



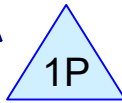
0.8 ac Impervious
(Postconstruction)



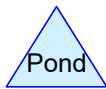
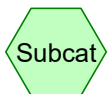
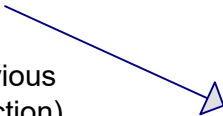
0.8 ac Pervious
(Preconstruction)



0.8 ac Impervious
(Postconstruction w/o
BMPs)



Managed Release Rain
Garden



Routing Diagram for MRC Example 1

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MRC Example 1

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.800	74	Meadow, non-grazed, HSG C (3S)
1.600	98	Paved roads w/curbs & sewers, HSG B (1S, 2S)
2.400	90	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
1.600	HSG B	1S, 2S
0.800	HSG C	3S
0.000	HSG D	
0.000	Other	
2.400		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.800	0.000	0.000	0.800	Meadow, non-grazed	3S
0.000	1.600	0.000	0.000	0.000	1.600	Paved roads w/curbs & sewers	1S, 2S
0.000	1.600	0.800	0.000	0.000	2.400	TOTAL AREA	

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Notes Listing (all nodes)

Line#	Node Number	Notes
1	1P	50% IWS routing modeled with a $0.30 \times 50\% = 0.15$ void space

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Time span=0.00-300.00 hrs, dt=0.01 hrs, 30001 points

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv.

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: 0.8 ac Impervious Runoff Area=34,848 sf 100.00% Impervious Runoff Depth=2.47"
Tc=6.0 min CN=0/98 Runoff=2.28 cfs 0.165 af

Subcatchment2S: 0.8 ac Impervious Runoff Area=34,848 sf 100.00% Impervious Runoff Depth=2.47"
Tc=6.0 min CN=0/98 Runoff=2.28 cfs 0.165 af

Subcatchment3S: 0.8 ac Pervious Runoff Area=34,848 sf 0.00% Impervious Runoff Depth=0.72"
Tc=15.0 min CN=74/0 Runoff=0.51 cfs 0.048 af

Pond 1P: Managed Release Rain Garden Peak Elev=1.11' Storage=5,248 cf Inflow=2.28 cfs 0.165 af
s 0.087 af Primary=0.01 cfs 0.060 af Secondary=0.07 cfs 0.017 af Tertiary=0.00 cfs 0.000 af Outflow=0.09 cfs 0.165 af

Total Runoff Area = 2.400 ac Runoff Volume = 0.378 af Average Runoff Depth = 1.89"
33.33% Pervious = 0.800 ac 66.67% Impervious = 1.600 ac

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Summary for Subcatchment 1S: 0.8 ac Impervious (Postconstruction)

Runoff = 2.28 cfs @ 12.13 hrs, Volume= 0.165 af, Depth= 2.47"

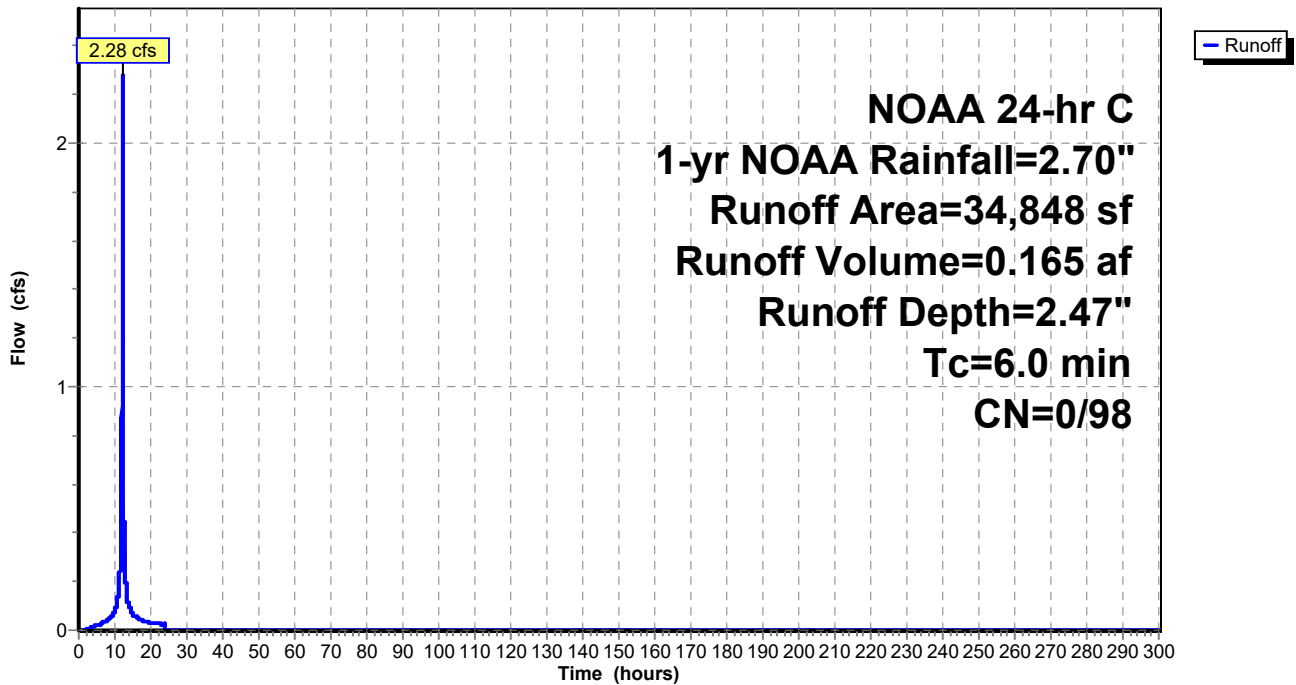
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Area (sf)	CN	Description
34,848	98	Paved roads w/curbs & sewers, HSG B
34,848	98	100.00% Impervious Area

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

Subcatchment 1S: 0.8 ac Impervious (Postconstruction)

Hydrograph



MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.03	0.00	0.00	0.00
2.00	0.06	0.00	0.00	0.00
3.00	0.10	0.00	0.01	0.01
4.00	0.13	0.00	0.03	0.02
5.00	0.17	0.00	0.05	0.02
6.00	0.21	0.00	0.08	0.02
7.00	0.26	0.00	0.12	0.03
8.00	0.32	0.00	0.16	0.04
9.00	0.39	0.00	0.22	0.05
10.00	0.49	0.00	0.31	0.08
11.00	0.65	0.00	0.45	0.16
12.00	1.29	0.00	1.07	1.26
13.00	2.05	0.00	1.83	0.20
14.00	2.21	0.00	1.98	0.10
15.00	2.31	0.00	2.08	0.07
16.00	2.38	0.00	2.15	0.05
17.00	2.44	0.00	2.21	0.04
18.00	2.49	0.00	2.26	0.04
19.00	2.53	0.00	2.30	0.03
20.00	2.57	0.00	2.34	0.03
21.00	2.60	0.00	2.37	0.03
22.00	2.64	0.00	2.41	0.03
23.00	2.67	0.00	2.44	0.02
24.00	2.70	0.00	2.47	0.03
25.00	2.70	0.00	2.47	0.00
26.00	2.70	0.00	2.47	0.00
27.00	2.70	0.00	2.47	0.00
28.00	2.70	0.00	2.47	0.00
29.00	2.70	0.00	2.47	0.00
30.00	2.70	0.00	2.47	0.00
31.00	2.70	0.00	2.47	0.00
32.00	2.70	0.00	2.47	0.00
33.00	2.70	0.00	2.47	0.00
34.00	2.70	0.00	2.47	0.00
35.00	2.70	0.00	2.47	0.00
36.00	2.70	0.00	2.47	0.00
37.00	2.70	0.00	2.47	0.00
38.00	2.70	0.00	2.47	0.00
39.00	2.70	0.00	2.47	0.00
40.00	2.70	0.00	2.47	0.00
41.00	2.70	0.00	2.47	0.00
42.00	2.70	0.00	2.47	0.00
43.00	2.70	0.00	2.47	0.00
44.00	2.70	0.00	2.47	0.00
45.00	2.70	0.00	2.47	0.00
46.00	2.70	0.00	2.47	0.00
47.00	2.70	0.00	2.47	0.00
48.00	2.70	0.00	2.47	0.00
49.00	2.70	0.00	2.47	0.00
50.00	2.70	0.00	2.47	0.00
51.00	2.70	0.00	2.47	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	2.70	0.00	2.47	0.00
53.00	2.70	0.00	2.47	0.00
54.00	2.70	0.00	2.47	0.00
55.00	2.70	0.00	2.47	0.00
56.00	2.70	0.00	2.47	0.00
57.00	2.70	0.00	2.47	0.00
58.00	2.70	0.00	2.47	0.00
59.00	2.70	0.00	2.47	0.00
60.00	2.70	0.00	2.47	0.00
61.00	2.70	0.00	2.47	0.00
62.00	2.70	0.00	2.47	0.00
63.00	2.70	0.00	2.47	0.00
64.00	2.70	0.00	2.47	0.00
65.00	2.70	0.00	2.47	0.00
66.00	2.70	0.00	2.47	0.00
67.00	2.70	0.00	2.47	0.00
68.00	2.70	0.00	2.47	0.00
69.00	2.70	0.00	2.47	0.00
70.00	2.70	0.00	2.47	0.00
71.00	2.70	0.00	2.47	0.00
72.00	2.70	0.00	2.47	0.00
73.00	2.70	0.00	2.47	0.00
74.00	2.70	0.00	2.47	0.00
75.00	2.70	0.00	2.47	0.00
76.00	2.70	0.00	2.47	0.00
77.00	2.70	0.00	2.47	0.00
78.00	2.70	0.00	2.47	0.00
79.00	2.70	0.00	2.47	0.00
80.00	2.70	0.00	2.47	0.00
81.00	2.70	0.00	2.47	0.00
82.00	2.70	0.00	2.47	0.00
83.00	2.70	0.00	2.47	0.00
84.00	2.70	0.00	2.47	0.00
85.00	2.70	0.00	2.47	0.00
86.00	2.70	0.00	2.47	0.00
87.00	2.70	0.00	2.47	0.00
88.00	2.70	0.00	2.47	0.00
89.00	2.70	0.00	2.47	0.00
90.00	2.70	0.00	2.47	0.00
91.00	2.70	0.00	2.47	0.00
92.00	2.70	0.00	2.47	0.00
93.00	2.70	0.00	2.47	0.00
94.00	2.70	0.00	2.47	0.00
95.00	2.70	0.00	2.47	0.00
96.00	2.70	0.00	2.47	0.00
97.00	2.70	0.00	2.47	0.00
98.00	2.70	0.00	2.47	0.00
99.00	2.70	0.00	2.47	0.00
100.00	2.70	0.00	2.47	0.00
101.00	2.70	0.00	2.47	0.00
102.00	2.70	0.00	2.47	0.00
103.00	2.70	0.00	2.47	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	2.70	0.00	2.47	0.00
105.00	2.70	0.00	2.47	0.00
106.00	2.70	0.00	2.47	0.00
107.00	2.70	0.00	2.47	0.00
108.00	2.70	0.00	2.47	0.00
109.00	2.70	0.00	2.47	0.00
110.00	2.70	0.00	2.47	0.00
111.00	2.70	0.00	2.47	0.00
112.00	2.70	0.00	2.47	0.00
113.00	2.70	0.00	2.47	0.00
114.00	2.70	0.00	2.47	0.00
115.00	2.70	0.00	2.47	0.00
116.00	2.70	0.00	2.47	0.00
117.00	2.70	0.00	2.47	0.00
118.00	2.70	0.00	2.47	0.00
119.00	2.70	0.00	2.47	0.00
120.00	2.70	0.00	2.47	0.00
121.00	2.70	0.00	2.47	0.00
122.00	2.70	0.00	2.47	0.00
123.00	2.70	0.00	2.47	0.00
124.00	2.70	0.00	2.47	0.00
125.00	2.70	0.00	2.47	0.00
126.00	2.70	0.00	2.47	0.00
127.00	2.70	0.00	2.47	0.00
128.00	2.70	0.00	2.47	0.00
129.00	2.70	0.00	2.47	0.00
130.00	2.70	0.00	2.47	0.00
131.00	2.70	0.00	2.47	0.00
132.00	2.70	0.00	2.47	0.00
133.00	2.70	0.00	2.47	0.00
134.00	2.70	0.00	2.47	0.00
135.00	2.70	0.00	2.47	0.00
136.00	2.70	0.00	2.47	0.00
137.00	2.70	0.00	2.47	0.00
138.00	2.70	0.00	2.47	0.00
139.00	2.70	0.00	2.47	0.00
140.00	2.70	0.00	2.47	0.00
141.00	2.70	0.00	2.47	0.00
142.00	2.70	0.00	2.47	0.00
143.00	2.70	0.00	2.47	0.00
144.00	2.70	0.00	2.47	0.00
145.00	2.70	0.00	2.47	0.00
146.00	2.70	0.00	2.47	0.00
147.00	2.70	0.00	2.47	0.00
148.00	2.70	0.00	2.47	0.00
149.00	2.70	0.00	2.47	0.00
150.00	2.70	0.00	2.47	0.00
151.00	2.70	0.00	2.47	0.00
152.00	2.70	0.00	2.47	0.00
153.00	2.70	0.00	2.47	0.00
154.00	2.70	0.00	2.47	0.00
155.00	2.70	0.00	2.47	0.00

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NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	2.70	0.00	2.47	0.00
157.00	2.70	0.00	2.47	0.00
158.00	2.70	0.00	2.47	0.00
159.00	2.70	0.00	2.47	0.00
160.00	2.70	0.00	2.47	0.00
161.00	2.70	0.00	2.47	0.00
162.00	2.70	0.00	2.47	0.00
163.00	2.70	0.00	2.47	0.00
164.00	2.70	0.00	2.47	0.00
165.00	2.70	0.00	2.47	0.00
166.00	2.70	0.00	2.47	0.00
167.00	2.70	0.00	2.47	0.00
168.00	2.70	0.00	2.47	0.00
169.00	2.70	0.00	2.47	0.00
170.00	2.70	0.00	2.47	0.00
171.00	2.70	0.00	2.47	0.00
172.00	2.70	0.00	2.47	0.00
173.00	2.70	0.00	2.47	0.00
174.00	2.70	0.00	2.47	0.00
175.00	2.70	0.00	2.47	0.00
176.00	2.70	0.00	2.47	0.00
177.00	2.70	0.00	2.47	0.00
178.00	2.70	0.00	2.47	0.00
179.00	2.70	0.00	2.47	0.00
180.00	2.70	0.00	2.47	0.00
181.00	2.70	0.00	2.47	0.00
182.00	2.70	0.00	2.47	0.00
183.00	2.70	0.00	2.47	0.00
184.00	2.70	0.00	2.47	0.00
185.00	2.70	0.00	2.47	0.00
186.00	2.70	0.00	2.47	0.00
187.00	2.70	0.00	2.47	0.00
188.00	2.70	0.00	2.47	0.00
189.00	2.70	0.00	2.47	0.00
190.00	2.70	0.00	2.47	0.00
191.00	2.70	0.00	2.47	0.00
192.00	2.70	0.00	2.47	0.00
193.00	2.70	0.00	2.47	0.00
194.00	2.70	0.00	2.47	0.00
195.00	2.70	0.00	2.47	0.00
196.00	2.70	0.00	2.47	0.00
197.00	2.70	0.00	2.47	0.00
198.00	2.70	0.00	2.47	0.00
199.00	2.70	0.00	2.47	0.00
200.00	2.70	0.00	2.47	0.00
201.00	2.70	0.00	2.47	0.00
202.00	2.70	0.00	2.47	0.00
203.00	2.70	0.00	2.47	0.00
204.00	2.70	0.00	2.47	0.00
205.00	2.70	0.00	2.47	0.00
206.00	2.70	0.00	2.47	0.00
207.00	2.70	0.00	2.47	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	2.70	0.00	2.47	0.00
209.00	2.70	0.00	2.47	0.00
210.00	2.70	0.00	2.47	0.00
211.00	2.70	0.00	2.47	0.00
212.00	2.70	0.00	2.47	0.00
213.00	2.70	0.00	2.47	0.00
214.00	2.70	0.00	2.47	0.00
215.00	2.70	0.00	2.47	0.00
216.00	2.70	0.00	2.47	0.00
217.00	2.70	0.00	2.47	0.00
218.00	2.70	0.00	2.47	0.00
219.00	2.70	0.00	2.47	0.00
220.00	2.70	0.00	2.47	0.00
221.00	2.70	0.00	2.47	0.00
222.00	2.70	0.00	2.47	0.00
223.00	2.70	0.00	2.47	0.00
224.00	2.70	0.00	2.47	0.00
225.00	2.70	0.00	2.47	0.00
226.00	2.70	0.00	2.47	0.00
227.00	2.70	0.00	2.47	0.00
228.00	2.70	0.00	2.47	0.00
229.00	2.70	0.00	2.47	0.00
230.00	2.70	0.00	2.47	0.00
231.00	2.70	0.00	2.47	0.00
232.00	2.70	0.00	2.47	0.00
233.00	2.70	0.00	2.47	0.00
234.00	2.70	0.00	2.47	0.00
235.00	2.70	0.00	2.47	0.00
236.00	2.70	0.00	2.47	0.00
237.00	2.70	0.00	2.47	0.00
238.00	2.70	0.00	2.47	0.00
239.00	2.70	0.00	2.47	0.00
240.00	2.70	0.00	2.47	0.00
241.00	2.70	0.00	2.47	0.00
242.00	2.70	0.00	2.47	0.00
243.00	2.70	0.00	2.47	0.00
244.00	2.70	0.00	2.47	0.00
245.00	2.70	0.00	2.47	0.00
246.00	2.70	0.00	2.47	0.00
247.00	2.70	0.00	2.47	0.00
248.00	2.70	0.00	2.47	0.00
249.00	2.70	0.00	2.47	0.00
250.00	2.70	0.00	2.47	0.00
251.00	2.70	0.00	2.47	0.00
252.00	2.70	0.00	2.47	0.00
253.00	2.70	0.00	2.47	0.00
254.00	2.70	0.00	2.47	0.00
255.00	2.70	0.00	2.47	0.00
256.00	2.70	0.00	2.47	0.00
257.00	2.70	0.00	2.47	0.00
258.00	2.70	0.00	2.47	0.00
259.00	2.70	0.00	2.47	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	2.70	0.00	2.47	0.00
261.00	2.70	0.00	2.47	0.00
262.00	2.70	0.00	2.47	0.00
263.00	2.70	0.00	2.47	0.00
264.00	2.70	0.00	2.47	0.00
265.00	2.70	0.00	2.47	0.00
266.00	2.70	0.00	2.47	0.00
267.00	2.70	0.00	2.47	0.00
268.00	2.70	0.00	2.47	0.00
269.00	2.70	0.00	2.47	0.00
270.00	2.70	0.00	2.47	0.00
271.00	2.70	0.00	2.47	0.00
272.00	2.70	0.00	2.47	0.00
273.00	2.70	0.00	2.47	0.00
274.00	2.70	0.00	2.47	0.00
275.00	2.70	0.00	2.47	0.00
276.00	2.70	0.00	2.47	0.00
277.00	2.70	0.00	2.47	0.00
278.00	2.70	0.00	2.47	0.00
279.00	2.70	0.00	2.47	0.00
280.00	2.70	0.00	2.47	0.00
281.00	2.70	0.00	2.47	0.00
282.00	2.70	0.00	2.47	0.00
283.00	2.70	0.00	2.47	0.00
284.00	2.70	0.00	2.47	0.00
285.00	2.70	0.00	2.47	0.00
286.00	2.70	0.00	2.47	0.00
287.00	2.70	0.00	2.47	0.00
288.00	2.70	0.00	2.47	0.00
289.00	2.70	0.00	2.47	0.00
290.00	2.70	0.00	2.47	0.00
291.00	2.70	0.00	2.47	0.00
292.00	2.70	0.00	2.47	0.00
293.00	2.70	0.00	2.47	0.00
294.00	2.70	0.00	2.47	0.00
295.00	2.70	0.00	2.47	0.00
296.00	2.70	0.00	2.47	0.00
297.00	2.70	0.00	2.47	0.00
298.00	2.70	0.00	2.47	0.00
299.00	2.70	0.00	2.47	0.00
300.00	2.70	0.00	2.47	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Prepared by VU for PADEP

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Summary for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs)

Runoff = 2.28 cfs @ 12.13 hrs, Volume= 0.165 af, Depth= 2.47"

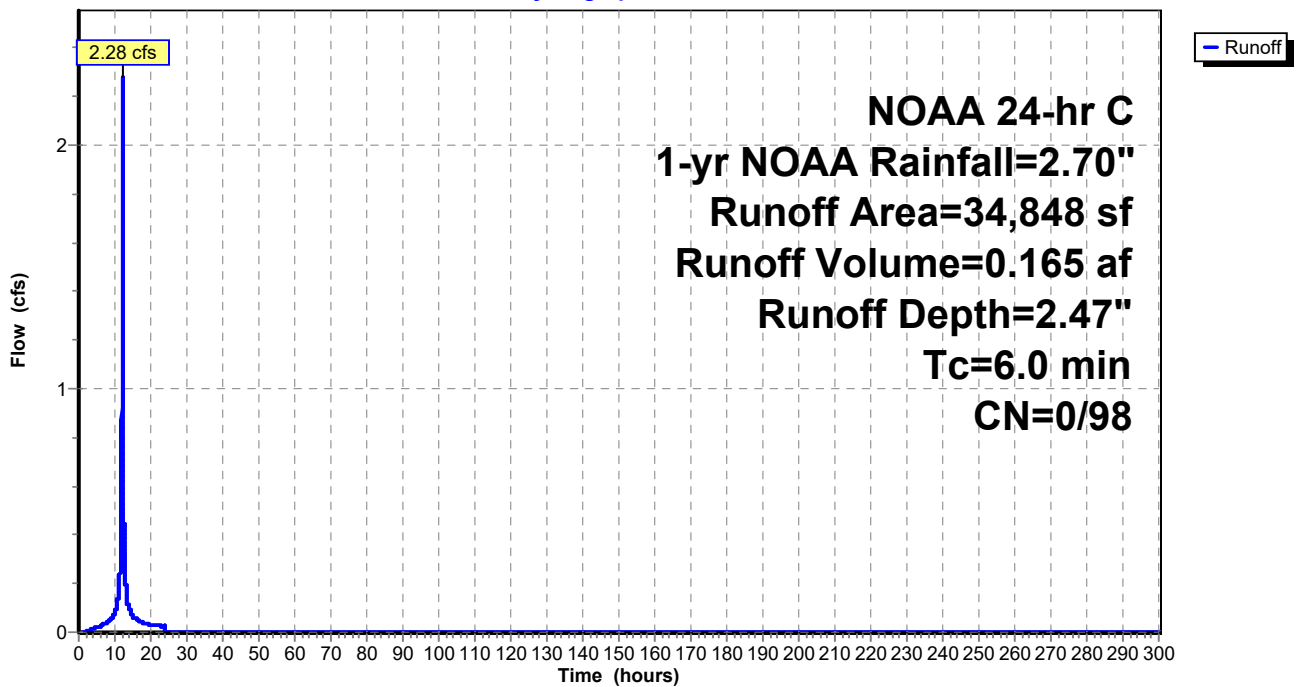
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Area (sf)	CN	Description
34,848	98	Paved roads w/curbs & sewers, HSG B
34,848	98	100.00% Impervious Area

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

Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs)

Hydrograph



MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.03	0.00	0.00	0.00
2.00	0.06	0.00	0.00	0.00
3.00	0.10	0.00	0.01	0.01
4.00	0.13	0.00	0.03	0.02
5.00	0.17	0.00	0.05	0.02
6.00	0.21	0.00	0.08	0.02
7.00	0.26	0.00	0.12	0.03
8.00	0.32	0.00	0.16	0.04
9.00	0.39	0.00	0.22	0.05
10.00	0.49	0.00	0.31	0.08
11.00	0.65	0.00	0.45	0.16
12.00	1.29	0.00	1.07	1.26
13.00	2.05	0.00	1.83	0.20
14.00	2.21	0.00	1.98	0.10
15.00	2.31	0.00	2.08	0.07
16.00	2.38	0.00	2.15	0.05
17.00	2.44	0.00	2.21	0.04
18.00	2.49	0.00	2.26	0.04
19.00	2.53	0.00	2.30	0.03
20.00	2.57	0.00	2.34	0.03
21.00	2.60	0.00	2.37	0.03
22.00	2.64	0.00	2.41	0.03
23.00	2.67	0.00	2.44	0.02
24.00	2.70	0.00	2.47	0.03
25.00	2.70	0.00	2.47	0.00
26.00	2.70	0.00	2.47	0.00
27.00	2.70	0.00	2.47	0.00
28.00	2.70	0.00	2.47	0.00
29.00	2.70	0.00	2.47	0.00
30.00	2.70	0.00	2.47	0.00
31.00	2.70	0.00	2.47	0.00
32.00	2.70	0.00	2.47	0.00
33.00	2.70	0.00	2.47	0.00
34.00	2.70	0.00	2.47	0.00
35.00	2.70	0.00	2.47	0.00
36.00	2.70	0.00	2.47	0.00
37.00	2.70	0.00	2.47	0.00
38.00	2.70	0.00	2.47	0.00
39.00	2.70	0.00	2.47	0.00
40.00	2.70	0.00	2.47	0.00
41.00	2.70	0.00	2.47	0.00
42.00	2.70	0.00	2.47	0.00
43.00	2.70	0.00	2.47	0.00
44.00	2.70	0.00	2.47	0.00
45.00	2.70	0.00	2.47	0.00
46.00	2.70	0.00	2.47	0.00
47.00	2.70	0.00	2.47	0.00
48.00	2.70	0.00	2.47	0.00
49.00	2.70	0.00	2.47	0.00
50.00	2.70	0.00	2.47	0.00
51.00	2.70	0.00	2.47	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Prepared by VU for PADEP

