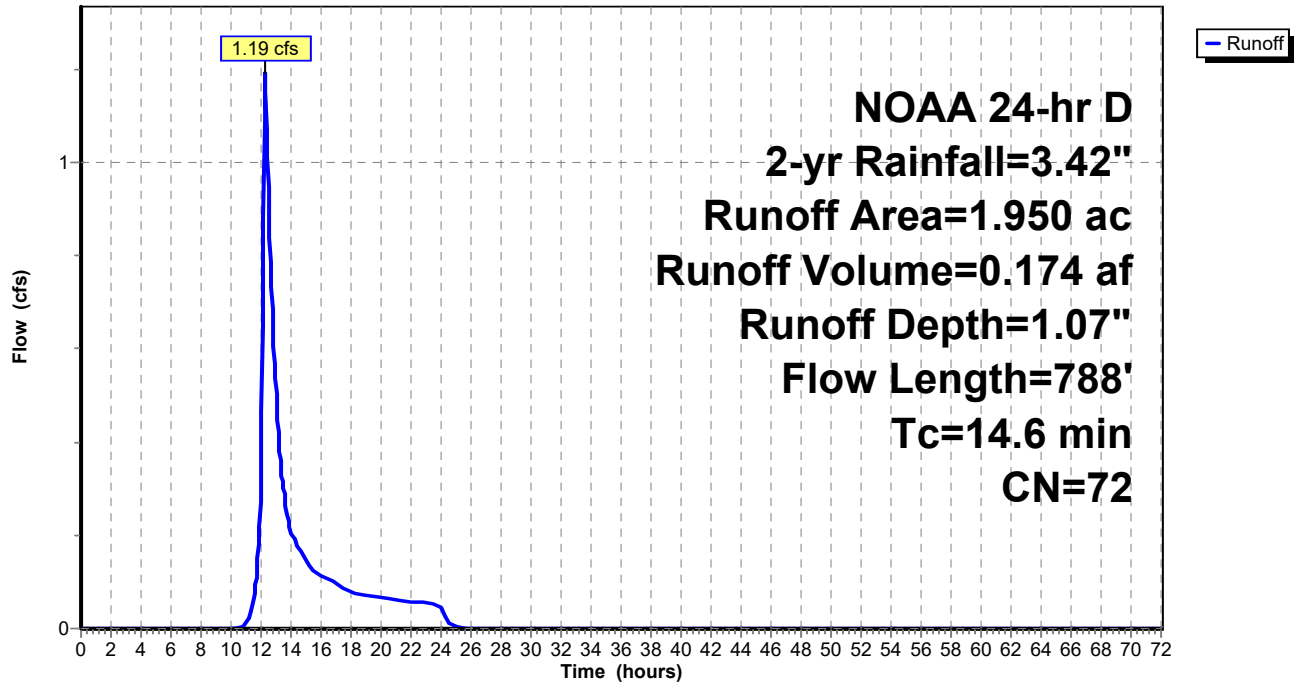
NOAA 24-hr D 2-yr Rainfall=3.42"

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Page 3

Subcatchment 14: Overland to Bloom-perv

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Subcatchment 14: Overland to Bloom-perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	3.42	1.07	0.00
1.00	0.04	0.00	0.00	54.00	3.42	1.07	0.00
2.00	0.08	0.00	0.00	55.00	3.42	1.07	0.00
3.00	0.13	0.00	0.00	56.00	3.42	1.07	0.00
4.00	0.18	0.00	0.00	57.00	3.42	1.07	0.00
5.00	0.23	0.00	0.00	58.00	3.42	1.07	0.00
6.00	0.29	0.00	0.00	59.00	3.42	1.07	0.00
7.00	0.36	0.00	0.00	60.00	3.42	1.07	0.00
8.00	0.44	0.00	0.00	61.00	3.42	1.07	0.00
9.00	0.54	0.00	0.00	62.00	3.42	1.07	0.00
10.00	0.68	0.00	0.00	63.00	3.42	1.07	0.00
11.00	0.89	0.00	0.01	64.00	3.42	1.07	0.00
12.00	1.64	0.16	0.35	65.00	3.42	1.07	0.00
13.00	2.53	0.54	0.50	66.00	3.42	1.07	0.00
14.00	2.74	0.66	0.21	67.00	3.42	1.07	0.00
15.00	2.88	0.74	0.14	68.00	3.42	1.07	0.00
16.00	2.98	0.79	0.11	69.00	3.42	1.07	0.00
17.00	3.06	0.84	0.10	70.00	3.42	1.07	0.00
18.00	3.13	0.89	0.08	71.00	3.42	1.07	0.00
19.00	3.19	0.92	0.07	72.00	3.42	1.07	0.00
20.00	3.24	0.95	0.07				
21.00	3.29	0.99	0.06				
22.00	3.34	1.02	0.06				
23.00	3.38	1.04	0.05				
24.00	3.42	1.07	0.05				
25.00	3.42	1.07	0.00				
26.00	3.42	1.07	0.00				
27.00	3.42	1.07	0.00				
28.00	3.42	1.07	0.00				
29.00	3.42	1.07	0.00				
30.00	3.42	1.07	0.00				
31.00	3.42	1.07	0.00				
32.00	3.42	1.07	0.00				
33.00	3.42	1.07	0.00				
34.00	3.42	1.07	0.00				
35.00	3.42	1.07	0.00				
36.00	3.42	1.07	0.00				
37.00	3.42	1.07	0.00				
38.00	3.42	1.07	0.00				
39.00	3.42	1.07	0.00				
40.00	3.42	1.07	0.00				
41.00	3.42	1.07	0.00				
42.00	3.42	1.07	0.00				
43.00	3.42	1.07	0.00				
44.00	3.42	1.07	0.00				
45.00	3.42	1.07	0.00				
46.00	3.42	1.07	0.00				
47.00	3.42	1.07	0.00				
48.00	3.42	1.07	0.00				
49.00	3.42	1.07	0.00				
50.00	3.42	1.07	0.00				
51.00	3.42	1.07	0.00				
52.00	3.42	1.07	0.00				

Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Page 5

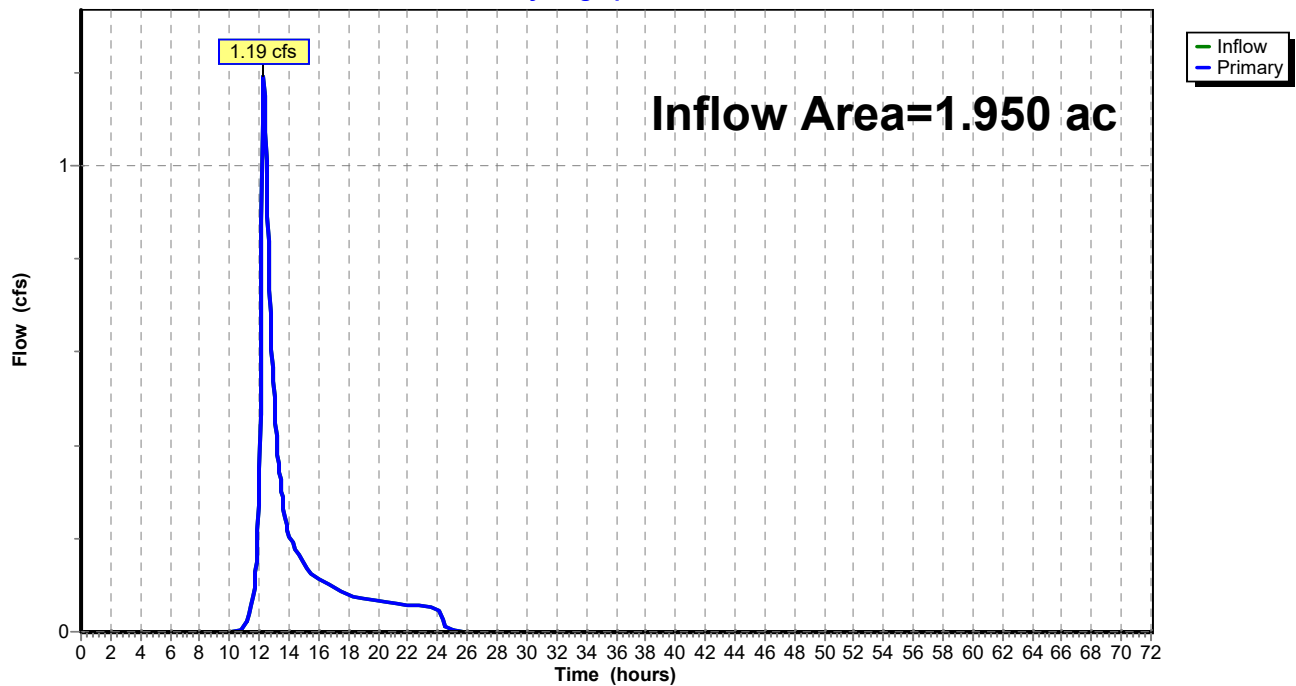
Summary for Pond 15: Prop. DA-3 Overland to Bloomfield

Inflow Area = 1.950 ac, 0.00% Impervious, Inflow Depth = 1.07" for 2-yr event
Inflow = 1.19 cfs @ 12.27 hrs, Volume= 0.174 af
Primary = 1.19 cfs @ 12.27 hrs, Volume= 0.174 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 15: Prop. DA-3 Overland to Bloomfield

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Pond 15: Prop. DA-3 Overland to Bloomfield

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.00		0.00	61.00	0.00		0.00
9.00	0.00		0.00	62.00	0.00		0.00
10.00	0.00		0.00	63.00	0.00		0.00
11.00	0.01		0.01	64.00	0.00		0.00
12.00	0.35		0.35	65.00	0.00		0.00
13.00	0.50		0.50	66.00	0.00		0.00
14.00	0.21		0.21	67.00	0.00		0.00
15.00	0.14		0.14	68.00	0.00		0.00
16.00	0.11		0.11	69.00	0.00		0.00
17.00	0.10		0.10	70.00	0.00		0.00
18.00	0.08		0.08	71.00	0.00		0.00
19.00	0.07		0.07	72.00	0.00		0.00
20.00	0.07		0.07				
21.00	0.06		0.06				
22.00	0.06		0.06				
23.00	0.05		0.05				
24.00	0.05		0.05				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Summary for Subcatchment 14: Overland to Bloom-perv

Runoff = 2.81 cfs @ 12.26 hrs, Volume= 0.382 af, Depth= 2.35"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10-yr Rainfall=5.20"

Area (ac)	CN	Description
1.170	74	>75% Grass cover, Good, HSG C
0.780	70	Woods, Good, HSG C
1.950	72	Weighted Average
1.950		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	100	0.0300	0.21		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
2.0	174	0.0445	1.48		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.7	300	0.0720	1.88		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.6	79	0.1012	2.23		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	61	0.0410	1.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.5	61	0.0738	1.90		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.0	13	1.0000	7.00		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
14.6	788	Total			

Post-Development

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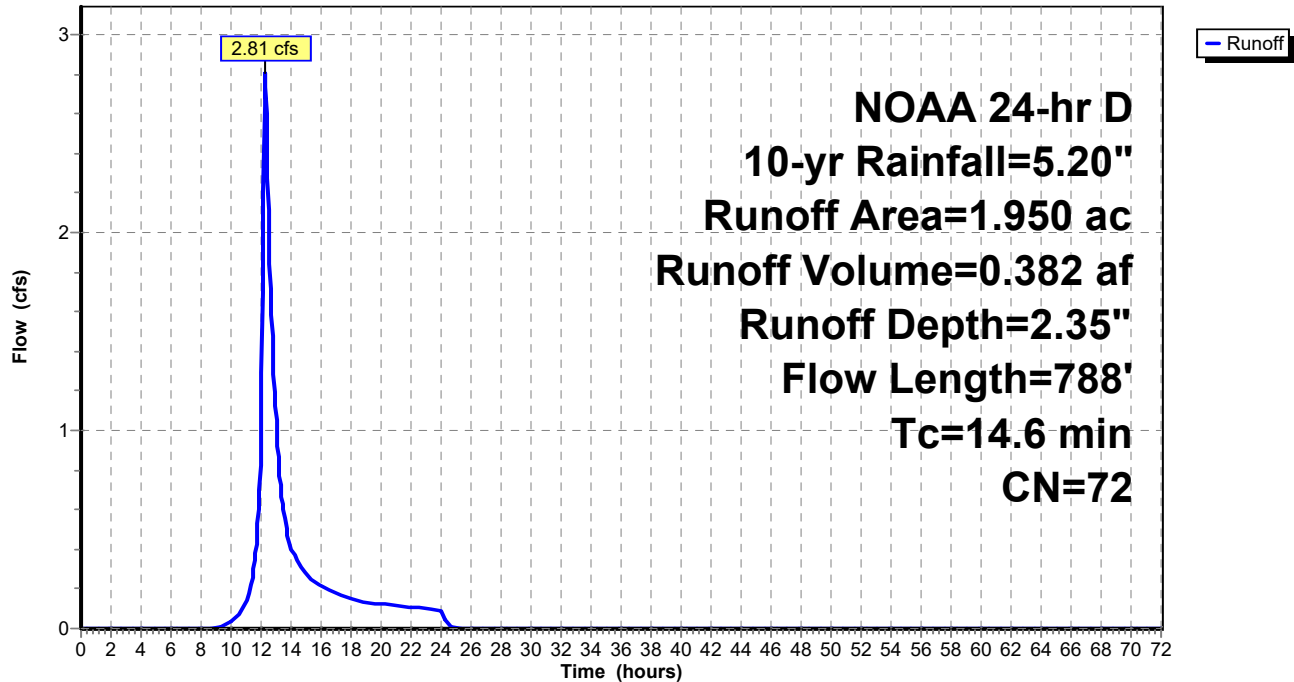
NOAA 24-hr D 10-yr Rainfall=5.20"

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Page 8

Subcatchment 14: Overland to Bloom-perv

Hydrograph



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Subcatchment 14: Overland to Bloom-perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	5.20	2.35	0.00
1.00	0.06	0.00	0.00	54.00	5.20	2.35	0.00
2.00	0.12	0.00	0.00	55.00	5.20	2.35	0.00
3.00	0.20	0.00	0.00	56.00	5.20	2.35	0.00
4.00	0.27	0.00	0.00	57.00	5.20	2.35	0.00
5.00	0.36	0.00	0.00	58.00	5.20	2.35	0.00
6.00	0.44	0.00	0.00	59.00	5.20	2.35	0.00
7.00	0.55	0.00	0.00	60.00	5.20	2.35	0.00
8.00	0.67	0.00	0.00	61.00	5.20	2.35	0.00
9.00	0.82	0.00	0.00	62.00	5.20	2.35	0.00
10.00	1.03	0.02	0.04	63.00	5.20	2.35	0.00
11.00	1.35	0.07	0.13	64.00	5.20	2.35	0.00
12.00	2.49	0.52	1.02	65.00	5.20	2.35	0.00
13.00	3.85	1.35	1.05	66.00	5.20	2.35	0.00
14.00	4.17	1.58	0.41	67.00	5.20	2.35	0.00
15.00	4.38	1.73	0.28	68.00	5.20	2.35	0.00
16.00	4.53	1.84	0.21	69.00	5.20	2.35	0.00
17.00	4.65	1.93	0.18	70.00	5.20	2.35	0.00
18.00	4.76	2.01	0.15	71.00	5.20	2.35	0.00
19.00	4.84	2.08	0.13	72.00	5.20	2.35	0.00
20.00	4.93	2.14	0.12				
21.00	5.00	2.20	0.12				
22.00	5.08	2.26	0.11				
23.00	5.14	2.31	0.10				
24.00	5.20	2.35	0.09				
25.00	5.20	2.35	0.00				
26.00	5.20	2.35	0.00				
27.00	5.20	2.35	0.00				
28.00	5.20	2.35	0.00				
29.00	5.20	2.35	0.00				
30.00	5.20	2.35	0.00				
31.00	5.20	2.35	0.00				
32.00	5.20	2.35	0.00				
33.00	5.20	2.35	0.00				
34.00	5.20	2.35	0.00				
35.00	5.20	2.35	0.00				
36.00	5.20	2.35	0.00				
37.00	5.20	2.35	0.00				
38.00	5.20	2.35	0.00				
39.00	5.20	2.35	0.00				
40.00	5.20	2.35	0.00				
41.00	5.20	2.35	0.00				
42.00	5.20	2.35	0.00				
43.00	5.20	2.35	0.00				
44.00	5.20	2.35	0.00				
45.00	5.20	2.35	0.00				
46.00	5.20	2.35	0.00				
47.00	5.20	2.35	0.00				
48.00	5.20	2.35	0.00				
49.00	5.20	2.35	0.00				
50.00	5.20	2.35	0.00				
51.00	5.20	2.35	0.00				
52.00	5.20	2.35	0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Page 10

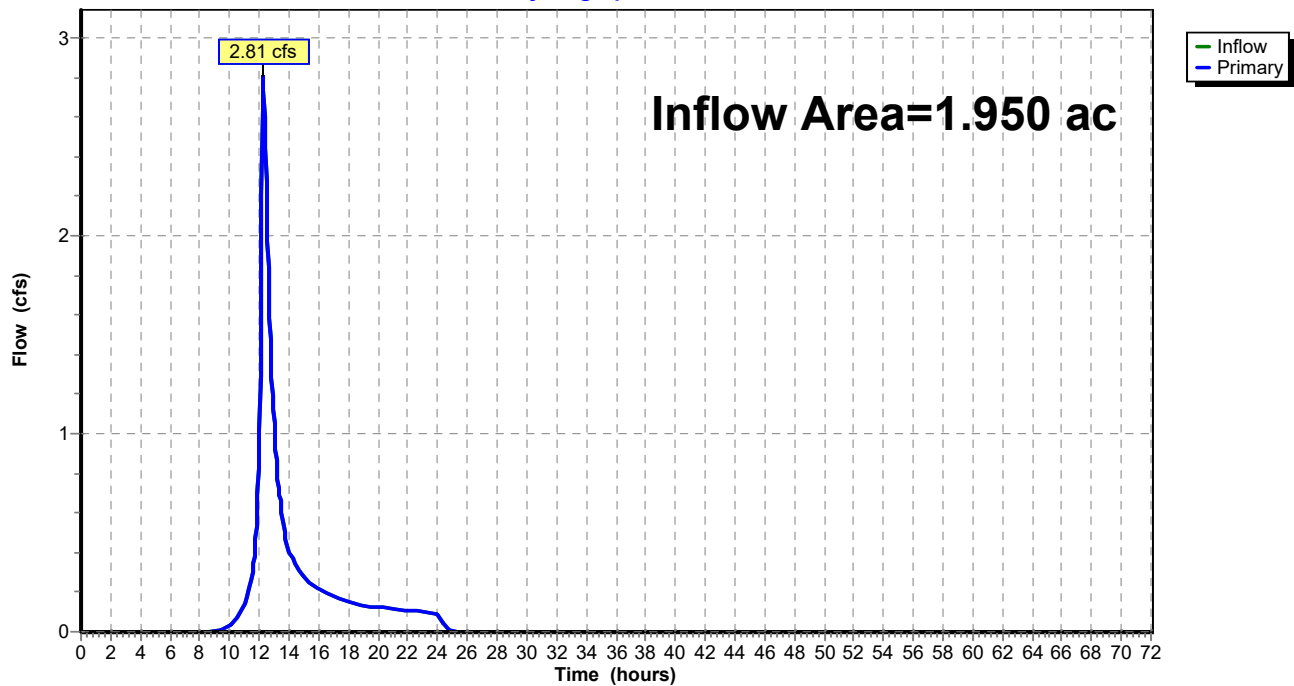
Summary for Pond 15: Prop. DA-3 Overland to Bloomfield

Inflow Area = 1.950 ac, 0.00% Impervious, Inflow Depth = 2.35" for 10-yr event
Inflow = 2.81 cfs @ 12.26 hrs, Volume= 0.382 af
Primary = 2.81 cfs @ 12.26 hrs, Volume= 0.382 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 15: Prop. DA-3 Overland to Bloomfield

Hydrograph



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Pond 15: Prop. DA-3 Overland to Bloomfield

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.00		0.00	61.00	0.00		0.00
9.00	0.00		0.00	62.00	0.00		0.00
10.00	0.04		0.04	63.00	0.00		0.00
11.00	0.13		0.13	64.00	0.00		0.00
12.00	1.02		1.02	65.00	0.00		0.00
13.00	1.05		1.05	66.00	0.00		0.00
14.00	0.41		0.41	67.00	0.00		0.00
15.00	0.28		0.28	68.00	0.00		0.00
16.00	0.21		0.21	69.00	0.00		0.00
17.00	0.18		0.18	70.00	0.00		0.00
18.00	0.15		0.15	71.00	0.00		0.00
19.00	0.13		0.13	72.00	0.00		0.00
20.00	0.12		0.12				
21.00	0.12		0.12				
22.00	0.11		0.11				
23.00	0.10		0.10				
24.00	0.09		0.09				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Summary for Subcatchment 14: Overland to Bloom-perv

Runoff = 6.43 cfs @ 12.25 hrs, Volume= 0.862 af, Depth= 5.30"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100-yr Rainfall=8.69"

