ENGINEER'S REPORT

359 Quaker Road
Town of Aurora, Erie County, New York 14052

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GPI Certificate of Authorization To
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December 2025

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I. Introduction

The proposed development of 359 Quaker Road (SBL: 175.06-3-9) is located in the Town of Aurora, Erie County, New York in Lot 39, Township 9, Range 6 of the Holland Land Survey. The 0.70± acre parcel is bounded on the north by the Quaker Road Right-Of-Way (ROW) (US 20A), on the east by 270 Quaker Road now or formerly owned by API Delevan, Inc. (SBL: 175.06-3-10), and on the south and west by 400 Quaker Road now or formally owned by 3095 Southwestern Boulevard, Inc. (SBL: 175.06-3-8).

The proposed medical offices (dental) development consists of removing the existing building and parking area and installing a new 5,453± ft² one-story building and a new parking area consisting of 27 new parking spaces (including 2 van accessible handicap spaces). The project is anticipated for a construction start in the spring of 2026.

Sanitary sewage service will be provided by a new six-inch polyvinyl chloride (PVC) sewer lateral. The sanitary sewer flows from the site will be tributary to the Erie County Sewer District (ECSD) #8 East Aurora Water Resource Recovery Facility (WRRF) located on Mill Road roughly 1,200-feet to the east of the project site.

Water service for domestic use will be provided by a new two-inch type 'K' copper service connecting to the existing Erie County Water Authority (ECWA) twenty-inch prestressed concrete cylinder pipe (PCCP) watermain along Quaker Road (US 20A). Fire protection for the site will be provided by the existing fire hydrant located in front of 270 Quaker Road.

Storm drainage for the proposed parking area will be diverted into a new stormwater conveyance system located within the proposed parking area and will outlet into the New York State Department of Transportation's (NYSDOT) existing storm sewer system within the Quaker Road ROW (US 20A) along the northern side of the property. All proposed stormwater facilities have been sized to accommodate the flow of the stormwater runoff from the design storm events.

The main text of this report summarizes the development of design. Detailed calculations and supplemental information, forms, etc. are located in the appendices.

II Discussion

A. Sanitary Sewers

1. System Description and Design Flows

The proposed building will be serviced by a six-inch PVC sewer lateral installed south of the Quaker Road ROW (US 20A) crossing through the property to the east within a twenty-foot private utility easement then crosses under Quaker Road (US 20A) to the existing sanitary manhole within the westbound lane. The existing sanitary manhole is owned and operated by the Village of East Aurora and is tributary to the East Aurora Water Resource Recovery Facility (WRRF) within ECSD #8. The East Aurora WRRF is roughly 1,200-feet east of the proposed site along Mill Street.

The estimated maximum flow rate for the proposed building is based on 250 gallons per day (gpd) per dental chair as per the New York State Design Standards for Intermediate Sized Wastewater Treatment Systems dated March 5th, 2014. The proposed building will have 7 dental chairs making the estimated maximum flow rate 1,750 gpd (7 dental chairs x 250 gpd per dental chair) or 0.00175 million gallons per day (mgd). With the peak design flow being less than 2,500 gpd, a downstream sanitary sewer capacity analysis is not required.

B. Water

1. Domestic System Description and Design Flows

Water service for domestic use will be provided by a new two-inch type 'K' copper waterline connecting to the ECWA existing twenty-inch prestressed concrete cylinder pipe (PCCP) watermain along Quaker Road (US 20A) and running to a new curb valve and box at the northerly property. From the curb box, the two-inch water service transitions to polyethylene tubing (DR-9) then runs to the proposed building's mechanical room located in the southeast corner of the proposed building.

The two-inch domestic water service to the building is sized to accommodate a peak instantaneous water demand of 42 gpm based on the various types and quantities of plumbing fixtures proposed for the Dental Office (See Appendix B).

To protect the public water supply from any potential cross contamination from the private water service, a backflow prevention device (RPZ) and water meter assembly will be installed inside the building. The RPZ and meter assembly will be designed by others.

2. Fire System Description and Design Flows

Fire protection for the proposed building will be provided by the existing hydrant in front of 270 Quaker Road approximately 250± feet northeast of the proposed building. The distance from the hydrant to the most remote portion of the proposed building (southwest corner) is approximately 475± feet. This exceeds the maximum distance of 400-feet per §507.5 Fire Hydrant Systems within the New York State Fire Code 2025. The Owner is currently seeking a variance from this code requirement through the NYS Department of State.