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	2.70	0.00	2.47	0.00
53.00	2.70	0.00	2.47	0.00
54.00	2.70	0.00	2.47	0.00
55.00	2.70	0.00	2.47	0.00
56.00	2.70	0.00	2.47	0.00
57.00	2.70	0.00	2.47	0.00
58.00	2.70	0.00	2.47	0.00
59.00	2.70	0.00	2.47	0.00
60.00	2.70	0.00	2.47	0.00
61.00	2.70	0.00	2.47	0.00
62.00	2.70	0.00	2.47	0.00
63.00	2.70	0.00	2.47	0.00
64.00	2.70	0.00	2.47	0.00
65.00	2.70	0.00	2.47	0.00
66.00	2.70	0.00	2.47	0.00
67.00	2.70	0.00	2.47	0.00
68.00	2.70	0.00	2.47	0.00
69.00	2.70	0.00	2.47	0.00
70.00	2.70	0.00	2.47	0.00
71.00	2.70	0.00	2.47	0.00
72.00	2.70	0.00	2.47	0.00
73.00	2.70	0.00	2.47	0.00
74.00	2.70	0.00	2.47	0.00
75.00	2.70	0.00	2.47	0.00
76.00	2.70	0.00	2.47	0.00
77.00	2.70	0.00	2.47	0.00
78.00	2.70	0.00	2.47	0.00
79.00	2.70	0.00	2.47	0.00
80.00	2.70	0.00	2.47	0.00
81.00	2.70	0.00	2.47	0.00
82.00	2.70	0.00	2.47	0.00
83.00	2.70	0.00	2.47	0.00
84.00	2.70	0.00	2.47	0.00
85.00	2.70	0.00	2.47	0.00
86.00	2.70	0.00	2.47	0.00
87.00	2.70	0.00	2.47	0.00
88.00	2.70	0.00	2.47	0.00
89.00	2.70	0.00	2.47	0.00
90.00	2.70	0.00	2.47	0.00
91.00	2.70	0.00	2.47	0.00
92.00	2.70	0.00	2.47	0.00
93.00	2.70	0.00	2.47	0.00
94.00	2.70	0.00	2.47	0.00
95.00	2.70	0.00	2.47	0.00
96.00	2.70	0.00	2.47	0.00
97.00	2.70	0.00	2.47	0.00
98.00	2.70	0.00	2.47	0.00
99.00	2.70	0.00	2.47	0.00
100.00	2.70	0.00	2.47	0.00
101.00	2.70	0.00	2.47	0.00
102.00	2.70	0.00	2.47	0.00
103.00	2.70	0.00	2.47	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	2.70	0.00	2.47	0.00
105.00	2.70	0.00	2.47	0.00
106.00	2.70	0.00	2.47	0.00
107.00	2.70	0.00	2.47	0.00
108.00	2.70	0.00	2.47	0.00
109.00	2.70	0.00	2.47	0.00
110.00	2.70	0.00	2.47	0.00
111.00	2.70	0.00	2.47	0.00
112.00	2.70	0.00	2.47	0.00
113.00	2.70	0.00	2.47	0.00
114.00	2.70	0.00	2.47	0.00
115.00	2.70	0.00	2.47	0.00
116.00	2.70	0.00	2.47	0.00
117.00	2.70	0.00	2.47	0.00
118.00	2.70	0.00	2.47	0.00
119.00	2.70	0.00	2.47	0.00
120.00	2.70	0.00	2.47	0.00
121.00	2.70	0.00	2.47	0.00
122.00	2.70	0.00	2.47	0.00
123.00	2.70	0.00	2.47	0.00
124.00	2.70	0.00	2.47	0.00
125.00	2.70	0.00	2.47	0.00
126.00	2.70	0.00	2.47	0.00
127.00	2.70	0.00	2.47	0.00
128.00	2.70	0.00	2.47	0.00
129.00	2.70	0.00	2.47	0.00
130.00	2.70	0.00	2.47	0.00
131.00	2.70	0.00	2.47	0.00
132.00	2.70	0.00	2.47	0.00
133.00	2.70	0.00	2.47	0.00
134.00	2.70	0.00	2.47	0.00
135.00	2.70	0.00	2.47	0.00
136.00	2.70	0.00	2.47	0.00
137.00	2.70	0.00	2.47	0.00
138.00	2.70	0.00	2.47	0.00
139.00	2.70	0.00	2.47	0.00
140.00	2.70	0.00	2.47	0.00
141.00	2.70	0.00	2.47	0.00
142.00	2.70	0.00	2.47	0.00
143.00	2.70	0.00	2.47	0.00
144.00	2.70	0.00	2.47	0.00
145.00	2.70	0.00	2.47	0.00
146.00	2.70	0.00	2.47	0.00
147.00	2.70	0.00	2.47	0.00
148.00	2.70	0.00	2.47	0.00
149.00	2.70	0.00	2.47	0.00
150.00	2.70	0.00	2.47	0.00
151.00	2.70	0.00	2.47	0.00
152.00	2.70	0.00	2.47	0.00
153.00	2.70	0.00	2.47	0.00
154.00	2.70	0.00	2.47	0.00
155.00	2.70	0.00	2.47	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	2.70	0.00	2.47	0.00
157.00	2.70	0.00	2.47	0.00
158.00	2.70	0.00	2.47	0.00
159.00	2.70	0.00	2.47	0.00
160.00	2.70	0.00	2.47	0.00
161.00	2.70	0.00	2.47	0.00
162.00	2.70	0.00	2.47	0.00
163.00	2.70	0.00	2.47	0.00
164.00	2.70	0.00	2.47	0.00
165.00	2.70	0.00	2.47	0.00
166.00	2.70	0.00	2.47	0.00
167.00	2.70	0.00	2.47	0.00
168.00	2.70	0.00	2.47	0.00
169.00	2.70	0.00	2.47	0.00
170.00	2.70	0.00	2.47	0.00
171.00	2.70	0.00	2.47	0.00
172.00	2.70	0.00	2.47	0.00
173.00	2.70	0.00	2.47	0.00
174.00	2.70	0.00	2.47	0.00
175.00	2.70	0.00	2.47	0.00
176.00	2.70	0.00	2.47	0.00
177.00	2.70	0.00	2.47	0.00
178.00	2.70	0.00	2.47	0.00
179.00	2.70	0.00	2.47	0.00
180.00	2.70	0.00	2.47	0.00
181.00	2.70	0.00	2.47	0.00
182.00	2.70	0.00	2.47	0.00
183.00	2.70	0.00	2.47	0.00
184.00	2.70	0.00	2.47	0.00
185.00	2.70	0.00	2.47	0.00
186.00	2.70	0.00	2.47	0.00
187.00	2.70	0.00	2.47	0.00
188.00	2.70	0.00	2.47	0.00
189.00	2.70	0.00	2.47	0.00
190.00	2.70	0.00	2.47	0.00
191.00	2.70	0.00	2.47	0.00
192.00	2.70	0.00	2.47	0.00
193.00	2.70	0.00	2.47	0.00
194.00	2.70	0.00	2.47	0.00
195.00	2.70	0.00	2.47	0.00
196.00	2.70	0.00	2.47	0.00
197.00	2.70	0.00	2.47	0.00
198.00	2.70	0.00	2.47	0.00
199.00	2.70	0.00	2.47	0.00
200.00	2.70	0.00	2.47	0.00
201.00	2.70	0.00	2.47	0.00
202.00	2.70	0.00	2.47	0.00
203.00	2.70	0.00	2.47	0.00
204.00	2.70	0.00	2.47	0.00
205.00	2.70	0.00	2.47	0.00
206.00	2.70	0.00	2.47	0.00
207.00	2.70	0.00	2.47	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	2.70	0.00	2.47	0.00
209.00	2.70	0.00	2.47	0.00
210.00	2.70	0.00	2.47	0.00
211.00	2.70	0.00	2.47	0.00
212.00	2.70	0.00	2.47	0.00
213.00	2.70	0.00	2.47	0.00
214.00	2.70	0.00	2.47	0.00
215.00	2.70	0.00	2.47	0.00
216.00	2.70	0.00	2.47	0.00
217.00	2.70	0.00	2.47	0.00
218.00	2.70	0.00	2.47	0.00
219.00	2.70	0.00	2.47	0.00
220.00	2.70	0.00	2.47	0.00
221.00	2.70	0.00	2.47	0.00
222.00	2.70	0.00	2.47	0.00
223.00	2.70	0.00	2.47	0.00
224.00	2.70	0.00	2.47	0.00
225.00	2.70	0.00	2.47	0.00
226.00	2.70	0.00	2.47	0.00
227.00	2.70	0.00	2.47	0.00
228.00	2.70	0.00	2.47	0.00
229.00	2.70	0.00	2.47	0.00
230.00	2.70	0.00	2.47	0.00
231.00	2.70	0.00	2.47	0.00
232.00	2.70	0.00	2.47	0.00
233.00	2.70	0.00	2.47	0.00
234.00	2.70	0.00	2.47	0.00
235.00	2.70	0.00	2.47	0.00
236.00	2.70	0.00	2.47	0.00
237.00	2.70	0.00	2.47	0.00
238.00	2.70	0.00	2.47	0.00
239.00	2.70	0.00	2.47	0.00
240.00	2.70	0.00	2.47	0.00
241.00	2.70	0.00	2.47	0.00
242.00	2.70	0.00	2.47	0.00
243.00	2.70	0.00	2.47	0.00
244.00	2.70	0.00	2.47	0.00
245.00	2.70	0.00	2.47	0.00
246.00	2.70	0.00	2.47	0.00
247.00	2.70	0.00	2.47	0.00
248.00	2.70	0.00	2.47	0.00
249.00	2.70	0.00	2.47	0.00
250.00	2.70	0.00	2.47	0.00
251.00	2.70	0.00	2.47	0.00
252.00	2.70	0.00	2.47	0.00
253.00	2.70	0.00	2.47	0.00
254.00	2.70	0.00	2.47	0.00
255.00	2.70	0.00	2.47	0.00
256.00	2.70	0.00	2.47	0.00
257.00	2.70	0.00	2.47	0.00
258.00	2.70	0.00	2.47	0.00
259.00	2.70	0.00	2.47	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	2.70	0.00	2.47	0.00
261.00	2.70	0.00	2.47	0.00
262.00	2.70	0.00	2.47	0.00
263.00	2.70	0.00	2.47	0.00
264.00	2.70	0.00	2.47	0.00
265.00	2.70	0.00	2.47	0.00
266.00	2.70	0.00	2.47	0.00
267.00	2.70	0.00	2.47	0.00
268.00	2.70	0.00	2.47	0.00
269.00	2.70	0.00	2.47	0.00
270.00	2.70	0.00	2.47	0.00
271.00	2.70	0.00	2.47	0.00
272.00	2.70	0.00	2.47	0.00
273.00	2.70	0.00	2.47	0.00
274.00	2.70	0.00	2.47	0.00
275.00	2.70	0.00	2.47	0.00
276.00	2.70	0.00	2.47	0.00
277.00	2.70	0.00	2.47	0.00
278.00	2.70	0.00	2.47	0.00
279.00	2.70	0.00	2.47	0.00
280.00	2.70	0.00	2.47	0.00
281.00	2.70	0.00	2.47	0.00
282.00	2.70	0.00	2.47	0.00
283.00	2.70	0.00	2.47	0.00
284.00	2.70	0.00	2.47	0.00
285.00	2.70	0.00	2.47	0.00
286.00	2.70	0.00	2.47	0.00
287.00	2.70	0.00	2.47	0.00
288.00	2.70	0.00	2.47	0.00
289.00	2.70	0.00	2.47	0.00
290.00	2.70	0.00	2.47	0.00
291.00	2.70	0.00	2.47	0.00
292.00	2.70	0.00	2.47	0.00
293.00	2.70	0.00	2.47	0.00
294.00	2.70	0.00	2.47	0.00
295.00	2.70	0.00	2.47	0.00
296.00	2.70	0.00	2.47	0.00
297.00	2.70	0.00	2.47	0.00
298.00	2.70	0.00	2.47	0.00
299.00	2.70	0.00	2.47	0.00
300.00	2.70	0.00	2.47	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Summary for Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Runoff = 0.51 cfs @ 12.25 hrs, Volume= 0.048 af, Depth= 0.72"

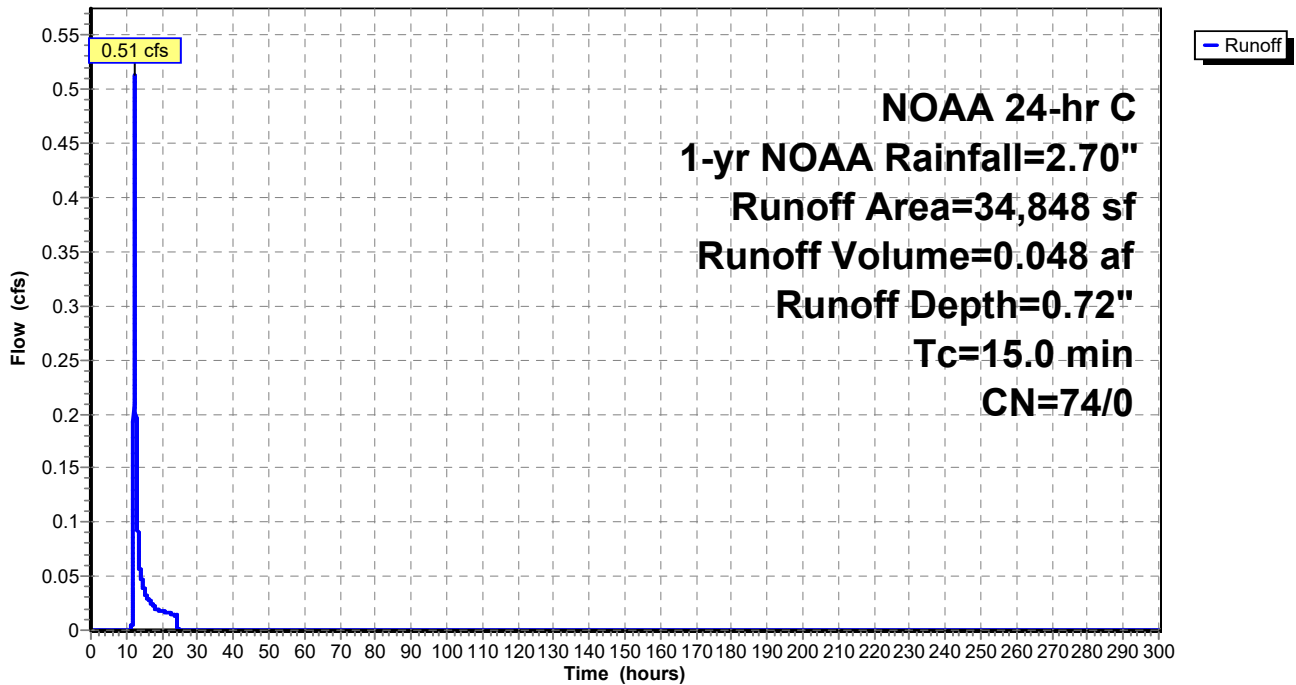
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Area (sf)	CN	Description
* 34,848	74	Meadow, non-grazed, HSG C
34,848	74	100.00% Pervious Area

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

Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Hydrograph



MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.03	0.00	0.00	0.00
2.00	0.06	0.00	0.00	0.00
3.00	0.10	0.00	0.00	0.00
4.00	0.13	0.00	0.00	0.00
5.00	0.17	0.00	0.00	0.00
6.00	0.21	0.00	0.00	0.00
7.00	0.26	0.00	0.00	0.00
8.00	0.32	0.00	0.00	0.00
9.00	0.39	0.00	0.00	0.00
10.00	0.49	0.00	0.00	0.00
11.00	0.65	0.00	0.00	0.00
12.00	1.29	0.08	0.00	0.11
13.00	2.05	0.37	0.00	0.11
14.00	2.21	0.45	0.00	0.05
15.00	2.31	0.50	0.00	0.04
16.00	2.38	0.54	0.00	0.03
17.00	2.44	0.57	0.00	0.03
18.00	2.49	0.60	0.00	0.02
19.00	2.53	0.62	0.00	0.02
20.00	2.57	0.65	0.00	0.02
21.00	2.60	0.67	0.00	0.02
22.00	2.64	0.69	0.00	0.02
23.00	2.67	0.71	0.00	0.01
24.00	2.70	0.72	0.00	0.01
25.00	2.70	0.72	0.00	0.00
26.00	2.70	0.72	0.00	0.00
27.00	2.70	0.72	0.00	0.00
28.00	2.70	0.72	0.00	0.00
29.00	2.70	0.72	0.00	0.00
30.00	2.70	0.72	0.00	0.00
31.00	2.70	0.72	0.00	0.00
32.00	2.70	0.72	0.00	0.00
33.00	2.70	0.72	0.00	0.00
34.00	2.70	0.72	0.00	0.00
35.00	2.70	0.72	0.00	0.00
36.00	2.70	0.72	0.00	0.00
37.00	2.70	0.72	0.00	0.00
38.00	2.70	0.72	0.00	0.00
39.00	2.70	0.72	0.00	0.00
40.00	2.70	0.72	0.00	0.00
41.00	2.70	0.72	0.00	0.00
42.00	2.70	0.72	0.00	0.00
43.00	2.70	0.72	0.00	0.00
44.00	2.70	0.72	0.00	0.00
45.00	2.70	0.72	0.00	0.00
46.00	2.70	0.72	0.00	0.00
47.00	2.70	0.72	0.00	0.00
48.00	2.70	0.72	0.00	0.00
49.00	2.70	0.72	0.00	0.00
50.00	2.70	0.72	0.00	0.00
51.00	2.70	0.72	0.00	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	2.70	0.72	0.00	0.00
53.00	2.70	0.72	0.00	0.00
54.00	2.70	0.72	0.00	0.00
55.00	2.70	0.72	0.00	0.00
56.00	2.70	0.72	0.00	0.00
57.00	2.70	0.72	0.00	0.00
58.00	2.70	0.72	0.00	0.00
59.00	2.70	0.72	0.00	0.00
60.00	2.70	0.72	0.00	0.00
61.00	2.70	0.72	0.00	0.00
62.00	2.70	0.72	0.00	0.00
63.00	2.70	0.72	0.00	0.00
64.00	2.70	0.72	0.00	0.00
65.00	2.70	0.72	0.00	0.00
66.00	2.70	0.72	0.00	0.00
67.00	2.70	0.72	0.00	0.00
68.00	2.70	0.72	0.00	0.00
69.00	2.70	0.72	0.00	0.00
70.00	2.70	0.72	0.00	0.00
71.00	2.70	0.72	0.00	0.00
72.00	2.70	0.72	0.00	0.00
73.00	2.70	0.72	0.00	0.00
74.00	2.70	0.72	0.00	0.00
75.00	2.70	0.72	0.00	0.00
76.00	2.70	0.72	0.00	0.00
77.00	2.70	0.72	0.00	0.00
78.00	2.70	0.72	0.00	0.00
79.00	2.70	0.72	0.00	0.00
80.00	2.70	0.72	0.00	0.00
81.00	2.70	0.72	0.00	0.00
82.00	2.70	0.72	0.00	0.00
83.00	2.70	0.72	0.00	0.00
84.00	2.70	0.72	0.00	0.00
85.00	2.70	0.72	0.00	0.00
86.00	2.70	0.72	0.00	0.00
87.00	2.70	0.72	0.00	0.00
88.00	2.70	0.72	0.00	0.00
89.00	2.70	0.72	0.00	0.00
90.00	2.70	0.72	0.00	0.00
91.00	2.70	0.72	0.00	0.00
92.00	2.70	0.72	0.00	0.00
93.00	2.70	0.72	0.00	0.00
94.00	2.70	0.72	0.00	0.00
95.00	2.70	0.72	0.00	0.00
96.00	2.70	0.72	0.00	0.00
97.00	2.70	0.72	0.00	0.00
98.00	2.70	0.72	0.00	0.00
99.00	2.70	0.72	0.00	0.00
100.00	2.70	0.72	0.00	0.00
101.00	2.70	0.72	0.00	0.00
102.00	2.70	0.72	0.00	0.00
103.00	2.70	0.72	0.00	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	2.70	0.72	0.00	0.00
105.00	2.70	0.72	0.00	0.00
106.00	2.70	0.72	0.00	0.00
107.00	2.70	0.72	0.00	0.00
108.00	2.70	0.72	0.00	0.00
109.00	2.70	0.72	0.00	0.00
110.00	2.70	0.72	0.00	0.00
111.00	2.70	0.72	0.00	0.00
112.00	2.70	0.72	0.00	0.00
113.00	2.70	0.72	0.00	0.00
114.00	2.70	0.72	0.00	0.00
115.00	2.70	0.72	0.00	0.00
116.00	2.70	0.72	0.00	0.00
117.00	2.70	0.72	0.00	0.00
118.00	2.70	0.72	0.00	0.00
119.00	2.70	0.72	0.00	0.00
120.00	2.70	0.72	0.00	0.00
121.00	2.70	0.72	0.00	0.00
122.00	2.70	0.72	0.00	0.00
123.00	2.70	0.72	0.00	0.00
124.00	2.70	0.72	0.00	0.00
125.00	2.70	0.72	0.00	0.00
126.00	2.70	0.72	0.00	0.00
127.00	2.70	0.72	0.00	0.00
128.00	2.70	0.72	0.00	0.00
129.00	2.70	0.72	0.00	0.00
130.00	2.70	0.72	0.00	0.00
131.00	2.70	0.72	0.00	0.00
132.00	2.70	0.72	0.00	0.00
133.00	2.70	0.72	0.00	0.00
134.00	2.70	0.72	0.00	0.00
135.00	2.70	0.72	0.00	0.00
136.00	2.70	0.72	0.00	0.00
137.00	2.70	0.72	0.00	0.00
138.00	2.70	0.72	0.00	0.00
139.00	2.70	0.72	0.00	0.00
140.00	2.70	0.72	0.00	0.00
141.00	2.70	0.72	0.00	0.00
142.00	2.70	0.72	0.00	0.00
143.00	2.70	0.72	0.00	0.00
144.00	2.70	0.72	0.00	0.00
145.00	2.70	0.72	0.00	0.00
146.00	2.70	0.72	0.00	0.00
147.00	2.70	0.72	0.00	0.00
148.00	2.70	0.72	0.00	0.00
149.00	2.70	0.72	0.00	0.00
150.00	2.70	0.72	0.00	0.00
151.00	2.70	0.72	0.00	0.00
152.00	2.70	0.72	0.00	0.00
153.00	2.70	0.72	0.00	0.00
154.00	2.70	0.72	0.00	0.00
155.00	2.70	0.72	0.00	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	2.70	0.72	0.00	0.00
157.00	2.70	0.72	0.00	0.00
158.00	2.70	0.72	0.00	0.00
159.00	2.70	0.72	0.00	0.00
160.00	2.70	0.72	0.00	0.00
161.00	2.70	0.72	0.00	0.00
162.00	2.70	0.72	0.00	0.00
163.00	2.70	0.72	0.00	0.00
164.00	2.70	0.72	0.00	0.00
165.00	2.70	0.72	0.00	0.00
166.00	2.70	0.72	0.00	0.00
167.00	2.70	0.72	0.00	0.00
168.00	2.70	0.72	0.00	0.00
169.00	2.70	0.72	0.00	0.00
170.00	2.70	0.72	0.00	0.00
171.00	2.70	0.72	0.00	0.00
172.00	2.70	0.72	0.00	0.00
173.00	2.70	0.72	0.00	0.00
174.00	2.70	0.72	0.00	0.00
175.00	2.70	0.72	0.00	0.00
176.00	2.70	0.72	0.00	0.00
177.00	2.70	0.72	0.00	0.00
178.00	2.70	0.72	0.00	0.00
179.00	2.70	0.72	0.00	0.00
180.00	2.70	0.72	0.00	0.00
181.00	2.70	0.72	0.00	0.00
182.00	2.70	0.72	0.00	0.00
183.00	2.70	0.72	0.00	0.00
184.00	2.70	0.72	0.00	0.00
185.00	2.70	0.72	0.00	0.00
186.00	2.70	0.72	0.00	0.00
187.00	2.70	0.72	0.00	0.00
188.00	2.70	0.72	0.00	0.00
189.00	2.70	0.72	0.00	0.00
190.00	2.70	0.72	0.00	0.00
191.00	2.70	0.72	0.00	0.00
192.00	2.70	0.72	0.00	0.00
193.00	2.70	0.72	0.00	0.00
194.00	2.70	0.72	0.00	0.00
195.00	2.70	0.72	0.00	0.00
196.00	2.70	0.72	0.00	0.00
197.00	2.70	0.72	0.00	0.00
198.00	2.70	0.72	0.00	0.00
199.00	2.70	0.72	0.00	0.00
200.00	2.70	0.72	0.00	0.00
201.00	2.70	0.72	0.00	0.00
202.00	2.70	0.72	0.00	0.00
203.00	2.70	0.72	0.00	0.00
204.00	2.70	0.72	0.00	0.00
205.00	2.70	0.72	0.00	0.00
206.00	2.70	0.72	0.00	0.00
207.00	2.70	0.72	0.00	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	2.70	0.72	0.00	0.00
209.00	2.70	0.72	0.00	0.00
210.00	2.70	0.72	0.00	0.00
211.00	2.70	0.72	0.00	0.00
212.00	2.70	0.72	0.00	0.00
213.00	2.70	0.72	0.00	0.00
214.00	2.70	0.72	0.00	0.00
215.00	2.70	0.72	0.00	0.00
216.00	2.70	0.72	0.00	0.00
217.00	2.70	0.72	0.00	0.00
218.00	2.70	0.72	0.00	0.00
219.00	2.70	0.72	0.00	0.00
220.00	2.70	0.72	0.00	0.00
221.00	2.70	0.72	0.00	0.00
222.00	2.70	0.72	0.00	0.00
223.00	2.70	0.72	0.00	0.00
224.00	2.70	0.72	0.00	0.00
225.00	2.70	0.72	0.00	0.00
226.00	2.70	0.72	0.00	0.00
227.00	2.70	0.72	0.00	0.00
228.00	2.70	0.72	0.00	0.00
229.00	2.70	0.72	0.00	0.00
230.00	2.70	0.72	0.00	0.00
231.00	2.70	0.72	0.00	0.00
232.00	2.70	0.72	0.00	0.00
233.00	2.70	0.72	0.00	0.00
234.00	2.70	0.72	0.00	0.00
235.00	2.70	0.72	0.00	0.00
236.00	2.70	0.72	0.00	0.00
237.00	2.70	0.72	0.00	0.00
238.00	2.70	0.72	0.00	0.00
239.00	2.70	0.72	0.00	0.00
240.00	2.70	0.72	0.00	0.00
241.00	2.70	0.72	0.00	0.00
242.00	2.70	0.72	0.00	0.00
243.00	2.70	0.72	0.00	0.00
244.00	2.70	0.72	0.00	0.00
245.00	2.70	0.72	0.00	0.00
246.00	2.70	0.72	0.00	0.00
247.00	2.70	0.72	0.00	0.00
248.00	2.70	0.72	0.00	0.00
249.00	2.70	0.72	0.00	0.00
250.00	2.70	0.72	0.00	0.00
251.00	2.70	0.72	0.00	0.00
252.00	2.70	0.72	0.00	0.00
253.00	2.70	0.72	0.00	0.00
254.00	2.70	0.72	0.00	0.00
255.00	2.70	0.72	0.00	0.00
256.00	2.70	0.72	0.00	0.00
257.00	2.70	0.72	0.00	0.00
258.00	2.70	0.72	0.00	0.00
259.00	2.70	0.72	0.00	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	2.70	0.72	0.00	0.00
261.00	2.70	0.72	0.00	0.00
262.00	2.70	0.72	0.00	0.00
263.00	2.70	0.72	0.00	0.00
264.00	2.70	0.72	0.00	0.00
265.00	2.70	0.72	0.00	0.00
266.00	2.70	0.72	0.00	0.00
267.00	2.70	0.72	0.00	0.00
268.00	2.70	0.72	0.00	0.00
269.00	2.70	0.72	0.00	0.00
270.00	2.70	0.72	0.00	0.00
271.00	2.70	0.72	0.00	0.00
272.00	2.70	0.72	0.00	0.00
273.00	2.70	0.72	0.00	0.00
274.00	2.70	0.72	0.00	0.00
275.00	2.70	0.72	0.00	0.00
276.00	2.70	0.72	0.00	0.00
277.00	2.70	0.72	0.00	0.00
278.00	2.70	0.72	0.00	0.00
279.00	2.70	0.72	0.00	0.00
280.00	2.70	0.72	0.00	0.00
281.00	2.70	0.72	0.00	0.00
282.00	2.70	0.72	0.00	0.00
283.00	2.70	0.72	0.00	0.00
284.00	2.70	0.72	0.00	0.00
285.00	2.70	0.72	0.00	0.00
286.00	2.70	0.72	0.00	0.00
287.00	2.70	0.72	0.00	0.00
288.00	2.70	0.72	0.00	0.00
289.00	2.70	0.72	0.00	0.00
290.00	2.70	0.72	0.00	0.00
291.00	2.70	0.72	0.00	0.00
292.00	2.70	0.72	0.00	0.00
293.00	2.70	0.72	0.00	0.00
294.00	2.70	0.72	0.00	0.00
295.00	2.70	0.72	0.00	0.00
296.00	2.70	0.72	0.00	0.00
297.00	2.70	0.72	0.00	0.00
298.00	2.70	0.72	0.00	0.00
299.00	2.70	0.72	0.00	0.00
300.00	2.70	0.72	0.00	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Summary for Pond 1P: Managed Release Rain Garden

50% IWS routing modeled with a 0.30*50% = 0.15 void space

Inflow Area =	0.800 ac, 100.00% Impervious, Inflow Depth = 2.47" for 1-yr NOAA event
Inflow =	2.28 cfs @ 12.13 hrs, Volume= 0.165 af
Outflow =	0.09 cfs @ 14.23 hrs, Volume= 0.165 af, Atten= 96%, Lag= 126.3 min
Discarded =	0.01 cfs @ 14.23 hrs, Volume= 0.087 af
Primary =	0.01 cfs @ 14.23 hrs, Volume= 0.060 af
Secondary =	0.07 cfs @ 14.23 hrs, Volume= 0.017 af
Tertiary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
Peak Elev= 1.11' @ 14.23 hrs Surf.Area= 3,049 sf Storage= 5,248 cf

Plug-Flow detention time= 2,258.9 min calculated for 0.165 af (100% of inflow)
Center-of-Mass det. time= 2,259.0 min (3,020.5 - 761.4)

Volume	Invert	Avail.Storage	Storage Description
#1	-2.51'	11,007 cf	Rain Garden (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
-2.51	3,049	0.0	0	0
-1.51	3,049	15.0	457	457
-1.50	3,049	30.0	9	466
-0.01	3,049	30.0	1,363	1,829
0.00	3,049	100.0	30	1,860
3.00	3,049	100.0	9,147	11,007

Device	Routing	Invert	Outlet Devices
#1	Tertiary	2.00'	40.0' long x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64
#2	Primary	-1.50'	0.5" Vert. Orifice/Grate C= 0.600
#3	Secondary	1.10'	11.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Discarded	-2.51'	0.100 in/hr Infiltration (minimal) over Horizontal area Conductivity to Groundwater Elevation = -10.00'

Discarded OutFlow Max=0.01 cfs @ 14.23 hrs HW=1.11' (Free Discharge)
↑4=**Infiltration (minimal)** (Controls 0.01 cfs)