Area (ac)	CN	Description
1.170	74	>75% Grass cover, Good, HSG C
0.780	70	Woods, Good, HSG C
1.950	72	Weighted Average
1.950		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	100	0.0300	0.21		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
2.0	174	0.0445	1.48		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.7	300	0.0720	1.88		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.6	79	0.1012	2.23		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	61	0.0410	1.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.5	61	0.0738	1.90		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.0	13	1.0000	7.00		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
14.6	788	Total			

Post-Development

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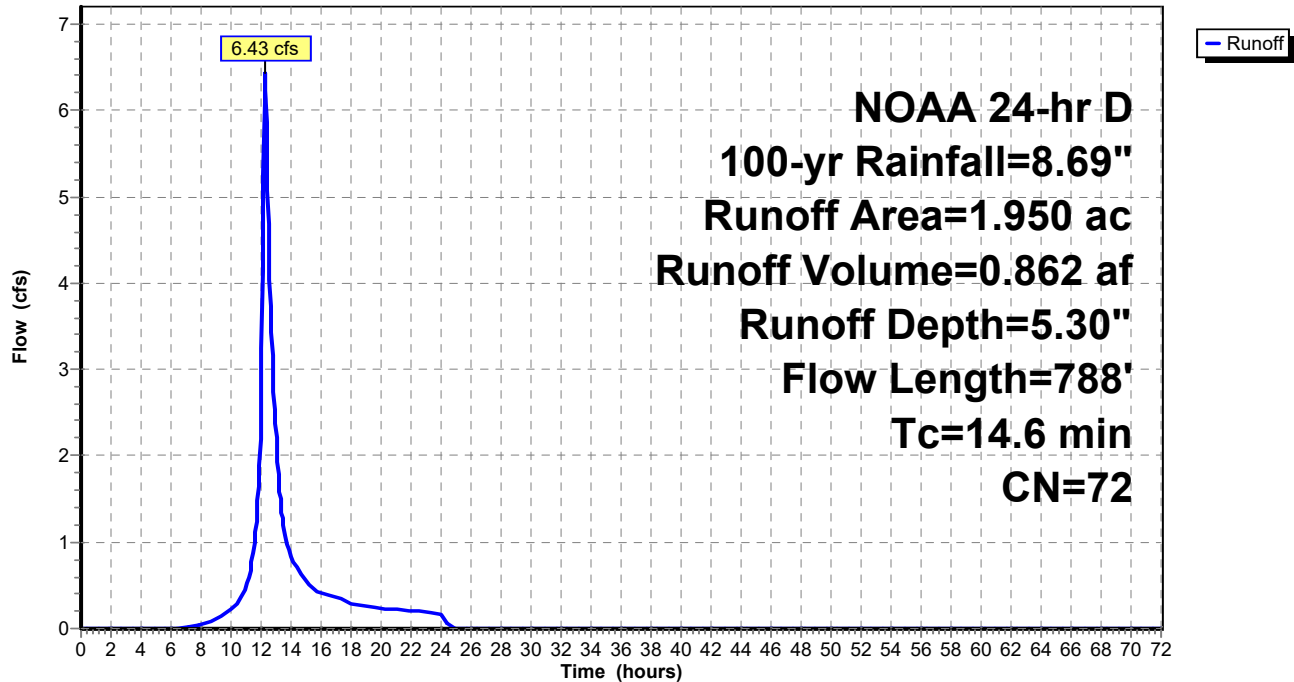
NOAA 24-hr D 100-yr Rainfall=8.69"

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Subcatchment 14: Overland to Bloom-perv

Hydrograph



Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Hydrograph for Subcatchment 14: Overland to Bloom-perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	8.69	5.30	0.00
1.00	0.10	0.00	0.00	54.00	8.69	5.30	0.00
2.00	0.21	0.00	0.00	55.00	8.69	5.30	0.00
3.00	0.33	0.00	0.00	56.00	8.69	5.30	0.00
4.00	0.46	0.00	0.00	57.00	8.69	5.30	0.00
5.00	0.59	0.00	0.00	58.00	8.69	5.30	0.00
6.00	0.74	0.00	0.00	59.00	8.69	5.30	0.00
7.00	0.92	0.00	0.01	60.00	8.69	5.30	0.00
8.00	1.13	0.03	0.05	61.00	8.69	5.30	0.00
9.00	1.38	0.08	0.11	62.00	8.69	5.30	0.00
10.00	1.72	0.18	0.22	63.00	8.69	5.30	0.00
11.00	2.26	0.41	0.49	64.00	8.69	5.30	0.00
12.00	4.16	1.58	2.62	65.00	8.69	5.30	0.00
13.00	6.43	3.35	2.21	66.00	8.69	5.30	0.00
14.00	6.97	3.80	0.82	67.00	8.69	5.30	0.00
15.00	7.31	4.10	0.55	68.00	8.69	5.30	0.00
16.00	7.56	4.31	0.42	69.00	8.69	5.30	0.00
17.00	7.77	4.50	0.36	70.00	8.69	5.30	0.00
18.00	7.95	4.65	0.29	71.00	8.69	5.30	0.00
19.00	8.10	4.78	0.25	72.00	8.69	5.30	0.00
20.00	8.23	4.90	0.24				
21.00	8.36	5.01	0.22				
22.00	8.48	5.12	0.21				
23.00	8.59	5.22	0.19				
24.00	8.69	5.30	0.17				
25.00	8.69	5.30	0.00				
26.00	8.69	5.30	0.00				
27.00	8.69	5.30	0.00				
28.00	8.69	5.30	0.00				
29.00	8.69	5.30	0.00				
30.00	8.69	5.30	0.00				
31.00	8.69	5.30	0.00				
32.00	8.69	5.30	0.00				
33.00	8.69	5.30	0.00				
34.00	8.69	5.30	0.00				
35.00	8.69	5.30	0.00				
36.00	8.69	5.30	0.00				
37.00	8.69	5.30	0.00				
38.00	8.69	5.30	0.00				
39.00	8.69	5.30	0.00				
40.00	8.69	5.30	0.00				
41.00	8.69	5.30	0.00				
42.00	8.69	5.30	0.00				
43.00	8.69	5.30	0.00				
44.00	8.69	5.30	0.00				
45.00	8.69	5.30	0.00				
46.00	8.69	5.30	0.00				
47.00	8.69	5.30	0.00				
48.00	8.69	5.30	0.00				
49.00	8.69	5.30	0.00				
50.00	8.69	5.30	0.00				
51.00	8.69	5.30	0.00				
52.00	8.69	5.30	0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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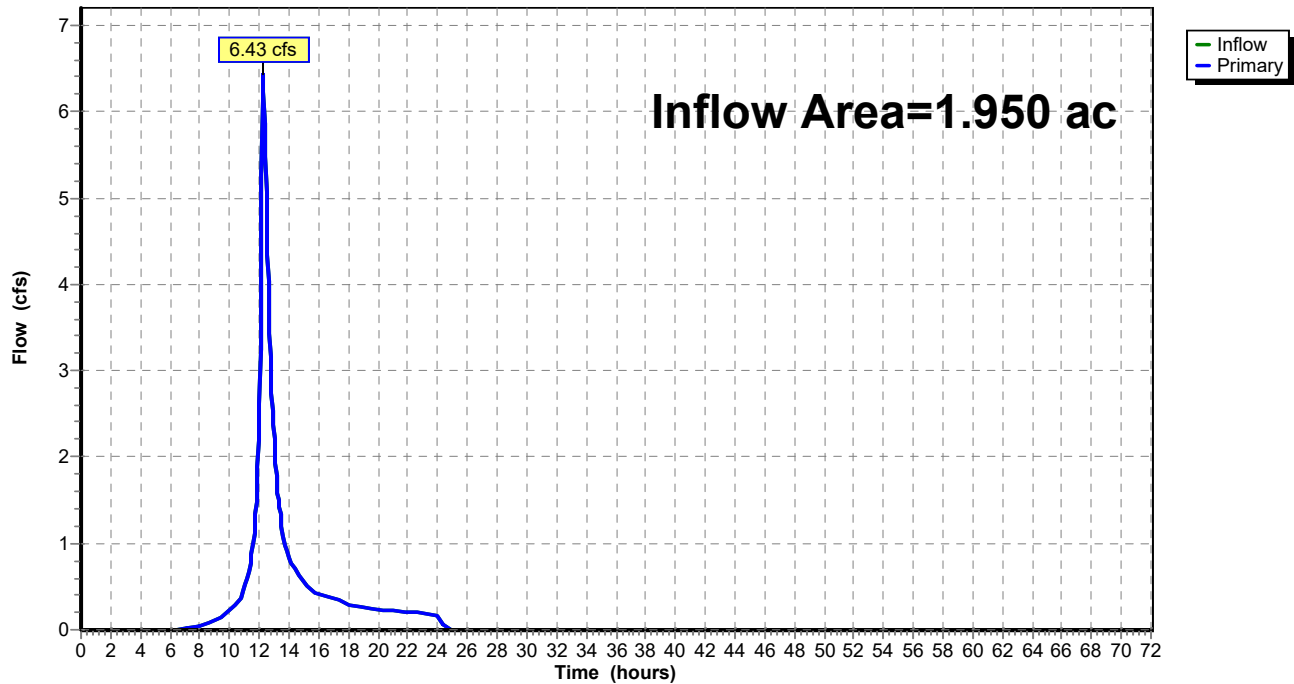
Summary for Pond 15: Prop. DA-3 Overland to Bloomfield

Inflow Area = 1.950 ac, 0.00% Impervious, Inflow Depth = 5.30" for 100-yr event
Inflow = 6.43 cfs @ 12.25 hrs, Volume= 0.862 af
Primary = 6.43 cfs @ 12.25 hrs, Volume= 0.862 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 15: Prop. DA-3 Overland to Bloomfield

Hydrograph



Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

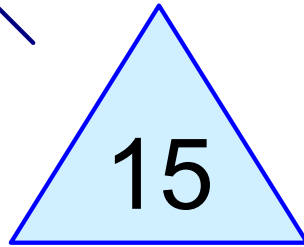
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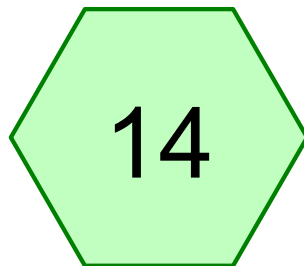
Hydrograph for Pond 15: Prop. DA-3 Overland to Bloomfield

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.01		0.01	60.00	0.00		0.00
8.00	0.05		0.05	61.00	0.00		0.00
9.00	0.11		0.11	62.00	0.00		0.00
10.00	0.22		0.22	63.00	0.00		0.00
11.00	0.49		0.49	64.00	0.00		0.00
12.00	2.62		2.62	65.00	0.00		0.00
13.00	2.21		2.21	66.00	0.00		0.00
14.00	0.82		0.82	67.00	0.00		0.00
15.00	0.55		0.55	68.00	0.00		0.00
16.00	0.42		0.42	69.00	0.00		0.00
17.00	0.36		0.36	70.00	0.00		0.00
18.00	0.29		0.29	71.00	0.00		0.00
19.00	0.25		0.25	72.00	0.00		0.00
20.00	0.24		0.24				
21.00	0.22		0.22				
22.00	0.21		0.21				
23.00	0.19		0.19				
24.00	0.17		0.17				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

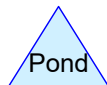
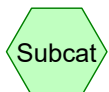
**HYDROCAD FROM AUGUST 7, 2023 STORMWATER
MANAGEMENT REPORT – SCS UNIT HYDROGRAPH
OVERLAND TO BLOOMFIELD (DA-3)**



Prop. DA-3 Overland to
Bloomfield



Overland to Bloom-perv



Routing Diagram for Post-Development

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Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Page 2

Summary for Subcatchment 14: Overland to Bloom-perv

Runoff = 1.71 cfs @ 12.24 hrs, Volume= 0.174 af, Depth= 1.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2-yr Rainfall=3.42"

Area (ac)	CN	Description
1.170	74	>75% Grass cover, Good, HSG C
0.780	70	Woods, Good, HSG C
1.950	72	Weighted Average
1.950		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	100	0.0300	0.21		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
2.0	174	0.0445	1.48		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.7	300	0.0720	1.88		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.6	79	0.1012	2.23		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	61	0.0410	1.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.5	61	0.0738	1.90		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.0	13	1.0000	7.00		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
14.6	788	Total			

Post-Development

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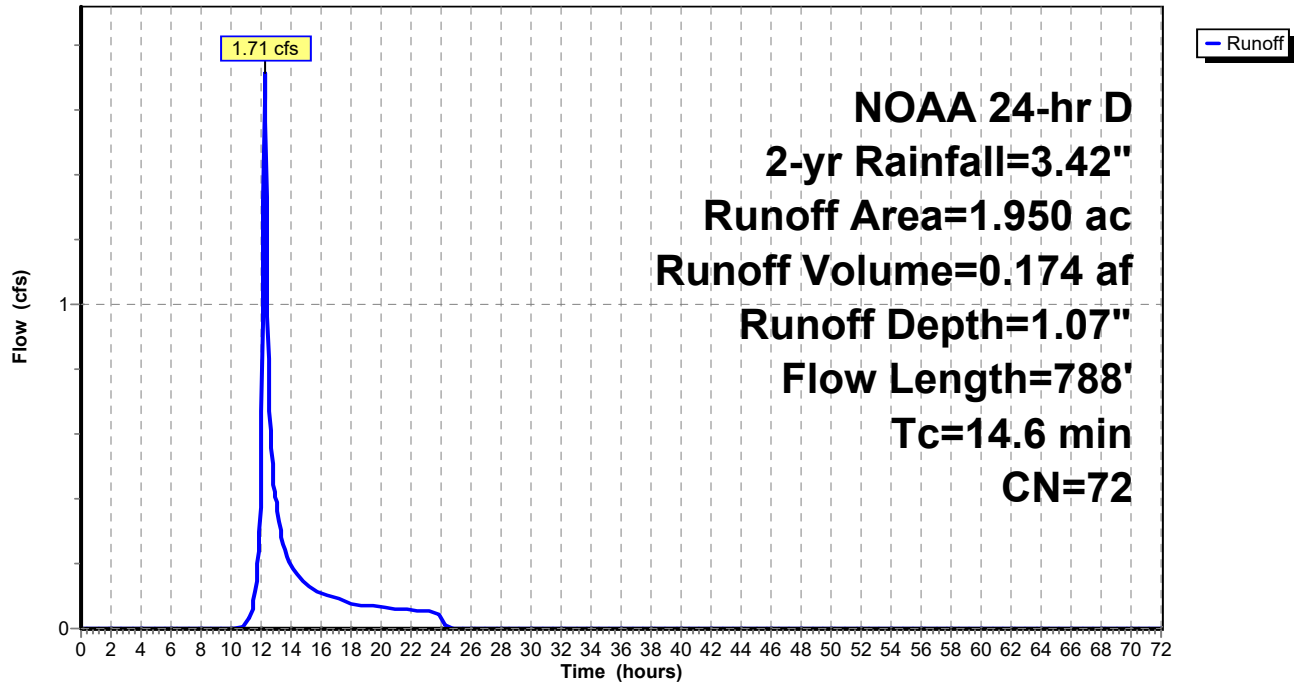
NOAA 24-hr D 2-yr Rainfall=3.42"

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Subcatchment 14: Overland to Bloom-perv

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Subcatchment 14: Overland to Bloom-perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	3.42	1.07	0.00
1.00	0.04	0.00	0.00	54.00	3.42	1.07	0.00
2.00	0.08	0.00	0.00	55.00	3.42	1.07	0.00
3.00	0.13	0.00	0.00	56.00	3.42	1.07	0.00
4.00	0.18	0.00	0.00	57.00	3.42	1.07	0.00
5.00	0.23	0.00	0.00	58.00	3.42	1.07	0.00
6.00	0.29	0.00	0.00	59.00	3.42	1.07	0.00
7.00	0.36	0.00	0.00	60.00	3.42	1.07	0.00
8.00	0.44	0.00	0.00	61.00	3.42	1.07	0.00
9.00	0.54	0.00	0.00	62.00	3.42	1.07	0.00
10.00	0.68	0.00	0.00	63.00	3.42	1.07	0.00
11.00	0.89	0.00	0.01	64.00	3.42	1.07	0.00
12.00	1.64	0.16	0.49	65.00	3.42	1.07	0.00
13.00	2.53	0.54	0.39	66.00	3.42	1.07	0.00
14.00	2.74	0.66	0.19	67.00	3.42	1.07	0.00
15.00	2.88	0.74	0.14	68.00	3.42	1.07	0.00
16.00	2.98	0.79	0.11	69.00	3.42	1.07	0.00
17.00	3.06	0.84	0.09	70.00	3.42	1.07	0.00
18.00	3.13	0.89	0.08	71.00	3.42	1.07	0.00
19.00	3.19	0.92	0.07	72.00	3.42	1.07	0.00
20.00	3.24	0.95	0.07				
21.00	3.29	0.99	0.06				
22.00	3.34	1.02	0.06				
23.00	3.38	1.04	0.05				
24.00	3.42	1.07	0.05				
25.00	3.42	1.07	0.00				
26.00	3.42	1.07	0.00				
27.00	3.42	1.07	0.00				
28.00	3.42	1.07	0.00				
29.00	3.42	1.07	0.00				
30.00	3.42	1.07	0.00				
31.00	3.42	1.07	0.00				
32.00	3.42	1.07	0.00				
33.00	3.42	1.07	0.00				
34.00	3.42	1.07	0.00				
35.00	3.42	1.07	0.00				
36.00	3.42	1.07	0.00				
37.00	3.42	1.07	0.00				
38.00	3.42	1.07	0.00				
39.00	3.42	1.07	0.00				
40.00	3.42	1.07	0.00				
41.00	3.42	1.07	0.00				
42.00	3.42	1.07	0.00				
43.00	3.42	1.07	0.00				
44.00	3.42	1.07	0.00				
45.00	3.42	1.07	0.00				
46.00	3.42	1.07	0.00				
47.00	3.42	1.07	0.00				
48.00	3.42	1.07	0.00				
49.00	3.42	1.07	0.00				
50.00	3.42	1.07	0.00				
51.00	3.42	1.07	0.00				
52.00	3.42	1.07	0.00				

Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Page 5

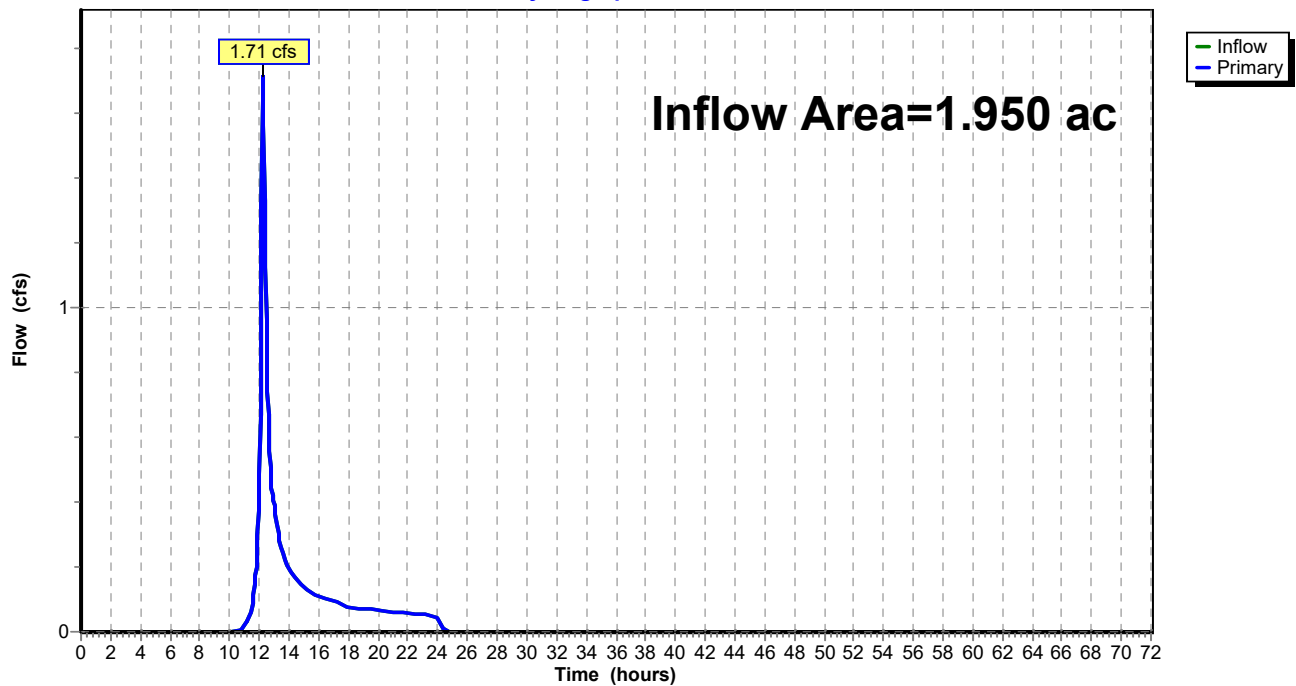
Summary for Pond 15: Prop. DA-3 Overland to Bloomfield