3. Hydraulic Analysis

Hydraulic modeling of the existing water distribution system and proposed water service was conducted using the Bentley product WaterCAD to determine if the system is capable of sufficiently supplying the site with adequate pressures under the various design flows. The model was calibrated to match the results of a hydrant flow test (dated June 17th 2019) performed by the Erie County Water Authority on the existing fire hydrant (residual) in front of 431 Quaker Road approximately 850-feet west of the project site and the existing fire hydrant (flow) in front of 25 Jewett Holmwood Road approximately 1,300-feet west of the project site. The results of their test are included in Appendix B and are summarized as follows: the main has a static pressure of 81 psi and 64 psi residual at the flow rate of 1,113 gpm during the hydrant flow test, with a flow of 2,219 gpm at the minimum required residual pressure of 20 psi. A water analysis was performed using this flow test data, the various flow scenarios concluded that there is sufficient pressure and flow available for the proposed development.

The results of the critical nodes within the model are displayed below:

Scenario	Water Service Residual Pressure at J-4	Distribution System Residual Pressure at Ex. Hyd. (270 Quaker Rd)
Maximum Demand	77	81
Max. Demand with Fire Flow	54	56

The required water distribution system design pressures per Section 8.2.1 of the "Recommended Standards for Waterworks, 2018 Edition" are as follows:

1. Minimum normal operation pressure: 35 psi
2. Maximum normal operation pressure: 80 psi
3. Minimum pressure in main under fire flow: 20 psi

As shown in the previous table, the system as modeled meets these requirements.

A full print out for the hydraulic model under various scenarios including tables and an exhibit map can be found in Appendix B.

C. Stormwater Management

1. Existing Conditions

The project site (0.70± acres) currently contains an 1,860± ft² commercial building, 11 parking spaces, and grass/wooded area surrounding the building and parking area. The topography of the project site is sloped towards Quaker Road (US 20A). Stormwater generally flows to the existing storm sewer system or to the south of the site. The project site consists of 0.57± acres of pervious area and 0.14± acres of impervious area (0.01± acres within the Quaker Road ROW (US 20A)).

According to the New York State Department of Environmental Conservation (NYSDEC) Environmental Resource Mapper, no portion of the project site contains any state regulated or federal wetlands. See Exhibit 2 – NYSDEC Environmental Resource Mapper.

The Federal Insurance Rate Maps (FIRM) for the Town of Aurora, Erie County, New York prepared by the Federal Emergency Management Agency Community Panel No. FM36029C0369H dated June 7th, 2019, indicates that the proposed project site contains no area within the 100-year floodplain. See Exhibit 3 – FEMA Firmette.

Based on the USDA Web Soil Survey, the site is considered to contain 97% Niagara silt loam (NfA) and 3% Canandaigua silt loam (Cc). It is assumed that this soil type has a hydraulic classification of "C/D" and the site is described as 100% poorly drained soil (See Exhibit 4 – Site Soil Map).

2. Post Developed Conditions

The post developed watershed boundary includes the same total drainage area as the pre-developed watershed. The stormwater from the proposed building and parking area will be conveyed to the new catch basins within the proposed parking area which drains to the NYSDOT existing catch basin within the Quaker Road ROW (US 20A). Within the proposed stormwater conveyance system, a two (2) foot deep flat bottom swale is proposed to mitigate some of the stormwater runoff from a portion of the building and the southern parking area. The catch basins within the southern parking area and most of the building's roof leaders are tributary to the proposed swale which will detain a portion of the runoff prior to discharging the excess stormwater into the northern part of the proposed stormwater conveyance system which ultimately discharges into the existing stormwater conveyance system within Quaker Road (US 20A). The proposed swale daylights the stormwater runoff and creates a delay in the peak runoff from the southern portion entering the northern portion of the proposed stormwater conveyance system. This delay allows for the existing storm sewers within Quaker Road (US 20A) to contain a lesser flow rate during the peaks of the storm events reducing the probability of flooding. The watershed delineation maps can be found

in Appendix A.

The proposed development will disturb approximately 0.54± acres (0.01± acres of total disturbance area is within Quaker Road ROW (US 20A) for pavement connection and restoration) and will consist of 0.31± acres of pervious area with 0.39± acres of impervious area. Because the proposed development is a redevelopment with a disturbance area less than one acre, only erosion and sediment control measures are required.