Primary OutFlow Max=0.01 cfs @ 14.23 hrs HW=1.11' (Free Discharge)
↑2=**Orifice/Grate** (Orifice Controls 0.01 cfs @ 7.75 fps)

Secondary OutFlow Max=0.05 cfs @ 14.23 hrs HW=1.11' (Free Discharge)
↑3=**Sharp-Crested Rectangular Weir** (Weir Controls 0.05 cfs @ 0.35 fps)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=-2.51' (Free Discharge)
↑1=**Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

MRC Example 1

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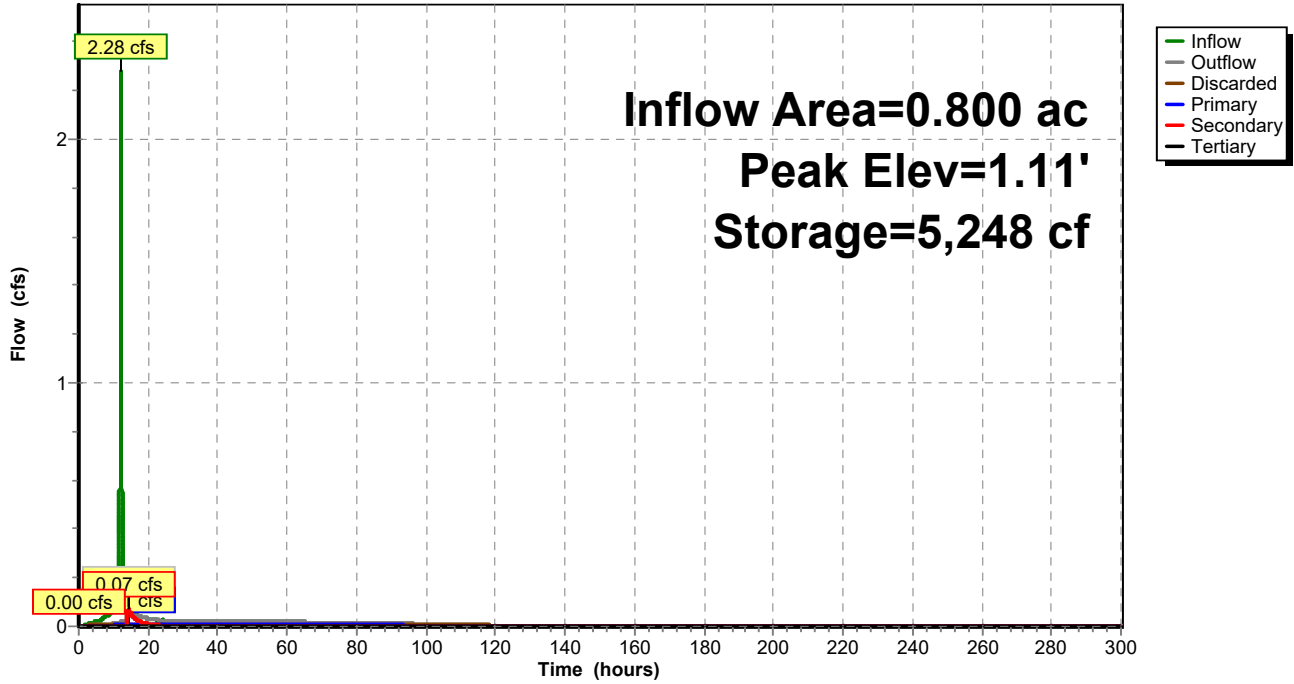
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NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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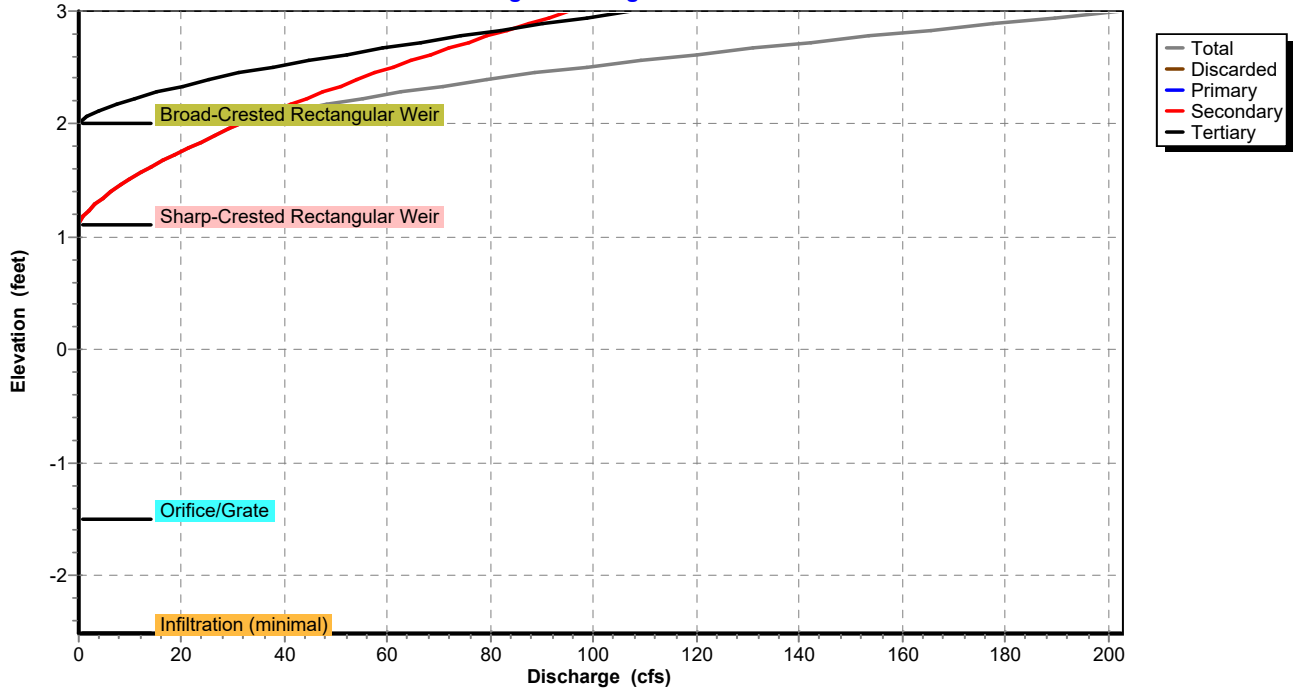
Pond 1P: Managed Release Rain Garden

Hydrograph



Pond 1P: Managed Release Rain Garden

Stage-Discharge



MRC Example 1

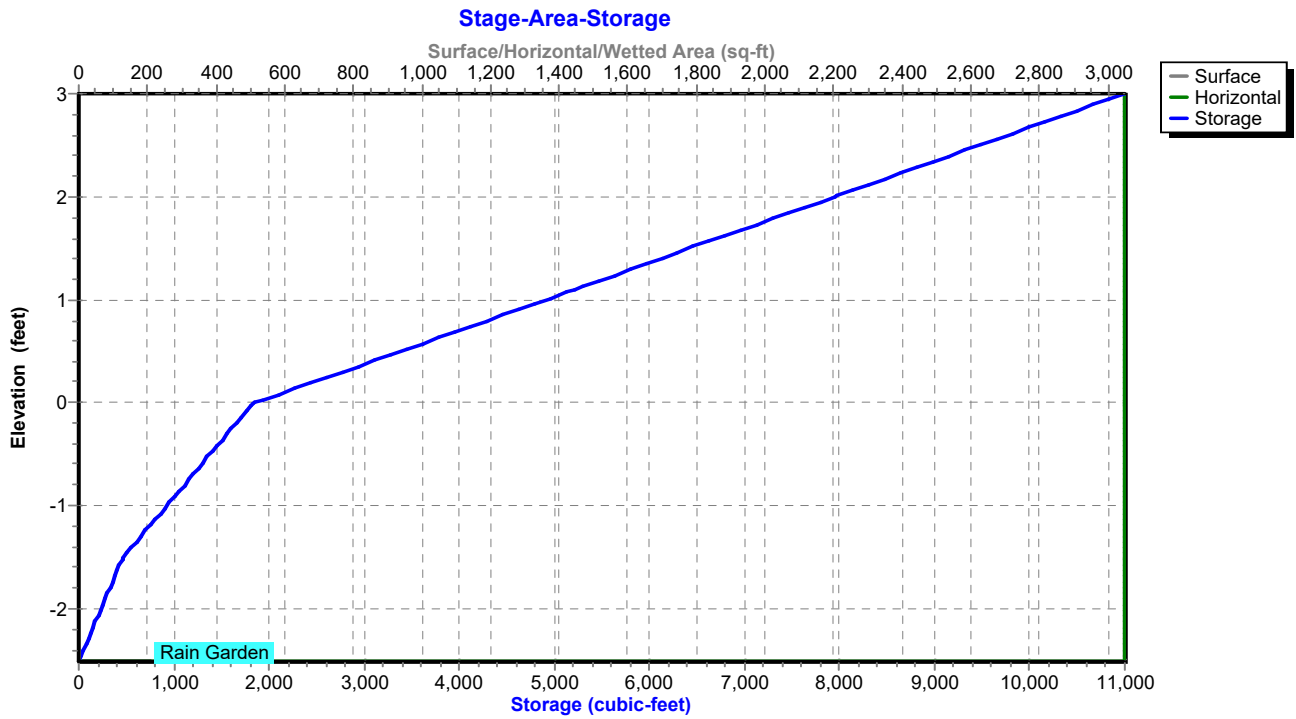
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NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Pond 1P: Managed Release Rain Garden



MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Pond 1P: Managed Release Rain Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
0.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
2.00	0.00	3	-2.50	0.00	0.00	0.00	0.00	0.00
3.00	0.01	19	-2.47	0.01	0.01	0.00	0.00	0.00
4.00	0.02	41	-2.42	0.01	0.01	0.00	0.00	0.00
5.00	0.02	80	-2.33	0.01	0.01	0.00	0.00	0.00
6.00	0.02	135	-2.21	0.01	0.01	0.00	0.00	0.00
7.00	0.03	212	-2.05	0.01	0.01	0.00	0.00	0.00
8.00	0.04	321	-1.81	0.01	0.01	0.00	0.00	0.00
9.00	0.05	463	-1.50	0.01	0.01	0.00	0.00	0.00
10.00	0.08	670	-1.28	0.01	0.01	0.00	0.00	0.00
11.00	0.16	1,017	-0.90	0.01	0.01	0.01	0.00	0.00
12.00	1.26	2,340	0.16	0.02	0.01	0.01	0.00	0.00
13.00	0.20	4,859	0.98	0.02	0.01	0.01	0.00	0.00
14.00	0.10	5,243	1.11	0.08	0.01	0.01	0.06	0.00
15.00	0.07	5,238	1.11	0.07	0.01	0.01	0.05	0.00
16.00	0.05	5,230	1.11	0.05	0.01	0.01	0.03	0.00
17.00	0.04	5,226	1.10	0.05	0.01	0.01	0.02	0.00
18.00	0.04	5,222	1.10	0.04	0.01	0.01	0.02	0.00
19.00	0.03	5,220	1.10	0.03	0.01	0.01	0.01	0.00
20.00	0.03	5,219	1.10	0.03	0.01	0.01	0.01	0.00
21.00	0.03	5,218	1.10	0.03	0.01	0.01	0.01	0.00
22.00	0.03	5,217	1.10	0.03	0.01	0.01	0.01	0.00
23.00	0.02	5,216	1.10	0.02	0.01	0.01	0.00	0.00
24.00	0.03	5,215	1.10	0.02	0.01	0.01	0.00	0.00
25.00	0.00	5,148	1.08	0.02	0.01	0.01	0.00	0.00
26.00	0.00	5,072	1.05	0.02	0.01	0.01	0.00	0.00
27.00	0.00	4,997	1.03	0.02	0.01	0.01	0.00	0.00
28.00	0.00	4,923	1.00	0.02	0.01	0.01	0.00	0.00
29.00	0.00	4,848	0.98	0.02	0.01	0.01	0.00	0.00
30.00	0.00	4,774	0.96	0.02	0.01	0.01	0.00	0.00
31.00	0.00	4,700	0.93	0.02	0.01	0.01	0.00	0.00
32.00	0.00	4,626	0.91	0.02	0.01	0.01	0.00	0.00
33.00	0.00	4,553	0.88	0.02	0.01	0.01	0.00	0.00
34.00	0.00	4,480	0.86	0.02	0.01	0.01	0.00	0.00
35.00	0.00	4,407	0.84	0.02	0.01	0.01	0.00	0.00
36.00	0.00	4,334	0.81	0.02	0.01	0.01	0.00	0.00
37.00	0.00	4,262	0.79	0.02	0.01	0.01	0.00	0.00
38.00	0.00	4,190	0.76	0.02	0.01	0.01	0.00	0.00
39.00	0.00	4,118	0.74	0.02	0.01	0.01	0.00	0.00
40.00	0.00	4,047	0.72	0.02	0.01	0.01	0.00	0.00
41.00	0.00	3,976	0.69	0.02	0.01	0.01	0.00	0.00
42.00	0.00	3,905	0.67	0.02	0.01	0.01	0.00	0.00
43.00	0.00	3,834	0.65	0.02	0.01	0.01	0.00	0.00
44.00	0.00	3,763	0.62	0.02	0.01	0.01	0.00	0.00
45.00	0.00	3,693	0.60	0.02	0.01	0.01	0.00	0.00
46.00	0.00	3,623	0.58	0.02	0.01	0.01	0.00	0.00
47.00	0.00	3,554	0.56	0.02	0.01	0.01	0.00	0.00
48.00	0.00	3,484	0.53	0.02	0.01	0.01	0.00	0.00
49.00	0.00	3,415	0.51	0.02	0.01	0.01	0.00	0.00
50.00	0.00	3,346	0.49	0.02	0.01	0.01	0.00	0.00
51.00	0.00	3,278	0.46	0.02	0.01	0.01	0.00	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
52.00	0.00	3,209	0.44	0.02	0.01	0.01	0.00	0.00
53.00	0.00	3,141	0.42	0.02	0.01	0.01	0.00	0.00
54.00	0.00	3,074	0.40	0.02	0.01	0.01	0.00	0.00
55.00	0.00	3,006	0.38	0.02	0.01	0.01	0.00	0.00
56.00	0.00	2,939	0.35	0.02	0.01	0.01	0.00	0.00
57.00	0.00	2,872	0.33	0.02	0.01	0.01	0.00	0.00
58.00	0.00	2,805	0.31	0.02	0.01	0.01	0.00	0.00
59.00	0.00	2,739	0.29	0.02	0.01	0.01	0.00	0.00
60.00	0.00	2,672	0.27	0.02	0.01	0.01	0.00	0.00
61.00	0.00	2,606	0.24	0.02	0.01	0.01	0.00	0.00
62.00	0.00	2,541	0.22	0.02	0.01	0.01	0.00	0.00
63.00	0.00	2,475	0.20	0.02	0.01	0.01	0.00	0.00
64.00	0.00	2,410	0.18	0.02	0.01	0.01	0.00	0.00
65.00	0.00	2,345	0.16	0.02	0.01	0.01	0.00	0.00
66.00	0.00	2,281	0.14	0.02	0.01	0.01	0.00	0.00
67.00	0.00	2,217	0.12	0.02	0.01	0.01	0.00	0.00
68.00	0.00	2,153	0.10	0.02	0.01	0.01	0.00	0.00
69.00	0.00	2,089	0.08	0.02	0.01	0.01	0.00	0.00
70.00	0.00	2,025	0.05	0.02	0.01	0.01	0.00	0.00
71.00	0.00	1,962	0.03	0.02	0.01	0.01	0.00	0.00
72.00	0.00	1,899	0.01	0.02	0.01	0.01	0.00	0.00
73.00	0.00	1,836	-0.01	0.02	0.01	0.01	0.00	0.00
74.00	0.00	1,774	-0.07	0.02	0.01	0.01	0.00	0.00
75.00	0.00	1,713	-0.14	0.02	0.01	0.01	0.00	0.00
76.00	0.00	1,652	-0.20	0.02	0.01	0.01	0.00	0.00
77.00	0.00	1,593	-0.27	0.02	0.01	0.01	0.00	0.00
78.00	0.00	1,534	-0.33	0.02	0.01	0.01	0.00	0.00
79.00	0.00	1,477	-0.40	0.02	0.01	0.01	0.00	0.00
80.00	0.00	1,420	-0.46	0.02	0.01	0.01	0.00	0.00
81.00	0.00	1,364	-0.52	0.02	0.01	0.01	0.00	0.00
82.00	0.00	1,309	-0.58	0.02	0.01	0.01	0.00	0.00
83.00	0.00	1,255	-0.64	0.01	0.01	0.01	0.00	0.00
84.00	0.00	1,203	-0.70	0.01	0.01	0.01	0.00	0.00
85.00	0.00	1,151	-0.75	0.01	0.01	0.01	0.00	0.00
86.00	0.00	1,099	-0.81	0.01	0.01	0.01	0.00	0.00
87.00	0.00	1,049	-0.86	0.01	0.01	0.01	0.00	0.00
88.00	0.00	1,000	-0.92	0.01	0.01	0.00	0.00	0.00
89.00	0.00	952	-0.97	0.01	0.01	0.00	0.00	0.00
90.00	0.00	905	-1.02	0.01	0.01	0.00	0.00	0.00
91.00	0.00	859	-1.07	0.01	0.01	0.00	0.00	0.00
92.00	0.00	815	-1.12	0.01	0.01	0.00	0.00	0.00
93.00	0.00	771	-1.17	0.01	0.01	0.00	0.00	0.00
94.00	0.00	728	-1.21	0.01	0.01	0.00	0.00	0.00
95.00	0.00	687	-1.26	0.01	0.01	0.00	0.00	0.00
96.00	0.00	647	-1.30	0.01	0.01	0.00	0.00	0.00
97.00	0.00	608	-1.35	0.01	0.01	0.00	0.00	0.00
98.00	0.00	571	-1.39	0.01	0.01	0.00	0.00	0.00
99.00	0.00	535	-1.42	0.01	0.01	0.00	0.00	0.00
100.00	0.00	502	-1.46	0.01	0.01	0.00	0.00	0.00
101.00	0.00	472	-1.49	0.01	0.01	0.00	0.00	0.00
102.00	0.00	443	-1.54	0.01	0.01	0.00	0.00	0.00
103.00	0.00	414	-1.60	0.01	0.01	0.00	0.00	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
104.00	0.00	386	-1.67	0.01	0.01	0.00	0.00	0.00
105.00	0.00	358	-1.73	0.01	0.01	0.00	0.00	0.00
106.00	0.00	330	-1.79	0.01	0.01	0.00	0.00	0.00
107.00	0.00	302	-1.85	0.01	0.01	0.00	0.00	0.00
108.00	0.00	274	-1.91	0.01	0.01	0.00	0.00	0.00
109.00	0.00	247	-1.97	0.01	0.01	0.00	0.00	0.00
110.00	0.00	220	-2.03	0.01	0.01	0.00	0.00	0.00
111.00	0.00	193	-2.09	0.01	0.01	0.00	0.00	0.00
112.00	0.00	166	-2.15	0.01	0.01	0.00	0.00	0.00
113.00	0.00	140	-2.20	0.01	0.01	0.00	0.00	0.00
114.00	0.00	113	-2.26	0.01	0.01	0.00	0.00	0.00
115.00	0.00	87	-2.32	0.01	0.01	0.00	0.00	0.00
116.00	0.00	61	-2.38	0.01	0.01	0.00	0.00	0.00
117.00	0.00	35	-2.43	0.01	0.01	0.00	0.00	0.00
118.00	0.00	14	-2.48	0.00	0.00	0.00	0.00	0.00
119.00	0.00	5	-2.50	0.00	0.00	0.00	0.00	0.00
120.00	0.00	2	-2.51	0.00	0.00	0.00	0.00	0.00
121.00	0.00	1	-2.51	0.00	0.00	0.00	0.00	0.00
122.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
123.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
124.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
125.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
126.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
127.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
128.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
129.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
130.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
131.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
132.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
133.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
134.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
135.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
136.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
137.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
138.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
139.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
140.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
141.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
142.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
143.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
144.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
145.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
146.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
147.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
148.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
149.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
150.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
151.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
152.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
153.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
154.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
155.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
156.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
157.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
158.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
159.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
160.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
161.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
162.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
163.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
164.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
165.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
166.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
167.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
168.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
169.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
170.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
171.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
172.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
173.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
174.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
175.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
176.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
177.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
178.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
179.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
180.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
181.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
182.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
183.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
184.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
185.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
186.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
187.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
188.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
189.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
190.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
191.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
192.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
193.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
194.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
195.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
196.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
197.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
198.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
199.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
201.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
202.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
203.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
204.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
205.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
206.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
207.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
208.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
209.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
210.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
211.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
212.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
213.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
214.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
215.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
216.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
217.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
218.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
219.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
220.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
221.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
222.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
223.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
224.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
225.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
226.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
227.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
228.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
229.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
230.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
231.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
232.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
233.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
234.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
235.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
236.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
237.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
238.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
239.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
240.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
241.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
242.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
243.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
244.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
245.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
246.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
247.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
248.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
249.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
250.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
251.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
252.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
253.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
254.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
255.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
256.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
257.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
258.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
259.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00

MRC Example 1

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
260.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
261.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
262.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
263.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
264.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
265.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
266.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
267.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
268.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
269.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
270.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
271.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
272.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
273.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
274.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
275.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
276.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
277.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
278.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
279.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
280.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
281.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
282.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
283.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
284.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
285.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
286.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
287.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
288.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
289.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
290.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
291.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
292.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
293.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
294.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
295.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
296.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
297.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
298.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
299.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Time span=0.00-300.00 hrs, dt=0.01 hrs, 30001 points
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv.
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: 0.8 ac Impervious Runoff Area=34,848 sf 100.00% Impervious Runoff Depth=0.99"
Tc=6.0 min CN=0/98 Runoff=2.24 cfs 0.066 af

Subcatchment2S: 0.8 ac Impervious Runoff Area=34,848 sf 100.00% Impervious Runoff Depth=0.99"
Tc=6.0 min CN=0/98 Runoff=2.24 cfs 0.066 af

Subcatchment3S: 0.8 ac Pervious Runoff Area=34,848 sf 0.00% Impervious Runoff Depth=0.06"
Tc=15.0 min CN=74/0 Runoff=0.07 cfs 0.004 af

Pond 1P: Managed Release Rain Garden Peak Elev=0.30' Storage=2,776 cf Inflow=2.24 cfs 0.066 af
s 0.044 af Primary=0.01 cfs 0.022 af Secondary=0.00 cfs 0.000 af Tertiary=0.00 cfs 0.000 af Outflow=0.02 cfs 0.066 af

Total Runoff Area = 2.400 ac Runoff Volume = 0.136 af Average Runoff Depth = 0.68"
33.33% Pervious = 0.800 ac 66.67% Impervious = 1.600 ac

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Summary for Subcatchment 1S: 0.8 ac Impervious (Postconstruction)

Runoff = 2.24 cfs @ 1.11 hrs, Volume= 0.066 af, Depth= 0.99"

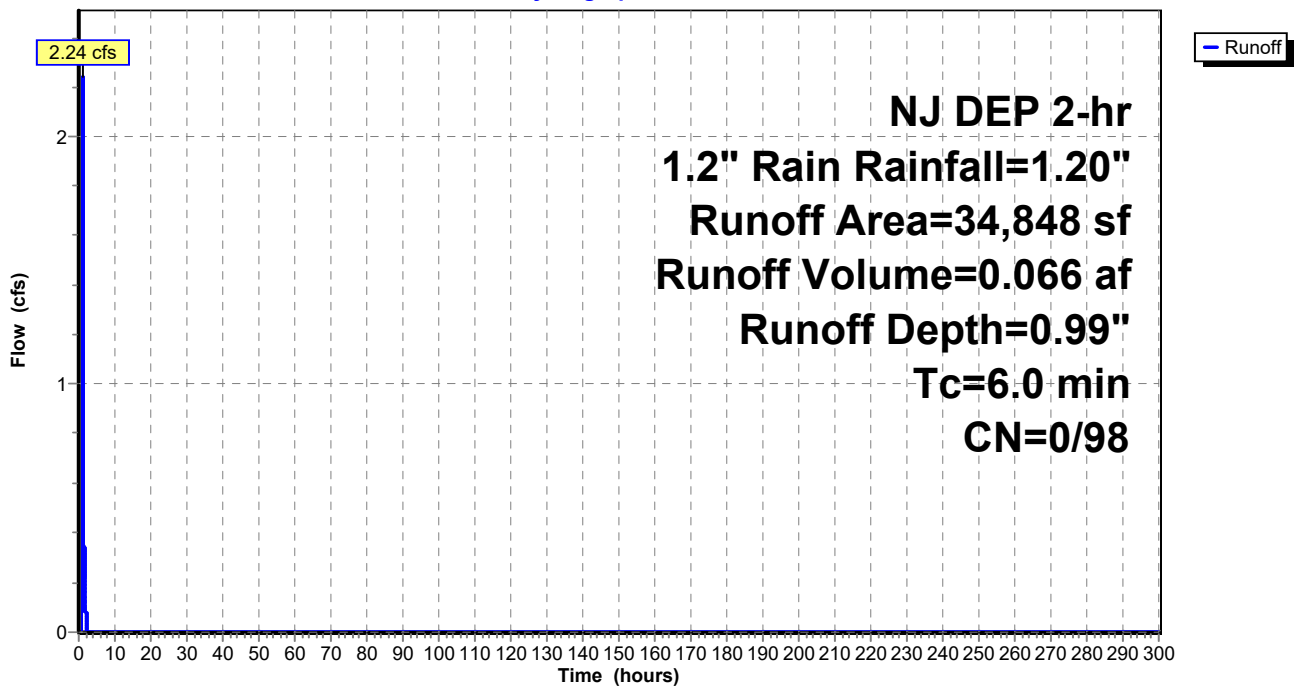
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Area (sf)	CN	Description
34,848	98	Paved roads w/curbs & sewers, HSG B
34,848	98	100.00% Impervious Area

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

Subcatchment 1S: 0.8 ac Impervious (Postconstruction)