Inflow Area = 1.950 ac, 0.00% Impervious, Inflow Depth = 1.07" for 2-yr event
Inflow = 1.71 cfs @ 12.24 hrs, Volume= 0.174 af
Primary = 1.71 cfs @ 12.24 hrs, Volume= 0.174 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 15: Prop. DA-3 Overland to Bloomfield

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Pond 15: Prop. DA-3 Overland to Bloomfield

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.00		0.00	61.00	0.00		0.00
9.00	0.00		0.00	62.00	0.00		0.00
10.00	0.00		0.00	63.00	0.00		0.00
11.00	0.01		0.01	64.00	0.00		0.00
12.00	0.49		0.49	65.00	0.00		0.00
13.00	0.39		0.39	66.00	0.00		0.00
14.00	0.19		0.19	67.00	0.00		0.00
15.00	0.14		0.14	68.00	0.00		0.00
16.00	0.11		0.11	69.00	0.00		0.00
17.00	0.09		0.09	70.00	0.00		0.00
18.00	0.08		0.08	71.00	0.00		0.00
19.00	0.07		0.07	72.00	0.00		0.00
20.00	0.07		0.07				
21.00	0.06		0.06				
22.00	0.06		0.06				
23.00	0.05		0.05				
24.00	0.05		0.05				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Summary for Subcatchment 14: Overland to Bloom-perv

Runoff = 3.95 cfs @ 12.23 hrs, Volume= 0.382 af, Depth= 2.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10-yr Rainfall=5.20"

Area (ac)	CN	Description
1.170	74	>75% Grass cover, Good, HSG C
0.780	70	Woods, Good, HSG C
1.950	72	Weighted Average
1.950		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	100	0.0300	0.21		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
2.0	174	0.0445	1.48		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.7	300	0.0720	1.88		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.6	79	0.1012	2.23		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	61	0.0410	1.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.5	61	0.0738	1.90		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.0	13	1.0000	7.00		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
14.6	788	Total			

Post-Development

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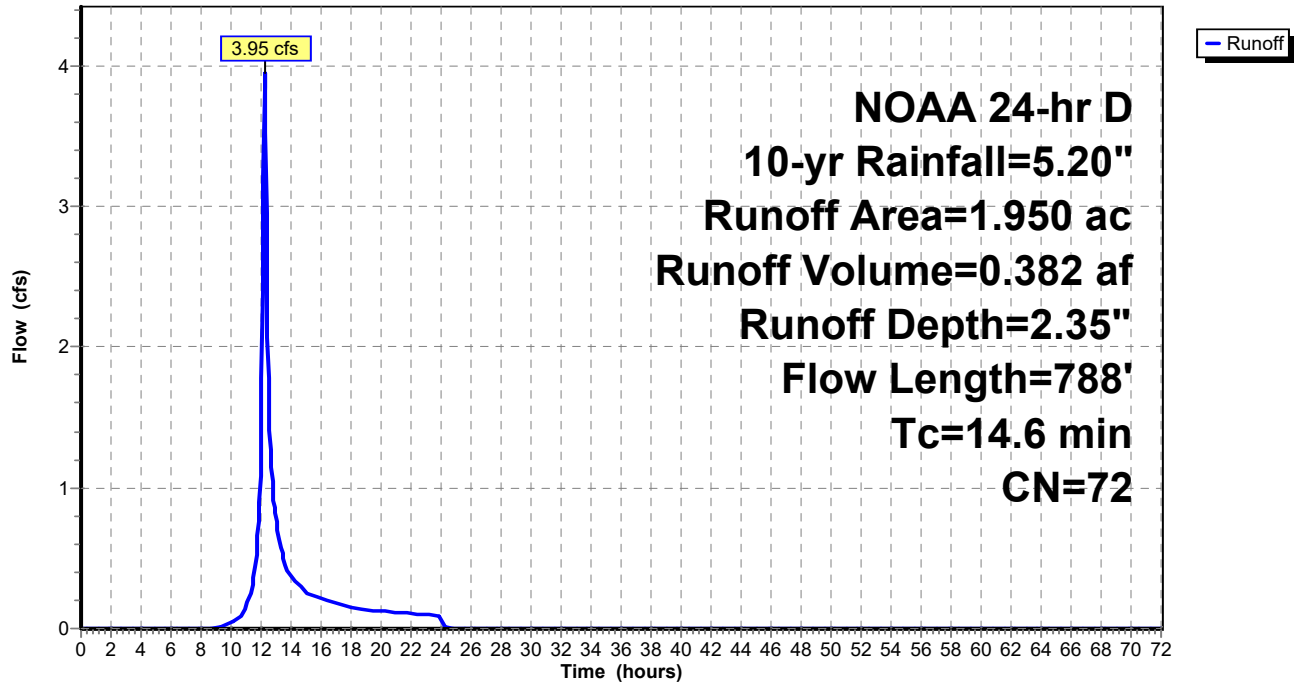
NOAA 24-hr D 10-yr Rainfall=5.20"

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Subcatchment 14: Overland to Bloom-perv

Hydrograph



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Subcatchment 14: Overland to Bloom-perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	5.20	2.35	0.00
1.00	0.06	0.00	0.00	54.00	5.20	2.35	0.00
2.00	0.12	0.00	0.00	55.00	5.20	2.35	0.00
3.00	0.20	0.00	0.00	56.00	5.20	2.35	0.00
4.00	0.27	0.00	0.00	57.00	5.20	2.35	0.00
5.00	0.36	0.00	0.00	58.00	5.20	2.35	0.00
6.00	0.44	0.00	0.00	59.00	5.20	2.35	0.00
7.00	0.55	0.00	0.00	60.00	5.20	2.35	0.00
8.00	0.67	0.00	0.00	61.00	5.20	2.35	0.00
9.00	0.82	0.00	0.00	62.00	5.20	2.35	0.00
10.00	1.03	0.02	0.04	63.00	5.20	2.35	0.00
11.00	1.35	0.07	0.16	64.00	5.20	2.35	0.00
12.00	2.49	0.52	1.36	65.00	5.20	2.35	0.00
13.00	3.85	1.35	0.78	66.00	5.20	2.35	0.00
14.00	4.17	1.58	0.37	67.00	5.20	2.35	0.00
15.00	4.38	1.73	0.26	68.00	5.20	2.35	0.00
16.00	4.53	1.84	0.21	69.00	5.20	2.35	0.00
17.00	4.65	1.93	0.18	70.00	5.20	2.35	0.00
18.00	4.76	2.01	0.14	71.00	5.20	2.35	0.00
19.00	4.84	2.08	0.13	72.00	5.20	2.35	0.00
20.00	4.93	2.14	0.12				
21.00	5.00	2.20	0.11				
22.00	5.08	2.26	0.11				
23.00	5.14	2.31	0.10				
24.00	5.20	2.35	0.09				
25.00	5.20	2.35	0.00				
26.00	5.20	2.35	0.00				
27.00	5.20	2.35	0.00				
28.00	5.20	2.35	0.00				
29.00	5.20	2.35	0.00				
30.00	5.20	2.35	0.00				
31.00	5.20	2.35	0.00				
32.00	5.20	2.35	0.00				
33.00	5.20	2.35	0.00				
34.00	5.20	2.35	0.00				
35.00	5.20	2.35	0.00				
36.00	5.20	2.35	0.00				
37.00	5.20	2.35	0.00				
38.00	5.20	2.35	0.00				
39.00	5.20	2.35	0.00				
40.00	5.20	2.35	0.00				
41.00	5.20	2.35	0.00				
42.00	5.20	2.35	0.00				
43.00	5.20	2.35	0.00				
44.00	5.20	2.35	0.00				
45.00	5.20	2.35	0.00				
46.00	5.20	2.35	0.00				
47.00	5.20	2.35	0.00				
48.00	5.20	2.35	0.00				
49.00	5.20	2.35	0.00				
50.00	5.20	2.35	0.00				
51.00	5.20	2.35	0.00				
52.00	5.20	2.35	0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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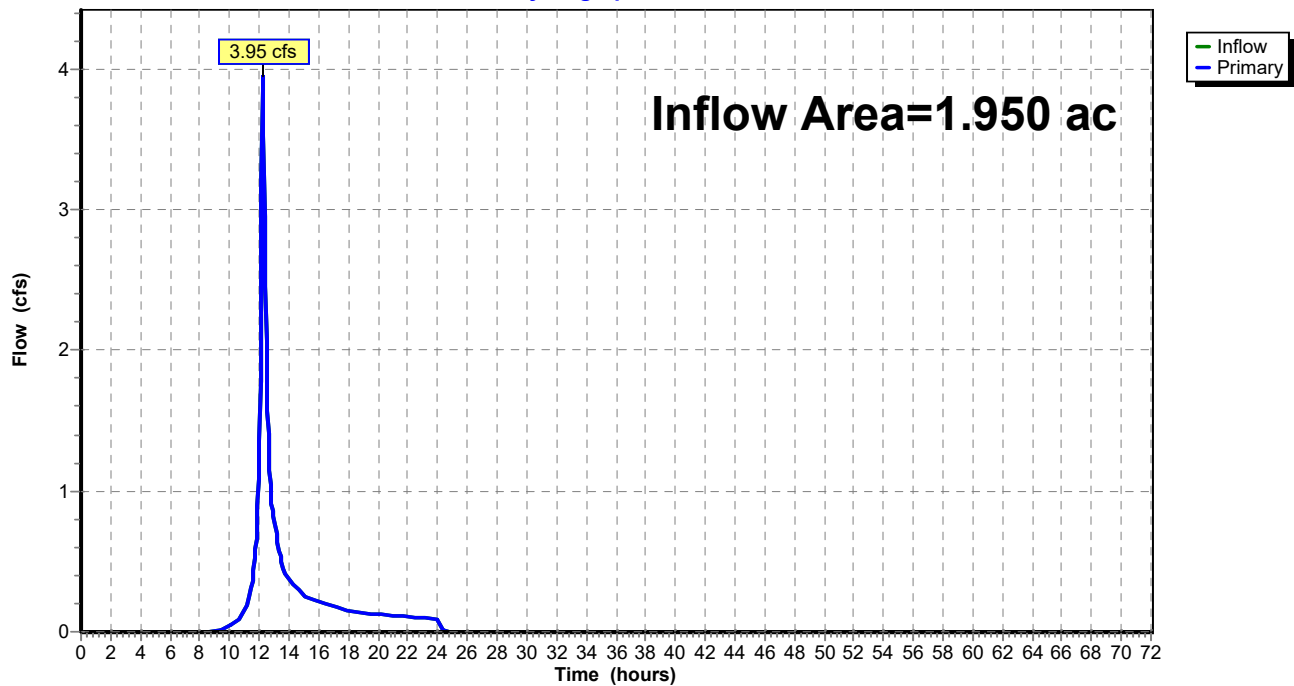
Summary for Pond 15: Prop. DA-3 Overland to Bloomfield

Inflow Area = 1.950 ac, 0.00% Impervious, Inflow Depth = 2.35" for 10-yr event
Inflow = 3.95 cfs @ 12.23 hrs, Volume= 0.382 af
Primary = 3.95 cfs @ 12.23 hrs, Volume= 0.382 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 15: Prop. DA-3 Overland to Bloomfield

Hydrograph



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Pond 15: Prop. DA-3 Overland to Bloomfield

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.00		0.00	61.00	0.00		0.00
9.00	0.00		0.00	62.00	0.00		0.00
10.00	0.04		0.04	63.00	0.00		0.00
11.00	0.16		0.16	64.00	0.00		0.00
12.00	1.36		1.36	65.00	0.00		0.00
13.00	0.78		0.78	66.00	0.00		0.00
14.00	0.37		0.37	67.00	0.00		0.00
15.00	0.26		0.26	68.00	0.00		0.00
16.00	0.21		0.21	69.00	0.00		0.00
17.00	0.18		0.18	70.00	0.00		0.00
18.00	0.14		0.14	71.00	0.00		0.00
19.00	0.13		0.13	72.00	0.00		0.00
20.00	0.12		0.12				
21.00	0.11		0.11				
22.00	0.11		0.11				
23.00	0.10		0.10				
24.00	0.09		0.09				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Summary for Subcatchment 14: Overland to Bloom-perv

Runoff = 8.90 cfs @ 12.23 hrs, Volume= 0.862 af, Depth= 5.30"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100-yr Rainfall=8.69"

Area (ac)	CN	Description
1.170	74	>75% Grass cover, Good, HSG C
0.780	70	Woods, Good, HSG C
1.950	72	Weighted Average
1.950		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	100	0.0300	0.21		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
2.0	174	0.0445	1.48		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.7	300	0.0720	1.88		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.6	79	0.1012	2.23		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	61	0.0410	1.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.5	61	0.0738	1.90		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.0	13	1.0000	7.00		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
14.6	788	Total			

Post-Development

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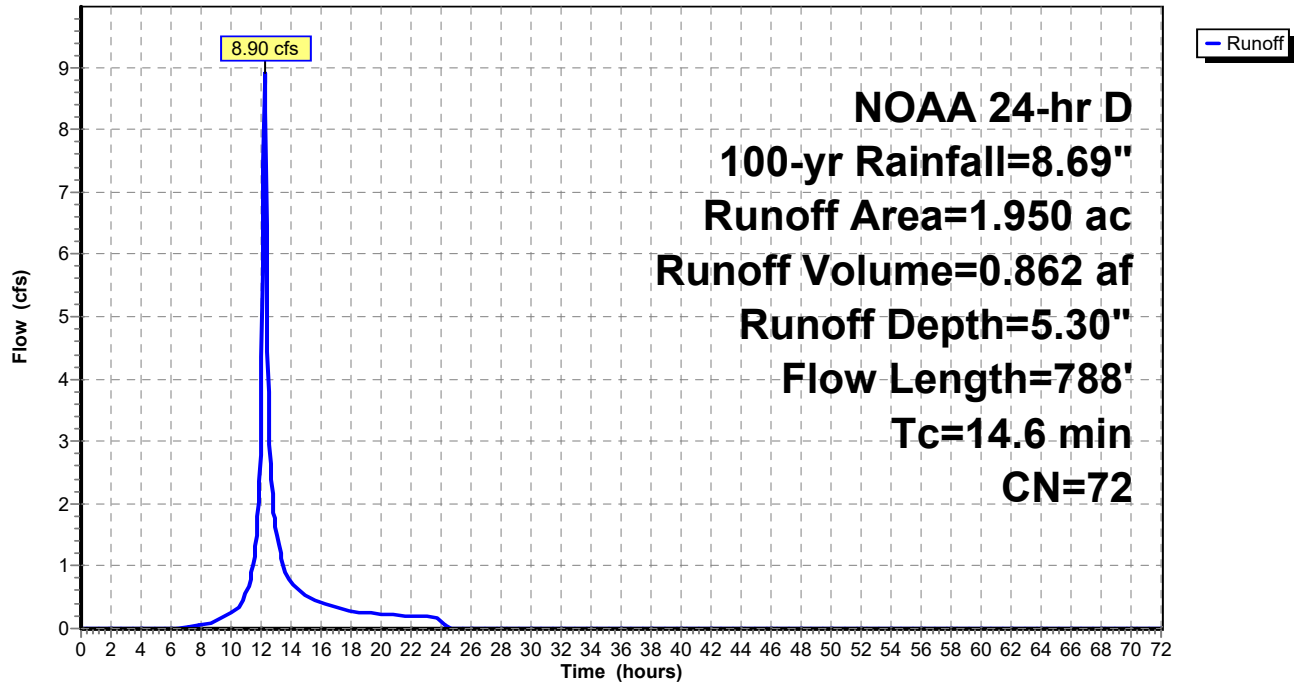
NOAA 24-hr D 100-yr Rainfall=8.69"

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Subcatchment 14: Overland to Bloom-perv

Hydrograph



Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Hydrograph for Subcatchment 14: Overland to Bloom-perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	8.69	5.30	0.00
1.00	0.10	0.00	0.00	54.00	8.69	5.30	0.00
2.00	0.21	0.00	0.00	55.00	8.69	5.30	0.00
3.00	0.33	0.00	0.00	56.00	8.69	5.30	0.00
4.00	0.46	0.00	0.00	57.00	8.69	5.30	0.00
5.00	0.59	0.00	0.00	58.00	8.69	5.30	0.00
6.00	0.74	0.00	0.00	59.00	8.69	5.30	0.00
7.00	0.92	0.00	0.02	60.00	8.69	5.30	0.00
8.00	1.13	0.03	0.06	61.00	8.69	5.30	0.00
9.00	1.38	0.08	0.12	62.00	8.69	5.30	0.00
10.00	1.72	0.18	0.25	63.00	8.69	5.30	0.00
11.00	2.26	0.41	0.56	64.00	8.69	5.30	0.00
12.00	4.16	1.58	3.42	65.00	8.69	5.30	0.00
13.00	6.43	3.35	1.59	66.00	8.69	5.30	0.00
14.00	6.97	3.80	0.74	67.00	8.69	5.30	0.00
15.00	7.31	4.10	0.52	68.00	8.69	5.30	0.00
16.00	7.56	4.31	0.41	69.00	8.69	5.30	0.00
17.00	7.77	4.50	0.35	70.00	8.69	5.30	0.00
18.00	7.95	4.65	0.28	71.00	8.69	5.30	0.00
19.00	8.10	4.78	0.25	72.00	8.69	5.30	0.00
20.00	8.23	4.90	0.23				
21.00	8.36	5.01	0.22				
22.00	8.48	5.12	0.20				
23.00	8.59	5.22	0.19				
24.00	8.69	5.30	0.17				
25.00	8.69	5.30	0.00				
26.00	8.69	5.30	0.00				
27.00	8.69	5.30	0.00				
28.00	8.69	5.30	0.00				
29.00	8.69	5.30	0.00				
30.00	8.69	5.30	0.00				
31.00	8.69	5.30	0.00				
32.00	8.69	5.30	0.00				
33.00	8.69	5.30	0.00				
34.00	8.69	5.30	0.00				
35.00	8.69	5.30	0.00				
36.00	8.69	5.30	0.00				
37.00	8.69	5.30	0.00				
38.00	8.69	5.30	0.00				
39.00	8.69	5.30	0.00				
40.00	8.69	5.30	0.00				
41.00	8.69	5.30	0.00				
42.00	8.69	5.30	0.00				
43.00	8.69	5.30	0.00				
44.00	8.69	5.30	0.00				
45.00	8.69	5.30	0.00				
46.00	8.69	5.30	0.00				
47.00	8.69	5.30	0.00				
48.00	8.69	5.30	0.00				
49.00	8.69	5.30	0.00				
50.00	8.69	5.30	0.00				
51.00	8.69	5.30	0.00				
52.00	8.69	5.30	0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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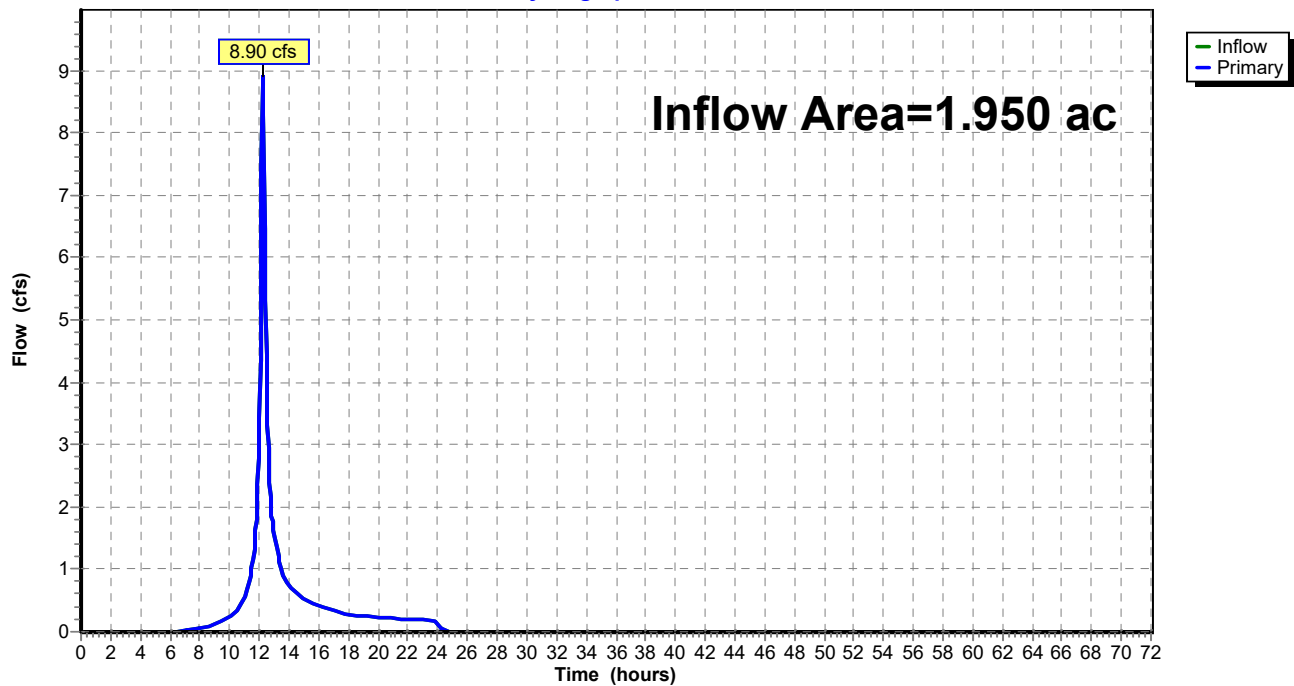
Summary for Pond 15: Prop. DA-3 Overland to Bloomfield