Hydrographs representing pre-development and post-development runoff have been generated using the Soil Conservation Service-TR-55 and TR-20 methodology utilizing HydroCAD software. Hydrographs for the 1, 10, 25, and 100-year storm events under existing conditions and the 1, 10, 25, and 100-year storm events under proposed conditions were generated and are included in Appendix A. The post developed discharge rates from the proposed stormwater conveyance system will not exceed the existing runoff rates for the 1-year, 10-year, 25-year, and 100-year storm events of the corresponding pre-development drainage area.

The following table summarizes these pre-development and post development peak runoff conditions for the project site:

Stormwater Runoff Summary			
	Pre-Development Peak Runoff Rate (cfs) (Link "PRE")	**Post Development Peak Runoff Rate (cfs) (Link "POST")**	**Proposed Swale High Water Elevation (ft) Top of Bank 902.00 (Pond "SWALE")**
1-Year	0.45	0.45	900.91
10-Year	1.07	0.93	901.23
25-Year	1.46	1.24	901.40
100-Year	2.29	2.11	901.93

3. NYSDEC SPDES General Permit

The proposed development will result in less than 1-acre of soil disturbance and therefore does not require a NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 or preparation of the associated Stormwater Pollution Prevention Plan (SWPPP). However, temporary erosion and sediment control measures were incorporated into the design plans.

APPENDIX A

STORMWATER CALCULATIONS AND MODELS

N

0 20' 40'
SCALE IN FEET

AREA TO QUAKER ROAD: 0.13± ACRES

AREA TO WESTERN PROPERTY: 0.30± ACRES

AREA TO EASTERN PROPERTY: 0.09± ACRES

AREA TO SOUTHERN PROPERTY: 0.17± ACRES

NYS ROUTE 20 QUAKER ROAD (WIDTH VARIES)

20' PRIVATE UTILITY EASEMENT

EAST LINE OF THE TOWN OF AURORA
WEST LINE OF THE VILLAGE OF EAST AURORA

FARRER LANE

ASPHALT DRIVEWAY

ASPHALT PARKING LOT

1 STORY FRAME BUILDING 369 QUAKER RD.

1 STORY GLASS & STUCCO BUILDING 400 QUAKER RD.

2 STORY BRICK OFFICE BUILDING 270 QUAKER RD.

(NOW OR FORMERLY) 3095 SOUTHWESTERN BLVD. INC. L.-11010, P.-406

(NOW OR FORMERLY) PBI HOLDINGS OF WNY LLC L.-11283, P.-427 AREA=0.69± ACRE

(NOW OR FORMERLY) API DELEVAN INC. L.-10914, P.-5766

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359 QUAKER ROAD MEDICAL OFFICES