Hydrograph



MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.60	0.00	0.41	1.41
2.00	1.20	0.00	0.99	0.08
3.00	1.20	0.00	0.99	0.00
4.00	1.20	0.00	0.99	0.00
5.00	1.20	0.00	0.99	0.00
6.00	1.20	0.00	0.99	0.00
7.00	1.20	0.00	0.99	0.00
8.00	1.20	0.00	0.99	0.00
9.00	1.20	0.00	0.99	0.00
10.00	1.20	0.00	0.99	0.00
11.00	1.20	0.00	0.99	0.00
12.00	1.20	0.00	0.99	0.00
13.00	1.20	0.00	0.99	0.00
14.00	1.20	0.00	0.99	0.00
15.00	1.20	0.00	0.99	0.00
16.00	1.20	0.00	0.99	0.00
17.00	1.20	0.00	0.99	0.00
18.00	1.20	0.00	0.99	0.00
19.00	1.20	0.00	0.99	0.00
20.00	1.20	0.00	0.99	0.00
21.00	1.20	0.00	0.99	0.00
22.00	1.20	0.00	0.99	0.00
23.00	1.20	0.00	0.99	0.00
24.00	1.20	0.00	0.99	0.00
25.00	1.20	0.00	0.99	0.00
26.00	1.20	0.00	0.99	0.00
27.00	1.20	0.00	0.99	0.00
28.00	1.20	0.00	0.99	0.00
29.00	1.20	0.00	0.99	0.00
30.00	1.20	0.00	0.99	0.00
31.00	1.20	0.00	0.99	0.00
32.00	1.20	0.00	0.99	0.00
33.00	1.20	0.00	0.99	0.00
34.00	1.20	0.00	0.99	0.00
35.00	1.20	0.00	0.99	0.00
36.00	1.20	0.00	0.99	0.00
37.00	1.20	0.00	0.99	0.00
38.00	1.20	0.00	0.99	0.00
39.00	1.20	0.00	0.99	0.00
40.00	1.20	0.00	0.99	0.00
41.00	1.20	0.00	0.99	0.00
42.00	1.20	0.00	0.99	0.00
43.00	1.20	0.00	0.99	0.00
44.00	1.20	0.00	0.99	0.00
45.00	1.20	0.00	0.99	0.00
46.00	1.20	0.00	0.99	0.00
47.00	1.20	0.00	0.99	0.00
48.00	1.20	0.00	0.99	0.00
49.00	1.20	0.00	0.99	0.00
50.00	1.20	0.00	0.99	0.00
51.00	1.20	0.00	0.99	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.20	0.00	0.99	0.00
53.00	1.20	0.00	0.99	0.00
54.00	1.20	0.00	0.99	0.00
55.00	1.20	0.00	0.99	0.00
56.00	1.20	0.00	0.99	0.00
57.00	1.20	0.00	0.99	0.00
58.00	1.20	0.00	0.99	0.00
59.00	1.20	0.00	0.99	0.00
60.00	1.20	0.00	0.99	0.00
61.00	1.20	0.00	0.99	0.00
62.00	1.20	0.00	0.99	0.00
63.00	1.20	0.00	0.99	0.00
64.00	1.20	0.00	0.99	0.00
65.00	1.20	0.00	0.99	0.00
66.00	1.20	0.00	0.99	0.00
67.00	1.20	0.00	0.99	0.00
68.00	1.20	0.00	0.99	0.00
69.00	1.20	0.00	0.99	0.00
70.00	1.20	0.00	0.99	0.00
71.00	1.20	0.00	0.99	0.00
72.00	1.20	0.00	0.99	0.00
73.00	1.20	0.00	0.99	0.00
74.00	1.20	0.00	0.99	0.00
75.00	1.20	0.00	0.99	0.00
76.00	1.20	0.00	0.99	0.00
77.00	1.20	0.00	0.99	0.00
78.00	1.20	0.00	0.99	0.00
79.00	1.20	0.00	0.99	0.00
80.00	1.20	0.00	0.99	0.00
81.00	1.20	0.00	0.99	0.00
82.00	1.20	0.00	0.99	0.00
83.00	1.20	0.00	0.99	0.00
84.00	1.20	0.00	0.99	0.00
85.00	1.20	0.00	0.99	0.00
86.00	1.20	0.00	0.99	0.00
87.00	1.20	0.00	0.99	0.00
88.00	1.20	0.00	0.99	0.00
89.00	1.20	0.00	0.99	0.00
90.00	1.20	0.00	0.99	0.00
91.00	1.20	0.00	0.99	0.00
92.00	1.20	0.00	0.99	0.00
93.00	1.20	0.00	0.99	0.00
94.00	1.20	0.00	0.99	0.00
95.00	1.20	0.00	0.99	0.00
96.00	1.20	0.00	0.99	0.00
97.00	1.20	0.00	0.99	0.00
98.00	1.20	0.00	0.99	0.00
99.00	1.20	0.00	0.99	0.00
100.00	1.20	0.00	0.99	0.00
101.00	1.20	0.00	0.99	0.00
102.00	1.20	0.00	0.99	0.00
103.00	1.20	0.00	0.99	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	1.20	0.00	0.99	0.00
105.00	1.20	0.00	0.99	0.00
106.00	1.20	0.00	0.99	0.00
107.00	1.20	0.00	0.99	0.00
108.00	1.20	0.00	0.99	0.00
109.00	1.20	0.00	0.99	0.00
110.00	1.20	0.00	0.99	0.00
111.00	1.20	0.00	0.99	0.00
112.00	1.20	0.00	0.99	0.00
113.00	1.20	0.00	0.99	0.00
114.00	1.20	0.00	0.99	0.00
115.00	1.20	0.00	0.99	0.00
116.00	1.20	0.00	0.99	0.00
117.00	1.20	0.00	0.99	0.00
118.00	1.20	0.00	0.99	0.00
119.00	1.20	0.00	0.99	0.00
120.00	1.20	0.00	0.99	0.00
121.00	1.20	0.00	0.99	0.00
122.00	1.20	0.00	0.99	0.00
123.00	1.20	0.00	0.99	0.00
124.00	1.20	0.00	0.99	0.00
125.00	1.20	0.00	0.99	0.00
126.00	1.20	0.00	0.99	0.00
127.00	1.20	0.00	0.99	0.00
128.00	1.20	0.00	0.99	0.00
129.00	1.20	0.00	0.99	0.00
130.00	1.20	0.00	0.99	0.00
131.00	1.20	0.00	0.99	0.00
132.00	1.20	0.00	0.99	0.00
133.00	1.20	0.00	0.99	0.00
134.00	1.20	0.00	0.99	0.00
135.00	1.20	0.00	0.99	0.00
136.00	1.20	0.00	0.99	0.00
137.00	1.20	0.00	0.99	0.00
138.00	1.20	0.00	0.99	0.00
139.00	1.20	0.00	0.99	0.00
140.00	1.20	0.00	0.99	0.00
141.00	1.20	0.00	0.99	0.00
142.00	1.20	0.00	0.99	0.00
143.00	1.20	0.00	0.99	0.00
144.00	1.20	0.00	0.99	0.00
145.00	1.20	0.00	0.99	0.00
146.00	1.20	0.00	0.99	0.00
147.00	1.20	0.00	0.99	0.00
148.00	1.20	0.00	0.99	0.00
149.00	1.20	0.00	0.99	0.00
150.00	1.20	0.00	0.99	0.00
151.00	1.20	0.00	0.99	0.00
152.00	1.20	0.00	0.99	0.00
153.00	1.20	0.00	0.99	0.00
154.00	1.20	0.00	0.99	0.00
155.00	1.20	0.00	0.99	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	1.20	0.00	0.99	0.00
157.00	1.20	0.00	0.99	0.00
158.00	1.20	0.00	0.99	0.00
159.00	1.20	0.00	0.99	0.00
160.00	1.20	0.00	0.99	0.00
161.00	1.20	0.00	0.99	0.00
162.00	1.20	0.00	0.99	0.00
163.00	1.20	0.00	0.99	0.00
164.00	1.20	0.00	0.99	0.00
165.00	1.20	0.00	0.99	0.00
166.00	1.20	0.00	0.99	0.00
167.00	1.20	0.00	0.99	0.00
168.00	1.20	0.00	0.99	0.00
169.00	1.20	0.00	0.99	0.00
170.00	1.20	0.00	0.99	0.00
171.00	1.20	0.00	0.99	0.00
172.00	1.20	0.00	0.99	0.00
173.00	1.20	0.00	0.99	0.00
174.00	1.20	0.00	0.99	0.00
175.00	1.20	0.00	0.99	0.00
176.00	1.20	0.00	0.99	0.00
177.00	1.20	0.00	0.99	0.00
178.00	1.20	0.00	0.99	0.00
179.00	1.20	0.00	0.99	0.00
180.00	1.20	0.00	0.99	0.00
181.00	1.20	0.00	0.99	0.00
182.00	1.20	0.00	0.99	0.00
183.00	1.20	0.00	0.99	0.00
184.00	1.20	0.00	0.99	0.00
185.00	1.20	0.00	0.99	0.00
186.00	1.20	0.00	0.99	0.00
187.00	1.20	0.00	0.99	0.00
188.00	1.20	0.00	0.99	0.00
189.00	1.20	0.00	0.99	0.00
190.00	1.20	0.00	0.99	0.00
191.00	1.20	0.00	0.99	0.00
192.00	1.20	0.00	0.99	0.00
193.00	1.20	0.00	0.99	0.00
194.00	1.20	0.00	0.99	0.00
195.00	1.20	0.00	0.99	0.00
196.00	1.20	0.00	0.99	0.00
197.00	1.20	0.00	0.99	0.00
198.00	1.20	0.00	0.99	0.00
199.00	1.20	0.00	0.99	0.00
200.00	1.20	0.00	0.99	0.00
201.00	1.20	0.00	0.99	0.00
202.00	1.20	0.00	0.99	0.00
203.00	1.20	0.00	0.99	0.00
204.00	1.20	0.00	0.99	0.00
205.00	1.20	0.00	0.99	0.00
206.00	1.20	0.00	0.99	0.00
207.00	1.20	0.00	0.99	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	1.20	0.00	0.99	0.00
209.00	1.20	0.00	0.99	0.00
210.00	1.20	0.00	0.99	0.00
211.00	1.20	0.00	0.99	0.00
212.00	1.20	0.00	0.99	0.00
213.00	1.20	0.00	0.99	0.00
214.00	1.20	0.00	0.99	0.00
215.00	1.20	0.00	0.99	0.00
216.00	1.20	0.00	0.99	0.00
217.00	1.20	0.00	0.99	0.00
218.00	1.20	0.00	0.99	0.00
219.00	1.20	0.00	0.99	0.00
220.00	1.20	0.00	0.99	0.00
221.00	1.20	0.00	0.99	0.00
222.00	1.20	0.00	0.99	0.00
223.00	1.20	0.00	0.99	0.00
224.00	1.20	0.00	0.99	0.00
225.00	1.20	0.00	0.99	0.00
226.00	1.20	0.00	0.99	0.00
227.00	1.20	0.00	0.99	0.00
228.00	1.20	0.00	0.99	0.00
229.00	1.20	0.00	0.99	0.00
230.00	1.20	0.00	0.99	0.00
231.00	1.20	0.00	0.99	0.00
232.00	1.20	0.00	0.99	0.00
233.00	1.20	0.00	0.99	0.00
234.00	1.20	0.00	0.99	0.00
235.00	1.20	0.00	0.99	0.00
236.00	1.20	0.00	0.99	0.00
237.00	1.20	0.00	0.99	0.00
238.00	1.20	0.00	0.99	0.00
239.00	1.20	0.00	0.99	0.00
240.00	1.20	0.00	0.99	0.00
241.00	1.20	0.00	0.99	0.00
242.00	1.20	0.00	0.99	0.00
243.00	1.20	0.00	0.99	0.00
244.00	1.20	0.00	0.99	0.00
245.00	1.20	0.00	0.99	0.00
246.00	1.20	0.00	0.99	0.00
247.00	1.20	0.00	0.99	0.00
248.00	1.20	0.00	0.99	0.00
249.00	1.20	0.00	0.99	0.00
250.00	1.20	0.00	0.99	0.00
251.00	1.20	0.00	0.99	0.00
252.00	1.20	0.00	0.99	0.00
253.00	1.20	0.00	0.99	0.00
254.00	1.20	0.00	0.99	0.00
255.00	1.20	0.00	0.99	0.00
256.00	1.20	0.00	0.99	0.00
257.00	1.20	0.00	0.99	0.00
258.00	1.20	0.00	0.99	0.00
259.00	1.20	0.00	0.99	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	1.20	0.00	0.99	0.00
261.00	1.20	0.00	0.99	0.00
262.00	1.20	0.00	0.99	0.00
263.00	1.20	0.00	0.99	0.00
264.00	1.20	0.00	0.99	0.00
265.00	1.20	0.00	0.99	0.00
266.00	1.20	0.00	0.99	0.00
267.00	1.20	0.00	0.99	0.00
268.00	1.20	0.00	0.99	0.00
269.00	1.20	0.00	0.99	0.00
270.00	1.20	0.00	0.99	0.00
271.00	1.20	0.00	0.99	0.00
272.00	1.20	0.00	0.99	0.00
273.00	1.20	0.00	0.99	0.00
274.00	1.20	0.00	0.99	0.00
275.00	1.20	0.00	0.99	0.00
276.00	1.20	0.00	0.99	0.00
277.00	1.20	0.00	0.99	0.00
278.00	1.20	0.00	0.99	0.00
279.00	1.20	0.00	0.99	0.00
280.00	1.20	0.00	0.99	0.00
281.00	1.20	0.00	0.99	0.00
282.00	1.20	0.00	0.99	0.00
283.00	1.20	0.00	0.99	0.00
284.00	1.20	0.00	0.99	0.00
285.00	1.20	0.00	0.99	0.00
286.00	1.20	0.00	0.99	0.00
287.00	1.20	0.00	0.99	0.00
288.00	1.20	0.00	0.99	0.00
289.00	1.20	0.00	0.99	0.00
290.00	1.20	0.00	0.99	0.00
291.00	1.20	0.00	0.99	0.00
292.00	1.20	0.00	0.99	0.00
293.00	1.20	0.00	0.99	0.00
294.00	1.20	0.00	0.99	0.00
295.00	1.20	0.00	0.99	0.00
296.00	1.20	0.00	0.99	0.00
297.00	1.20	0.00	0.99	0.00
298.00	1.20	0.00	0.99	0.00
299.00	1.20	0.00	0.99	0.00
300.00	1.20	0.00	0.99	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Summary for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs)

Runoff = 2.24 cfs @ 1.11 hrs, Volume= 0.066 af, Depth= 0.99"

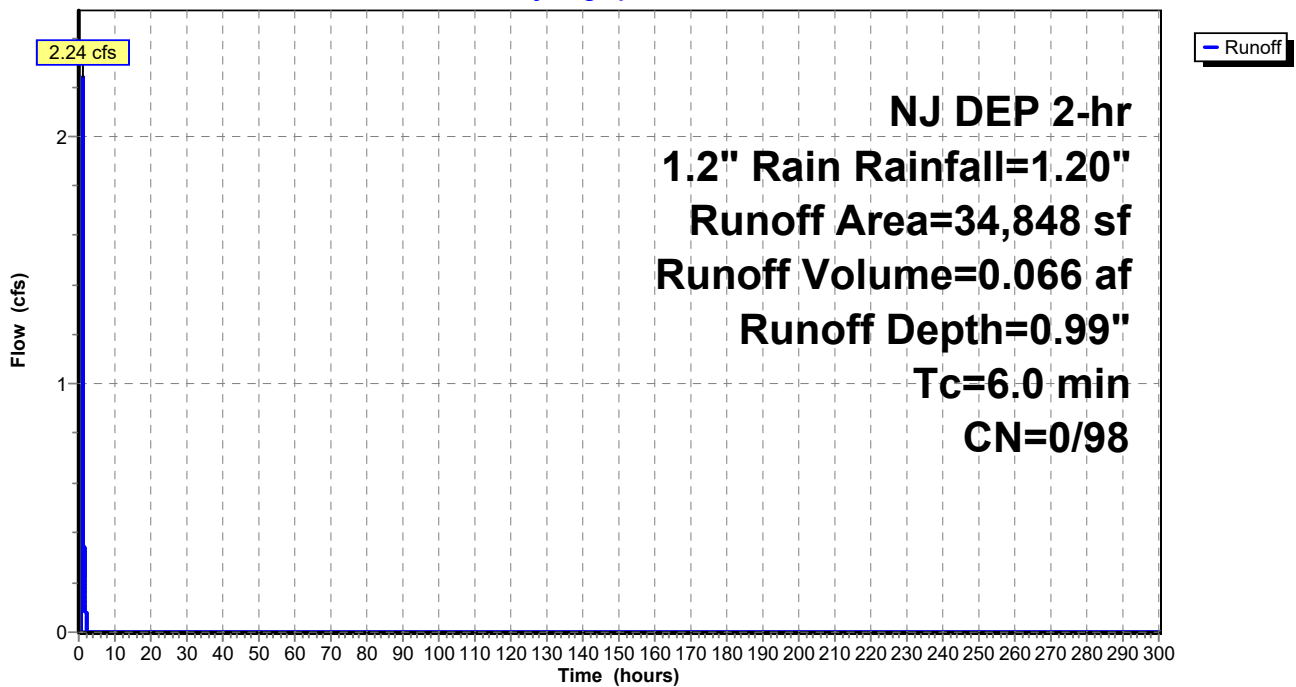
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Area (sf)	CN	Description
34,848	98	Paved roads w/curbs & sewers, HSG B
34,848	98	100.00% Impervious Area

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

Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs)

Hydrograph



MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.60	0.00	0.41	1.41
2.00	1.20	0.00	0.99	0.08
3.00	1.20	0.00	0.99	0.00
4.00	1.20	0.00	0.99	0.00
5.00	1.20	0.00	0.99	0.00
6.00	1.20	0.00	0.99	0.00
7.00	1.20	0.00	0.99	0.00
8.00	1.20	0.00	0.99	0.00
9.00	1.20	0.00	0.99	0.00
10.00	1.20	0.00	0.99	0.00
11.00	1.20	0.00	0.99	0.00
12.00	1.20	0.00	0.99	0.00
13.00	1.20	0.00	0.99	0.00
14.00	1.20	0.00	0.99	0.00
15.00	1.20	0.00	0.99	0.00
16.00	1.20	0.00	0.99	0.00
17.00	1.20	0.00	0.99	0.00
18.00	1.20	0.00	0.99	0.00
19.00	1.20	0.00	0.99	0.00
20.00	1.20	0.00	0.99	0.00
21.00	1.20	0.00	0.99	0.00
22.00	1.20	0.00	0.99	0.00
23.00	1.20	0.00	0.99	0.00
24.00	1.20	0.00	0.99	0.00
25.00	1.20	0.00	0.99	0.00
26.00	1.20	0.00	0.99	0.00
27.00	1.20	0.00	0.99	0.00
28.00	1.20	0.00	0.99	0.00
29.00	1.20	0.00	0.99	0.00
30.00	1.20	0.00	0.99	0.00
31.00	1.20	0.00	0.99	0.00
32.00	1.20	0.00	0.99	0.00
33.00	1.20	0.00	0.99	0.00
34.00	1.20	0.00	0.99	0.00
35.00	1.20	0.00	0.99	0.00
36.00	1.20	0.00	0.99	0.00
37.00	1.20	0.00	0.99	0.00
38.00	1.20	0.00	0.99	0.00
39.00	1.20	0.00	0.99	0.00
40.00	1.20	0.00	0.99	0.00
41.00	1.20	0.00	0.99	0.00
42.00	1.20	0.00	0.99	0.00
43.00	1.20	0.00	0.99	0.00
44.00	1.20	0.00	0.99	0.00
45.00	1.20	0.00	0.99	0.00
46.00	1.20	0.00	0.99	0.00
47.00	1.20	0.00	0.99	0.00
48.00	1.20	0.00	0.99	0.00
49.00	1.20	0.00	0.99	0.00
50.00	1.20	0.00	0.99	0.00
51.00	1.20	0.00	0.99	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.20	0.00	0.99	0.00
53.00	1.20	0.00	0.99	0.00
54.00	1.20	0.00	0.99	0.00
55.00	1.20	0.00	0.99	0.00
56.00	1.20	0.00	0.99	0.00
57.00	1.20	0.00	0.99	0.00
58.00	1.20	0.00	0.99	0.00
59.00	1.20	0.00	0.99	0.00
60.00	1.20	0.00	0.99	0.00
61.00	1.20	0.00	0.99	0.00
62.00	1.20	0.00	0.99	0.00
63.00	1.20	0.00	0.99	0.00
64.00	1.20	0.00	0.99	0.00
65.00	1.20	0.00	0.99	0.00
66.00	1.20	0.00	0.99	0.00
67.00	1.20	0.00	0.99	0.00
68.00	1.20	0.00	0.99	0.00
69.00	1.20	0.00	0.99	0.00
70.00	1.20	0.00	0.99	0.00
71.00	1.20	0.00	0.99	0.00
72.00	1.20	0.00	0.99	0.00
73.00	1.20	0.00	0.99	0.00
74.00	1.20	0.00	0.99	0.00
75.00	1.20	0.00	0.99	0.00
76.00	1.20	0.00	0.99	0.00
77.00	1.20	0.00	0.99	0.00
78.00	1.20	0.00	0.99	0.00
79.00	1.20	0.00	0.99	0.00
80.00	1.20	0.00	0.99	0.00
81.00	1.20	0.00	0.99	0.00
82.00	1.20	0.00	0.99	0.00
83.00	1.20	0.00	0.99	0.00
84.00	1.20	0.00	0.99	0.00
85.00	1.20	0.00	0.99	0.00
86.00	1.20	0.00	0.99	0.00
87.00	1.20	0.00	0.99	0.00
88.00	1.20	0.00	0.99	0.00
89.00	1.20	0.00	0.99	0.00
90.00	1.20	0.00	0.99	0.00
91.00	1.20	0.00	0.99	0.00
92.00	1.20	0.00	0.99	0.00
93.00	1.20	0.00	0.99	0.00
94.00	1.20	0.00	0.99	0.00
95.00	1.20	0.00	0.99	0.00
96.00	1.20	0.00	0.99	0.00
97.00	1.20	0.00	0.99	0.00
98.00	1.20	0.00	0.99	0.00
99.00	1.20	0.00	0.99	0.00
100.00	1.20	0.00	0.99	0.00
101.00	1.20	0.00	0.99	0.00
102.00	1.20	0.00	0.99	0.00
103.00	1.20	0.00	0.99	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	1.20	0.00	0.99	0.00
105.00	1.20	0.00	0.99	0.00
106.00	1.20	0.00	0.99	0.00
107.00	1.20	0.00	0.99	0.00
108.00	1.20	0.00	0.99	0.00
109.00	1.20	0.00	0.99	0.00
110.00	1.20	0.00	0.99	0.00
111.00	1.20	0.00	0.99	0.00
112.00	1.20	0.00	0.99	0.00
113.00	1.20	0.00	0.99	0.00
114.00	1.20	0.00	0.99	0.00
115.00	1.20	0.00	0.99	0.00
116.00	1.20	0.00	0.99	0.00
117.00	1.20	0.00	0.99	0.00
118.00	1.20	0.00	0.99	0.00
119.00	1.20	0.00	0.99	0.00
120.00	1.20	0.00	0.99	0.00
121.00	1.20	0.00	0.99	0.00
122.00	1.20	0.00	0.99	0.00
123.00	1.20	0.00	0.99	0.00
124.00	1.20	0.00	0.99	0.00
125.00	1.20	0.00	0.99	0.00
126.00	1.20	0.00	0.99	0.00
127.00	1.20	0.00	0.99	0.00
128.00	1.20	0.00	0.99	0.00
129.00	1.20	0.00	0.99	0.00
130.00	1.20	0.00	0.99	0.00
131.00	1.20	0.00	0.99	0.00
132.00	1.20	0.00	0.99	0.00
133.00	1.20	0.00	0.99	0.00
134.00	1.20	0.00	0.99	0.00
135.00	1.20	0.00	0.99	0.00
136.00	1.20	0.00	0.99	0.00
137.00	1.20	0.00	0.99	0.00
138.00	1.20	0.00	0.99	0.00
139.00	1.20	0.00	0.99	0.00
140.00	1.20	0.00	0.99	0.00
141.00	1.20	0.00	0.99	0.00
142.00	1.20	0.00	0.99	0.00
143.00	1.20	0.00	0.99	0.00
144.00	1.20	0.00	0.99	0.00
145.00	1.20	0.00	0.99	0.00
146.00	1.20	0.00	0.99	0.00
147.00	1.20	0.00	0.99	0.00
148.00	1.20	0.00	0.99	0.00
149.00	1.20	0.00	0.99	0.00
150.00	1.20	0.00	0.99	0.00
151.00	1.20	0.00	0.99	0.00
152.00	1.20	0.00	0.99	0.00
153.00	1.20	0.00	0.99	0.00
154.00	1.20	0.00	0.99	0.00
155.00	1.20	0.00	0.99	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	1.20	0.00	0.99	0.00
157.00	1.20	0.00	0.99	0.00
158.00	1.20	0.00	0.99	0.00
159.00	1.20	0.00	0.99	0.00
160.00	1.20	0.00	0.99	0.00
161.00	1.20	0.00	0.99	0.00
162.00	1.20	0.00	0.99	0.00
163.00	1.20	0.00	0.99	0.00
164.00	1.20	0.00	0.99	0.00
165.00	1.20	0.00	0.99	0.00
166.00	1.20	0.00	0.99	0.00
167.00	1.20	0.00	0.99	0.00
168.00	1.20	0.00	0.99	0.00
169.00	1.20	0.00	0.99	0.00
170.00	1.20	0.00	0.99	0.00
171.00	1.20	0.00	0.99	0.00
172.00	1.20	0.00	0.99	0.00
173.00	1.20	0.00	0.99	0.00
174.00	1.20	0.00	0.99	0.00
175.00	1.20	0.00	0.99	0.00
176.00	1.20	0.00	0.99	0.00
177.00	1.20	0.00	0.99	0.00
178.00	1.20	0.00	0.99	0.00
179.00	1.20	0.00	0.99	0.00
180.00	1.20	0.00	0.99	0.00
181.00	1.20	0.00	0.99	0.00
182.00	1.20	0.00	0.99	0.00
183.00	1.20	0.00	0.99	0.00
184.00	1.20	0.00	0.99	0.00
185.00	1.20	0.00	0.99	0.00
186.00	1.20	0.00	0.99	0.00
187.00	1.20	0.00	0.99	0.00
188.00	1.20	0.00	0.99	0.00
189.00	1.20	0.00	0.99	0.00
190.00	1.20	0.00	0.99	0.00
191.00	1.20	0.00	0.99	0.00
192.00	1.20	0.00	0.99	0.00
193.00	1.20	0.00	0.99	0.00
194.00	1.20	0.00	0.99	0.00
195.00	1.20	0.00	0.99	0.00
196.00	1.20	0.00	0.99	0.00
197.00	1.20	0.00	0.99	0.00
198.00	1.20	0.00	0.99	0.00
199.00	1.20	0.00	0.99	0.00
200.00	1.20	0.00	0.99	0.00
201.00	1.20	0.00	0.99	0.00
202.00	1.20	0.00	0.99	0.00
203.00	1.20	0.00	0.99	0.00
204.00	1.20	0.00	0.99	0.00
205.00	1.20	0.00	0.99	0.00
206.00	1.20	0.00	0.99	0.00
207.00	1.20	0.00	0.99	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	1.20	0.00	0.99	0.00
209.00	1.20	0.00	0.99	0.00
210.00	1.20	0.00	0.99	0.00
211.00	1.20	0.00	0.99	0.00
212.00	1.20	0.00	0.99	0.00
213.00	1.20	0.00	0.99	0.00
214.00	1.20	0.00	0.99	0.00
215.00	1.20	0.00	0.99	0.00
216.00	1.20	0.00	0.99	0.00
217.00	1.20	0.00	0.99	0.00
218.00	1.20	0.00	0.99	0.00
219.00	1.20	0.00	0.99	0.00
220.00	1.20	0.00	0.99	0.00
221.00	1.20	0.00	0.99	0.00
222.00	1.20	0.00	0.99	0.00
223.00	1.20	0.00	0.99	0.00
224.00	1.20	0.00	0.99	0.00
225.00	1.20	0.00	0.99	0.00
226.00	1.20	0.00	0.99	0.00
227.00	1.20	0.00	0.99	0.00
228.00	1.20	0.00	0.99	0.00
229.00	1.20	0.00	0.99	0.00
230.00	1.20	0.00	0.99	0.00
231.00	1.20	0.00	0.99	0.00
232.00	1.20	0.00	0.99	0.00
233.00	1.20	0.00	0.99	0.00
234.00	1.20	0.00	0.99	0.00
235.00	1.20	0.00	0.99	0.00
236.00	1.20	0.00	0.99	0.00
237.00	1.20	0.00	0.99	0.00
238.00	1.20	0.00	0.99	0.00
239.00	1.20	0.00	0.99	0.00
240.00	1.20	0.00	0.99	0.00
241.00	1.20	0.00	0.99	0.00
242.00	1.20	0.00	0.99	0.00
243.00	1.20	0.00	0.99	0.00
244.00	1.20	0.00	0.99	0.00
245.00	1.20	0.00	0.99	0.00
246.00	1.20	0.00	0.99	0.00
247.00	1.20	0.00	0.99	0.00
248.00	1.20	0.00	0.99	0.00
249.00	1.20	0.00	0.99	0.00
250.00	1.20	0.00	0.99	0.00
251.00	1.20	0.00	0.99	0.00
252.00	1.20	0.00	0.99	0.00
253.00	1.20	0.00	0.99	0.00
254.00	1.20	0.00	0.99	0.00
255.00	1.20	0.00	0.99	0.00
256.00	1.20	0.00	0.99	0.00
257.00	1.20	0.00	0.99	0.00
258.00	1.20	0.00	0.99	0.00
259.00	1.20	0.00	0.99	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	1.20	0.00	0.99	0.00
261.00	1.20	0.00	0.99	0.00
262.00	1.20	0.00	0.99	0.00
263.00	1.20	0.00	0.99	0.00
264.00	1.20	0.00	0.99	0.00
265.00	1.20	0.00	0.99	0.00
266.00	1.20	0.00	0.99	0.00
267.00	1.20	0.00	0.99	0.00
268.00	1.20	0.00	0.99	0.00
269.00	1.20	0.00	0.99	0.00
270.00	1.20	0.00	0.99	0.00
271.00	1.20	0.00	0.99	0.00
272.00	1.20	0.00	0.99	0.00
273.00	1.20	0.00	0.99	0.00
274.00	1.20	0.00	0.99	0.00
275.00	1.20	0.00	0.99	0.00
276.00	1.20	0.00	0.99	0.00
277.00	1.20	0.00	0.99	0.00
278.00	1.20	0.00	0.99	0.00
279.00	1.20	0.00	0.99	0.00
280.00	1.20	0.00	0.99	0.00
281.00	1.20	0.00	0.99	0.00
282.00	1.20	0.00	0.99	0.00
283.00	1.20	0.00	0.99	0.00
284.00	1.20	0.00	0.99	0.00
285.00	1.20	0.00	0.99	0.00
286.00	1.20	0.00	0.99	0.00
287.00	1.20	0.00	0.99	0.00
288.00	1.20	0.00	0.99	0.00
289.00	1.20	0.00	0.99	0.00
290.00	1.20	0.00	0.99	0.00
291.00	1.20	0.00	0.99	0.00
292.00	1.20	0.00	0.99	0.00
293.00	1.20	0.00	0.99	0.00
294.00	1.20	0.00	0.99	0.00
295.00	1.20	0.00	0.99	0.00
296.00	1.20	0.00	0.99	0.00
297.00	1.20	0.00	0.99	0.00
298.00	1.20	0.00	0.99	0.00
299.00	1.20	0.00	0.99	0.00
300.00	1.20	0.00	0.99	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Summary for Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Runoff = 0.07 cfs @ 1.35 hrs, Volume= 0.004 af, Depth= 0.06"