Inflow Area = 1.950 ac, 0.00% Impervious, Inflow Depth = 5.30" for 100-yr event
Inflow = 8.90 cfs @ 12.23 hrs, Volume= 0.862 af
Primary = 8.90 cfs @ 12.23 hrs, Volume= 0.862 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 15: Prop. DA-3 Overland to Bloomfield

Hydrograph



Post-Development

NOAA 24-hr D 100-yr Rainfall=8.69"

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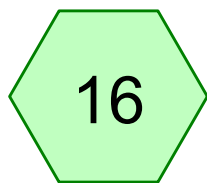
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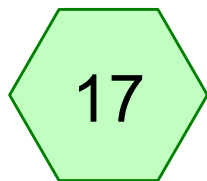
Hydrograph for Pond 15: Prop. DA-3 Overland to Bloomfield

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.02		0.02	60.00	0.00		0.00
8.00	0.06		0.06	61.00	0.00		0.00
9.00	0.12		0.12	62.00	0.00		0.00
10.00	0.25		0.25	63.00	0.00		0.00
11.00	0.56		0.56	64.00	0.00		0.00
12.00	3.42		3.42	65.00	0.00		0.00
13.00	1.59		1.59	66.00	0.00		0.00
14.00	0.74		0.74	67.00	0.00		0.00
15.00	0.52		0.52	68.00	0.00		0.00
16.00	0.41		0.41	69.00	0.00		0.00
17.00	0.35		0.35	70.00	0.00		0.00
18.00	0.28		0.28	71.00	0.00		0.00
19.00	0.25		0.25	72.00	0.00		0.00
20.00	0.23		0.23				
21.00	0.22		0.22				
22.00	0.20		0.20				
23.00	0.19		0.19				
24.00	0.17		0.17				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

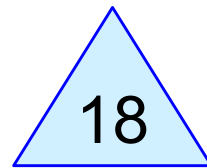
**HYDROCAD FROM JANUARY 11, 2023 STORMWATER
MANAGEMENT REPORT – DELMARVA UNIT HYDROGRAPH
PARKHURST PLACE (DA-4)**



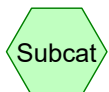
Parkhurst-Perv



Off-Site Parkhurst-Perv



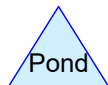
Prop. DA-4 Overland to
Parkhurst



Subcat



Reach



Pond



Link

Routing Diagram for Post-Development

Prepared by Matrix New World Engineering, Printed 7/31/2023
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Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Page 2

Summary for Subcatchment 16: Parkhurst-Perv

Runoff = 0.28 cfs @ 12.37 hrs, Volume= 0.051 af, Depth= 1.01"

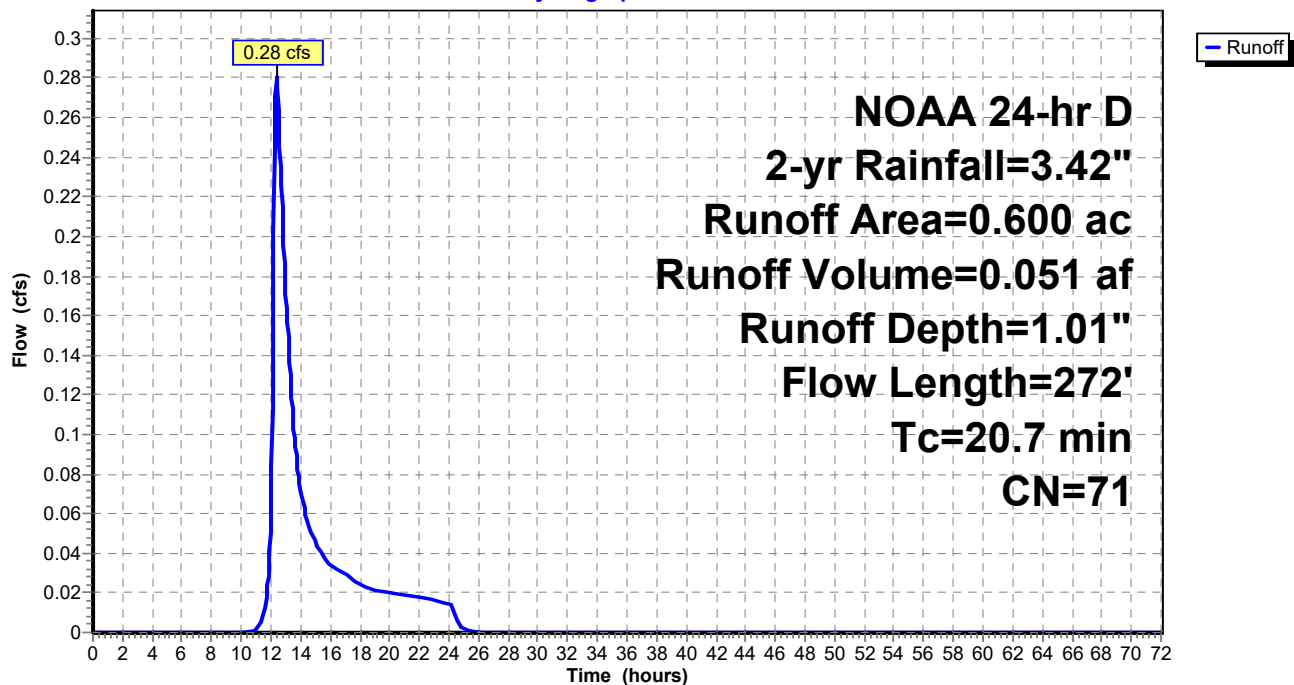
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2-yr Rainfall=3.42"

Area (ac)	CN	Description
0.140	74	>75% Grass cover, Good, HSG C
0.460	70	Woods, Good, HSG C
0.600	71	Weighted Average
0.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	100	0.0250	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.6	53	0.0755	1.37		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.3	52	0.3462	2.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.7	67	0.1045	1.62		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.7	272	Total			

Subcatchment 16: Parkhurst-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Subcatchment 16: Parkhurst-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	3.42	1.01	0.00
1.00	0.04	0.00	0.00	54.00	3.42	1.01	0.00
2.00	0.08	0.00	0.00	55.00	3.42	1.01	0.00
3.00	0.13	0.00	0.00	56.00	3.42	1.01	0.00
4.00	0.18	0.00	0.00	57.00	3.42	1.01	0.00
5.00	0.23	0.00	0.00	58.00	3.42	1.01	0.00
6.00	0.29	0.00	0.00	59.00	3.42	1.01	0.00
7.00	0.36	0.00	0.00	60.00	3.42	1.01	0.00
8.00	0.44	0.00	0.00	61.00	3.42	1.01	0.00
9.00	0.54	0.00	0.00	62.00	3.42	1.01	0.00
10.00	0.68	0.00	0.00	63.00	3.42	1.01	0.00
11.00	0.89	0.00	0.00	64.00	3.42	1.01	0.00
12.00	1.64	0.14	0.06	65.00	3.42	1.01	0.00
13.00	2.53	0.51	0.17	66.00	3.42	1.01	0.00
14.00	2.74	0.62	0.07	67.00	3.42	1.01	0.00
15.00	2.88	0.69	0.05	68.00	3.42	1.01	0.00
16.00	2.98	0.75	0.03	69.00	3.42	1.01	0.00
17.00	3.06	0.80	0.03	70.00	3.42	1.01	0.00
18.00	3.13	0.84	0.02	71.00	3.42	1.01	0.00
19.00	3.19	0.87	0.02	72.00	3.42	1.01	0.00
20.00	3.24	0.90	0.02				
21.00	3.29	0.93	0.02				
22.00	3.34	0.96	0.02				
23.00	3.38	0.99	0.02				
24.00	3.42	1.01	0.01				
25.00	3.42	1.01	0.00				
26.00	3.42	1.01	0.00				
27.00	3.42	1.01	0.00				
28.00	3.42	1.01	0.00				
29.00	3.42	1.01	0.00				
30.00	3.42	1.01	0.00				
31.00	3.42	1.01	0.00				
32.00	3.42	1.01	0.00				
33.00	3.42	1.01	0.00				
34.00	3.42	1.01	0.00				
35.00	3.42	1.01	0.00				
36.00	3.42	1.01	0.00				
37.00	3.42	1.01	0.00				
38.00	3.42	1.01	0.00				
39.00	3.42	1.01	0.00				
40.00	3.42	1.01	0.00				
41.00	3.42	1.01	0.00				
42.00	3.42	1.01	0.00				
43.00	3.42	1.01	0.00				
44.00	3.42	1.01	0.00				
45.00	3.42	1.01	0.00				
46.00	3.42	1.01	0.00				
47.00	3.42	1.01	0.00				
48.00	3.42	1.01	0.00				
49.00	3.42	1.01	0.00				
50.00	3.42	1.01	0.00				
51.00	3.42	1.01	0.00				
52.00	3.42	1.01	0.00				

Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Page 4

Summary for Subcatchment 17: Off-Site Parkhurst-Perv

Runoff = 0.02 cfs @ 12.36 hrs, Volume= 0.003 af, Depth= 1.07"

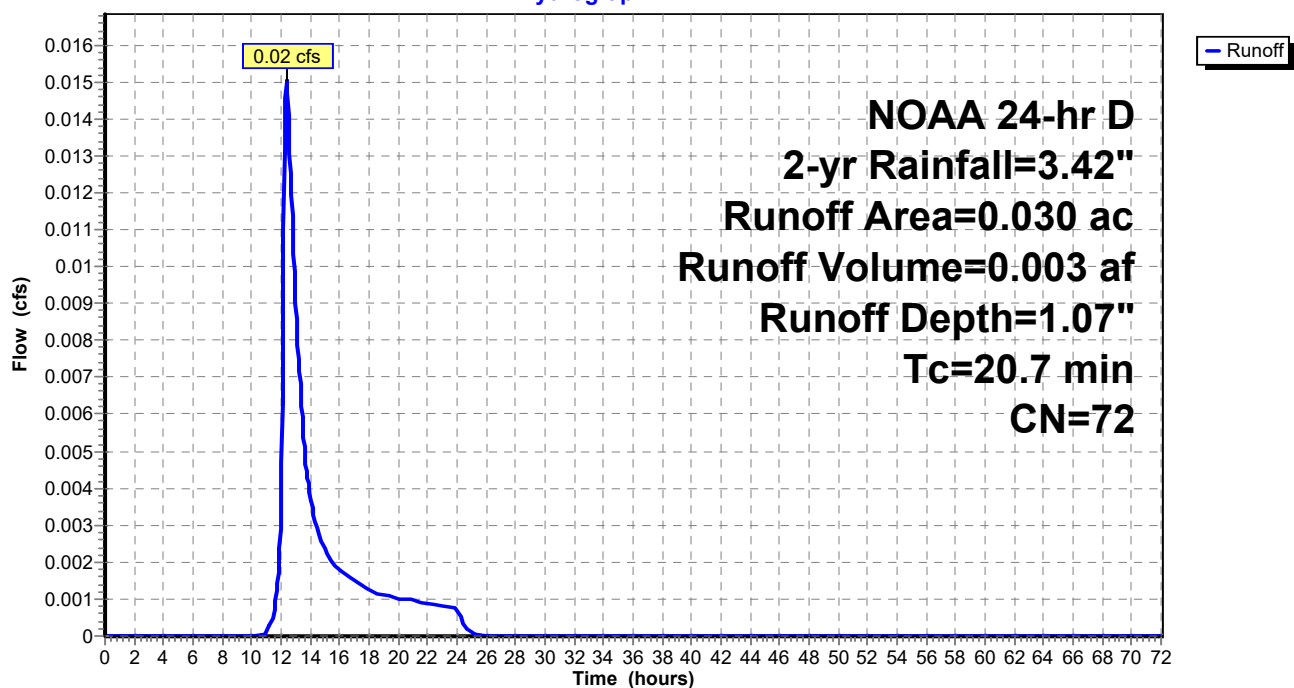
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2-yr Rainfall=3.42"

Area (ac)	CN	Description
0.030	72	Woods/grass comb., Good, HSG C
0.030		100.00% Pervious Area

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

Subcatchment 17: Off-Site Parkhurst-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Subcatchment 17: Off-Site Parkhurst-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	3.42	1.07	0.00
1.00	0.04	0.00	0.00	54.00	3.42	1.07	0.00
2.00	0.08	0.00	0.00	55.00	3.42	1.07	0.00
3.00	0.13	0.00	0.00	56.00	3.42	1.07	0.00
4.00	0.18	0.00	0.00	57.00	3.42	1.07	0.00
5.00	0.23	0.00	0.00	58.00	3.42	1.07	0.00
6.00	0.29	0.00	0.00	59.00	3.42	1.07	0.00
7.00	0.36	0.00	0.00	60.00	3.42	1.07	0.00
8.00	0.44	0.00	0.00	61.00	3.42	1.07	0.00
9.00	0.54	0.00	0.00	62.00	3.42	1.07	0.00
10.00	0.68	0.00	0.00	63.00	3.42	1.07	0.00
11.00	0.89	0.00	0.00	64.00	3.42	1.07	0.00
12.00	1.64	0.16	0.00	65.00	3.42	1.07	0.00
13.00	2.53	0.54	0.01	66.00	3.42	1.07	0.00
14.00	2.74	0.66	0.00	67.00	3.42	1.07	0.00
15.00	2.88	0.74	0.00	68.00	3.42	1.07	0.00
16.00	2.98	0.79	0.00	69.00	3.42	1.07	0.00
17.00	3.06	0.84	0.00	70.00	3.42	1.07	0.00
18.00	3.13	0.89	0.00	71.00	3.42	1.07	0.00
19.00	3.19	0.92	0.00	72.00	3.42	1.07	0.00
20.00	3.24	0.95	0.00				
21.00	3.29	0.99	0.00				
22.00	3.34	1.02	0.00				
23.00	3.38	1.04	0.00				
24.00	3.42	1.07	0.00				
25.00	3.42	1.07	0.00				
26.00	3.42	1.07	0.00				
27.00	3.42	1.07	0.00				
28.00	3.42	1.07	0.00				
29.00	3.42	1.07	0.00				
30.00	3.42	1.07	0.00				
31.00	3.42	1.07	0.00				
32.00	3.42	1.07	0.00				
33.00	3.42	1.07	0.00				
34.00	3.42	1.07	0.00				
35.00	3.42	1.07	0.00				
36.00	3.42	1.07	0.00				
37.00	3.42	1.07	0.00				
38.00	3.42	1.07	0.00				
39.00	3.42	1.07	0.00				
40.00	3.42	1.07	0.00				
41.00	3.42	1.07	0.00				
42.00	3.42	1.07	0.00				
43.00	3.42	1.07	0.00				
44.00	3.42	1.07	0.00				
45.00	3.42	1.07	0.00				
46.00	3.42	1.07	0.00				
47.00	3.42	1.07	0.00				
48.00	3.42	1.07	0.00				
49.00	3.42	1.07	0.00				
50.00	3.42	1.07	0.00				
51.00	3.42	1.07	0.00				
52.00	3.42	1.07	0.00				

Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Page 6

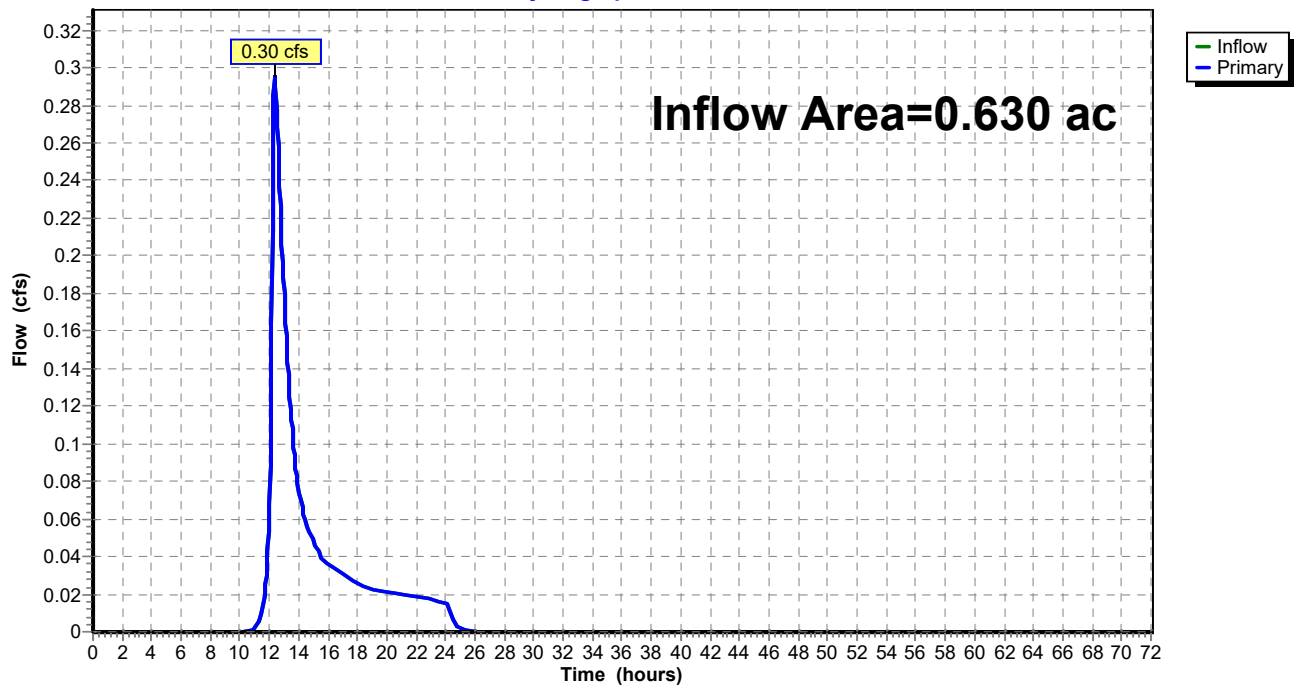
Summary for Pond 18: Prop. DA-4 Overland to Parkhurst

Inflow Area = 0.630 ac, 0.00% Impervious, Inflow Depth = 1.02" for 2-yr event
Inflow = 0.30 cfs @ 12.37 hrs, Volume= 0.053 af
Primary = 0.30 cfs @ 12.37 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 18: Prop. DA-4 Overland to Parkhurst

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Pond 18: Prop. DA-4 Overland to Parkhurst

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.00		0.00	61.00	0.00		0.00
9.00	0.00		0.00	62.00	0.00		0.00
10.00	0.00		0.00	63.00	0.00		0.00
11.00	0.00		0.00	64.00	0.00		0.00
12.00	0.07		0.07	65.00	0.00		0.00
13.00	0.18		0.18	66.00	0.00		0.00
14.00	0.08		0.08	67.00	0.00		0.00
15.00	0.05		0.05	68.00	0.00		0.00
16.00	0.04		0.04	69.00	0.00		0.00
17.00	0.03		0.03	70.00	0.00		0.00
18.00	0.03		0.03	71.00	0.00		0.00
19.00	0.02		0.02	72.00	0.00		0.00
20.00	0.02		0.02				
21.00	0.02		0.02				
22.00	0.02		0.02				
23.00	0.02		0.02				
24.00	0.02		0.02				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Summary for Subcatchment 16: Parkhurst-Perv

Runoff = 0.68 cfs @ 12.35 hrs, Volume= 0.113 af, Depth= 2.27"