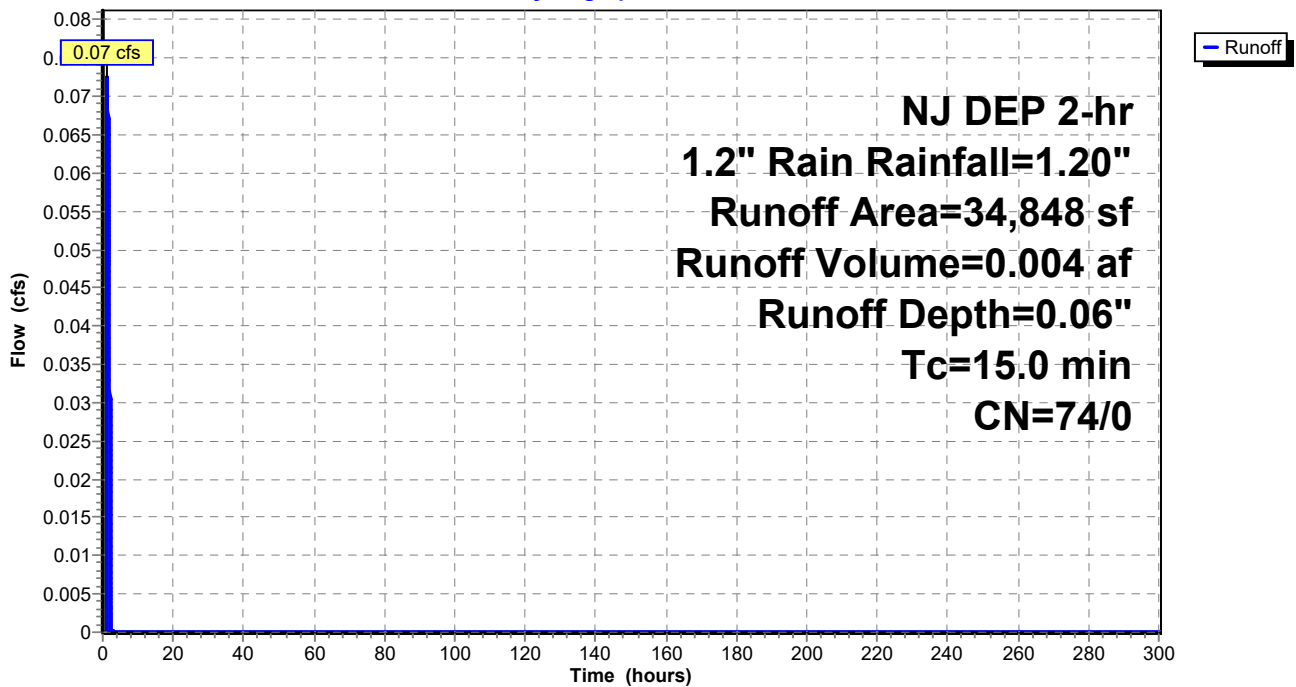
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Area (sf)	CN	Description
* 34,848	74	Meadow, non-grazed, HSG C
34,848	74	100.00% Pervious Area

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

Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Hydrograph



MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.60	0.00	0.00	0.00
2.00	1.20	0.06	0.00	0.03
3.00	1.20	0.06	0.00	0.00
4.00	1.20	0.06	0.00	0.00
5.00	1.20	0.06	0.00	0.00
6.00	1.20	0.06	0.00	0.00
7.00	1.20	0.06	0.00	0.00
8.00	1.20	0.06	0.00	0.00
9.00	1.20	0.06	0.00	0.00
10.00	1.20	0.06	0.00	0.00
11.00	1.20	0.06	0.00	0.00
12.00	1.20	0.06	0.00	0.00
13.00	1.20	0.06	0.00	0.00
14.00	1.20	0.06	0.00	0.00
15.00	1.20	0.06	0.00	0.00
16.00	1.20	0.06	0.00	0.00
17.00	1.20	0.06	0.00	0.00
18.00	1.20	0.06	0.00	0.00
19.00	1.20	0.06	0.00	0.00
20.00	1.20	0.06	0.00	0.00
21.00	1.20	0.06	0.00	0.00
22.00	1.20	0.06	0.00	0.00
23.00	1.20	0.06	0.00	0.00
24.00	1.20	0.06	0.00	0.00
25.00	1.20	0.06	0.00	0.00
26.00	1.20	0.06	0.00	0.00
27.00	1.20	0.06	0.00	0.00
28.00	1.20	0.06	0.00	0.00
29.00	1.20	0.06	0.00	0.00
30.00	1.20	0.06	0.00	0.00
31.00	1.20	0.06	0.00	0.00
32.00	1.20	0.06	0.00	0.00
33.00	1.20	0.06	0.00	0.00
34.00	1.20	0.06	0.00	0.00
35.00	1.20	0.06	0.00	0.00
36.00	1.20	0.06	0.00	0.00
37.00	1.20	0.06	0.00	0.00
38.00	1.20	0.06	0.00	0.00
39.00	1.20	0.06	0.00	0.00
40.00	1.20	0.06	0.00	0.00
41.00	1.20	0.06	0.00	0.00
42.00	1.20	0.06	0.00	0.00
43.00	1.20	0.06	0.00	0.00
44.00	1.20	0.06	0.00	0.00
45.00	1.20	0.06	0.00	0.00
46.00	1.20	0.06	0.00	0.00
47.00	1.20	0.06	0.00	0.00
48.00	1.20	0.06	0.00	0.00
49.00	1.20	0.06	0.00	0.00
50.00	1.20	0.06	0.00	0.00
51.00	1.20	0.06	0.00	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.20	0.06	0.00	0.00
53.00	1.20	0.06	0.00	0.00
54.00	1.20	0.06	0.00	0.00
55.00	1.20	0.06	0.00	0.00
56.00	1.20	0.06	0.00	0.00
57.00	1.20	0.06	0.00	0.00
58.00	1.20	0.06	0.00	0.00
59.00	1.20	0.06	0.00	0.00
60.00	1.20	0.06	0.00	0.00
61.00	1.20	0.06	0.00	0.00
62.00	1.20	0.06	0.00	0.00
63.00	1.20	0.06	0.00	0.00
64.00	1.20	0.06	0.00	0.00
65.00	1.20	0.06	0.00	0.00
66.00	1.20	0.06	0.00	0.00
67.00	1.20	0.06	0.00	0.00
68.00	1.20	0.06	0.00	0.00
69.00	1.20	0.06	0.00	0.00
70.00	1.20	0.06	0.00	0.00
71.00	1.20	0.06	0.00	0.00
72.00	1.20	0.06	0.00	0.00
73.00	1.20	0.06	0.00	0.00
74.00	1.20	0.06	0.00	0.00
75.00	1.20	0.06	0.00	0.00
76.00	1.20	0.06	0.00	0.00
77.00	1.20	0.06	0.00	0.00
78.00	1.20	0.06	0.00	0.00
79.00	1.20	0.06	0.00	0.00
80.00	1.20	0.06	0.00	0.00
81.00	1.20	0.06	0.00	0.00
82.00	1.20	0.06	0.00	0.00
83.00	1.20	0.06	0.00	0.00
84.00	1.20	0.06	0.00	0.00
85.00	1.20	0.06	0.00	0.00
86.00	1.20	0.06	0.00	0.00
87.00	1.20	0.06	0.00	0.00
88.00	1.20	0.06	0.00	0.00
89.00	1.20	0.06	0.00	0.00
90.00	1.20	0.06	0.00	0.00
91.00	1.20	0.06	0.00	0.00
92.00	1.20	0.06	0.00	0.00
93.00	1.20	0.06	0.00	0.00
94.00	1.20	0.06	0.00	0.00
95.00	1.20	0.06	0.00	0.00
96.00	1.20	0.06	0.00	0.00
97.00	1.20	0.06	0.00	0.00
98.00	1.20	0.06	0.00	0.00
99.00	1.20	0.06	0.00	0.00
100.00	1.20	0.06	0.00	0.00
101.00	1.20	0.06	0.00	0.00
102.00	1.20	0.06	0.00	0.00
103.00	1.20	0.06	0.00	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	1.20	0.06	0.00	0.00
105.00	1.20	0.06	0.00	0.00
106.00	1.20	0.06	0.00	0.00
107.00	1.20	0.06	0.00	0.00
108.00	1.20	0.06	0.00	0.00
109.00	1.20	0.06	0.00	0.00
110.00	1.20	0.06	0.00	0.00
111.00	1.20	0.06	0.00	0.00
112.00	1.20	0.06	0.00	0.00
113.00	1.20	0.06	0.00	0.00
114.00	1.20	0.06	0.00	0.00
115.00	1.20	0.06	0.00	0.00
116.00	1.20	0.06	0.00	0.00
117.00	1.20	0.06	0.00	0.00
118.00	1.20	0.06	0.00	0.00
119.00	1.20	0.06	0.00	0.00
120.00	1.20	0.06	0.00	0.00
121.00	1.20	0.06	0.00	0.00
122.00	1.20	0.06	0.00	0.00
123.00	1.20	0.06	0.00	0.00
124.00	1.20	0.06	0.00	0.00
125.00	1.20	0.06	0.00	0.00
126.00	1.20	0.06	0.00	0.00
127.00	1.20	0.06	0.00	0.00
128.00	1.20	0.06	0.00	0.00
129.00	1.20	0.06	0.00	0.00
130.00	1.20	0.06	0.00	0.00
131.00	1.20	0.06	0.00	0.00
132.00	1.20	0.06	0.00	0.00
133.00	1.20	0.06	0.00	0.00
134.00	1.20	0.06	0.00	0.00
135.00	1.20	0.06	0.00	0.00
136.00	1.20	0.06	0.00	0.00
137.00	1.20	0.06	0.00	0.00
138.00	1.20	0.06	0.00	0.00
139.00	1.20	0.06	0.00	0.00
140.00	1.20	0.06	0.00	0.00
141.00	1.20	0.06	0.00	0.00
142.00	1.20	0.06	0.00	0.00
143.00	1.20	0.06	0.00	0.00
144.00	1.20	0.06	0.00	0.00
145.00	1.20	0.06	0.00	0.00
146.00	1.20	0.06	0.00	0.00
147.00	1.20	0.06	0.00	0.00
148.00	1.20	0.06	0.00	0.00
149.00	1.20	0.06	0.00	0.00
150.00	1.20	0.06	0.00	0.00
151.00	1.20	0.06	0.00	0.00
152.00	1.20	0.06	0.00	0.00
153.00	1.20	0.06	0.00	0.00
154.00	1.20	0.06	0.00	0.00
155.00	1.20	0.06	0.00	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	1.20	0.06	0.00	0.00
157.00	1.20	0.06	0.00	0.00
158.00	1.20	0.06	0.00	0.00
159.00	1.20	0.06	0.00	0.00
160.00	1.20	0.06	0.00	0.00
161.00	1.20	0.06	0.00	0.00
162.00	1.20	0.06	0.00	0.00
163.00	1.20	0.06	0.00	0.00
164.00	1.20	0.06	0.00	0.00
165.00	1.20	0.06	0.00	0.00
166.00	1.20	0.06	0.00	0.00
167.00	1.20	0.06	0.00	0.00
168.00	1.20	0.06	0.00	0.00
169.00	1.20	0.06	0.00	0.00
170.00	1.20	0.06	0.00	0.00
171.00	1.20	0.06	0.00	0.00
172.00	1.20	0.06	0.00	0.00
173.00	1.20	0.06	0.00	0.00
174.00	1.20	0.06	0.00	0.00
175.00	1.20	0.06	0.00	0.00
176.00	1.20	0.06	0.00	0.00
177.00	1.20	0.06	0.00	0.00
178.00	1.20	0.06	0.00	0.00
179.00	1.20	0.06	0.00	0.00
180.00	1.20	0.06	0.00	0.00
181.00	1.20	0.06	0.00	0.00
182.00	1.20	0.06	0.00	0.00
183.00	1.20	0.06	0.00	0.00
184.00	1.20	0.06	0.00	0.00
185.00	1.20	0.06	0.00	0.00
186.00	1.20	0.06	0.00	0.00
187.00	1.20	0.06	0.00	0.00
188.00	1.20	0.06	0.00	0.00
189.00	1.20	0.06	0.00	0.00
190.00	1.20	0.06	0.00	0.00
191.00	1.20	0.06	0.00	0.00
192.00	1.20	0.06	0.00	0.00
193.00	1.20	0.06	0.00	0.00
194.00	1.20	0.06	0.00	0.00
195.00	1.20	0.06	0.00	0.00
196.00	1.20	0.06	0.00	0.00
197.00	1.20	0.06	0.00	0.00
198.00	1.20	0.06	0.00	0.00
199.00	1.20	0.06	0.00	0.00
200.00	1.20	0.06	0.00	0.00
201.00	1.20	0.06	0.00	0.00
202.00	1.20	0.06	0.00	0.00
203.00	1.20	0.06	0.00	0.00
204.00	1.20	0.06	0.00	0.00
205.00	1.20	0.06	0.00	0.00
206.00	1.20	0.06	0.00	0.00
207.00	1.20	0.06	0.00	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	1.20	0.06	0.00	0.00
209.00	1.20	0.06	0.00	0.00
210.00	1.20	0.06	0.00	0.00
211.00	1.20	0.06	0.00	0.00
212.00	1.20	0.06	0.00	0.00
213.00	1.20	0.06	0.00	0.00
214.00	1.20	0.06	0.00	0.00
215.00	1.20	0.06	0.00	0.00
216.00	1.20	0.06	0.00	0.00
217.00	1.20	0.06	0.00	0.00
218.00	1.20	0.06	0.00	0.00
219.00	1.20	0.06	0.00	0.00
220.00	1.20	0.06	0.00	0.00
221.00	1.20	0.06	0.00	0.00
222.00	1.20	0.06	0.00	0.00
223.00	1.20	0.06	0.00	0.00
224.00	1.20	0.06	0.00	0.00
225.00	1.20	0.06	0.00	0.00
226.00	1.20	0.06	0.00	0.00
227.00	1.20	0.06	0.00	0.00
228.00	1.20	0.06	0.00	0.00
229.00	1.20	0.06	0.00	0.00
230.00	1.20	0.06	0.00	0.00
231.00	1.20	0.06	0.00	0.00
232.00	1.20	0.06	0.00	0.00
233.00	1.20	0.06	0.00	0.00
234.00	1.20	0.06	0.00	0.00
235.00	1.20	0.06	0.00	0.00
236.00	1.20	0.06	0.00	0.00
237.00	1.20	0.06	0.00	0.00
238.00	1.20	0.06	0.00	0.00
239.00	1.20	0.06	0.00	0.00
240.00	1.20	0.06	0.00	0.00
241.00	1.20	0.06	0.00	0.00
242.00	1.20	0.06	0.00	0.00
243.00	1.20	0.06	0.00	0.00
244.00	1.20	0.06	0.00	0.00
245.00	1.20	0.06	0.00	0.00
246.00	1.20	0.06	0.00	0.00
247.00	1.20	0.06	0.00	0.00
248.00	1.20	0.06	0.00	0.00
249.00	1.20	0.06	0.00	0.00
250.00	1.20	0.06	0.00	0.00
251.00	1.20	0.06	0.00	0.00
252.00	1.20	0.06	0.00	0.00
253.00	1.20	0.06	0.00	0.00
254.00	1.20	0.06	0.00	0.00
255.00	1.20	0.06	0.00	0.00
256.00	1.20	0.06	0.00	0.00
257.00	1.20	0.06	0.00	0.00
258.00	1.20	0.06	0.00	0.00
259.00	1.20	0.06	0.00	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	1.20	0.06	0.00	0.00
261.00	1.20	0.06	0.00	0.00
262.00	1.20	0.06	0.00	0.00
263.00	1.20	0.06	0.00	0.00
264.00	1.20	0.06	0.00	0.00
265.00	1.20	0.06	0.00	0.00
266.00	1.20	0.06	0.00	0.00
267.00	1.20	0.06	0.00	0.00
268.00	1.20	0.06	0.00	0.00
269.00	1.20	0.06	0.00	0.00
270.00	1.20	0.06	0.00	0.00
271.00	1.20	0.06	0.00	0.00
272.00	1.20	0.06	0.00	0.00
273.00	1.20	0.06	0.00	0.00
274.00	1.20	0.06	0.00	0.00
275.00	1.20	0.06	0.00	0.00
276.00	1.20	0.06	0.00	0.00
277.00	1.20	0.06	0.00	0.00
278.00	1.20	0.06	0.00	0.00
279.00	1.20	0.06	0.00	0.00
280.00	1.20	0.06	0.00	0.00
281.00	1.20	0.06	0.00	0.00
282.00	1.20	0.06	0.00	0.00
283.00	1.20	0.06	0.00	0.00
284.00	1.20	0.06	0.00	0.00
285.00	1.20	0.06	0.00	0.00
286.00	1.20	0.06	0.00	0.00
287.00	1.20	0.06	0.00	0.00
288.00	1.20	0.06	0.00	0.00
289.00	1.20	0.06	0.00	0.00
290.00	1.20	0.06	0.00	0.00
291.00	1.20	0.06	0.00	0.00
292.00	1.20	0.06	0.00	0.00
293.00	1.20	0.06	0.00	0.00
294.00	1.20	0.06	0.00	0.00
295.00	1.20	0.06	0.00	0.00
296.00	1.20	0.06	0.00	0.00
297.00	1.20	0.06	0.00	0.00
298.00	1.20	0.06	0.00	0.00
299.00	1.20	0.06	0.00	0.00
300.00	1.20	0.06	0.00	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Summary for Pond 1P: Managed Release Rain Garden

50% IWS routing modeled with a 0.30*50% = 0.15 void space

Inflow Area =	0.800 ac, 100.00% Impervious, Inflow Depth = 0.99" for 1.2" Rain event
Inflow =	2.24 cfs @ 1.11 hrs, Volume= 0.066 af
Outflow =	0.02 cfs @ 2.11 hrs, Volume= 0.066 af, Atten= 99%, Lag= 60.5 min
Discarded =	0.01 cfs @ 2.11 hrs, Volume= 0.044 af
Primary =	0.01 cfs @ 2.11 hrs, Volume= 0.022 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Tertiary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
Peak Elev= 0.30' @ 2.11 hrs Surf.Area= 3,049 sf Storage= 2,776 cf

Plug-Flow detention time= 1,480.2 min calculated for 0.066 af (100% of inflow)
Center-of-Mass det. time= 1,480.3 min (1,550.7 - 70.4)

Volume	Invert	Avail.Storage	Storage Description
#1	-2.51'	11,007 cf	Rain Garden (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
-2.51	3,049	0.0	0	0
-1.51	3,049	15.0	457	457
-1.50	3,049	30.0	9	466
-0.01	3,049	30.0	1,363	1,829
0.00	3,049	100.0	30	1,860
3.00	3,049	100.0	9,147	11,007

Device	Routing	Invert	Outlet Devices
#1	Tertiary	2.00'	40.0' long x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64
#2	Primary	-1.50'	0.5" Vert. Orifice/Grate C= 0.600
#3	Secondary	1.10'	11.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Discarded	-2.51'	0.100 in/hr Infiltration (minimal) over Horizontal area Conductivity to Groundwater Elevation = -10.00'

Discarded OutFlow Max=0.01 cfs @ 2.11 hrs HW=0.30' (Free Discharge)
↑4=**Infiltration (minimal)** (Controls 0.01 cfs)

Primary OutFlow Max=0.01 cfs @ 2.11 hrs HW=0.30' (Free Discharge)
↑2=**Orifice/Grate** (Orifice Controls 0.01 cfs @ 6.42 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=-2.51' (Free Discharge)
↑3=**Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=-2.51' (Free Discharge)
↑1=**Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

MRC Example 1

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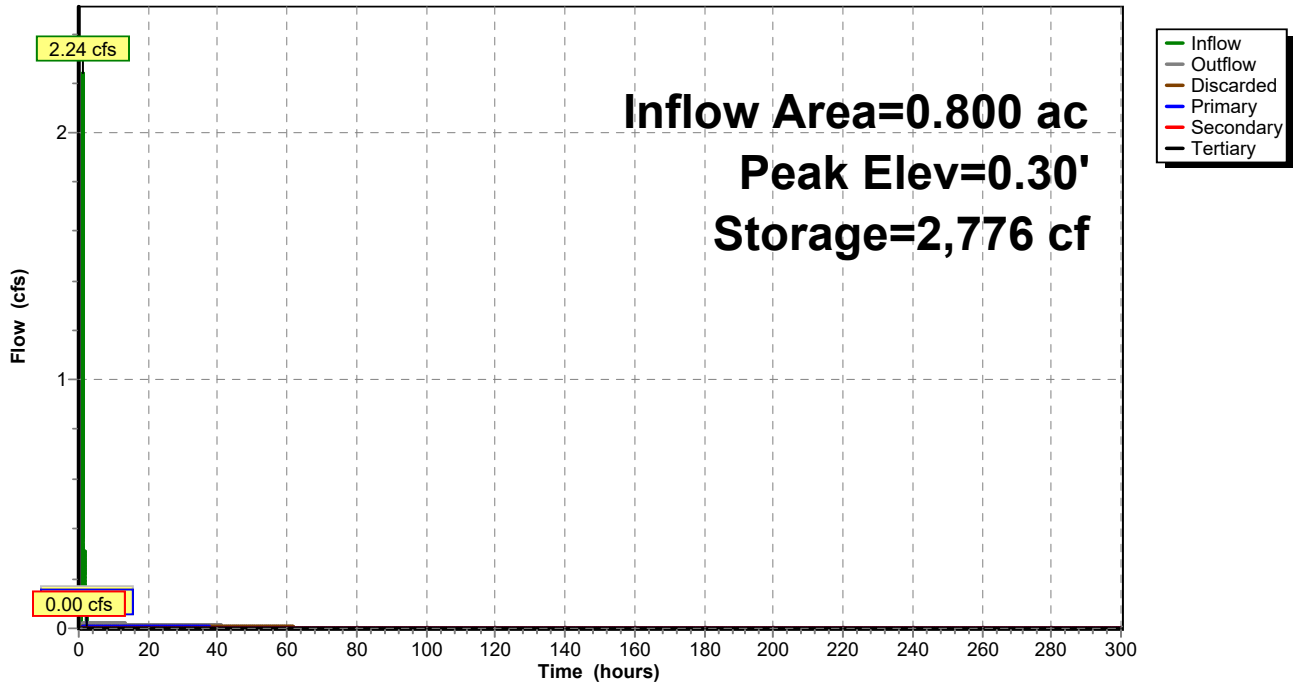
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NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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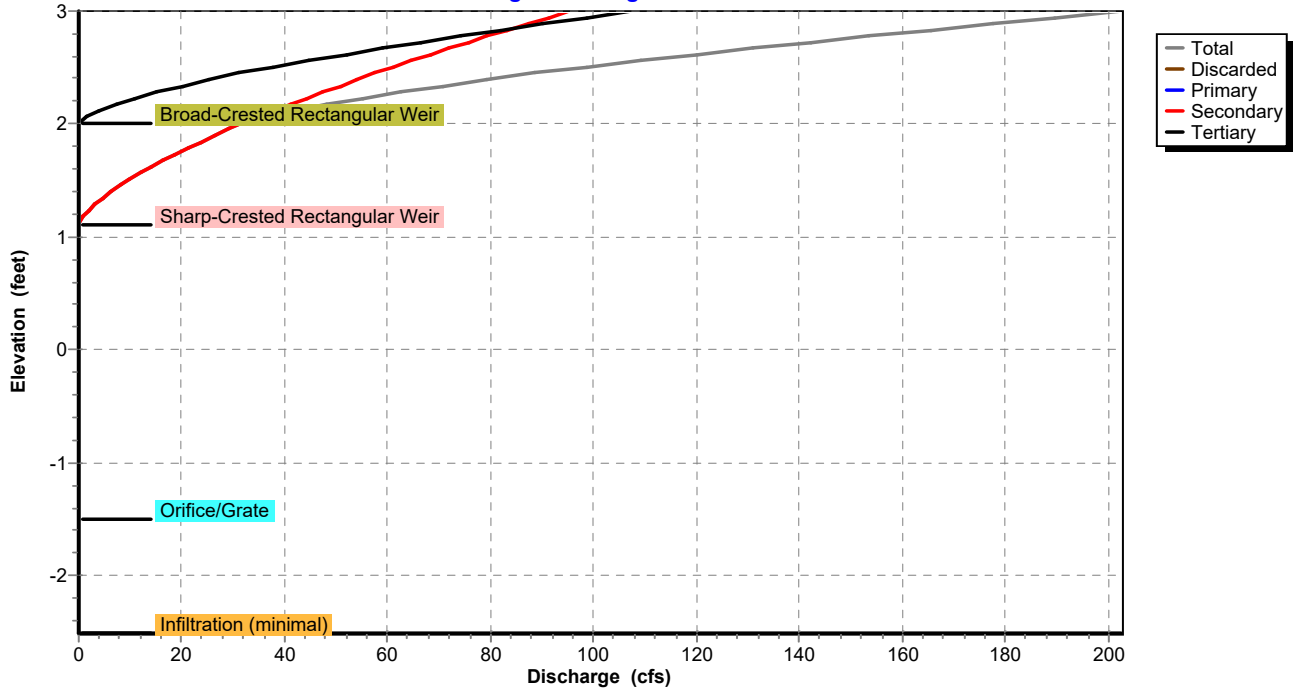
Pond 1P: Managed Release Rain Garden

Hydrograph



Pond 1P: Managed Release Rain Garden

Stage-Discharge



MRC Example 1

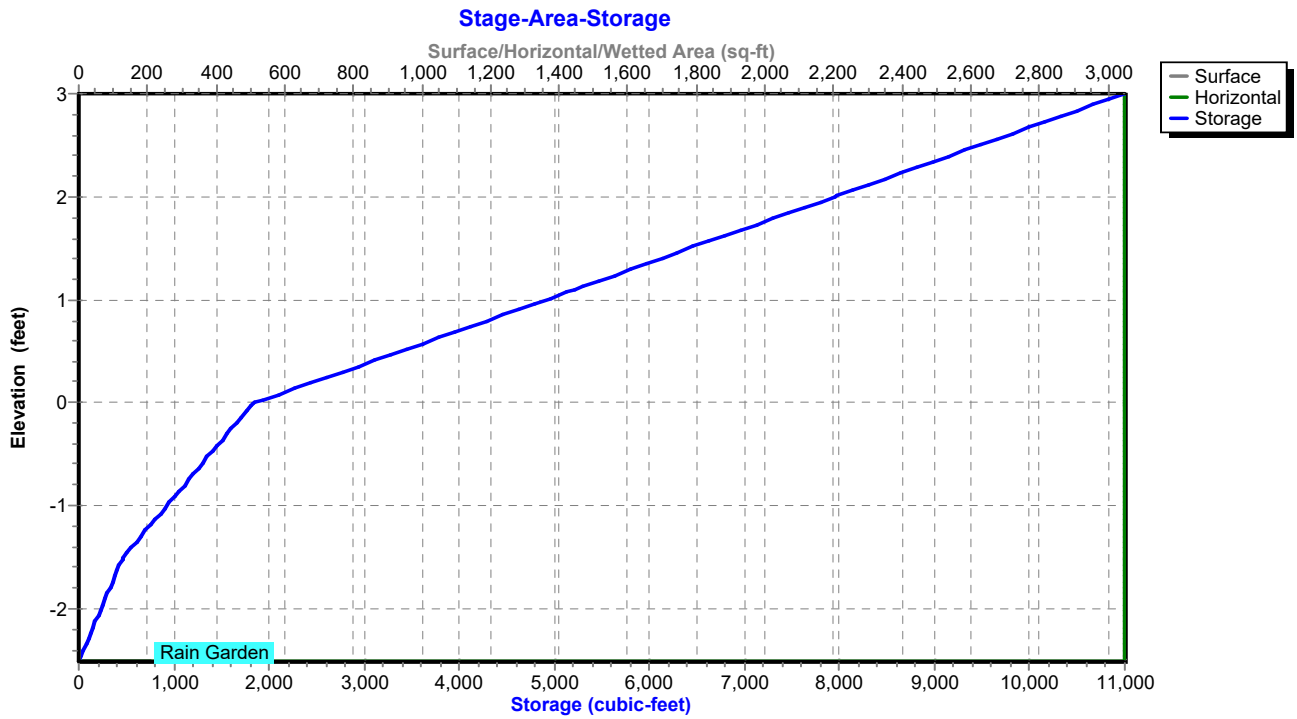
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NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Pond 1P: Managed Release Rain Garden



MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Pond 1P: Managed Release Rain Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
0.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
1.00	1.41	550	-1.41	0.01	0.01	0.00	0.00	0.00
2.00	0.08	2,761	0.30	0.02	0.01	0.01	0.00	0.00
3.00	0.00	2,720	0.28	0.02	0.01	0.01	0.00	0.00
4.00	0.00	2,654	0.26	0.02	0.01	0.01	0.00	0.00
5.00	0.00	2,588	0.24	0.02	0.01	0.01	0.00	0.00
6.00	0.00	2,522	0.22	0.02	0.01	0.01	0.00	0.00
7.00	0.00	2,457	0.20	0.02	0.01	0.01	0.00	0.00
8.00	0.00	2,392	0.17	0.02	0.01	0.01	0.00	0.00
9.00	0.00	2,327	0.15	0.02	0.01	0.01	0.00	0.00
10.00	0.00	2,263	0.13	0.02	0.01	0.01	0.00	0.00
11.00	0.00	2,199	0.11	0.02	0.01	0.01	0.00	0.00
12.00	0.00	2,135	0.09	0.02	0.01	0.01	0.00	0.00
13.00	0.00	2,071	0.07	0.02	0.01	0.01	0.00	0.00
14.00	0.00	2,007	0.05	0.02	0.01	0.01	0.00	0.00
15.00	0.00	1,944	0.03	0.02	0.01	0.01	0.00	0.00
16.00	0.00	1,881	0.01	0.02	0.01	0.01	0.00	0.00
17.00	0.00	1,819	-0.02	0.02	0.01	0.01	0.00	0.00
18.00	0.00	1,757	-0.09	0.02	0.01	0.01	0.00	0.00
19.00	0.00	1,696	-0.16	0.02	0.01	0.01	0.00	0.00
20.00	0.00	1,636	-0.22	0.02	0.01	0.01	0.00	0.00
21.00	0.00	1,576	-0.29	0.02	0.01	0.01	0.00	0.00
22.00	0.00	1,518	-0.35	0.02	0.01	0.01	0.00	0.00
23.00	0.00	1,461	-0.41	0.02	0.01	0.01	0.00	0.00
24.00	0.00	1,404	-0.47	0.02	0.01	0.01	0.00	0.00
25.00	0.00	1,349	-0.54	0.02	0.01	0.01	0.00	0.00
26.00	0.00	1,294	-0.60	0.02	0.01	0.01	0.00	0.00
27.00	0.00	1,240	-0.65	0.01	0.01	0.01	0.00	0.00
28.00	0.00	1,188	-0.71	0.01	0.01	0.01	0.00	0.00
29.00	0.00	1,136	-0.77	0.01	0.01	0.01	0.00	0.00
30.00	0.00	1,085	-0.82	0.01	0.01	0.01	0.00	0.00
31.00	0.00	1,036	-0.88	0.01	0.01	0.01	0.00	0.00
32.00	0.00	987	-0.93	0.01	0.01	0.00	0.00	0.00
33.00	0.00	939	-0.98	0.01	0.01	0.00	0.00	0.00
34.00	0.00	892	-1.03	0.01	0.01	0.00	0.00	0.00
35.00	0.00	847	-1.08	0.01	0.01	0.00	0.00	0.00
36.00	0.00	802	-1.13	0.01	0.01	0.00	0.00	0.00
37.00	0.00	759	-1.18	0.01	0.01	0.00	0.00	0.00
38.00	0.00	717	-1.23	0.01	0.01	0.00	0.00	0.00
39.00	0.00	676	-1.27	0.01	0.01	0.00	0.00	0.00
40.00	0.00	636	-1.31	0.01	0.01	0.00	0.00	0.00
41.00	0.00	598	-1.36	0.01	0.01	0.00	0.00	0.00
42.00	0.00	561	-1.40	0.01	0.01	0.00	0.00	0.00
43.00	0.00	526	-1.44	0.01	0.01	0.00	0.00	0.00
44.00	0.00	493	-1.47	0.01	0.01	0.00	0.00	0.00
45.00	0.00	463	-1.50	0.01	0.01	0.00	0.00	0.00
46.00	0.00	435	-1.56	0.01	0.01	0.00	0.00	0.00
47.00	0.00	406	-1.62	0.01	0.01	0.00	0.00	0.00
48.00	0.00	378	-1.68	0.01	0.01	0.00	0.00	0.00
49.00	0.00	350	-1.75	0.01	0.01	0.00	0.00	0.00
50.00	0.00	322	-1.81	0.01	0.01	0.00	0.00	0.00
51.00	0.00	294	-1.87	0.01	0.01	0.00	0.00	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
52.00	0.00	267	-1.93	0.01	0.01	0.00	0.00	0.00
53.00	0.00	239	-1.99	0.01	0.01	0.00	0.00	0.00
54.00	0.00	212	-2.05	0.01	0.01	0.00	0.00	0.00
55.00	0.00	185	-2.10	0.01	0.01	0.00	0.00	0.00
56.00	0.00	159	-2.16	0.01	0.01	0.00	0.00	0.00
57.00	0.00	132	-2.22	0.01	0.01	0.00	0.00	0.00
58.00	0.00	106	-2.28	0.01	0.01	0.00	0.00	0.00
59.00	0.00	80	-2.34	0.01	0.01	0.00	0.00	0.00
60.00	0.00	54	-2.39	0.01	0.01	0.00	0.00	0.00
61.00	0.00	28	-2.45	0.01	0.01	0.00	0.00	0.00
62.00	0.00	10	-2.49	0.00	0.00	0.00	0.00	0.00
63.00	0.00	4	-2.50	0.00	0.00	0.00	0.00	0.00
64.00	0.00	1	-2.51	0.00	0.00	0.00	0.00	0.00
65.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
66.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
67.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
68.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
69.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
70.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
71.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
72.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
73.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
74.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
75.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
76.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
77.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
78.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
79.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
80.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
81.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
82.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
83.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
84.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
85.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
86.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
87.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
88.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
89.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
90.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
91.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
92.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
93.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
94.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
95.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
96.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
97.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
98.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
99.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
101.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
102.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
103.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
104.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
105.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
106.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
107.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
108.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
109.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
110.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
111.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
112.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
113.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
114.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
115.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
116.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
117.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
118.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
119.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
120.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
121.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
122.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
123.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
124.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
125.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
126.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
127.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
128.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
129.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
130.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
131.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
132.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
133.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
134.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
135.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
136.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
137.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
138.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
139.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
140.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
141.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
142.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
143.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
144.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
145.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
146.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
147.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
148.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
149.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
150.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
151.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
152.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
153.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
154.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
155.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
156.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
157.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
158.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
159.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
160.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
161.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
162.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
163.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
164.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
165.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
166.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
167.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
168.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
169.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
170.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
171.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
172.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
173.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
174.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
175.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
176.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
177.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
178.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
179.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
180.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
181.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
182.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
183.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
184.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
185.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
186.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
187.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
188.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
189.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
190.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
191.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
192.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
193.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
194.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
195.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
196.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
197.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
198.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
199.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
201.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
202.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
203.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
204.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
205.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
206.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
207.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
208.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
209.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
210.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
211.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
212.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
213.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
214.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
215.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
216.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
217.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
218.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
219.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
220.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
221.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
222.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
223.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
224.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
225.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
226.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
227.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
228.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
229.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
230.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
231.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
232.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
233.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
234.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
235.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
236.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
237.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
238.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
239.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
240.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
241.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
242.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
243.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
244.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
245.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
246.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
247.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
248.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
249.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
250.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
251.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
252.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
253.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
254.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
255.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
256.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
257.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
258.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
259.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00

MRC Example 1

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
260.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
261.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
262.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
263.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
264.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
265.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
266.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
267.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
268.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
269.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
270.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
271.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
272.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
273.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
274.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
275.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
276.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
277.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
278.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
279.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
280.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
281.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
282.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
283.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
284.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
285.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
286.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
287.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
288.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
289.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
290.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
291.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
292.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
293.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
294.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
295.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
296.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
297.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
298.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
299.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Time span=0.00-300.00 hrs, dt=0.01 hrs, 30001 points

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv.

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: 0.8 ac Impervious Runoff Area=34,848 sf 100.00% Impervious Runoff Depth=3.03"
Tc=6.0 min CN=0/98 Runoff=2.77 cfs 0.202 af

Subcatchment2S: 0.8 ac Impervious Runoff Area=34,848 sf 100.00% Impervious Runoff Depth=3.03"
Tc=6.0 min CN=0/98 Runoff=2.77 cfs 0.202 af

Subcatchment3S: 0.8 ac Pervious Runoff Area=34,848 sf 0.00% Impervious Runoff Depth=1.08"
Tc=15.0 min CN=74/0 Runoff=0.80 cfs 0.072 af

Pond 1P: Managed Release Rain Garden Peak Elev=1.15' Storage=5,366 cf Inflow=2.77 cfs 0.202 af
s 0.088 af Primary=0.01 cfs 0.061 af Secondary=0.47 cfs 0.053 af Tertiary=0.00 cfs 0.000 af Outflow=0.49 cfs 0.202 af

Total Runoff Area = 2.400 ac Runoff Volume = 0.475 af Average Runoff Depth = 2.38"
33.33% Pervious = 0.800 ac 66.67% Impervious = 1.600 ac

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Summary for Subcatchment 1S: 0.8 ac Impervious (Postconstruction)

Runoff = 2.77 cfs @ 12.13 hrs, Volume= 0.202 af, Depth= 3.03"

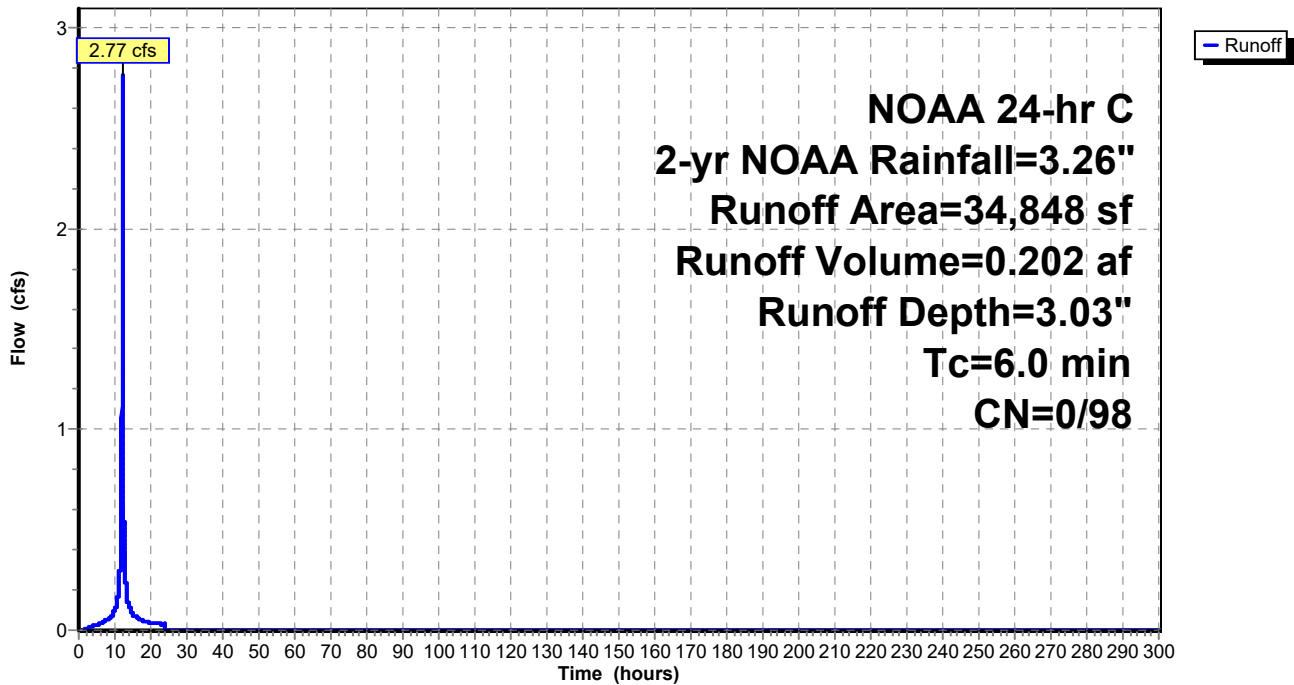
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Area (sf)	CN	Description
34,848	98	Paved roads w/curbs & sewers, HSG B
34,848	98	100.00% Impervious Area

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

Subcatchment 1S: 0.8 ac Impervious (Postconstruction)

Hydrograph



MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.04	0.00	0.00	0.00
2.00	0.07	0.00	0.00	0.01
3.00	0.12	0.00	0.02	0.02
4.00	0.16	0.00	0.04	0.02
5.00	0.21	0.00	0.07	0.03
6.00	0.26	0.00	0.11	0.03
7.00	0.32	0.00	0.16	0.04
8.00	0.39	0.00	0.22	0.05
9.00	0.48	0.00	0.30	0.07
10.00	0.59	0.00	0.40	0.10
11.00	0.78	0.00	0.58	0.19
12.00	1.55	0.00	1.33	1.53
13.00	2.48	0.00	2.25	0.25
14.00	2.67	0.00	2.44	0.12
15.00	2.78	0.00	2.55	0.08
16.00	2.87	0.00	2.64	0.06
17.00	2.94	0.00	2.71	0.05
18.00	3.00	0.00	2.77	0.04
19.00	3.05	0.00	2.82	0.04
20.00	3.10	0.00	2.87	0.04
21.00	3.14	0.00	2.91	0.03
22.00	3.19	0.00	2.95	0.03
23.00	3.22	0.00	2.99	0.03
24.00	3.26	0.00	3.03	0.03
25.00	3.26	0.00	3.03	0.00
26.00	3.26	0.00	3.03	0.00
27.00	3.26	0.00	3.03	0.00
28.00	3.26	0.00	3.03	0.00
29.00	3.26	0.00	3.03	0.00
30.00	3.26	0.00	3.03	0.00
31.00	3.26	0.00	3.03	0.00
32.00	3.26	0.00	3.03	0.00
33.00	3.26	0.00	3.03	0.00
34.00	3.26	0.00	3.03	0.00
35.00	3.26	0.00	3.03	0.00
36.00	3.26	0.00	3.03	0.00
37.00	3.26	0.00	3.03	0.00
38.00	3.26	0.00	3.03	0.00
39.00	3.26	0.00	3.03	0.00
40.00	3.26	0.00	3.03	0.00
41.00	3.26	0.00	3.03	0.00
42.00	3.26	0.00	3.03	0.00
43.00	3.26	0.00	3.03	0.00
44.00	3.26	0.00	3.03	0.00
45.00	3.26	0.00	3.03	0.00
46.00	3.26	0.00	3.03	0.00
47.00	3.26	0.00	3.03	0.00
48.00	3.26	0.00	3.03	0.00
49.00	3.26	0.00	3.03	0.00
50.00	3.26	0.00	3.03	0.00
51.00	3.26	0.00	3.03	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	3.26	0.00	3.03	0.00
53.00	3.26	0.00	3.03	0.00
54.00	3.26	0.00	3.03	0.00
55.00	3.26	0.00	3.03	0.00
56.00	3.26	0.00	3.03	0.00
57.00	3.26	0.00	3.03	0.00
58.00	3.26	0.00	3.03	0.00
59.00	3.26	0.00	3.03	0.00
60.00	3.26	0.00	3.03	0.00
61.00	3.26	0.00	3.03	0.00
62.00	3.26	0.00	3.03	0.00
63.00	3.26	0.00	3.03	0.00
64.00	3.26	0.00	3.03	0.00
65.00	3.26	0.00	3.03	0.00
66.00	3.26	0.00	3.03	0.00
67.00	3.26	0.00	3.03	0.00
68.00	3.26	0.00	3.03	0.00
69.00	3.26	0.00	3.03	0.00
70.00	3.26	0.00	3.03	0.00
71.00	3.26	0.00	3.03	0.00
72.00	3.26	0.00	3.03	0.00
73.00	3.26	0.00	3.03	0.00
74.00	3.26	0.00	3.03	0.00
75.00	3.26	0.00	3.03	0.00
76.00	3.26	0.00	3.03	0.00
77.00	3.26	0.00	3.03	0.00
78.00	3.26	0.00	3.03	0.00
79.00	3.26	0.00	3.03	0.00
80.00	3.26	0.00	3.03	0.00
81.00	3.26	0.00	3.03	0.00
82.00	3.26	0.00	3.03	0.00
83.00	3.26	0.00	3.03	0.00
84.00	3.26	0.00	3.03	0.00
85.00	3.26	0.00	3.03	0.00
86.00	3.26	0.00	3.03	0.00
87.00	3.26	0.00	3.03	0.00
88.00	3.26	0.00	3.03	0.00
89.00	3.26	0.00	3.03	0.00
90.00	3.26	0.00	3.03	0.00
91.00	3.26	0.00	3.03	0.00
92.00	3.26	0.00	3.03	0.00
93.00	3.26	0.00	3.03	0.00
94.00	3.26	0.00	3.03	0.00
95.00	3.26	0.00	3.03	0.00
96.00	3.26	0.00	3.03	0.00
97.00	3.26	0.00	3.03	0.00
98.00	3.26	0.00	3.03	0.00
99.00	3.26	0.00	3.03	0.00
100.00	3.26	0.00	3.03	0.00
101.00	3.26	0.00	3.03	0.00
102.00	3.26	0.00	3.03	0.00
103.00	3.26	0.00	3.03	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	3.26	0.00	3.03	0.00
105.00	3.26	0.00	3.03	0.00
106.00	3.26	0.00	3.03	0.00
107.00	3.26	0.00	3.03	0.00
108.00	3.26	0.00	3.03	0.00
109.00	3.26	0.00	3.03	0.00
110.00	3.26	0.00	3.03	0.00
111.00	3.26	0.00	3.03	0.00
112.00	3.26	0.00	3.03	0.00
113.00	3.26	0.00	3.03	0.00
114.00	3.26	0.00	3.03	0.00
115.00	3.26	0.00	3.03	0.00
116.00	3.26	0.00	3.03	0.00
117.00	3.26	0.00	3.03	0.00
118.00	3.26	0.00	3.03	0.00
119.00	3.26	0.00	3.03	0.00
120.00	3.26	0.00	3.03	0.00
121.00	3.26	0.00	3.03	0.00
122.00	3.26	0.00	3.03	0.00
123.00	3.26	0.00	3.03	0.00
124.00	3.26	0.00	3.03	0.00
125.00	3.26	0.00	3.03	0.00
126.00	3.26	0.00	3.03	0.00
127.00	3.26	0.00	3.03	0.00
128.00	3.26	0.00	3.03	0.00
129.00	3.26	0.00	3.03	0.00
130.00	3.26	0.00	3.03	0.00
131.00	3.26	0.00	3.03	0.00
132.00	3.26	0.00	3.03	0.00
133.00	3.26	0.00	3.03	0.00
134.00	3.26	0.00	3.03	0.00
135.00	3.26	0.00	3.03	0.00
136.00	3.26	0.00	3.03	0.00
137.00	3.26	0.00	3.03	0.00
138.00	3.26	0.00	3.03	0.00
139.00	3.26	0.00	3.03	0.00
140.00	3.26	0.00	3.03	0.00
141.00	3.26	0.00	3.03	0.00
142.00	3.26	0.00	3.03	0.00
143.00	3.26	0.00	3.03	0.00
144.00	3.26	0.00	3.03	0.00
145.00	3.26	0.00	3.03	0.00
146.00	3.26	0.00	3.03	0.00
147.00	3.26	0.00	3.03	0.00
148.00	3.26	0.00	3.03	0.00
149.00	3.26	0.00	3.03	0.00
150.00	3.26	0.00	3.03	0.00
151.00	3.26	0.00	3.03	0.00
152.00	3.26	0.00	3.03	0.00
153.00	3.26	0.00	3.03	0.00
154.00	3.26	0.00	3.03	0.00
155.00	3.26	0.00	3.03	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	3.26	0.00	3.03	0.00
157.00	3.26	0.00	3.03	0.00
158.00	3.26	0.00	3.03	0.00
159.00	3.26	0.00	3.03	0.00
160.00	3.26	0.00	3.03	0.00
161.00	3.26	0.00	3.03	0.00
162.00	3.26	0.00	3.03	0.00
163.00	3.26	0.00	3.03	0.00
164.00	3.26	0.00	3.03	0.00
165.00	3.26	0.00	3.03	0.00
166.00	3.26	0.00	3.03	0.00
167.00	3.26	0.00	3.03	0.00
168.00	3.26	0.00	3.03	0.00
169.00	3.26	0.00	3.03	0.00
170.00	3.26	0.00	3.03	0.00
171.00	3.26	0.00	3.03	0.00
172.00	3.26	0.00	3.03	0.00
173.00	3.26	0.00	3.03	0.00
174.00	3.26	0.00	3.03	0.00
175.00	3.26	0.00	3.03	0.00
176.00	3.26	0.00	3.03	0.00
177.00	3.26	0.00	3.03	0.00
178.00	3.26	0.00	3.03	0.00
179.00	3.26	0.00	3.03	0.00
180.00	3.26	0.00	3.03	0.00
181.00	3.26	0.00	3.03	0.00
182.00	3.26	0.00	3.03	0.00
183.00	3.26	0.00	3.03	0.00
184.00	3.26	0.00	3.03	0.00
185.00	3.26	0.00	3.03	0.00
186.00	3.26	0.00	3.03	0.00
187.00	3.26	0.00	3.03	0.00
188.00	3.26	0.00	3.03	0.00
189.00	3.26	0.00	3.03	0.00
190.00	3.26	0.00	3.03	0.00
191.00	3.26	0.00	3.03	0.00
192.00	3.26	0.00	3.03	0.00
193.00	3.26	0.00	3.03	0.00
194.00	3.26	0.00	3.03	0.00
195.00	3.26	0.00	3.03	0.00
196.00	3.26	0.00	3.03	0.00
197.00	3.26	0.00	3.03	0.00
198.00	3.26	0.00	3.03	0.00
199.00	3.26	0.00	3.03	0.00
200.00	3.26	0.00	3.03	0.00
201.00	3.26	0.00	3.03	0.00
202.00	3.26	0.00	3.03	0.00
203.00	3.26	0.00	3.03	0.00
204.00	3.26	0.00	3.03	0.00
205.00	3.26	0.00	3.03	0.00
206.00	3.26	0.00	3.03	0.00
207.00	3.26	0.00	3.03	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	3.26	0.00	3.03	0.00
209.00	3.26	0.00	3.03	0.00
210.00	3.26	0.00	3.03	0.00
211.00	3.26	0.00	3.03	0.00
212.00	3.26	0.00	3.03	0.00
213.00	3.26	0.00	3.03	0.00
214.00	3.26	0.00	3.03	0.00
215.00	3.26	0.00	3.03	0.00
216.00	3.26	0.00	3.03	0.00
217.00	3.26	0.00	3.03	0.00
218.00	3.26	0.00	3.03	0.00
219.00	3.26	0.00	3.03	0.00
220.00	3.26	0.00	3.03	0.00
221.00	3.26	0.00	3.03	0.00
222.00	3.26	0.00	3.03	0.00
223.00	3.26	0.00	3.03	0.00
224.00	3.26	0.00	3.03	0.00
225.00	3.26	0.00	3.03	0.00
226.00	3.26	0.00	3.03	0.00
227.00	3.26	0.00	3.03	0.00
228.00	3.26	0.00	3.03	0.00
229.00	3.26	0.00	3.03	0.00
230.00	3.26	0.00	3.03	0.00
231.00	3.26	0.00	3.03	0.00
232.00	3.26	0.00	3.03	0.00
233.00	3.26	0.00	3.03	0.00
234.00	3.26	0.00	3.03	0.00
235.00	3.26	0.00	3.03	0.00
236.00	3.26	0.00	3.03	0.00
237.00	3.26	0.00	3.03	0.00
238.00	3.26	0.00	3.03	0.00
239.00	3.26	0.00	3.03	0.00
240.00	3.26	0.00	3.03	0.00
241.00	3.26	0.00	3.03	0.00
242.00	3.26	0.00	3.03	0.00
243.00	3.26	0.00	3.03	0.00
244.00	3.26	0.00	3.03	0.00
245.00	3.26	0.00	3.03	0.00
246.00	3.26	0.00	3.03	0.00
247.00	3.26	0.00	3.03	0.00
248.00	3.26	0.00	3.03	0.00
249.00	3.26	0.00	3.03	0.00
250.00	3.26	0.00	3.03	0.00
251.00	3.26	0.00	3.03	0.00
252.00	3.26	0.00	3.03	0.00
253.00	3.26	0.00	3.03	0.00
254.00	3.26	0.00	3.03	0.00
255.00	3.26	0.00	3.03	0.00
256.00	3.26	0.00	3.03	0.00
257.00	3.26	0.00	3.03	0.00
258.00	3.26	0.00	3.03	0.00
259.00	3.26	0.00	3.03	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 1S: 0.8 ac Impervious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	3.26	0.00	3.03	0.00
261.00	3.26	0.00	3.03	0.00
262.00	3.26	0.00	3.03	0.00
263.00	3.26	0.00	3.03	0.00
264.00	3.26	0.00	3.03	0.00
265.00	3.26	0.00	3.03	0.00
266.00	3.26	0.00	3.03	0.00
267.00	3.26	0.00	3.03	0.00
268.00	3.26	0.00	3.03	0.00
269.00	3.26	0.00	3.03	0.00
270.00	3.26	0.00	3.03	0.00
271.00	3.26	0.00	3.03	0.00
272.00	3.26	0.00	3.03	0.00
273.00	3.26	0.00	3.03	0.00
274.00	3.26	0.00	3.03	0.00
275.00	3.26	0.00	3.03	0.00
276.00	3.26	0.00	3.03	0.00
277.00	3.26	0.00	3.03	0.00
278.00	3.26	0.00	3.03	0.00
279.00	3.26	0.00	3.03	0.00
280.00	3.26	0.00	3.03	0.00
281.00	3.26	0.00	3.03	0.00
282.00	3.26	0.00	3.03	0.00
283.00	3.26	0.00	3.03	0.00
284.00	3.26	0.00	3.03	0.00
285.00	3.26	0.00	3.03	0.00
286.00	3.26	0.00	3.03	0.00
287.00	3.26	0.00	3.03	0.00
288.00	3.26	0.00	3.03	0.00
289.00	3.26	0.00	3.03	0.00
290.00	3.26	0.00	3.03	0.00
291.00	3.26	0.00	3.03	0.00
292.00	3.26	0.00	3.03	0.00
293.00	3.26	0.00	3.03	0.00
294.00	3.26	0.00	3.03	0.00
295.00	3.26	0.00	3.03	0.00
296.00	3.26	0.00	3.03	0.00
297.00	3.26	0.00	3.03	0.00
298.00	3.26	0.00	3.03	0.00
299.00	3.26	0.00	3.03	0.00
300.00	3.26	0.00	3.03	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Summary for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs)

Runoff = 2.77 cfs @ 12.13 hrs, Volume= 0.202 af, Depth= 3.03"