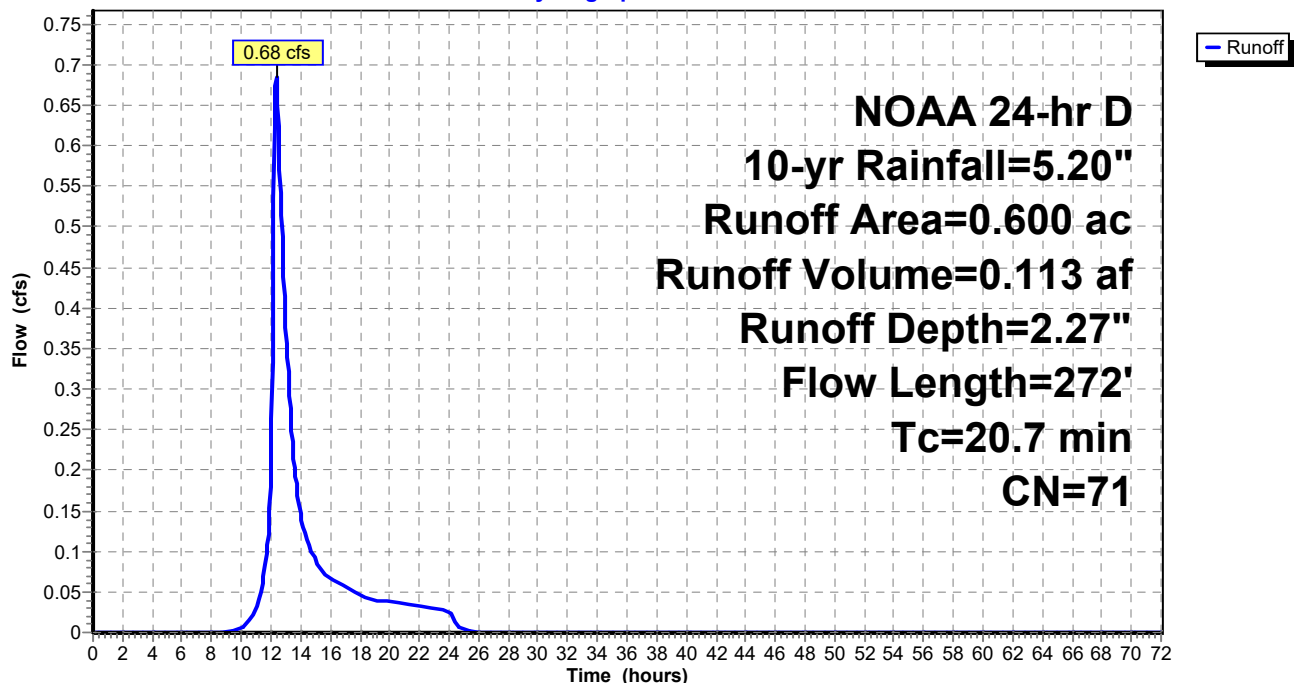
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10-yr Rainfall=5.20"

Area (ac)	CN	Description
0.140	74	>75% Grass cover, Good, HSG C
0.460	70	Woods, Good, HSG C
0.600	71	Weighted Average
0.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	100	0.0250	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.6	53	0.0755	1.37		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.3	52	0.3462	2.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.7	67	0.1045	1.62		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.7	272	Total			

Subcatchment 16: Parkhurst-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Subcatchment 16: Parkhurst-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	5.20	2.27	0.00
1.00	0.06	0.00	0.00	54.00	5.20	2.27	0.00
2.00	0.12	0.00	0.00	55.00	5.20	2.27	0.00
3.00	0.20	0.00	0.00	56.00	5.20	2.27	0.00
4.00	0.27	0.00	0.00	57.00	5.20	2.27	0.00
5.00	0.36	0.00	0.00	58.00	5.20	2.27	0.00
6.00	0.44	0.00	0.00	59.00	5.20	2.27	0.00
7.00	0.55	0.00	0.00	60.00	5.20	2.27	0.00
8.00	0.67	0.00	0.00	61.00	5.20	2.27	0.00
9.00	0.82	0.00	0.00	62.00	5.20	2.27	0.00
10.00	1.03	0.01	0.01	63.00	5.20	2.27	0.00
11.00	1.35	0.06	0.03	64.00	5.20	2.27	0.00
12.00	2.49	0.49	0.21	65.00	5.20	2.27	0.00
13.00	3.85	1.29	0.38	66.00	5.20	2.27	0.00
14.00	4.17	1.51	0.14	67.00	5.20	2.27	0.00
15.00	4.38	1.66	0.09	68.00	5.20	2.27	0.00
16.00	4.53	1.76	0.07	69.00	5.20	2.27	0.00
17.00	4.65	1.86	0.06	70.00	5.20	2.27	0.00
18.00	4.76	1.93	0.05	71.00	5.20	2.27	0.00
19.00	4.84	2.00	0.04	72.00	5.20	2.27	0.00
20.00	4.93	2.06	0.04				
21.00	5.00	2.12	0.04				
22.00	5.08	2.17	0.03				
23.00	5.14	2.22	0.03				
24.00	5.20	2.27	0.03				
25.00	5.20	2.27	0.00				
26.00	5.20	2.27	0.00				
27.00	5.20	2.27	0.00				
28.00	5.20	2.27	0.00				
29.00	5.20	2.27	0.00				
30.00	5.20	2.27	0.00				
31.00	5.20	2.27	0.00				
32.00	5.20	2.27	0.00				
33.00	5.20	2.27	0.00				
34.00	5.20	2.27	0.00				
35.00	5.20	2.27	0.00				
36.00	5.20	2.27	0.00				
37.00	5.20	2.27	0.00				
38.00	5.20	2.27	0.00				
39.00	5.20	2.27	0.00				
40.00	5.20	2.27	0.00				
41.00	5.20	2.27	0.00				
42.00	5.20	2.27	0.00				
43.00	5.20	2.27	0.00				
44.00	5.20	2.27	0.00				
45.00	5.20	2.27	0.00				
46.00	5.20	2.27	0.00				
47.00	5.20	2.27	0.00				
48.00	5.20	2.27	0.00				
49.00	5.20	2.27	0.00				
50.00	5.20	2.27	0.00				
51.00	5.20	2.27	0.00				
52.00	5.20	2.27	0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Summary for Subcatchment 17: Off-Site Parkhurst-Perv

Runoff = 0.04 cfs @ 12.35 hrs, Volume= 0.006 af, Depth= 2.35"

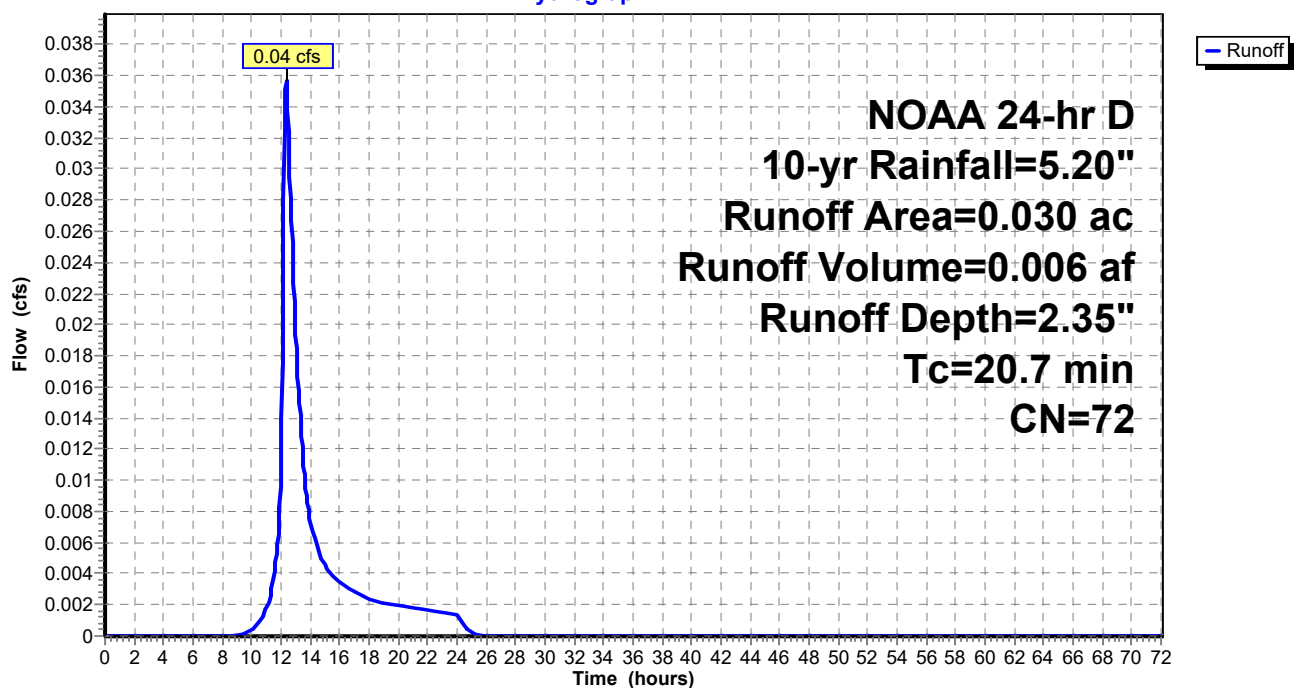
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10-yr Rainfall=5.20"

Area (ac)	CN	Description
0.030	72	Woods/grass comb., Good, HSG C
0.030		100.00% Pervious Area

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

Subcatchment 17: Off-Site Parkhurst-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Subcatchment 17: Off-Site Parkhurst-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	5.20	2.35	0.00
1.00	0.06	0.00	0.00	54.00	5.20	2.35	0.00
2.00	0.12	0.00	0.00	55.00	5.20	2.35	0.00
3.00	0.20	0.00	0.00	56.00	5.20	2.35	0.00
4.00	0.27	0.00	0.00	57.00	5.20	2.35	0.00
5.00	0.36	0.00	0.00	58.00	5.20	2.35	0.00
6.00	0.44	0.00	0.00	59.00	5.20	2.35	0.00
7.00	0.55	0.00	0.00	60.00	5.20	2.35	0.00
8.00	0.67	0.00	0.00	61.00	5.20	2.35	0.00
9.00	0.82	0.00	0.00	62.00	5.20	2.35	0.00
10.00	1.03	0.02	0.00	63.00	5.20	2.35	0.00
11.00	1.35	0.07	0.00	64.00	5.20	2.35	0.00
12.00	2.49	0.52	0.01	65.00	5.20	2.35	0.00
13.00	3.85	1.35	0.02	66.00	5.20	2.35	0.00
14.00	4.17	1.58	0.01	67.00	5.20	2.35	0.00
15.00	4.38	1.73	0.00	68.00	5.20	2.35	0.00
16.00	4.53	1.84	0.00	69.00	5.20	2.35	0.00
17.00	4.65	1.93	0.00	70.00	5.20	2.35	0.00
18.00	4.76	2.01	0.00	71.00	5.20	2.35	0.00
19.00	4.84	2.08	0.00	72.00	5.20	2.35	0.00
20.00	4.93	2.14	0.00				
21.00	5.00	2.20	0.00				
22.00	5.08	2.26	0.00				
23.00	5.14	2.31	0.00				
24.00	5.20	2.35	0.00				
25.00	5.20	2.35	0.00				
26.00	5.20	2.35	0.00				
27.00	5.20	2.35	0.00				
28.00	5.20	2.35	0.00				
29.00	5.20	2.35	0.00				
30.00	5.20	2.35	0.00				
31.00	5.20	2.35	0.00				
32.00	5.20	2.35	0.00				
33.00	5.20	2.35	0.00				
34.00	5.20	2.35	0.00				
35.00	5.20	2.35	0.00				
36.00	5.20	2.35	0.00				
37.00	5.20	2.35	0.00				
38.00	5.20	2.35	0.00				
39.00	5.20	2.35	0.00				
40.00	5.20	2.35	0.00				
41.00	5.20	2.35	0.00				
42.00	5.20	2.35	0.00				
43.00	5.20	2.35	0.00				
44.00	5.20	2.35	0.00				
45.00	5.20	2.35	0.00				
46.00	5.20	2.35	0.00				
47.00	5.20	2.35	0.00				
48.00	5.20	2.35	0.00				
49.00	5.20	2.35	0.00				
50.00	5.20	2.35	0.00				
51.00	5.20	2.35	0.00				
52.00	5.20	2.35	0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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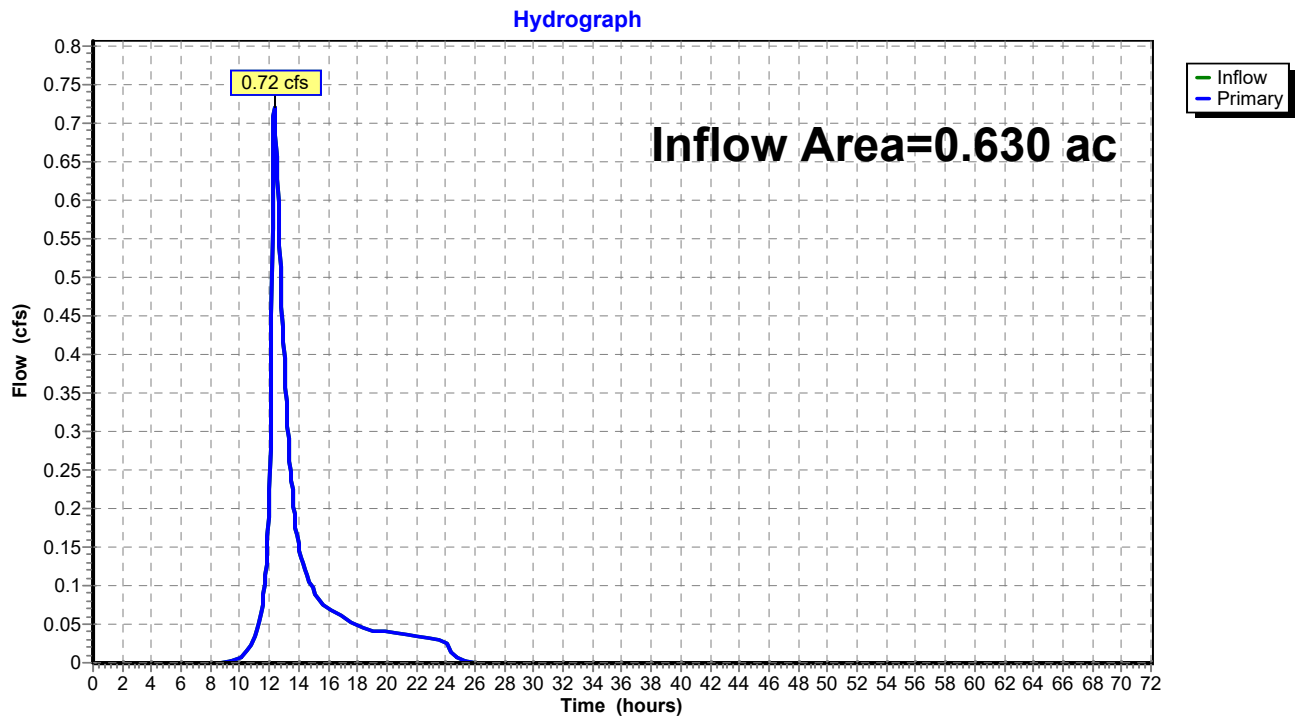
Page 12

Summary for Pond 18: Prop. DA-4 Overland to Parkhurst

Inflow Area = 0.630 ac, 0.00% Impervious, Inflow Depth = 2.27" for 10-yr event
Inflow = 0.72 cfs @ 12.35 hrs, Volume= 0.119 af
Primary = 0.72 cfs @ 12.35 hrs, Volume= 0.119 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 18: Prop. DA-4 Overland to Parkhurst



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Pond 18: Prop. DA-4 Overland to Parkhurst

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.00		0.00	61.00	0.00		0.00
9.00	0.00		0.00	62.00	0.00		0.00
10.00	0.01		0.01	63.00	0.00		0.00
11.00	0.03		0.03	64.00	0.00		0.00
12.00	0.23		0.23	65.00	0.00		0.00
13.00	0.39		0.39	66.00	0.00		0.00
14.00	0.15		0.15	67.00	0.00		0.00
15.00	0.09		0.09	68.00	0.00		0.00
16.00	0.07		0.07	69.00	0.00		0.00
17.00	0.06		0.06	70.00	0.00		0.00
18.00	0.05		0.05	71.00	0.00		0.00
19.00	0.04		0.04	72.00	0.00		0.00
20.00	0.04		0.04				
21.00	0.04		0.04				
22.00	0.03		0.03				
23.00	0.03		0.03				
24.00	0.03		0.03				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Summary for Subcatchment 16: Parkhurst-Perv

Runoff = 1.61 cfs @ 12.33 hrs, Volume= 0.259 af, Depth= 5.18"

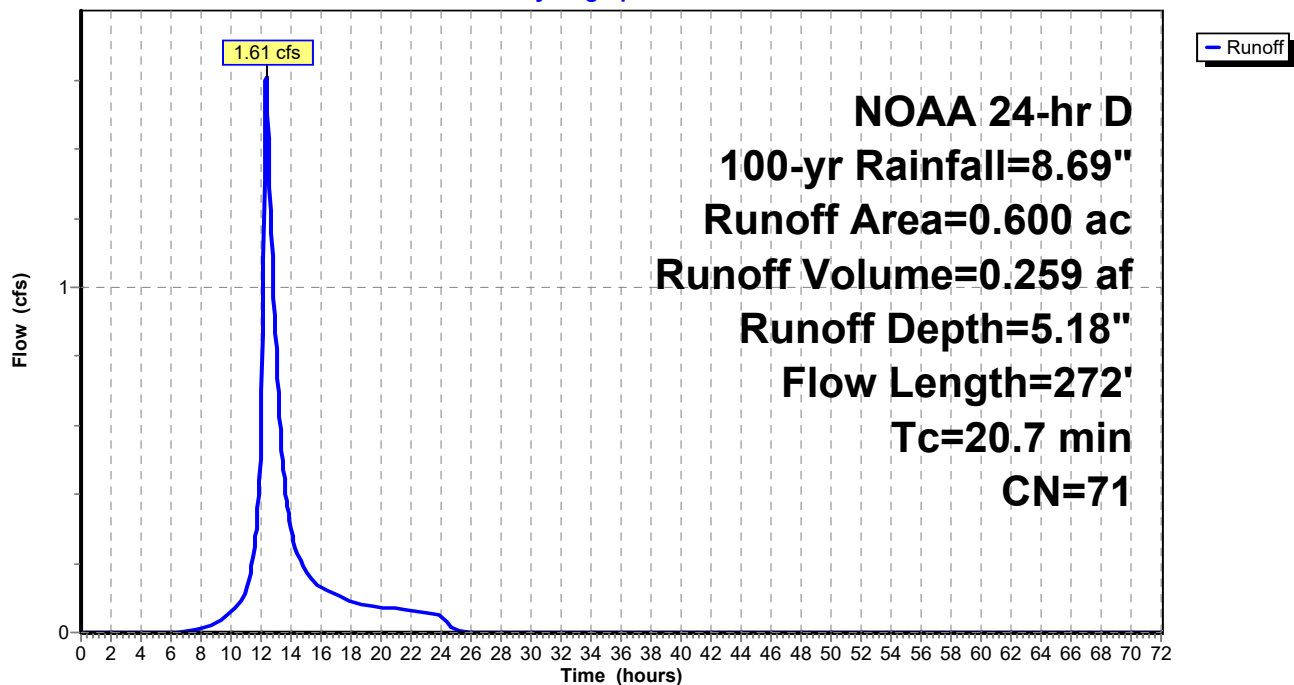
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100-yr Rainfall=8.69"

Area (ac)	CN	Description
0.140	74	>75% Grass cover, Good, HSG C
0.460	70	Woods, Good, HSG C
0.600	71	Weighted Average
0.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	100	0.0250	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.6	53	0.0755	1.37		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.3	52	0.3462	2.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.7	67	0.1045	1.62		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.7	272	Total			

Subcatchment 16: Parkhurst-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Hydrograph for Subcatchment 16: Parkhurst-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	8.69	5.18	0.00
1.00	0.10	0.00	0.00	54.00	8.69	5.18	0.00
2.00	0.21	0.00	0.00	55.00	8.69	5.18	0.00
3.00	0.33	0.00	0.00	56.00	8.69	5.18	0.00
4.00	0.46	0.00	0.00	57.00	8.69	5.18	0.00
5.00	0.59	0.00	0.00	58.00	8.69	5.18	0.00
6.00	0.74	0.00	0.00	59.00	8.69	5.18	0.00
7.00	0.92	0.00	0.00	60.00	8.69	5.18	0.00
8.00	1.13	0.02	0.01	61.00	8.69	5.18	0.00
9.00	1.38	0.07	0.03	62.00	8.69	5.18	0.00
10.00	1.72	0.16	0.06	63.00	8.69	5.18	0.00
11.00	2.26	0.38	0.13	64.00	8.69	5.18	0.00
12.00	4.16	1.51	0.59	65.00	8.69	5.18	0.00
13.00	6.43	3.25	0.82	66.00	8.69	5.18	0.00
14.00	6.97	3.70	0.30	67.00	8.69	5.18	0.00
15.00	7.31	3.99	0.18	68.00	8.69	5.18	0.00
16.00	7.56	4.20	0.13	69.00	8.69	5.18	0.00
17.00	7.77	4.38	0.11	70.00	8.69	5.18	0.00
18.00	7.95	4.53	0.09	71.00	8.69	5.18	0.00
19.00	8.10	4.66	0.08	72.00	8.69	5.18	0.00
20.00	8.23	4.78	0.07				
21.00	8.36	4.90	0.07				
22.00	8.48	5.00	0.06				
23.00	8.59	5.10	0.06				
24.00	8.69	5.18	0.05				
25.00	8.69	5.18	0.01				
26.00	8.69	5.18	0.00				
27.00	8.69	5.18	0.00				
28.00	8.69	5.18	0.00				
29.00	8.69	5.18	0.00				
30.00	8.69	5.18	0.00				
31.00	8.69	5.18	0.00				
32.00	8.69	5.18	0.00				
33.00	8.69	5.18	0.00				
34.00	8.69	5.18	0.00				
35.00	8.69	5.18	0.00				
36.00	8.69	5.18	0.00				
37.00	8.69	5.18	0.00				
38.00	8.69	5.18	0.00				
39.00	8.69	5.18	0.00				
40.00	8.69	5.18	0.00				
41.00	8.69	5.18	0.00				
42.00	8.69	5.18	0.00				
43.00	8.69	5.18	0.00				
44.00	8.69	5.18	0.00				
45.00	8.69	5.18	0.00				
46.00	8.69	5.18	0.00				
47.00	8.69	5.18	0.00				
48.00	8.69	5.18	0.00				
49.00	8.69	5.18	0.00				
50.00	8.69	5.18	0.00				
51.00	8.69	5.18	0.00				
52.00	8.69	5.18	0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Summary for Subcatchment 17: Off-Site Parkhurst-Perv

Runoff = 0.08 cfs @ 12.33 hrs, Volume= 0.013 af, Depth= 5.30"

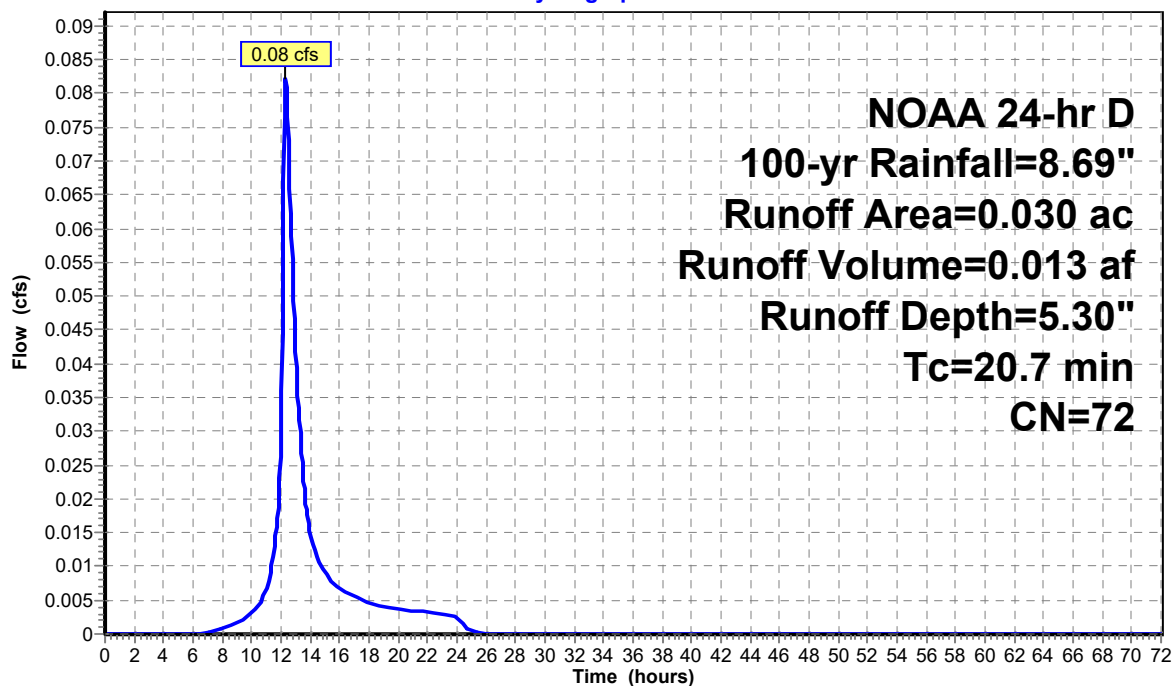
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100-yr Rainfall=8.69"

Area (ac)	CN	Description
0.030	72	Woods/grass comb., Good, HSG C
0.030		100.00% Pervious Area

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

Subcatchment 17: Off-Site Parkhurst-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Hydrograph for Subcatchment 17: Off-Site Parkhurst-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	8.69	5.30	0.00
1.00	0.10	0.00	0.00	54.00	8.69	5.30	0.00
2.00	0.21	0.00	0.00	55.00	8.69	5.30	0.00
3.00	0.33	0.00	0.00	56.00	8.69	5.30	0.00
4.00	0.46	0.00	0.00	57.00	8.69	5.30	0.00
5.00	0.59	0.00	0.00	58.00	8.69	5.30	0.00
6.00	0.74	0.00	0.00	59.00	8.69	5.30	0.00
7.00	0.92	0.00	0.00	60.00	8.69	5.30	0.00
8.00	1.13	0.03	0.00	61.00	8.69	5.30	0.00
9.00	1.38	0.08	0.00	62.00	8.69	5.30	0.00
10.00	1.72	0.18	0.00	63.00	8.69	5.30	0.00
11.00	2.26	0.41	0.01	64.00	8.69	5.30	0.00
12.00	4.16	1.58	0.03	65.00	8.69	5.30	0.00
13.00	6.43	3.35	0.04	66.00	8.69	5.30	0.00
14.00	6.97	3.80	0.01	67.00	8.69	5.30	0.00
15.00	7.31	4.10	0.01	68.00	8.69	5.30	0.00
16.00	7.56	4.31	0.01	69.00	8.69	5.30	0.00
17.00	7.77	4.50	0.01	70.00	8.69	5.30	0.00
18.00	7.95	4.65	0.00	71.00	8.69	5.30	0.00
19.00	8.10	4.78	0.00	72.00	8.69	5.30	0.00
20.00	8.23	4.90	0.00				
21.00	8.36	5.01	0.00				
22.00	8.48	5.12	0.00				
23.00	8.59	5.22	0.00				
24.00	8.69	5.30	0.00				
25.00	8.69	5.30	0.00				
26.00	8.69	5.30	0.00				
27.00	8.69	5.30	0.00				
28.00	8.69	5.30	0.00				
29.00	8.69	5.30	0.00				
30.00	8.69	5.30	0.00				
31.00	8.69	5.30	0.00				
32.00	8.69	5.30	0.00				
33.00	8.69	5.30	0.00				
34.00	8.69	5.30	0.00				
35.00	8.69	5.30	0.00				
36.00	8.69	5.30	0.00				
37.00	8.69	5.30	0.00				
38.00	8.69	5.30	0.00				
39.00	8.69	5.30	0.00				
40.00	8.69	5.30	0.00				
41.00	8.69	5.30	0.00				
42.00	8.69	5.30	0.00				
43.00	8.69	5.30	0.00				
44.00	8.69	5.30	0.00				
45.00	8.69	5.30	0.00				
46.00	8.69	5.30	0.00				
47.00	8.69	5.30	0.00				
48.00	8.69	5.30	0.00				
49.00	8.69	5.30	0.00				
50.00	8.69	5.30	0.00				
51.00	8.69	5.30	0.00				
52.00	8.69	5.30	0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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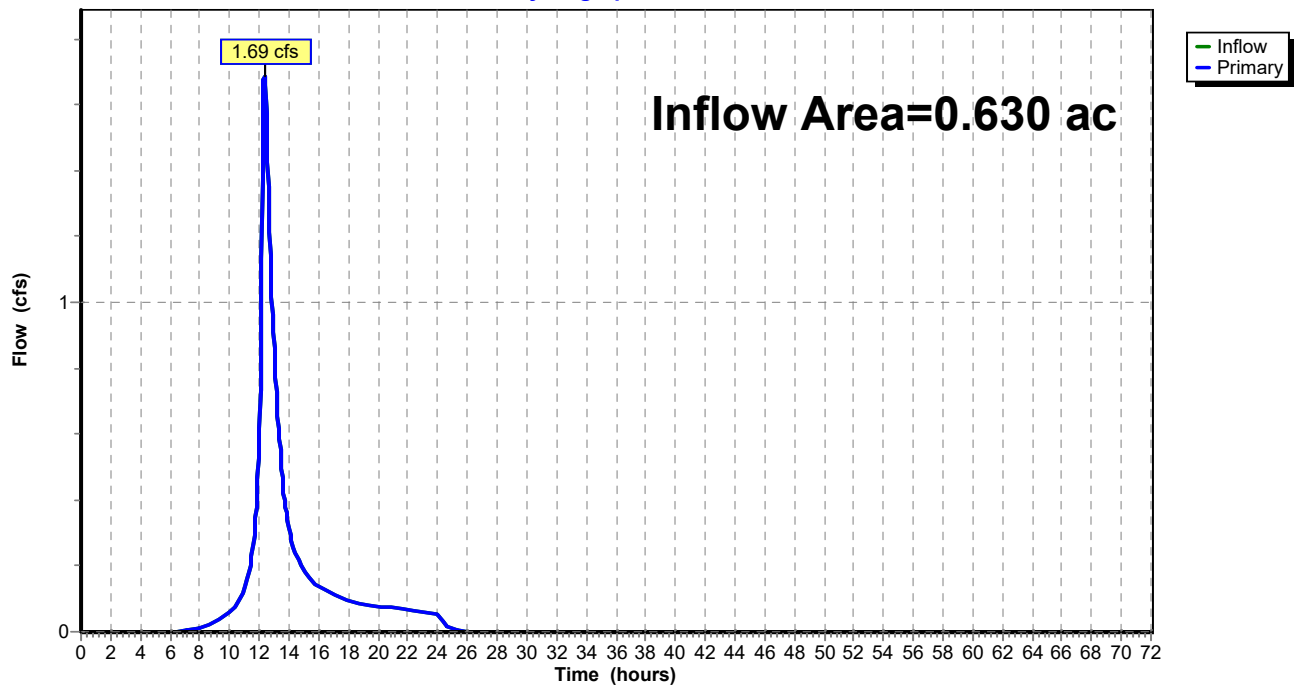
Summary for Pond 18: Prop. DA-4 Overland to Parkhurst

Inflow Area = 0.630 ac, 0.00% Impervious, Inflow Depth = 5.19" for 100-yr event
Inflow = 1.69 cfs @ 12.33 hrs, Volume= 0.272 af
Primary = 1.69 cfs @ 12.33 hrs, Volume= 0.272 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 18: Prop. DA-4 Overland to Parkhurst

Hydrograph



Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

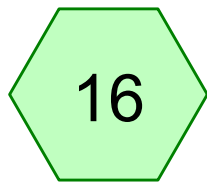
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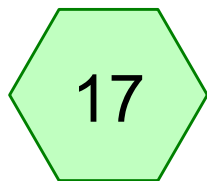
Hydrograph for Pond 18: Prop. DA-4 Overland to Parkhurst

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.01		0.01	61.00	0.00		0.00
9.00	0.03		0.03	62.00	0.00		0.00
10.00	0.06		0.06	63.00	0.00		0.00
11.00	0.13		0.13	64.00	0.00		0.00
12.00	0.62		0.62	65.00	0.00		0.00
13.00	0.86		0.86	66.00	0.00		0.00
14.00	0.31		0.31	67.00	0.00		0.00
15.00	0.19		0.19	68.00	0.00		0.00
16.00	0.14		0.14	69.00	0.00		0.00
17.00	0.12		0.12	70.00	0.00		0.00
18.00	0.10		0.10	71.00	0.00		0.00
19.00	0.08		0.08	72.00	0.00		0.00
20.00	0.08		0.08				
21.00	0.07		0.07				
22.00	0.07		0.07				
23.00	0.06		0.06				
24.00	0.06		0.06				
25.00	0.01		0.01				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

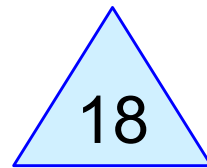
**HYDROCAD FROM AUGUST 7, 2023 STORMWATER
MANAGEMENT REPORT – SCS UNIT HYDROGRAPH
PARKHURST PLACE (DA-4)**



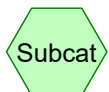
Parkhurst-Perv



Off-Site Parkhurst-Perv



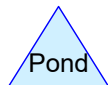
Prop. DA-4 Overland to
Parkhurst



Subcat



Reach



Pond



Link

Routing Diagram for Post-Development

Prepared by Matrix New World Engineering, Printed 7/31/2023
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Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

Printed 7/31/2023

Page 2

Summary for Subcatchment 16: Parkhurst-Perv

Runoff = 0.42 cfs @ 12.32 hrs, Volume= 0.051 af, Depth= 1.01"

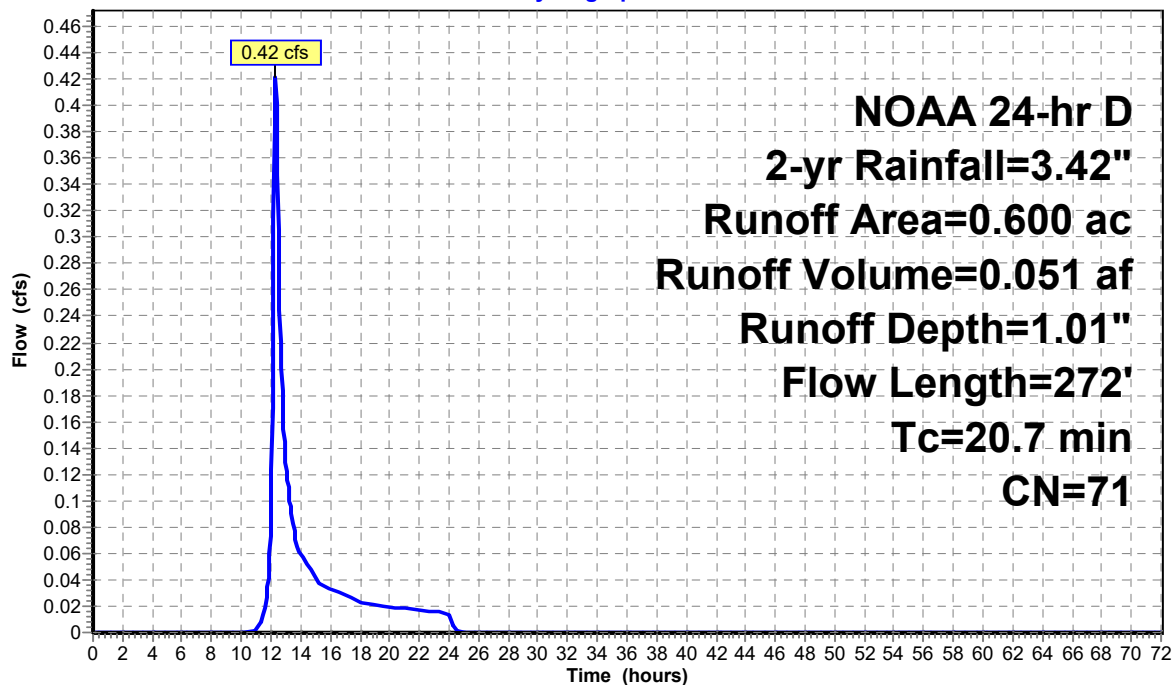
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2-yr Rainfall=3.42"

Area (ac)	CN	Description
0.140	74	>75% Grass cover, Good, HSG C
0.460	70	Woods, Good, HSG C
0.600	71	Weighted Average
0.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	100	0.0250	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.6	53	0.0755	1.37		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.3	52	0.3462	2.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.7	67	0.1045	1.62		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.7	272	Total			

Subcatchment 16: Parkhurst-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Subcatchment 16: Parkhurst-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	3.42	1.01	0.00
1.00	0.04	0.00	0.00	54.00	3.42	1.01	0.00
2.00	0.08	0.00	0.00	55.00	3.42	1.01	0.00
3.00	0.13	0.00	0.00	56.00	3.42	1.01	0.00
4.00	0.18	0.00	0.00	57.00	3.42	1.01	0.00
5.00	0.23	0.00	0.00	58.00	3.42	1.01	0.00
6.00	0.29	0.00	0.00	59.00	3.42	1.01	0.00
7.00	0.36	0.00	0.00	60.00	3.42	1.01	0.00
8.00	0.44	0.00	0.00	61.00	3.42	1.01	0.00
9.00	0.54	0.00	0.00	62.00	3.42	1.01	0.00
10.00	0.68	0.00	0.00	63.00	3.42	1.01	0.00
11.00	0.89	0.00	0.00	64.00	3.42	1.01	0.00
12.00	1.64	0.14	0.09	65.00	3.42	1.01	0.00
13.00	2.53	0.51	0.13	66.00	3.42	1.01	0.00
14.00	2.74	0.62	0.06	67.00	3.42	1.01	0.00
15.00	2.88	0.69	0.04	68.00	3.42	1.01	0.00
16.00	2.98	0.75	0.03	69.00	3.42	1.01	0.00
17.00	3.06	0.80	0.03	70.00	3.42	1.01	0.00
18.00	3.13	0.84	0.02	71.00	3.42	1.01	0.00
19.00	3.19	0.87	0.02	72.00	3.42	1.01	0.00
20.00	3.24	0.90	0.02				
21.00	3.29	0.93	0.02				
22.00	3.34	0.96	0.02				
23.00	3.38	0.99	0.02				
24.00	3.42	1.01	0.01				
25.00	3.42	1.01	0.00				
26.00	3.42	1.01	0.00				
27.00	3.42	1.01	0.00				
28.00	3.42	1.01	0.00				
29.00	3.42	1.01	0.00				
30.00	3.42	1.01	0.00				
31.00	3.42	1.01	0.00				
32.00	3.42	1.01	0.00				
33.00	3.42	1.01	0.00				
34.00	3.42	1.01	0.00				
35.00	3.42	1.01	0.00				
36.00	3.42	1.01	0.00				
37.00	3.42	1.01	0.00				
38.00	3.42	1.01	0.00				
39.00	3.42	1.01	0.00				
40.00	3.42	1.01	0.00				
41.00	3.42	1.01	0.00				
42.00	3.42	1.01	0.00				
43.00	3.42	1.01	0.00				
44.00	3.42	1.01	0.00				
45.00	3.42	1.01	0.00				
46.00	3.42	1.01	0.00				
47.00	3.42	1.01	0.00				
48.00	3.42	1.01	0.00				
49.00	3.42	1.01	0.00				
50.00	3.42	1.01	0.00				
51.00	3.42	1.01	0.00				
52.00	3.42	1.01	0.00				

Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Summary for Subcatchment 17: Off-Site Parkhurst-Perv

Runoff = 0.02 cfs @ 12.32 hrs, Volume= 0.003 af, Depth= 1.07"

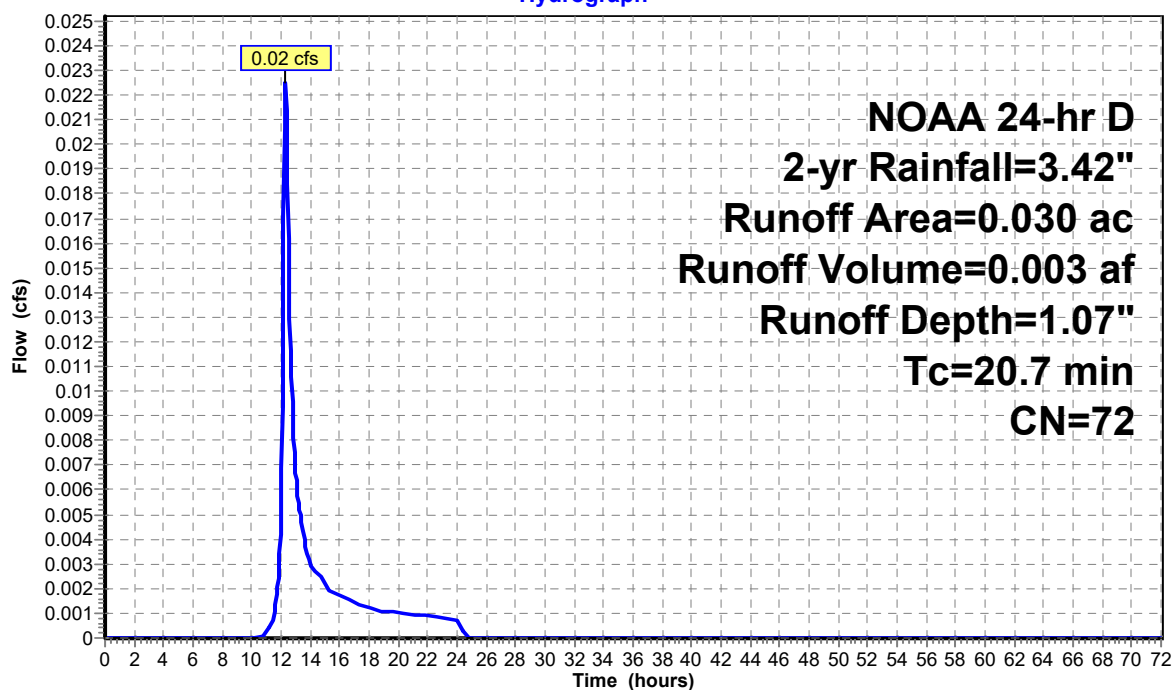
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2-yr Rainfall=3.42"

Area (ac)	CN	Description
0.030	72	Woods/grass comb., Good, HSG C
0.030		100.00% Pervious Area