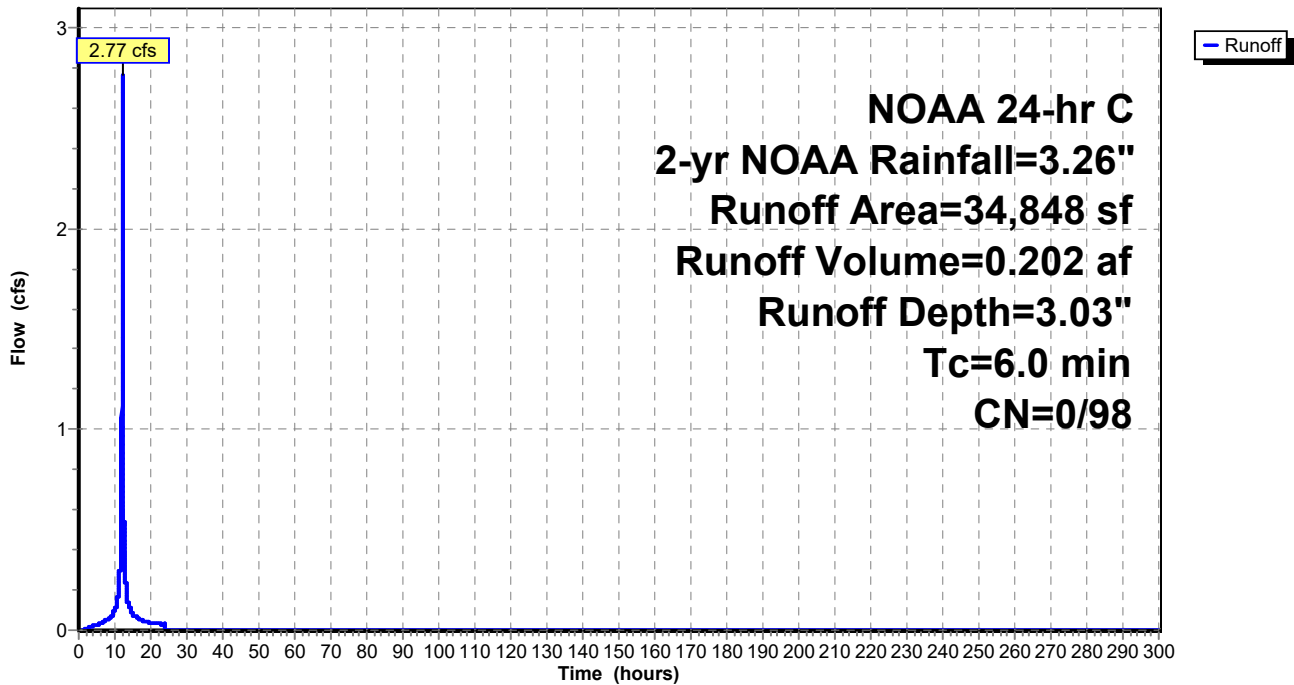
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Area (sf)	CN	Description
34,848	98	Paved roads w/curbs & sewers, HSG B
34,848	98	100.00% Impervious Area

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

Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs)

Hydrograph



MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.04	0.00	0.00	0.00
2.00	0.07	0.00	0.00	0.01
3.00	0.12	0.00	0.02	0.02
4.00	0.16	0.00	0.04	0.02
5.00	0.21	0.00	0.07	0.03
6.00	0.26	0.00	0.11	0.03
7.00	0.32	0.00	0.16	0.04
8.00	0.39	0.00	0.22	0.05
9.00	0.48	0.00	0.30	0.07
10.00	0.59	0.00	0.40	0.10
11.00	0.78	0.00	0.58	0.19
12.00	1.55	0.00	1.33	1.53
13.00	2.48	0.00	2.25	0.25
14.00	2.67	0.00	2.44	0.12
15.00	2.78	0.00	2.55	0.08
16.00	2.87	0.00	2.64	0.06
17.00	2.94	0.00	2.71	0.05
18.00	3.00	0.00	2.77	0.04
19.00	3.05	0.00	2.82	0.04
20.00	3.10	0.00	2.87	0.04
21.00	3.14	0.00	2.91	0.03
22.00	3.19	0.00	2.95	0.03
23.00	3.22	0.00	2.99	0.03
24.00	3.26	0.00	3.03	0.03
25.00	3.26	0.00	3.03	0.00
26.00	3.26	0.00	3.03	0.00
27.00	3.26	0.00	3.03	0.00
28.00	3.26	0.00	3.03	0.00
29.00	3.26	0.00	3.03	0.00
30.00	3.26	0.00	3.03	0.00
31.00	3.26	0.00	3.03	0.00
32.00	3.26	0.00	3.03	0.00
33.00	3.26	0.00	3.03	0.00
34.00	3.26	0.00	3.03	0.00
35.00	3.26	0.00	3.03	0.00
36.00	3.26	0.00	3.03	0.00
37.00	3.26	0.00	3.03	0.00
38.00	3.26	0.00	3.03	0.00
39.00	3.26	0.00	3.03	0.00
40.00	3.26	0.00	3.03	0.00
41.00	3.26	0.00	3.03	0.00
42.00	3.26	0.00	3.03	0.00
43.00	3.26	0.00	3.03	0.00
44.00	3.26	0.00	3.03	0.00
45.00	3.26	0.00	3.03	0.00
46.00	3.26	0.00	3.03	0.00
47.00	3.26	0.00	3.03	0.00
48.00	3.26	0.00	3.03	0.00
49.00	3.26	0.00	3.03	0.00
50.00	3.26	0.00	3.03	0.00
51.00	3.26	0.00	3.03	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	3.26	0.00	3.03	0.00
53.00	3.26	0.00	3.03	0.00
54.00	3.26	0.00	3.03	0.00
55.00	3.26	0.00	3.03	0.00
56.00	3.26	0.00	3.03	0.00
57.00	3.26	0.00	3.03	0.00
58.00	3.26	0.00	3.03	0.00
59.00	3.26	0.00	3.03	0.00
60.00	3.26	0.00	3.03	0.00
61.00	3.26	0.00	3.03	0.00
62.00	3.26	0.00	3.03	0.00
63.00	3.26	0.00	3.03	0.00
64.00	3.26	0.00	3.03	0.00
65.00	3.26	0.00	3.03	0.00
66.00	3.26	0.00	3.03	0.00
67.00	3.26	0.00	3.03	0.00
68.00	3.26	0.00	3.03	0.00
69.00	3.26	0.00	3.03	0.00
70.00	3.26	0.00	3.03	0.00
71.00	3.26	0.00	3.03	0.00
72.00	3.26	0.00	3.03	0.00
73.00	3.26	0.00	3.03	0.00
74.00	3.26	0.00	3.03	0.00
75.00	3.26	0.00	3.03	0.00
76.00	3.26	0.00	3.03	0.00
77.00	3.26	0.00	3.03	0.00
78.00	3.26	0.00	3.03	0.00
79.00	3.26	0.00	3.03	0.00
80.00	3.26	0.00	3.03	0.00
81.00	3.26	0.00	3.03	0.00
82.00	3.26	0.00	3.03	0.00
83.00	3.26	0.00	3.03	0.00
84.00	3.26	0.00	3.03	0.00
85.00	3.26	0.00	3.03	0.00
86.00	3.26	0.00	3.03	0.00
87.00	3.26	0.00	3.03	0.00
88.00	3.26	0.00	3.03	0.00
89.00	3.26	0.00	3.03	0.00
90.00	3.26	0.00	3.03	0.00
91.00	3.26	0.00	3.03	0.00
92.00	3.26	0.00	3.03	0.00
93.00	3.26	0.00	3.03	0.00
94.00	3.26	0.00	3.03	0.00
95.00	3.26	0.00	3.03	0.00
96.00	3.26	0.00	3.03	0.00
97.00	3.26	0.00	3.03	0.00
98.00	3.26	0.00	3.03	0.00
99.00	3.26	0.00	3.03	0.00
100.00	3.26	0.00	3.03	0.00
101.00	3.26	0.00	3.03	0.00
102.00	3.26	0.00	3.03	0.00
103.00	3.26	0.00	3.03	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	3.26	0.00	3.03	0.00
105.00	3.26	0.00	3.03	0.00
106.00	3.26	0.00	3.03	0.00
107.00	3.26	0.00	3.03	0.00
108.00	3.26	0.00	3.03	0.00
109.00	3.26	0.00	3.03	0.00
110.00	3.26	0.00	3.03	0.00
111.00	3.26	0.00	3.03	0.00
112.00	3.26	0.00	3.03	0.00
113.00	3.26	0.00	3.03	0.00
114.00	3.26	0.00	3.03	0.00
115.00	3.26	0.00	3.03	0.00
116.00	3.26	0.00	3.03	0.00
117.00	3.26	0.00	3.03	0.00
118.00	3.26	0.00	3.03	0.00
119.00	3.26	0.00	3.03	0.00
120.00	3.26	0.00	3.03	0.00
121.00	3.26	0.00	3.03	0.00
122.00	3.26	0.00	3.03	0.00
123.00	3.26	0.00	3.03	0.00
124.00	3.26	0.00	3.03	0.00
125.00	3.26	0.00	3.03	0.00
126.00	3.26	0.00	3.03	0.00
127.00	3.26	0.00	3.03	0.00
128.00	3.26	0.00	3.03	0.00
129.00	3.26	0.00	3.03	0.00
130.00	3.26	0.00	3.03	0.00
131.00	3.26	0.00	3.03	0.00
132.00	3.26	0.00	3.03	0.00
133.00	3.26	0.00	3.03	0.00
134.00	3.26	0.00	3.03	0.00
135.00	3.26	0.00	3.03	0.00
136.00	3.26	0.00	3.03	0.00
137.00	3.26	0.00	3.03	0.00
138.00	3.26	0.00	3.03	0.00
139.00	3.26	0.00	3.03	0.00
140.00	3.26	0.00	3.03	0.00
141.00	3.26	0.00	3.03	0.00
142.00	3.26	0.00	3.03	0.00
143.00	3.26	0.00	3.03	0.00
144.00	3.26	0.00	3.03	0.00
145.00	3.26	0.00	3.03	0.00
146.00	3.26	0.00	3.03	0.00
147.00	3.26	0.00	3.03	0.00
148.00	3.26	0.00	3.03	0.00
149.00	3.26	0.00	3.03	0.00
150.00	3.26	0.00	3.03	0.00
151.00	3.26	0.00	3.03	0.00
152.00	3.26	0.00	3.03	0.00
153.00	3.26	0.00	3.03	0.00
154.00	3.26	0.00	3.03	0.00
155.00	3.26	0.00	3.03	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	3.26	0.00	3.03	0.00
157.00	3.26	0.00	3.03	0.00
158.00	3.26	0.00	3.03	0.00
159.00	3.26	0.00	3.03	0.00
160.00	3.26	0.00	3.03	0.00
161.00	3.26	0.00	3.03	0.00
162.00	3.26	0.00	3.03	0.00
163.00	3.26	0.00	3.03	0.00
164.00	3.26	0.00	3.03	0.00
165.00	3.26	0.00	3.03	0.00
166.00	3.26	0.00	3.03	0.00
167.00	3.26	0.00	3.03	0.00
168.00	3.26	0.00	3.03	0.00
169.00	3.26	0.00	3.03	0.00
170.00	3.26	0.00	3.03	0.00
171.00	3.26	0.00	3.03	0.00
172.00	3.26	0.00	3.03	0.00
173.00	3.26	0.00	3.03	0.00
174.00	3.26	0.00	3.03	0.00
175.00	3.26	0.00	3.03	0.00
176.00	3.26	0.00	3.03	0.00
177.00	3.26	0.00	3.03	0.00
178.00	3.26	0.00	3.03	0.00
179.00	3.26	0.00	3.03	0.00
180.00	3.26	0.00	3.03	0.00
181.00	3.26	0.00	3.03	0.00
182.00	3.26	0.00	3.03	0.00
183.00	3.26	0.00	3.03	0.00
184.00	3.26	0.00	3.03	0.00
185.00	3.26	0.00	3.03	0.00
186.00	3.26	0.00	3.03	0.00
187.00	3.26	0.00	3.03	0.00
188.00	3.26	0.00	3.03	0.00
189.00	3.26	0.00	3.03	0.00
190.00	3.26	0.00	3.03	0.00
191.00	3.26	0.00	3.03	0.00
192.00	3.26	0.00	3.03	0.00
193.00	3.26	0.00	3.03	0.00
194.00	3.26	0.00	3.03	0.00
195.00	3.26	0.00	3.03	0.00
196.00	3.26	0.00	3.03	0.00
197.00	3.26	0.00	3.03	0.00
198.00	3.26	0.00	3.03	0.00
199.00	3.26	0.00	3.03	0.00
200.00	3.26	0.00	3.03	0.00
201.00	3.26	0.00	3.03	0.00
202.00	3.26	0.00	3.03	0.00
203.00	3.26	0.00	3.03	0.00
204.00	3.26	0.00	3.03	0.00
205.00	3.26	0.00	3.03	0.00
206.00	3.26	0.00	3.03	0.00
207.00	3.26	0.00	3.03	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	3.26	0.00	3.03	0.00
209.00	3.26	0.00	3.03	0.00
210.00	3.26	0.00	3.03	0.00
211.00	3.26	0.00	3.03	0.00
212.00	3.26	0.00	3.03	0.00
213.00	3.26	0.00	3.03	0.00
214.00	3.26	0.00	3.03	0.00
215.00	3.26	0.00	3.03	0.00
216.00	3.26	0.00	3.03	0.00
217.00	3.26	0.00	3.03	0.00
218.00	3.26	0.00	3.03	0.00
219.00	3.26	0.00	3.03	0.00
220.00	3.26	0.00	3.03	0.00
221.00	3.26	0.00	3.03	0.00
222.00	3.26	0.00	3.03	0.00
223.00	3.26	0.00	3.03	0.00
224.00	3.26	0.00	3.03	0.00
225.00	3.26	0.00	3.03	0.00
226.00	3.26	0.00	3.03	0.00
227.00	3.26	0.00	3.03	0.00
228.00	3.26	0.00	3.03	0.00
229.00	3.26	0.00	3.03	0.00
230.00	3.26	0.00	3.03	0.00
231.00	3.26	0.00	3.03	0.00
232.00	3.26	0.00	3.03	0.00
233.00	3.26	0.00	3.03	0.00
234.00	3.26	0.00	3.03	0.00
235.00	3.26	0.00	3.03	0.00
236.00	3.26	0.00	3.03	0.00
237.00	3.26	0.00	3.03	0.00
238.00	3.26	0.00	3.03	0.00
239.00	3.26	0.00	3.03	0.00
240.00	3.26	0.00	3.03	0.00
241.00	3.26	0.00	3.03	0.00
242.00	3.26	0.00	3.03	0.00
243.00	3.26	0.00	3.03	0.00
244.00	3.26	0.00	3.03	0.00
245.00	3.26	0.00	3.03	0.00
246.00	3.26	0.00	3.03	0.00
247.00	3.26	0.00	3.03	0.00
248.00	3.26	0.00	3.03	0.00
249.00	3.26	0.00	3.03	0.00
250.00	3.26	0.00	3.03	0.00
251.00	3.26	0.00	3.03	0.00
252.00	3.26	0.00	3.03	0.00
253.00	3.26	0.00	3.03	0.00
254.00	3.26	0.00	3.03	0.00
255.00	3.26	0.00	3.03	0.00
256.00	3.26	0.00	3.03	0.00
257.00	3.26	0.00	3.03	0.00
258.00	3.26	0.00	3.03	0.00
259.00	3.26	0.00	3.03	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 2S: 0.8 ac Impervious (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	3.26	0.00	3.03	0.00
261.00	3.26	0.00	3.03	0.00
262.00	3.26	0.00	3.03	0.00
263.00	3.26	0.00	3.03	0.00
264.00	3.26	0.00	3.03	0.00
265.00	3.26	0.00	3.03	0.00
266.00	3.26	0.00	3.03	0.00
267.00	3.26	0.00	3.03	0.00
268.00	3.26	0.00	3.03	0.00
269.00	3.26	0.00	3.03	0.00
270.00	3.26	0.00	3.03	0.00
271.00	3.26	0.00	3.03	0.00
272.00	3.26	0.00	3.03	0.00
273.00	3.26	0.00	3.03	0.00
274.00	3.26	0.00	3.03	0.00
275.00	3.26	0.00	3.03	0.00
276.00	3.26	0.00	3.03	0.00
277.00	3.26	0.00	3.03	0.00
278.00	3.26	0.00	3.03	0.00
279.00	3.26	0.00	3.03	0.00
280.00	3.26	0.00	3.03	0.00
281.00	3.26	0.00	3.03	0.00
282.00	3.26	0.00	3.03	0.00
283.00	3.26	0.00	3.03	0.00
284.00	3.26	0.00	3.03	0.00
285.00	3.26	0.00	3.03	0.00
286.00	3.26	0.00	3.03	0.00
287.00	3.26	0.00	3.03	0.00
288.00	3.26	0.00	3.03	0.00
289.00	3.26	0.00	3.03	0.00
290.00	3.26	0.00	3.03	0.00
291.00	3.26	0.00	3.03	0.00
292.00	3.26	0.00	3.03	0.00
293.00	3.26	0.00	3.03	0.00
294.00	3.26	0.00	3.03	0.00
295.00	3.26	0.00	3.03	0.00
296.00	3.26	0.00	3.03	0.00
297.00	3.26	0.00	3.03	0.00
298.00	3.26	0.00	3.03	0.00
299.00	3.26	0.00	3.03	0.00
300.00	3.26	0.00	3.03	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Prepared by VU for PADEP

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Summary for Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Runoff = 0.80 cfs @ 12.25 hrs, Volume= 0.072 af, Depth= 1.08"

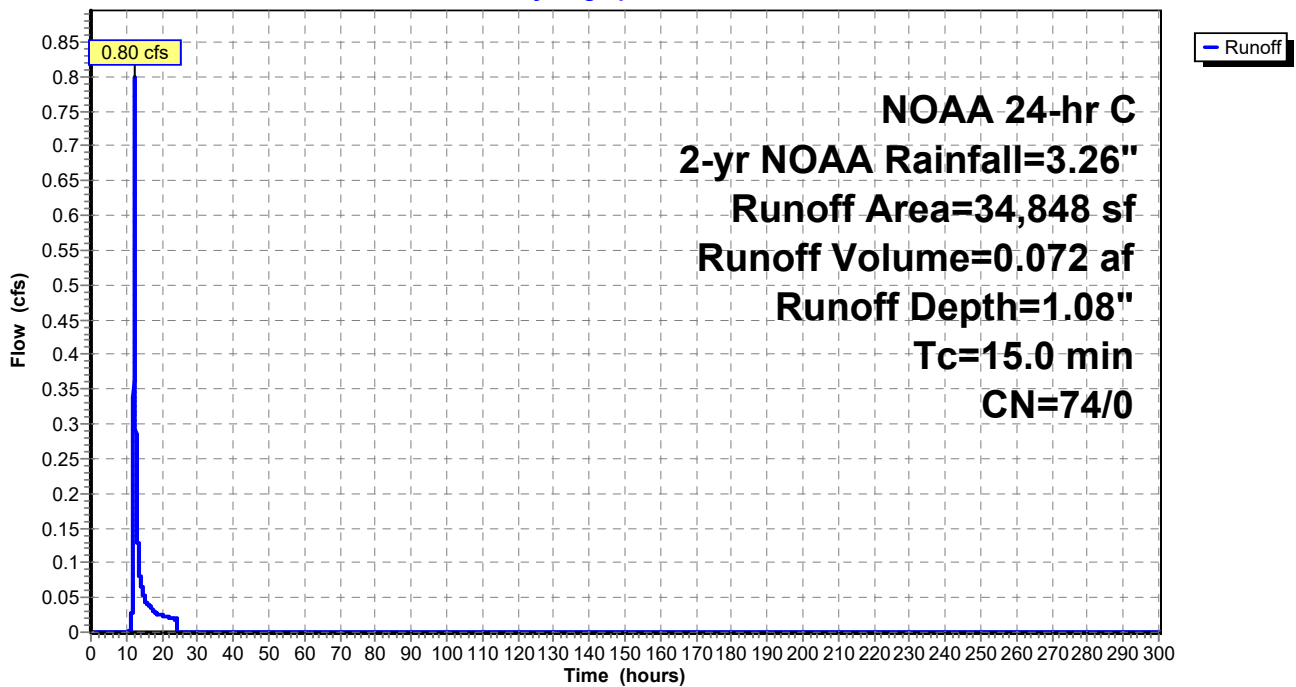
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Area (sf)	CN	Description
* 34,848	74	Meadow, non-grazed, HSG C
34,848	74	100.00% Pervious Area

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

Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Hydrograph



MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.04	0.00	0.00	0.00
2.00	0.07	0.00	0.00	0.00
3.00	0.12	0.00	0.00	0.00
4.00	0.16	0.00	0.00	0.00
5.00	0.21	0.00	0.00	0.00
6.00	0.26	0.00	0.00	0.00
7.00	0.32	0.00	0.00	0.00
8.00	0.39	0.00	0.00	0.00
9.00	0.48	0.00	0.00	0.00
10.00	0.59	0.00	0.00	0.00
11.00	0.78	0.00	0.00	0.00
12.00	1.55	0.17	0.00	0.21
13.00	2.48	0.60	0.00	0.16
14.00	2.67	0.70	0.00	0.07
15.00	2.78	0.77	0.00	0.05
16.00	2.87	0.83	0.00	0.04
17.00	2.94	0.87	0.00	0.03
18.00	3.00	0.91	0.00	0.03
19.00	3.05	0.94	0.00	0.03
20.00	3.10	0.97	0.00	0.02
21.00	3.14	1.00	0.00	0.02
22.00	3.19	1.03	0.00	0.02
23.00	3.22	1.05	0.00	0.02
24.00	3.26	1.08	0.00	0.02
25.00	3.26	1.08	0.00	0.00
26.00	3.26	1.08	0.00	0.00
27.00	3.26	1.08	0.00	0.00
28.00	3.26	1.08	0.00	0.00
29.00	3.26	1.08	0.00	0.00
30.00	3.26	1.08	0.00	0.00
31.00	3.26	1.08	0.00	0.00
32.00	3.26	1.08	0.00	0.00
33.00	3.26	1.08	0.00	0.00
34.00	3.26	1.08	0.00	0.00
35.00	3.26	1.08	0.00	0.00
36.00	3.26	1.08	0.00	0.00
37.00	3.26	1.08	0.00	0.00
38.00	3.26	1.08	0.00	0.00
39.00	3.26	1.08	0.00	0.00
40.00	3.26	1.08	0.00	0.00
41.00	3.26	1.08	0.00	0.00
42.00	3.26	1.08	0.00	0.00
43.00	3.26	1.08	0.00	0.00
44.00	3.26	1.08	0.00	0.00
45.00	3.26	1.08	0.00	0.00
46.00	3.26	1.08	0.00	0.00
47.00	3.26	1.08	0.00	0.00
48.00	3.26	1.08	0.00	0.00
49.00	3.26	1.08	0.00	0.00
50.00	3.26	1.08	0.00	0.00
51.00	3.26	1.08	0.00	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	3.26	1.08	0.00	0.00
53.00	3.26	1.08	0.00	0.00
54.00	3.26	1.08	0.00	0.00
55.00	3.26	1.08	0.00	0.00
56.00	3.26	1.08	0.00	0.00
57.00	3.26	1.08	0.00	0.00
58.00	3.26	1.08	0.00	0.00
59.00	3.26	1.08	0.00	0.00
60.00	3.26	1.08	0.00	0.00
61.00	3.26	1.08	0.00	0.00
62.00	3.26	1.08	0.00	0.00
63.00	3.26	1.08	0.00	0.00
64.00	3.26	1.08	0.00	0.00
65.00	3.26	1.08	0.00	0.00
66.00	3.26	1.08	0.00	0.00
67.00	3.26	1.08	0.00	0.00
68.00	3.26	1.08	0.00	0.00
69.00	3.26	1.08	0.00	0.00
70.00	3.26	1.08	0.00	0.00
71.00	3.26	1.08	0.00	0.00
72.00	3.26	1.08	0.00	0.00
73.00	3.26	1.08	0.00	0.00
74.00	3.26	1.08	0.00	0.00
75.00	3.26	1.08	0.00	0.00
76.00	3.26	1.08	0.00	0.00
77.00	3.26	1.08	0.00	0.00
78.00	3.26	1.08	0.00	0.00
79.00	3.26	1.08	0.00	0.00
80.00	3.26	1.08	0.00	0.00
81.00	3.26	1.08	0.00	0.00
82.00	3.26	1.08	0.00	0.00
83.00	3.26	1.08	0.00	0.00
84.00	3.26	1.08	0.00	0.00
85.00	3.26	1.08	0.00	0.00
86.00	3.26	1.08	0.00	0.00
87.00	3.26	1.08	0.00	0.00
88.00	3.26	1.08	0.00	0.00
89.00	3.26	1.08	0.00	0.00
90.00	3.26	1.08	0.00	0.00
91.00	3.26	1.08	0.00	0.00
92.00	3.26	1.08	0.00	0.00
93.00	3.26	1.08	0.00	0.00
94.00	3.26	1.08	0.00	0.00
95.00	3.26	1.08	0.00	0.00
96.00	3.26	1.08	0.00	0.00
97.00	3.26	1.08	0.00	0.00
98.00	3.26	1.08	0.00	0.00
99.00	3.26	1.08	0.00	0.00
100.00	3.26	1.08	0.00	0.00
101.00	3.26	1.08	0.00	0.00
102.00	3.26	1.08	0.00	0.00
103.00	3.26	1.08	0.00	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	3.26	1.08	0.00	0.00
105.00	3.26	1.08	0.00	0.00
106.00	3.26	1.08	0.00	0.00
107.00	3.26	1.08	0.00	0.00
108.00	3.26	1.08	0.00	0.00
109.00	3.26	1.08	0.00	0.00
110.00	3.26	1.08	0.00	0.00
111.00	3.26	1.08	0.00	0.00
112.00	3.26	1.08	0.00	0.00
113.00	3.26	1.08	0.00	0.00
114.00	3.26	1.08	0.00	0.00
115.00	3.26	1.08	0.00	0.00
116.00	3.26	1.08	0.00	0.00
117.00	3.26	1.08	0.00	0.00
118.00	3.26	1.08	0.00	0.00
119.00	3.26	1.08	0.00	0.00
120.00	3.26	1.08	0.00	0.00
121.00	3.26	1.08	0.00	0.00
122.00	3.26	1.08	0.00	0.00
123.00	3.26	1.08	0.00	0.00
124.00	3.26	1.08	0.00	0.00
125.00	3.26	1.08	0.00	0.00
126.00	3.26	1.08	0.00	0.00
127.00	3.26	1.08	0.00	0.00
128.00	3.26	1.08	0.00	0.00
129.00	3.26	1.08	0.00	0.00
130.00	3.26	1.08	0.00	0.00
131.00	3.26	1.08	0.00	0.00
132.00	3.26	1.08	0.00	0.00
133.00	3.26	1.08	0.00	0.00
134.00	3.26	1.08	0.00	0.00
135.00	3.26	1.08	0.00	0.00
136.00	3.26	1.08	0.00	0.00
137.00	3.26	1.08	0.00	0.00
138.00	3.26	1.08	0.00	0.00
139.00	3.26	1.08	0.00	0.00
140.00	3.26	1.08	0.00	0.00
141.00	3.26	1.08	0.00	0.00
142.00	3.26	1.08	0.00	0.00
143.00	3.26	1.08	0.00	0.00
144.00	3.26	1.08	0.00	0.00
145.00	3.26	1.08	0.00	0.00
146.00	3.26	1.08	0.00	0.00
147.00	3.26	1.08	0.00	0.00
148.00	3.26	1.08	0.00	0.00
149.00	3.26	1.08	0.00	0.00
150.00	3.26	1.08	0.00	0.00
151.00	3.26	1.08	0.00	0.00
152.00	3.26	1.08	0.00	0.00
153.00	3.26	1.08	0.00	0.00
154.00	3.26	1.08	0.00	0.00
155.00	3.26	1.08	0.00	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	3.26	1.08	0.00	0.00
157.00	3.26	1.08	0.00	0.00
158.00	3.26	1.08	0.00	0.00
159.00	3.26	1.08	0.00	0.00
160.00	3.26	1.08	0.00	0.00
161.00	3.26	1.08	0.00	0.00
162.00	3.26	1.08	0.00	0.00
163.00	3.26	1.08	0.00	0.00
164.00	3.26	1.08	0.00	0.00
165.00	3.26	1.08	0.00	0.00
166.00	3.26	1.08	0.00	0.00
167.00	3.26	1.08	0.00	0.00
168.00	3.26	1.08	0.00	0.00
169.00	3.26	1.08	0.00	0.00
170.00	3.26	1.08	0.00	0.00
171.00	3.26	1.08	0.00	0.00
172.00	3.26	1.08	0.00	0.00
173.00	3.26	1.08	0.00	0.00
174.00	3.26	1.08	0.00	0.00
175.00	3.26	1.08	0.00	0.00
176.00	3.26	1.08	0.00	0.00
177.00	3.26	1.08	0.00	0.00
178.00	3.26	1.08	0.00	0.00
179.00	3.26	1.08	0.00	0.00
180.00	3.26	1.08	0.00	0.00
181.00	3.26	1.08	0.00	0.00
182.00	3.26	1.08	0.00	0.00
183.00	3.26	1.08	0.00	0.00
184.00	3.26	1.08	0.00	0.00
185.00	3.26	1.08	0.00	0.00
186.00	3.26	1.08	0.00	0.00
187.00	3.26	1.08	0.00	0.00
188.00	3.26	1.08	0.00	0.00
189.00	3.26	1.08	0.00	0.00
190.00	3.26	1.08	0.00	0.00
191.00	3.26	1.08	0.00	0.00
192.00	3.26	1.08	0.00	0.00
193.00	3.26	1.08	0.00	0.00
194.00	3.26	1.08	0.00	0.00
195.00	3.26	1.08	0.00	0.00
196.00	3.26	1.08	0.00	0.00
197.00	3.26	1.08	0.00	0.00
198.00	3.26	1.08	0.00	0.00
199.00	3.26	1.08	0.00	0.00
200.00	3.26	1.08	0.00	0.00
201.00	3.26	1.08	0.00	0.00
202.00	3.26	1.08	0.00	0.00
203.00	3.26	1.08	0.00	0.00
204.00	3.26	1.08	0.00	0.00
205.00	3.26	1.08	0.00	0.00
206.00	3.26	1.08	0.00	0.00
207.00	3.26	1.08	0.00	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	3.26	1.08	0.00	0.00
209.00	3.26	1.08	0.00	0.00
210.00	3.26	1.08	0.00	0.00
211.00	3.26	1.08	0.00	0.00
212.00	3.26	1.08	0.00	0.00
213.00	3.26	1.08	0.00	0.00
214.00	3.26	1.08	0.00	0.00
215.00	3.26	1.08	0.00	0.00
216.00	3.26	1.08	0.00	0.00
217.00	3.26	1.08	0.00	0.00
218.00	3.26	1.08	0.00	0.00
219.00	3.26	1.08	0.00	0.00
220.00	3.26	1.08	0.00	0.00
221.00	3.26	1.08	0.00	0.00
222.00	3.26	1.08	0.00	0.00
223.00	3.26	1.08	0.00	0.00
224.00	3.26	1.08	0.00	0.00
225.00	3.26	1.08	0.00	0.00
226.00	3.26	1.08	0.00	0.00
227.00	3.26	1.08	0.00	0.00
228.00	3.26	1.08	0.00	0.00
229.00	3.26	1.08	0.00	0.00
230.00	3.26	1.08	0.00	0.00
231.00	3.26	1.08	0.00	0.00
232.00	3.26	1.08	0.00	0.00
233.00	3.26	1.08	0.00	0.00
234.00	3.26	1.08	0.00	0.00
235.00	3.26	1.08	0.00	0.00
236.00	3.26	1.08	0.00	0.00
237.00	3.26	1.08	0.00	0.00
238.00	3.26	1.08	0.00	0.00
239.00	3.26	1.08	0.00	0.00
240.00	3.26	1.08	0.00	0.00
241.00	3.26	1.08	0.00	0.00
242.00	3.26	1.08	0.00	0.00
243.00	3.26	1.08	0.00	0.00
244.00	3.26	1.08	0.00	0.00
245.00	3.26	1.08	0.00	0.00
246.00	3.26	1.08	0.00	0.00
247.00	3.26	1.08	0.00	0.00
248.00	3.26	1.08	0.00	0.00
249.00	3.26	1.08	0.00	0.00
250.00	3.26	1.08	0.00	0.00
251.00	3.26	1.08	0.00	0.00
252.00	3.26	1.08	0.00	0.00
253.00	3.26	1.08	0.00	0.00
254.00	3.26	1.08	0.00	0.00
255.00	3.26	1.08	0.00	0.00
256.00	3.26	1.08	0.00	0.00
257.00	3.26	1.08	0.00	0.00
258.00	3.26	1.08	0.00	0.00
259.00	3.26	1.08	0.00	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	3.26	1.08	0.00	0.00
261.00	3.26	1.08	0.00	0.00
262.00	3.26	1.08	0.00	0.00
263.00	3.26	1.08	0.00	0.00
264.00	3.26	1.08	0.00	0.00
265.00	3.26	1.08	0.00	0.00
266.00	3.26	1.08	0.00	0.00
267.00	3.26	1.08	0.00	0.00
268.00	3.26	1.08	0.00	0.00
269.00	3.26	1.08	0.00	0.00
270.00	3.26	1.08	0.00	0.00
271.00	3.26	1.08	0.00	0.00
272.00	3.26	1.08	0.00	0.00
273.00	3.26	1.08	0.00	0.00
274.00	3.26	1.08	0.00	0.00
275.00	3.26	1.08	0.00	0.00
276.00	3.26	1.08	0.00	0.00
277.00	3.26	1.08	0.00	0.00
278.00	3.26	1.08	0.00	0.00
279.00	3.26	1.08	0.00	0.00
280.00	3.26	1.08	0.00	0.00
281.00	3.26	1.08	0.00	0.00
282.00	3.26	1.08	0.00	0.00
283.00	3.26	1.08	0.00	0.00
284.00	3.26	1.08	0.00	0.00
285.00	3.26	1.08	0.00	0.00
286.00	3.26	1.08	0.00	0.00
287.00	3.26	1.08	0.00	0.00
288.00	3.26	1.08	0.00	0.00
289.00	3.26	1.08	0.00	0.00
290.00	3.26	1.08	0.00	0.00
291.00	3.26	1.08	0.00	0.00
292.00	3.26	1.08	0.00	0.00
293.00	3.26	1.08	0.00	0.00
294.00	3.26	1.08	0.00	0.00
295.00	3.26	1.08	0.00	0.00
296.00	3.26	1.08	0.00	0.00
297.00	3.26	1.08	0.00	0.00
298.00	3.26	1.08	0.00	0.00
299.00	3.26	1.08	0.00	0.00
300.00	3.26	1.08	0.00	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Summary for Pond 1P: Managed Release Rain Garden