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

Subcatchment 17: Off-Site Parkhurst-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Subcatchment 17: Off-Site Parkhurst-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	3.42	1.07	0.00
1.00	0.04	0.00	0.00	54.00	3.42	1.07	0.00
2.00	0.08	0.00	0.00	55.00	3.42	1.07	0.00
3.00	0.13	0.00	0.00	56.00	3.42	1.07	0.00
4.00	0.18	0.00	0.00	57.00	3.42	1.07	0.00
5.00	0.23	0.00	0.00	58.00	3.42	1.07	0.00
6.00	0.29	0.00	0.00	59.00	3.42	1.07	0.00
7.00	0.36	0.00	0.00	60.00	3.42	1.07	0.00
8.00	0.44	0.00	0.00	61.00	3.42	1.07	0.00
9.00	0.54	0.00	0.00	62.00	3.42	1.07	0.00
10.00	0.68	0.00	0.00	63.00	3.42	1.07	0.00
11.00	0.89	0.00	0.00	64.00	3.42	1.07	0.00
12.00	1.64	0.16	0.01	65.00	3.42	1.07	0.00
13.00	2.53	0.54	0.01	66.00	3.42	1.07	0.00
14.00	2.74	0.66	0.00	67.00	3.42	1.07	0.00
15.00	2.88	0.74	0.00	68.00	3.42	1.07	0.00
16.00	2.98	0.79	0.00	69.00	3.42	1.07	0.00
17.00	3.06	0.84	0.00	70.00	3.42	1.07	0.00
18.00	3.13	0.89	0.00	71.00	3.42	1.07	0.00
19.00	3.19	0.92	0.00	72.00	3.42	1.07	0.00
20.00	3.24	0.95	0.00				
21.00	3.29	0.99	0.00				
22.00	3.34	1.02	0.00				
23.00	3.38	1.04	0.00				
24.00	3.42	1.07	0.00				
25.00	3.42	1.07	0.00				
26.00	3.42	1.07	0.00				
27.00	3.42	1.07	0.00				
28.00	3.42	1.07	0.00				
29.00	3.42	1.07	0.00				
30.00	3.42	1.07	0.00				
31.00	3.42	1.07	0.00				
32.00	3.42	1.07	0.00				
33.00	3.42	1.07	0.00				
34.00	3.42	1.07	0.00				
35.00	3.42	1.07	0.00				
36.00	3.42	1.07	0.00				
37.00	3.42	1.07	0.00				
38.00	3.42	1.07	0.00				
39.00	3.42	1.07	0.00				
40.00	3.42	1.07	0.00				
41.00	3.42	1.07	0.00				
42.00	3.42	1.07	0.00				
43.00	3.42	1.07	0.00				
44.00	3.42	1.07	0.00				
45.00	3.42	1.07	0.00				
46.00	3.42	1.07	0.00				
47.00	3.42	1.07	0.00				
48.00	3.42	1.07	0.00				
49.00	3.42	1.07	0.00				
50.00	3.42	1.07	0.00				
51.00	3.42	1.07	0.00				
52.00	3.42	1.07	0.00				

Post-Development

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NOAA 24-hr D 2-yr Rainfall=3.42"

Printed 7/31/2023

Page 6

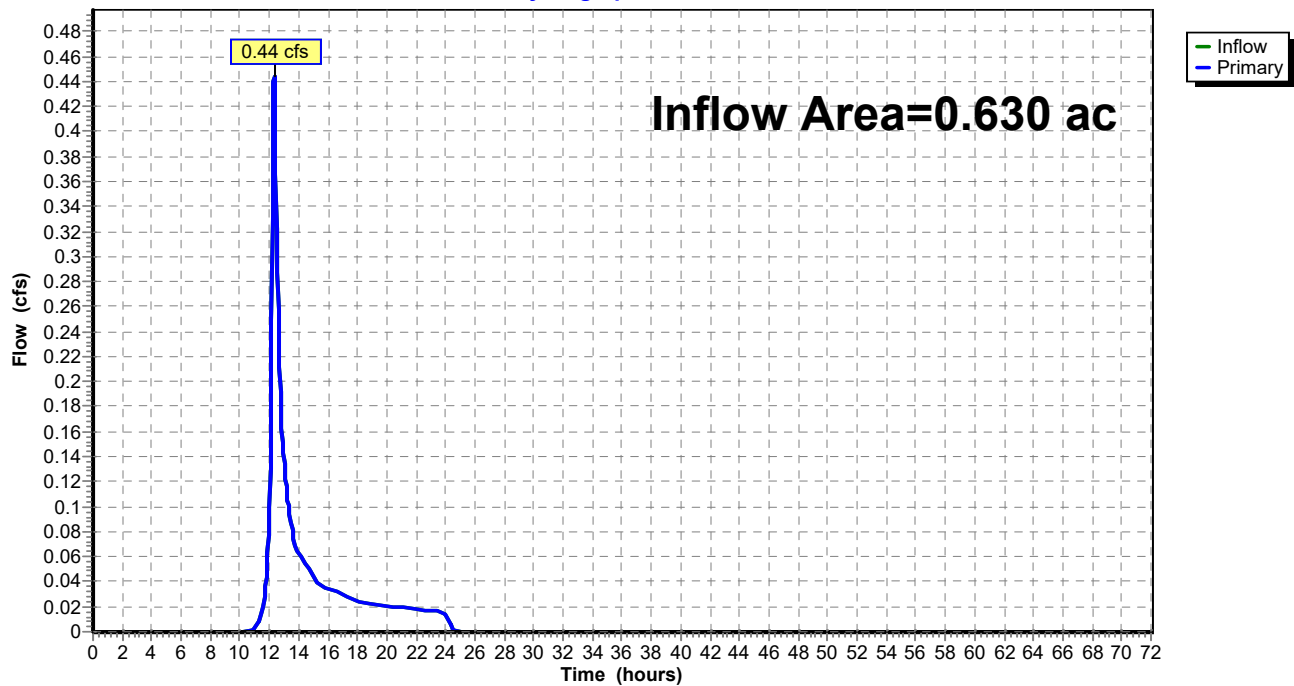
Summary for Pond 18: Prop. DA-4 Overland to Parkhurst

Inflow Area = 0.630 ac, 0.00% Impervious, Inflow Depth = 1.02" for 2-yr event
Inflow = 0.44 cfs @ 12.32 hrs, Volume= 0.053 af
Primary = 0.44 cfs @ 12.32 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 18: Prop. DA-4 Overland to Parkhurst

Hydrograph



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NOAA 24-hr D 2-yr Rainfall=3.42"

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Hydrograph for Pond 18: Prop. DA-4 Overland to Parkhurst

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.00		0.00	61.00	0.00		0.00
9.00	0.00		0.00	62.00	0.00		0.00
10.00	0.00		0.00	63.00	0.00		0.00
11.00	0.00		0.00	64.00	0.00		0.00
12.00	0.10		0.10	65.00	0.00		0.00
13.00	0.14		0.14	66.00	0.00		0.00
14.00	0.06		0.06	67.00	0.00		0.00
15.00	0.04		0.04	68.00	0.00		0.00
16.00	0.03		0.03	69.00	0.00		0.00
17.00	0.03		0.03	70.00	0.00		0.00
18.00	0.02		0.02	71.00	0.00		0.00
19.00	0.02		0.02	72.00	0.00		0.00
20.00	0.02		0.02				
21.00	0.02		0.02				
22.00	0.02		0.02				
23.00	0.02		0.02				
24.00	0.02		0.02				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Summary for Subcatchment 16: Parkhurst-Perv

Runoff = 1.00 cfs @ 12.31 hrs, Volume= 0.113 af, Depth= 2.27"

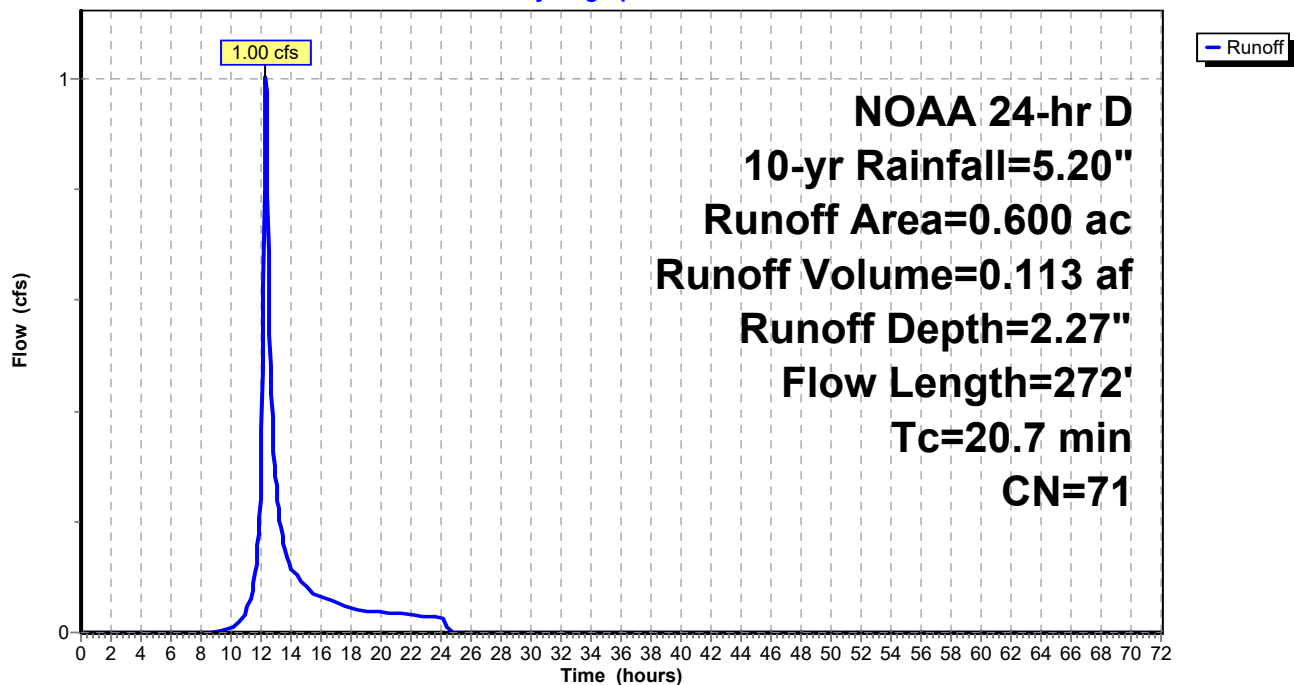
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10-yr Rainfall=5.20"

Area (ac)	CN	Description
0.140	74	>75% Grass cover, Good, HSG C
0.460	70	Woods, Good, HSG C
0.600	71	Weighted Average
0.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	100	0.0250	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.6	53	0.0755	1.37		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.3	52	0.3462	2.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.7	67	0.1045	1.62		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.7	272	Total			

Subcatchment 16: Parkhurst-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Subcatchment 16: Parkhurst-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	5.20	2.27	0.00
1.00	0.06	0.00	0.00	54.00	5.20	2.27	0.00
2.00	0.12	0.00	0.00	55.00	5.20	2.27	0.00
3.00	0.20	0.00	0.00	56.00	5.20	2.27	0.00
4.00	0.27	0.00	0.00	57.00	5.20	2.27	0.00
5.00	0.36	0.00	0.00	58.00	5.20	2.27	0.00
6.00	0.44	0.00	0.00	59.00	5.20	2.27	0.00
7.00	0.55	0.00	0.00	60.00	5.20	2.27	0.00
8.00	0.67	0.00	0.00	61.00	5.20	2.27	0.00
9.00	0.82	0.00	0.00	62.00	5.20	2.27	0.00
10.00	1.03	0.01	0.01	63.00	5.20	2.27	0.00
11.00	1.35	0.06	0.04	64.00	5.20	2.27	0.00
12.00	2.49	0.49	0.29	65.00	5.20	2.27	0.00
13.00	3.85	1.29	0.27	66.00	5.20	2.27	0.00
14.00	4.17	1.51	0.12	67.00	5.20	2.27	0.00
15.00	4.38	1.66	0.08	68.00	5.20	2.27	0.00
16.00	4.53	1.76	0.06	69.00	5.20	2.27	0.00
17.00	4.65	1.86	0.05	70.00	5.20	2.27	0.00
18.00	4.76	1.93	0.04	71.00	5.20	2.27	0.00
19.00	4.84	2.00	0.04	72.00	5.20	2.27	0.00
20.00	4.93	2.06	0.04				
21.00	5.00	2.12	0.03				
22.00	5.08	2.17	0.03				
23.00	5.14	2.22	0.03				
24.00	5.20	2.27	0.03				
25.00	5.20	2.27	0.00				
26.00	5.20	2.27	0.00				
27.00	5.20	2.27	0.00				
28.00	5.20	2.27	0.00				
29.00	5.20	2.27	0.00				
30.00	5.20	2.27	0.00				
31.00	5.20	2.27	0.00				
32.00	5.20	2.27	0.00				
33.00	5.20	2.27	0.00				
34.00	5.20	2.27	0.00				
35.00	5.20	2.27	0.00				
36.00	5.20	2.27	0.00				
37.00	5.20	2.27	0.00				
38.00	5.20	2.27	0.00				
39.00	5.20	2.27	0.00				
40.00	5.20	2.27	0.00				
41.00	5.20	2.27	0.00				
42.00	5.20	2.27	0.00				
43.00	5.20	2.27	0.00				
44.00	5.20	2.27	0.00				
45.00	5.20	2.27	0.00				
46.00	5.20	2.27	0.00				
47.00	5.20	2.27	0.00				
48.00	5.20	2.27	0.00				
49.00	5.20	2.27	0.00				
50.00	5.20	2.27	0.00				
51.00	5.20	2.27	0.00				
52.00	5.20	2.27	0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Summary for Subcatchment 17: Off-Site Parkhurst-Perv

Runoff = 0.05 cfs @ 12.31 hrs, Volume= 0.006 af, Depth= 2.35"

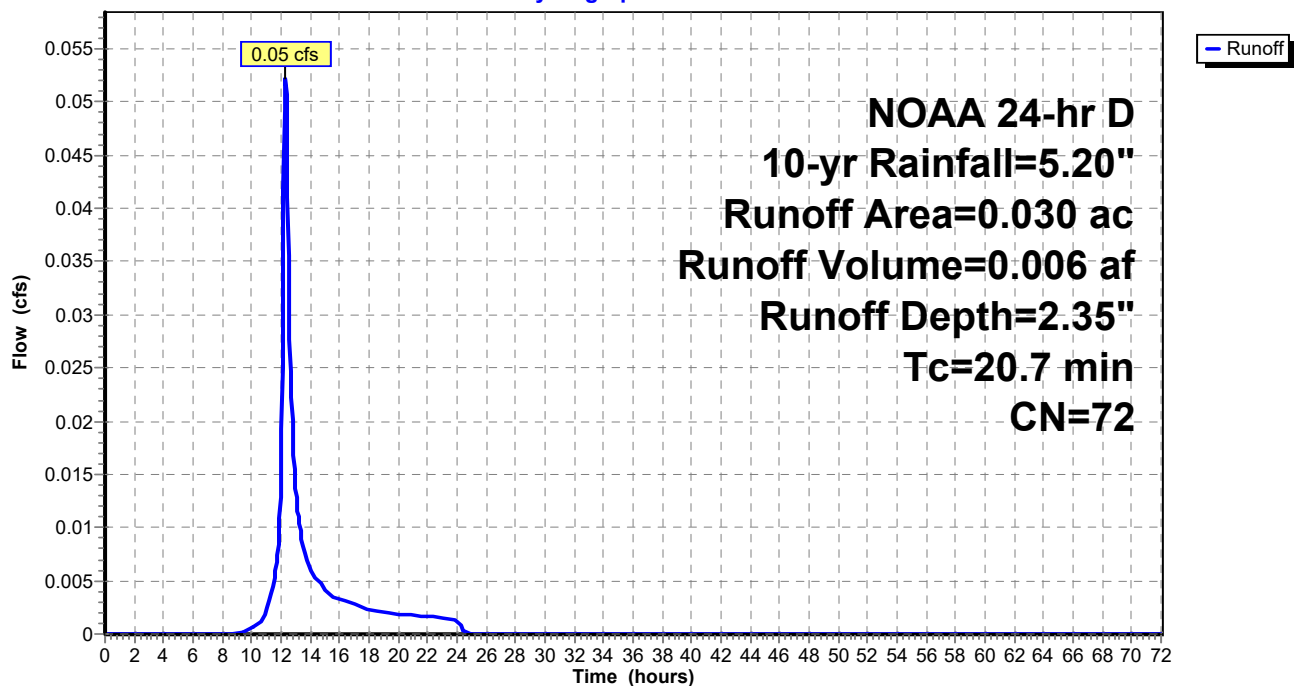
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10-yr Rainfall=5.20"

Area (ac)	CN	Description
0.030	72	Woods/grass comb., Good, HSG C
0.030		100.00% Pervious Area

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

Subcatchment 17: Off-Site Parkhurst-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Subcatchment 17: Off-Site Parkhurst-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	5.20	2.35	0.00
1.00	0.06	0.00	0.00	54.00	5.20	2.35	0.00
2.00	0.12	0.00	0.00	55.00	5.20	2.35	0.00
3.00	0.20	0.00	0.00	56.00	5.20	2.35	0.00
4.00	0.27	0.00	0.00	57.00	5.20	2.35	0.00
5.00	0.36	0.00	0.00	58.00	5.20	2.35	0.00
6.00	0.44	0.00	0.00	59.00	5.20	2.35	0.00
7.00	0.55	0.00	0.00	60.00	5.20	2.35	0.00
8.00	0.67	0.00	0.00	61.00	5.20	2.35	0.00
9.00	0.82	0.00	0.00	62.00	5.20	2.35	0.00
10.00	1.03	0.02	0.00	63.00	5.20	2.35	0.00
11.00	1.35	0.07	0.00	64.00	5.20	2.35	0.00
12.00	2.49	0.52	0.02	65.00	5.20	2.35	0.00
13.00	3.85	1.35	0.01	66.00	5.20	2.35	0.00
14.00	4.17	1.58	0.01	67.00	5.20	2.35	0.00
15.00	4.38	1.73	0.00	68.00	5.20	2.35	0.00
16.00	4.53	1.84	0.00	69.00	5.20	2.35	0.00
17.00	4.65	1.93	0.00	70.00	5.20	2.35	0.00
18.00	4.76	2.01	0.00	71.00	5.20	2.35	0.00
19.00	4.84	2.08	0.00	72.00	5.20	2.35	0.00
20.00	4.93	2.14	0.00				
21.00	5.00	2.20	0.00				
22.00	5.08	2.26	0.00				
23.00	5.14	2.31	0.00				
24.00	5.20	2.35	0.00				
25.00	5.20	2.35	0.00				
26.00	5.20	2.35	0.00				
27.00	5.20	2.35	0.00				
28.00	5.20	2.35	0.00				
29.00	5.20	2.35	0.00				
30.00	5.20	2.35	0.00				
31.00	5.20	2.35	0.00				
32.00	5.20	2.35	0.00				
33.00	5.20	2.35	0.00				
34.00	5.20	2.35	0.00				
35.00	5.20	2.35	0.00				
36.00	5.20	2.35	0.00				
37.00	5.20	2.35	0.00				
38.00	5.20	2.35	0.00				
39.00	5.20	2.35	0.00				
40.00	5.20	2.35	0.00				
41.00	5.20	2.35	0.00				
42.00	5.20	2.35	0.00				
43.00	5.20	2.35	0.00				
44.00	5.20	2.35	0.00				
45.00	5.20	2.35	0.00				
46.00	5.20	2.35	0.00				
47.00	5.20	2.35	0.00				
48.00	5.20	2.35	0.00				
49.00	5.20	2.35	0.00				
50.00	5.20	2.35	0.00				
51.00	5.20	2.35	0.00				
52.00	5.20	2.35	0.00				

Post-Development

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NOAA 24-hr D 10-yr Rainfall=5.20"