50% IWS routing modeled with a 0.30*50% = 0.15 void space

Inflow Area =	0.800 ac, 100.00% Impervious, Inflow Depth = 3.03" for 2-yr NOAA event
Inflow =	2.77 cfs @ 12.13 hrs, Volume= 0.202 af
Outflow =	0.49 cfs @ 12.56 hrs, Volume= 0.202 af, Atten= 82%, Lag= 25.9 min
Discarded =	0.01 cfs @ 12.56 hrs, Volume= 0.088 af
Primary =	0.01 cfs @ 12.56 hrs, Volume= 0.061 af
Secondary =	0.47 cfs @ 12.56 hrs, Volume= 0.053 af
Tertiary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 Peak Elev= 1.15' @ 12.56 hrs Surf.Area= 3,049 sf Storage= 5,366 cf

Plug-Flow detention time= 1,860.6 min calculated for 0.202 af (100% of inflow)
 Center-of-Mass det. time= 1,860.8 min (2,617.9 - 757.2)

Volume	Invert	Avail.Storage	Storage Description
#1	-2.51'	11,007 cf	Rain Garden (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
-2.51	3,049	0.0	0	0
-1.51	3,049	15.0	457	457
-1.50	3,049	30.0	9	466
-0.01	3,049	30.0	1,363	1,829
0.00	3,049	100.0	30	1,860
3.00	3,049	100.0	9,147	11,007

Device	Routing	Invert	Outlet Devices
#1	Tertiary	2.00'	40.0' long x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64
#2	Primary	-1.50'	0.5" Vert. Orifice/Grate C= 0.600
#3	Secondary	1.10'	11.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Discarded	-2.51'	0.100 in/hr Infiltration (minimal) over Horizontal area Conductivity to Groundwater Elevation = -10.00'

Discarded OutFlow Max=0.01 cfs @ 12.56 hrs HW=1.15' (Free Discharge)
 ↑4=**Infiltration (minimal)** (Controls 0.01 cfs)

Primary OutFlow Max=0.01 cfs @ 12.56 hrs HW=1.15' (Free Discharge)
 ↑2=**Orifice/Grate** (Orifice Controls 0.01 cfs @ 7.81 fps)

Secondary OutFlow Max=0.42 cfs @ 12.56 hrs HW=1.15' (Free Discharge)
 ↑3=**Sharp-Crested Rectangular Weir**(Weir Controls 0.42 cfs @ 0.73 fps)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=-2.51' (Free Discharge)
 ↑1=**Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

MRC Example 1

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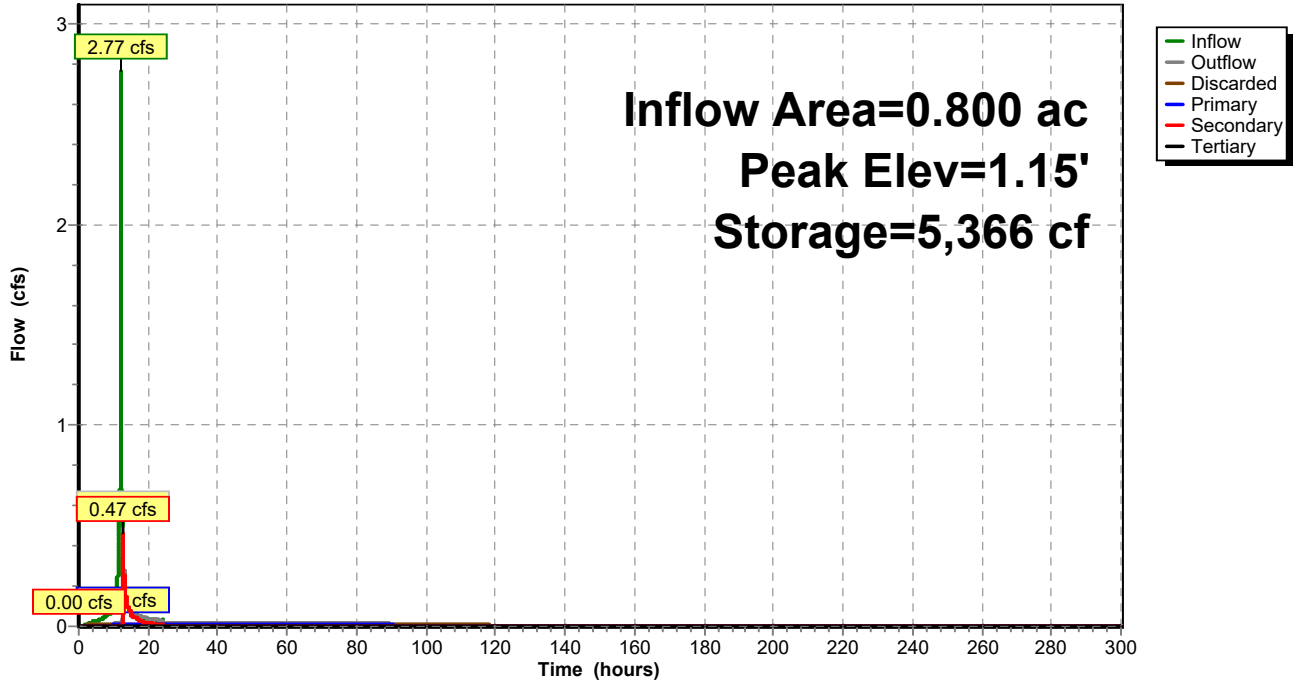
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NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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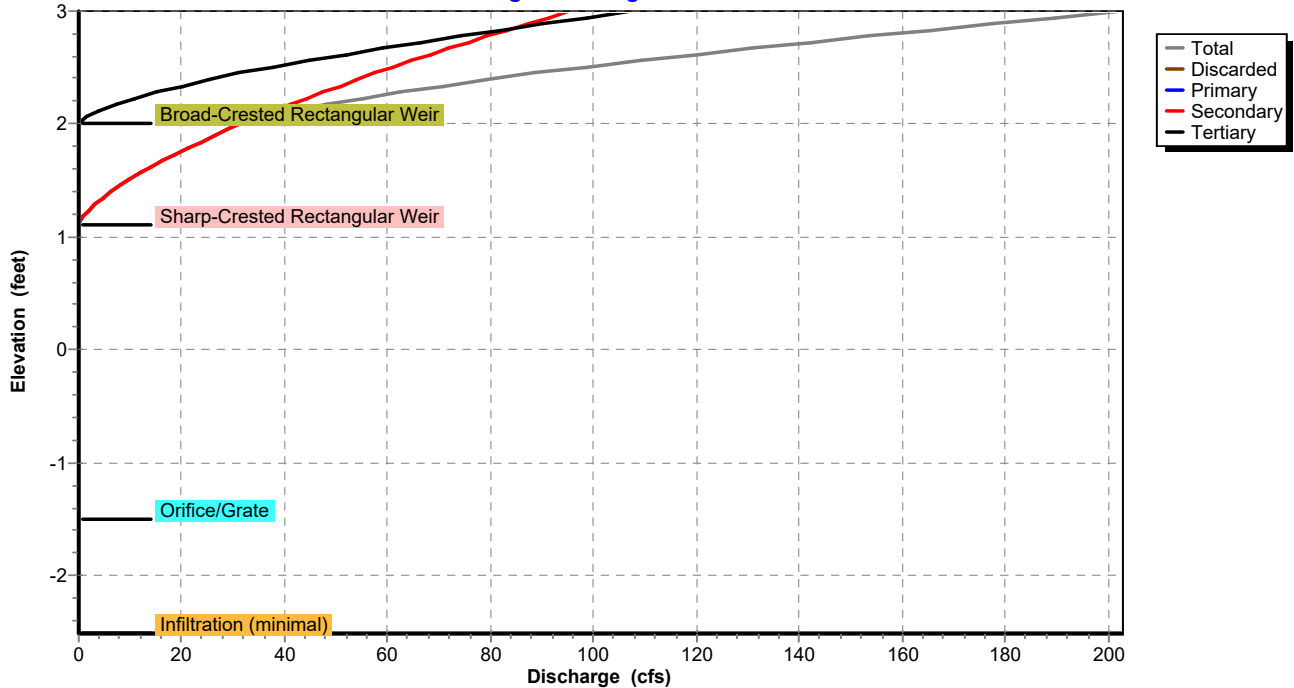
Pond 1P: Managed Release Rain Garden

Hydrograph



Pond 1P: Managed Release Rain Garden

Stage-Discharge



MRC Example 1

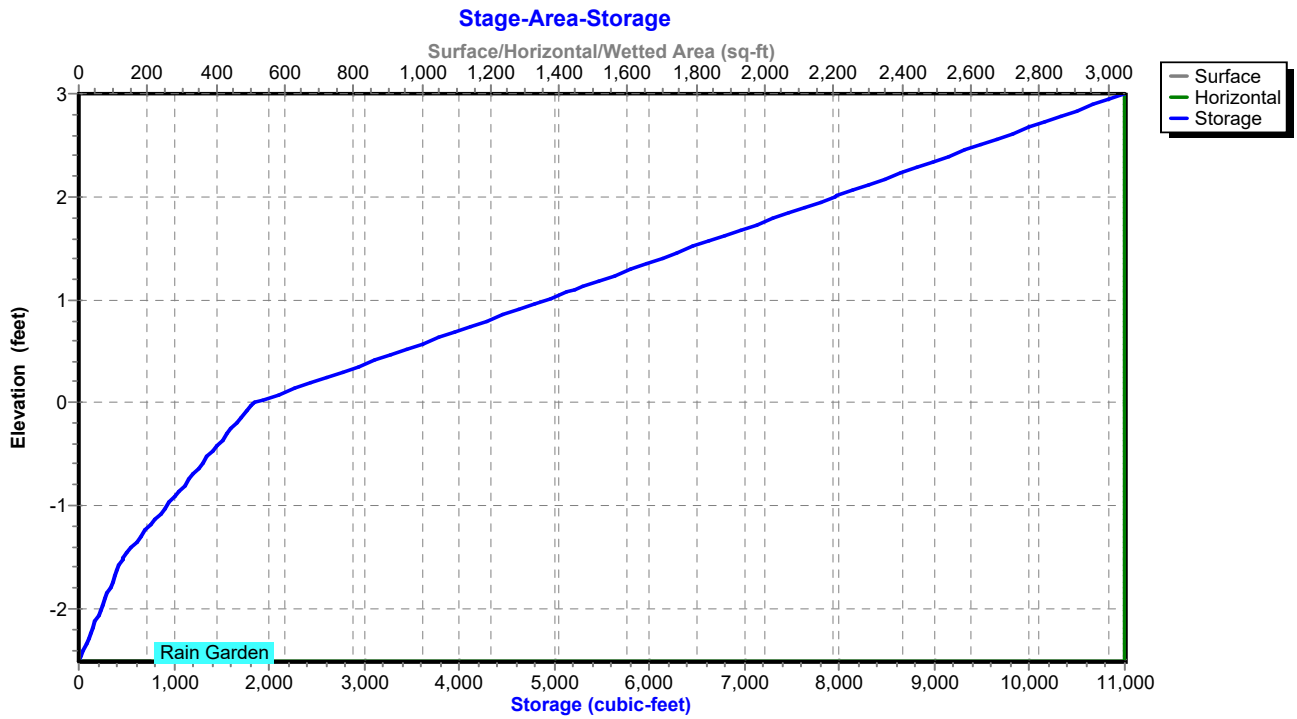
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NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Pond 1P: Managed Release Rain Garden



MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Pond 1P: Managed Release Rain Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
0.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
2.00	0.01	8	-2.49	0.00	0.00	0.00	0.00	0.00
3.00	0.02	31	-2.44	0.01	0.01	0.00	0.00	0.00
4.00	0.02	73	-2.35	0.01	0.01	0.00	0.00	0.00
5.00	0.03	135	-2.21	0.01	0.01	0.00	0.00	0.00
6.00	0.03	216	-2.04	0.01	0.01	0.00	0.00	0.00
7.00	0.04	322	-1.81	0.01	0.01	0.00	0.00	0.00
8.00	0.05	468	-1.50	0.01	0.01	0.00	0.00	0.00
9.00	0.07	648	-1.30	0.01	0.01	0.00	0.00	0.00
10.00	0.10	906	-1.02	0.01	0.01	0.00	0.00	0.00
11.00	0.19	1,339	-0.55	0.02	0.01	0.01	0.00	0.00
12.00	1.53	2,962	0.36	0.02	0.01	0.01	0.00	0.00
13.00	0.25	5,314	1.13	0.27	0.01	0.01	0.24	0.00
14.00	0.12	5,265	1.12	0.12	0.01	0.01	0.10	0.00
15.00	0.08	5,245	1.11	0.08	0.01	0.01	0.06	0.00
16.00	0.06	5,236	1.11	0.07	0.01	0.01	0.04	0.00
17.00	0.05	5,231	1.11	0.06	0.01	0.01	0.03	0.00
18.00	0.04	5,226	1.10	0.05	0.01	0.01	0.02	0.00
19.00	0.04	5,223	1.10	0.04	0.01	0.01	0.02	0.00
20.00	0.04	5,222	1.10	0.04	0.01	0.01	0.02	0.00
21.00	0.03	5,221	1.10	0.04	0.01	0.01	0.01	0.00
22.00	0.03	5,220	1.10	0.03	0.01	0.01	0.01	0.00
23.00	0.03	5,218	1.10	0.03	0.01	0.01	0.01	0.00
24.00	0.03	5,217	1.10	0.03	0.01	0.01	0.01	0.00
25.00	0.00	5,150	1.08	0.02	0.01	0.01	0.00	0.00
26.00	0.00	5,074	1.05	0.02	0.01	0.01	0.00	0.00
27.00	0.00	4,999	1.03	0.02	0.01	0.01	0.00	0.00
28.00	0.00	4,925	1.01	0.02	0.01	0.01	0.00	0.00
29.00	0.00	4,850	0.98	0.02	0.01	0.01	0.00	0.00
30.00	0.00	4,776	0.96	0.02	0.01	0.01	0.00	0.00
31.00	0.00	4,702	0.93	0.02	0.01	0.01	0.00	0.00
32.00	0.00	4,628	0.91	0.02	0.01	0.01	0.00	0.00
33.00	0.00	4,555	0.88	0.02	0.01	0.01	0.00	0.00
34.00	0.00	4,482	0.86	0.02	0.01	0.01	0.00	0.00
35.00	0.00	4,409	0.84	0.02	0.01	0.01	0.00	0.00
36.00	0.00	4,337	0.81	0.02	0.01	0.01	0.00	0.00
37.00	0.00	4,264	0.79	0.02	0.01	0.01	0.00	0.00
38.00	0.00	4,192	0.76	0.02	0.01	0.01	0.00	0.00
39.00	0.00	4,120	0.74	0.02	0.01	0.01	0.00	0.00
40.00	0.00	4,049	0.72	0.02	0.01	0.01	0.00	0.00
41.00	0.00	3,978	0.69	0.02	0.01	0.01	0.00	0.00
42.00	0.00	3,907	0.67	0.02	0.01	0.01	0.00	0.00
43.00	0.00	3,836	0.65	0.02	0.01	0.01	0.00	0.00
44.00	0.00	3,765	0.62	0.02	0.01	0.01	0.00	0.00
45.00	0.00	3,695	0.60	0.02	0.01	0.01	0.00	0.00
46.00	0.00	3,625	0.58	0.02	0.01	0.01	0.00	0.00
47.00	0.00	3,556	0.56	0.02	0.01	0.01	0.00	0.00
48.00	0.00	3,486	0.53	0.02	0.01	0.01	0.00	0.00
49.00	0.00	3,417	0.51	0.02	0.01	0.01	0.00	0.00
50.00	0.00	3,348	0.49	0.02	0.01	0.01	0.00	0.00
51.00	0.00	3,280	0.47	0.02	0.01	0.01	0.00	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
52.00	0.00	3,211	0.44	0.02	0.01	0.01	0.00	0.00
53.00	0.00	3,143	0.42	0.02	0.01	0.01	0.00	0.00
54.00	0.00	3,075	0.40	0.02	0.01	0.01	0.00	0.00
55.00	0.00	3,008	0.38	0.02	0.01	0.01	0.00	0.00
56.00	0.00	2,941	0.35	0.02	0.01	0.01	0.00	0.00
57.00	0.00	2,874	0.33	0.02	0.01	0.01	0.00	0.00
58.00	0.00	2,807	0.31	0.02	0.01	0.01	0.00	0.00
59.00	0.00	2,740	0.29	0.02	0.01	0.01	0.00	0.00
60.00	0.00	2,674	0.27	0.02	0.01	0.01	0.00	0.00
61.00	0.00	2,608	0.25	0.02	0.01	0.01	0.00	0.00
62.00	0.00	2,543	0.22	0.02	0.01	0.01	0.00	0.00
63.00	0.00	2,477	0.20	0.02	0.01	0.01	0.00	0.00
64.00	0.00	2,412	0.18	0.02	0.01	0.01	0.00	0.00
65.00	0.00	2,347	0.16	0.02	0.01	0.01	0.00	0.00
66.00	0.00	2,283	0.14	0.02	0.01	0.01	0.00	0.00
67.00	0.00	2,218	0.12	0.02	0.01	0.01	0.00	0.00
68.00	0.00	2,154	0.10	0.02	0.01	0.01	0.00	0.00
69.00	0.00	2,091	0.08	0.02	0.01	0.01	0.00	0.00
70.00	0.00	2,027	0.05	0.02	0.01	0.01	0.00	0.00
71.00	0.00	1,964	0.03	0.02	0.01	0.01	0.00	0.00
72.00	0.00	1,901	0.01	0.02	0.01	0.01	0.00	0.00
73.00	0.00	1,838	-0.01	0.02	0.01	0.01	0.00	0.00
74.00	0.00	1,776	-0.07	0.02	0.01	0.01	0.00	0.00
75.00	0.00	1,715	-0.14	0.02	0.01	0.01	0.00	0.00
76.00	0.00	1,654	-0.20	0.02	0.01	0.01	0.00	0.00
77.00	0.00	1,595	-0.27	0.02	0.01	0.01	0.00	0.00
78.00	0.00	1,536	-0.33	0.02	0.01	0.01	0.00	0.00
79.00	0.00	1,478	-0.39	0.02	0.01	0.01	0.00	0.00
80.00	0.00	1,422	-0.46	0.02	0.01	0.01	0.00	0.00
81.00	0.00	1,366	-0.52	0.02	0.01	0.01	0.00	0.00
82.00	0.00	1,311	-0.58	0.02	0.01	0.01	0.00	0.00
83.00	0.00	1,257	-0.64	0.01	0.01	0.01	0.00	0.00
84.00	0.00	1,204	-0.69	0.01	0.01	0.01	0.00	0.00
85.00	0.00	1,152	-0.75	0.01	0.01	0.01	0.00	0.00
86.00	0.00	1,101	-0.81	0.01	0.01	0.01	0.00	0.00
87.00	0.00	1,051	-0.86	0.01	0.01	0.01	0.00	0.00
88.00	0.00	1,002	-0.91	0.01	0.01	0.00	0.00	0.00
89.00	0.00	954	-0.97	0.01	0.01	0.00	0.00	0.00
90.00	0.00	907	-1.02	0.01	0.01	0.00	0.00	0.00
91.00	0.00	861	-1.07	0.01	0.01	0.00	0.00	0.00
92.00	0.00	816	-1.12	0.01	0.01	0.00	0.00	0.00
93.00	0.00	772	-1.17	0.01	0.01	0.00	0.00	0.00
94.00	0.00	729	-1.21	0.01	0.01	0.00	0.00	0.00
95.00	0.00	688	-1.26	0.01	0.01	0.00	0.00	0.00
96.00	0.00	648	-1.30	0.01	0.01	0.00	0.00	0.00
97.00	0.00	609	-1.34	0.01	0.01	0.00	0.00	0.00
98.00	0.00	572	-1.38	0.01	0.01	0.00	0.00	0.00
99.00	0.00	536	-1.42	0.01	0.01	0.00	0.00	0.00
100.00	0.00	503	-1.46	0.01	0.01	0.00	0.00	0.00
101.00	0.00	472	-1.49	0.01	0.01	0.00	0.00	0.00
102.00	0.00	444	-1.54	0.01	0.01	0.00	0.00	0.00
103.00	0.00	415	-1.60	0.01	0.01	0.00	0.00	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
104.00	0.00	387	-1.66	0.01	0.01	0.00	0.00	0.00
105.00	0.00	358	-1.73	0.01	0.01	0.00	0.00	0.00
106.00	0.00	330	-1.79	0.01	0.01	0.00	0.00	0.00
107.00	0.00	303	-1.85	0.01	0.01	0.00	0.00	0.00
108.00	0.00	275	-1.91	0.01	0.01	0.00	0.00	0.00
109.00	0.00	248	-1.97	0.01	0.01	0.00	0.00	0.00
110.00	0.00	221	-2.03	0.01	0.01	0.00	0.00	0.00
111.00	0.00	194	-2.09	0.01	0.01	0.00	0.00	0.00
112.00	0.00	167	-2.15	0.01	0.01	0.00	0.00	0.00
113.00	0.00	140	-2.20	0.01	0.01	0.00	0.00	0.00
114.00	0.00	114	-2.26	0.01	0.01	0.00	0.00	0.00
115.00	0.00	88	-2.32	0.01	0.01	0.00	0.00	0.00
116.00	0.00	62	-2.37	0.01	0.01	0.00	0.00	0.00
117.00	0.00	36	-2.43	0.01	0.01	0.00	0.00	0.00
118.00	0.00	14	-2.48	0.00	0.00	0.00	0.00	0.00
119.00	0.00	5	-2.50	0.00	0.00	0.00	0.00	0.00
120.00	0.00	2	-2.51	0.00	0.00	0.00	0.00	0.00
121.00	0.00	1	-2.51	0.00	0.00	0.00	0.00	0.00
122.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
123.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
124.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
125.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
126.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
127.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
128.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
129.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
130.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
131.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
132.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
133.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
134.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
135.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
136.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
137.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
138.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
139.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
140.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
141.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
142.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
143.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
144.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
145.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
146.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
147.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
148.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
149.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
150.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
151.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
152.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
153.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
154.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
155.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
156.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
157.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
158.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
159.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
160.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
161.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
162.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
163.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
164.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
165.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
166.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
167.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
168.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
169.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
170.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
171.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
172.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
173.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
174.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
175.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
176.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
177.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
178.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
179.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
180.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
181.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
182.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
183.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
184.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
185.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
186.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
187.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
188.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
189.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
190.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
191.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
192.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
193.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
194.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
195.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
196.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
197.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
198.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
199.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
201.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
202.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
203.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
204.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
205.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
206.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
207.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
208.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
209.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
210.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
211.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
212.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
213.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
214.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
215.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
216.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
217.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
218.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
219.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
220.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
221.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
222.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
223.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
224.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
225.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
226.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
227.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
228.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
229.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
230.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
231.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
232.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
233.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
234.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
235.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
236.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
237.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
238.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
239.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
240.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
241.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
242.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
243.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
244.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
245.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
246.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
247.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
248.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
249.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
250.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
251.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
252.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
253.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
254.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
255.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
256.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
257.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
258.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
259.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00

MRC Example 1

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Pond 1P: Managed Release Rain Garden (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
260.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
261.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
262.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
263.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
264.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
265.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
266.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
267.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
268.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
269.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
270.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
271.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
272.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
273.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
274.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
275.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
276.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
277.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
278.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
279.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
280.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
281.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
282.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
283.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
284.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
285.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
286.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
287.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
288.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
289.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
290.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
291.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
292.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
293.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
294.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
295.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
296.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
297.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
298.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
299.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0	-2.51	0.00	0.00	0.00	0.00	0.00