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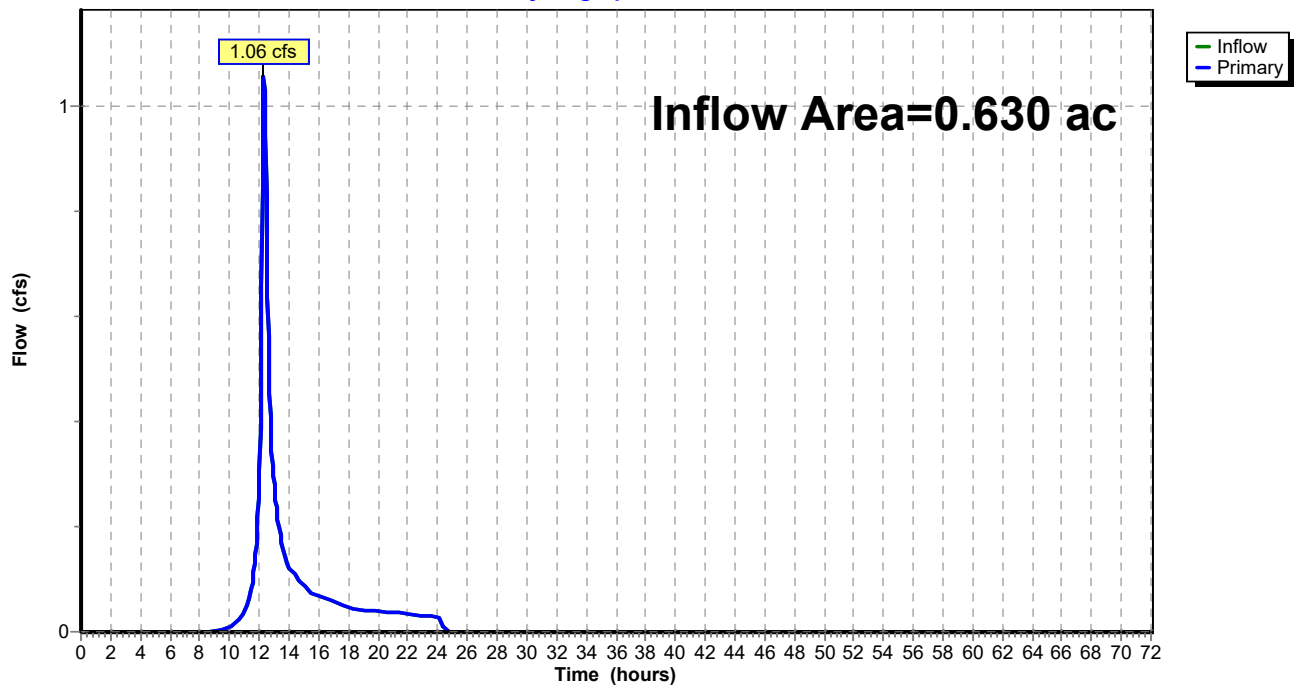
Summary for Pond 18: Prop. DA-4 Overland to Parkhurst

Inflow Area = 0.630 ac, 0.00% Impervious, Inflow Depth = 2.27" for 10-yr event
Inflow = 1.06 cfs @ 12.31 hrs, Volume= 0.119 af
Primary = 1.06 cfs @ 12.31 hrs, Volume= 0.119 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 18: Prop. DA-4 Overland to Parkhurst

Hydrograph



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NOAA 24-hr D 10-yr Rainfall=5.20"

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Hydrograph for Pond 18: Prop. DA-4 Overland to Parkhurst

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.00		0.00	61.00	0.00		0.00
9.00	0.00		0.00	62.00	0.00		0.00
10.00	0.01		0.01	63.00	0.00		0.00
11.00	0.04		0.04	64.00	0.00		0.00
12.00	0.31		0.31	65.00	0.00		0.00
13.00	0.28		0.28	66.00	0.00		0.00
14.00	0.12		0.12	67.00	0.00		0.00
15.00	0.09		0.09	68.00	0.00		0.00
16.00	0.07		0.07	69.00	0.00		0.00
17.00	0.06		0.06	70.00	0.00		0.00
18.00	0.05		0.05	71.00	0.00		0.00
19.00	0.04		0.04	72.00	0.00		0.00
20.00	0.04		0.04				
21.00	0.04		0.04				
22.00	0.03		0.03				
23.00	0.03		0.03				
24.00	0.03		0.03				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Summary for Subcatchment 16: Parkhurst-Perv

Runoff = 2.31 cfs @ 12.30 hrs, Volume= 0.259 af, Depth= 5.18"

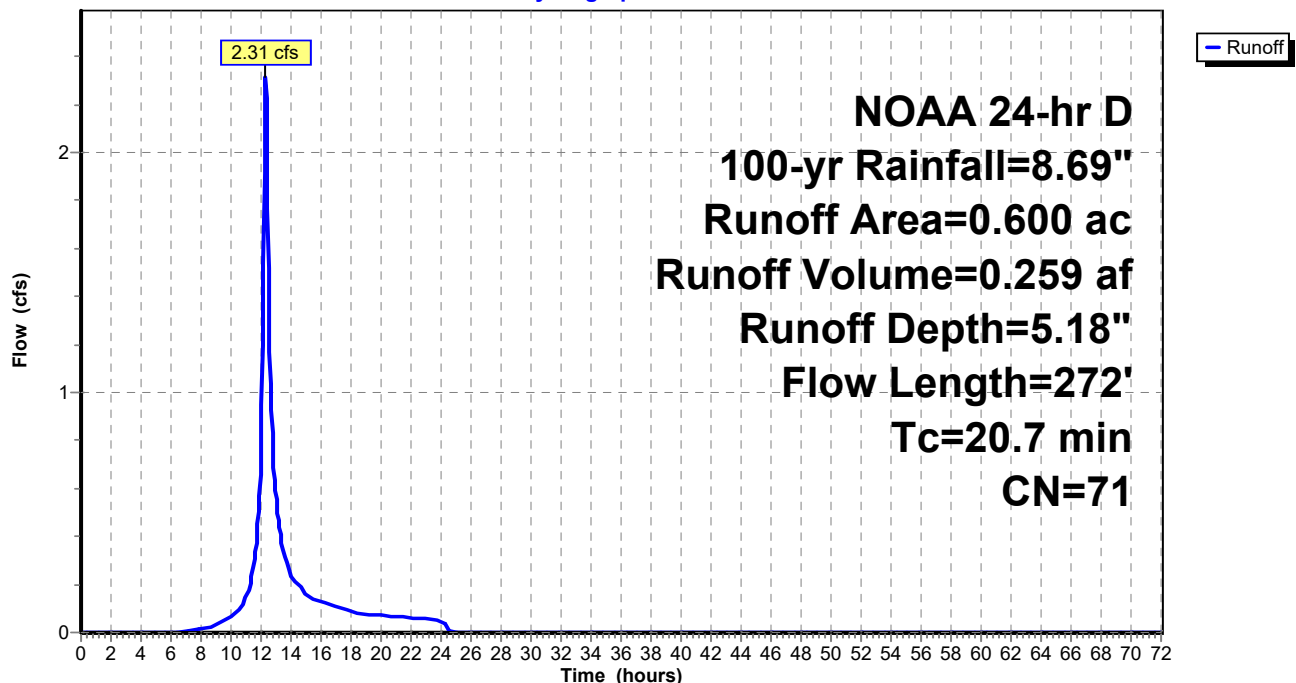
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100-yr Rainfall=8.69"

Area (ac)	CN	Description
0.140	74	>75% Grass cover, Good, HSG C
0.460	70	Woods, Good, HSG C
0.600	71	Weighted Average
0.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	100	0.0250	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.6	53	0.0755	1.37		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.3	52	0.3462	2.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.7	67	0.1045	1.62		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.7	272	Total			

Subcatchment 16: Parkhurst-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Hydrograph for Subcatchment 16: Parkhurst-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	8.69	5.18	0.00
1.00	0.10	0.00	0.00	54.00	8.69	5.18	0.00
2.00	0.21	0.00	0.00	55.00	8.69	5.18	0.00
3.00	0.33	0.00	0.00	56.00	8.69	5.18	0.00
4.00	0.46	0.00	0.00	57.00	8.69	5.18	0.00
5.00	0.59	0.00	0.00	58.00	8.69	5.18	0.00
6.00	0.74	0.00	0.00	59.00	8.69	5.18	0.00
7.00	0.92	0.00	0.00	60.00	8.69	5.18	0.00
8.00	1.13	0.02	0.01	61.00	8.69	5.18	0.00
9.00	1.38	0.07	0.03	62.00	8.69	5.18	0.00
10.00	1.72	0.16	0.07	63.00	8.69	5.18	0.00
11.00	2.26	0.38	0.15	64.00	8.69	5.18	0.00
12.00	4.16	1.51	0.78	65.00	8.69	5.18	0.00
13.00	6.43	3.25	0.55	66.00	8.69	5.18	0.00
14.00	6.97	3.70	0.24	67.00	8.69	5.18	0.00
15.00	7.31	3.99	0.16	68.00	8.69	5.18	0.00
16.00	7.56	4.20	0.13	69.00	8.69	5.18	0.00
17.00	7.77	4.38	0.11	70.00	8.69	5.18	0.00
18.00	7.95	4.53	0.09	71.00	8.69	5.18	0.00
19.00	8.10	4.66	0.08	72.00	8.69	5.18	0.00
20.00	8.23	4.78	0.07				
21.00	8.36	4.90	0.07				
22.00	8.48	5.00	0.06				
23.00	8.59	5.10	0.06				
24.00	8.69	5.18	0.05				
25.00	8.69	5.18	0.00				
26.00	8.69	5.18	0.00				
27.00	8.69	5.18	0.00				
28.00	8.69	5.18	0.00				
29.00	8.69	5.18	0.00				
30.00	8.69	5.18	0.00				
31.00	8.69	5.18	0.00				
32.00	8.69	5.18	0.00				
33.00	8.69	5.18	0.00				
34.00	8.69	5.18	0.00				
35.00	8.69	5.18	0.00				
36.00	8.69	5.18	0.00				
37.00	8.69	5.18	0.00				
38.00	8.69	5.18	0.00				
39.00	8.69	5.18	0.00				
40.00	8.69	5.18	0.00				
41.00	8.69	5.18	0.00				
42.00	8.69	5.18	0.00				
43.00	8.69	5.18	0.00				
44.00	8.69	5.18	0.00				
45.00	8.69	5.18	0.00				
46.00	8.69	5.18	0.00				
47.00	8.69	5.18	0.00				
48.00	8.69	5.18	0.00				
49.00	8.69	5.18	0.00				
50.00	8.69	5.18	0.00				
51.00	8.69	5.18	0.00				
52.00	8.69	5.18	0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Summary for Subcatchment 17: Off-Site Parkhurst-Perv

Runoff = 0.12 cfs @ 12.30 hrs, Volume= 0.013 af, Depth= 5.30"

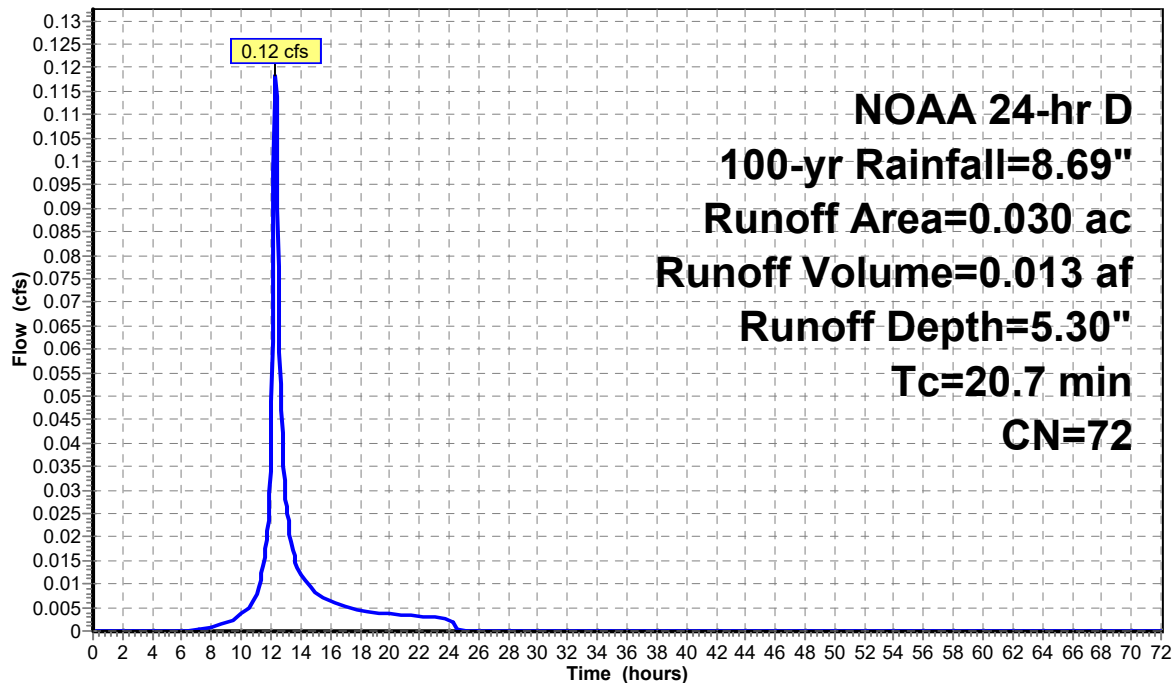
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100-yr Rainfall=8.69"

Area (ac)	CN	Description
0.030	72	Woods/grass comb., Good, HSG C
0.030		100.00% Pervious Area

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

Subcatchment 17: Off-Site Parkhurst-Perv

Hydrograph



Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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Hydrograph for Subcatchment 17: Off-Site Parkhurst-Perv

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	53.00	8.69	5.30	0.00
1.00	0.10	0.00	0.00	54.00	8.69	5.30	0.00
2.00	0.21	0.00	0.00	55.00	8.69	5.30	0.00
3.00	0.33	0.00	0.00	56.00	8.69	5.30	0.00
4.00	0.46	0.00	0.00	57.00	8.69	5.30	0.00
5.00	0.59	0.00	0.00	58.00	8.69	5.30	0.00
6.00	0.74	0.00	0.00	59.00	8.69	5.30	0.00
7.00	0.92	0.00	0.00	60.00	8.69	5.30	0.00
8.00	1.13	0.03	0.00	61.00	8.69	5.30	0.00
9.00	1.38	0.08	0.00	62.00	8.69	5.30	0.00
10.00	1.72	0.18	0.00	63.00	8.69	5.30	0.00
11.00	2.26	0.41	0.01	64.00	8.69	5.30	0.00
12.00	4.16	1.58	0.04	65.00	8.69	5.30	0.00
13.00	6.43	3.35	0.03	66.00	8.69	5.30	0.00
14.00	6.97	3.80	0.01	67.00	8.69	5.30	0.00
15.00	7.31	4.10	0.01	68.00	8.69	5.30	0.00
16.00	7.56	4.31	0.01	69.00	8.69	5.30	0.00
17.00	7.77	4.50	0.01	70.00	8.69	5.30	0.00
18.00	7.95	4.65	0.00	71.00	8.69	5.30	0.00
19.00	8.10	4.78	0.00	72.00	8.69	5.30	0.00
20.00	8.23	4.90	0.00				
21.00	8.36	5.01	0.00				
22.00	8.48	5.12	0.00				
23.00	8.59	5.22	0.00				
24.00	8.69	5.30	0.00				
25.00	8.69	5.30	0.00				
26.00	8.69	5.30	0.00				
27.00	8.69	5.30	0.00				
28.00	8.69	5.30	0.00				
29.00	8.69	5.30	0.00				
30.00	8.69	5.30	0.00				
31.00	8.69	5.30	0.00				
32.00	8.69	5.30	0.00				
33.00	8.69	5.30	0.00				
34.00	8.69	5.30	0.00				
35.00	8.69	5.30	0.00				
36.00	8.69	5.30	0.00				
37.00	8.69	5.30	0.00				
38.00	8.69	5.30	0.00				
39.00	8.69	5.30	0.00				
40.00	8.69	5.30	0.00				
41.00	8.69	5.30	0.00				
42.00	8.69	5.30	0.00				
43.00	8.69	5.30	0.00				
44.00	8.69	5.30	0.00				
45.00	8.69	5.30	0.00				
46.00	8.69	5.30	0.00				
47.00	8.69	5.30	0.00				
48.00	8.69	5.30	0.00				
49.00	8.69	5.30	0.00				
50.00	8.69	5.30	0.00				
51.00	8.69	5.30	0.00				
52.00	8.69	5.30	0.00				

Post-Development

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NOAA 24-hr D 100-yr Rainfall=8.69"

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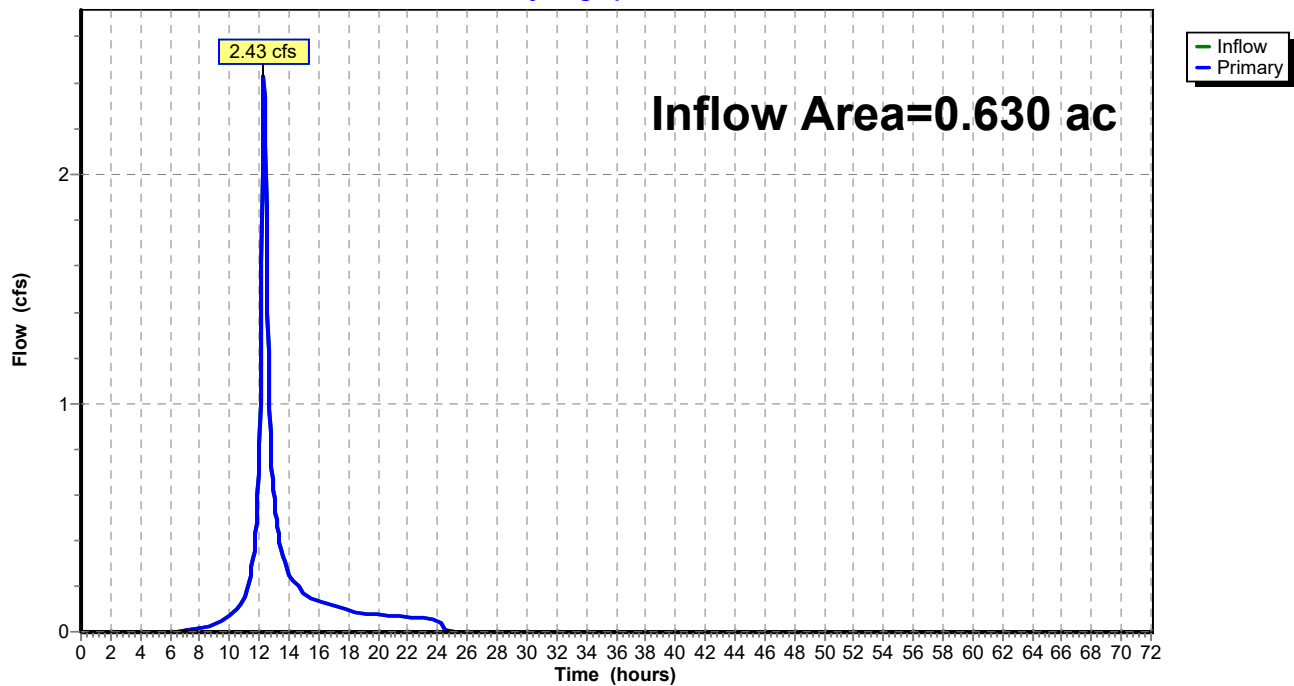
Summary for Pond 18: Prop. DA-4 Overland to Parkhurst

Inflow Area = 0.630 ac, 0.00% Impervious, Inflow Depth = 5.19" for 100-yr event
Inflow = 2.43 cfs @ 12.30 hrs, Volume= 0.272 af
Primary = 2.43 cfs @ 12.30 hrs, Volume= 0.272 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Pond 18: Prop. DA-4 Overland to Parkhurst

Hydrograph



Post-Development

NOAA 24-hr D 100-yr Rainfall=8.69"

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Hydrograph for Pond 18: Prop. DA-4 Overland to Parkhurst

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00		0.00	53.00	0.00		0.00
1.00	0.00		0.00	54.00	0.00		0.00
2.00	0.00		0.00	55.00	0.00		0.00
3.00	0.00		0.00	56.00	0.00		0.00
4.00	0.00		0.00	57.00	0.00		0.00
5.00	0.00		0.00	58.00	0.00		0.00
6.00	0.00		0.00	59.00	0.00		0.00
7.00	0.00		0.00	60.00	0.00		0.00
8.00	0.02		0.02	61.00	0.00		0.00
9.00	0.03		0.03	62.00	0.00		0.00
10.00	0.07		0.07	63.00	0.00		0.00
11.00	0.16		0.16	64.00	0.00		0.00
12.00	0.82		0.82	65.00	0.00		0.00
13.00	0.58		0.58	66.00	0.00		0.00
14.00	0.25		0.25	67.00	0.00		0.00
15.00	0.17		0.17	68.00	0.00		0.00
16.00	0.13		0.13	69.00	0.00		0.00
17.00	0.11		0.11	70.00	0.00		0.00
18.00	0.09		0.09	71.00	0.00		0.00
19.00	0.08		0.08	72.00	0.00		0.00
20.00	0.08		0.08				
21.00	0.07		0.07				
22.00	0.07		0.07				
23.00	0.06		0.06				
24.00	0.05		0.05				
25.00	0.00		0.00				
26.00	0.00		0.00				
27.00	0.00		0.00				
28.00	0.00		0.00				
29.00	0.00		0.00				
30.00	0.00		0.00				
31.00	0.00		0.00				
32.00	0.00		0.00				
33.00	0.00		0.00				
34.00	0.00		0.00				
35.00	0.00		0.00				
36.00	0.00		0.00				
37.00	0.00		0.00				
38.00	0.00		0.00				
39.00	0.00		0.00				
40.00	0.00		0.00				
41.00	0.00		0.00				
42.00	0.00		0.00				
43.00	0.00		0.00				
44.00	0.00		0.00				
45.00	0.00		0.00				
46.00	0.00		0.00				
47.00	0.00		0.00				
48.00	0.00		0.00				
49.00	0.00		0.00				
50.00	0.00		0.00				
51.00	0.00		0.00				
52.00	0.00		0.00				