359 Quaker Road
Town of Aurora, NY 14052

WARNING: ALTERATIONS TO THIS DOCUMENT NOT CONFORMING TO SECTION 7209, SUBDIVISION 2, STATE EDUCATION LAW, ARE PROHIBITED

REVISIONS			
NO.	REVISION	DATE	

October 2025

DRAWN/DESIGN BY	CHECKED BY
JS	JB

Pre-Development Drainage Areas

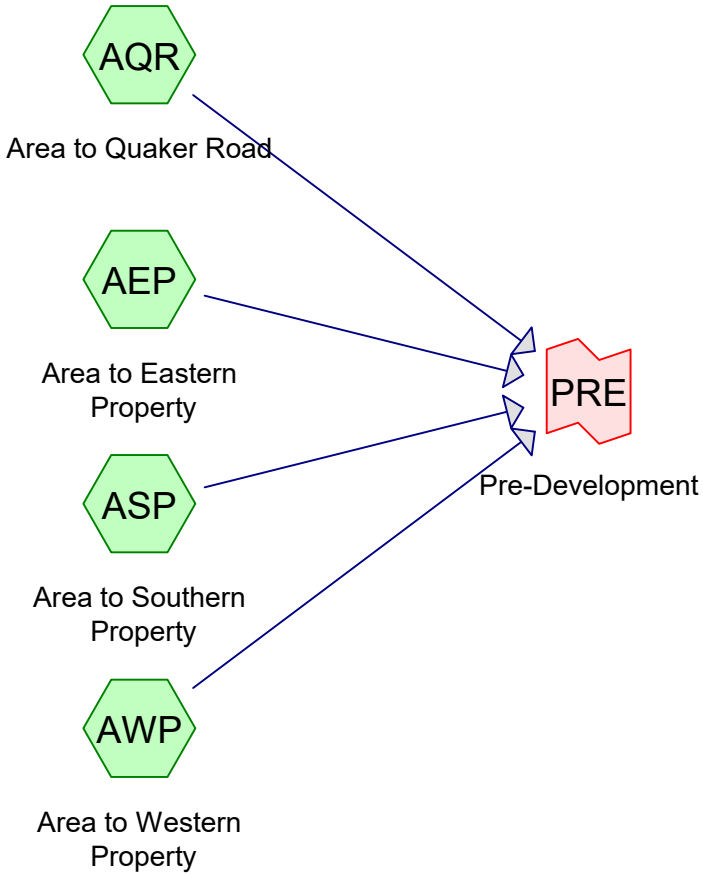
SCALE: 1" = 20'

WNY-2500056.00

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N:\2025\WNY-2500056.00_359 QUAKER ROAD SITE PLAN\Design\Engineering\Drainage\WNY-2500056.00_Hydrology.dwg Monday, 1 December 2025 1:16PM

Pre-Development



Subcat Reach Pond Link

Routing Diagram for WNY-2500056.00_HydroCAD
Prepared by Greenman-Pedersen, Inc, Printed 12/18/2025
HydroCAD® 10.20-7a s/n 04560 © 2025 HydroCAD Software Solutions LLC

Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-yr	extreme_precip_tables_output (29) 24-hr S1	1-yr	Default	24.00	1	1.88	2
2	10-yr	extreme_precip_tables_output (29) 24-hr S1	10-yr	Default	24.00	1	3.14	2
3	25-yr	extreme_precip_tables_output (29) 24-hr S1	25-yr	Default	24.00	1	3.85	2
4	100-yr	extreme_precip_tables_output (29) 24-hr S1	100-yr	Default	24.00	1	5.25	2

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.550	80	>75% Grass cover, Good, HSG D (AEP, AQR, ASP, AWP)
0.140	98	Paved parking, HSG D (AEP, AQR)
0.690	**84**	**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
0.690	HSG D	AEP, AQR, ASP, AWP
0.000	Other	
0.690		**TOTAL AREA**

Ground Covers (selected 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	0.000	0.550	0.000	0.550	>75% Grass cover, Good	AEP, AQR, ASP, AWP
0.000	0.000	0.000	0.140	0.000	0.140	Paved parking	AEP, AQR
0.000	**0.000**	**0.000**	**0.690**	**0.000**	**0.690**	**TOTAL AREA**	

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment AEP: Area to Eastern Property Runoff Area=0.090 ac 44.44% Impervious Runoff Depth>0.87"
Flow Length=27' Slope=0.0521 '/' Tc=4.1 min CN=88 Runoff=0.13 cfs 0.007 af

Subcatchment AQR: Area to Quaker Road Runoff Area=0.130 ac 76.92% Impervious Runoff Depth>1.28"
Flow Length=79' Tc=8.0 min CN=94 Runoff=0.24 cfs 0.014 af

Subcatchment ASP: Area to Southern Property Runoff Area=0.170 ac 0.00% Impervious Runoff Depth>0.49"
Flow Length=135' Slope=0.0138 '/' Tc=25.4 min CN=80 Runoff=0.06 cfs 0.007 af

Subcatchment AWP: Area to Western Property Runoff Area=0.300 ac 0.00% Impervious Runoff Depth>0.49"
Flow Length=89' Slope=0.0284 '/' Tc=13.6 min CN=80 Runoff=0.14 cfs 0.012 af

Link PRE: Pre-Development Inflow=0.45 cfs 0.040 af
Primary=0.45 cfs 0.040 af

Total Runoff Area = 0.690 ac Runoff Volume = 0.040 af Average Runoff Depth = 0.69"
79.71% Pervious = 0.550 ac 20.29% Impervious = 0.140 ac

Summary for Subcatchment AEP: Area to Eastern Property

Runoff = 0.13 cfs @ 12.02 hrs, Volume= 0.007 af, Depth> 0.87"
Routed to Link PRE : Pre-Development

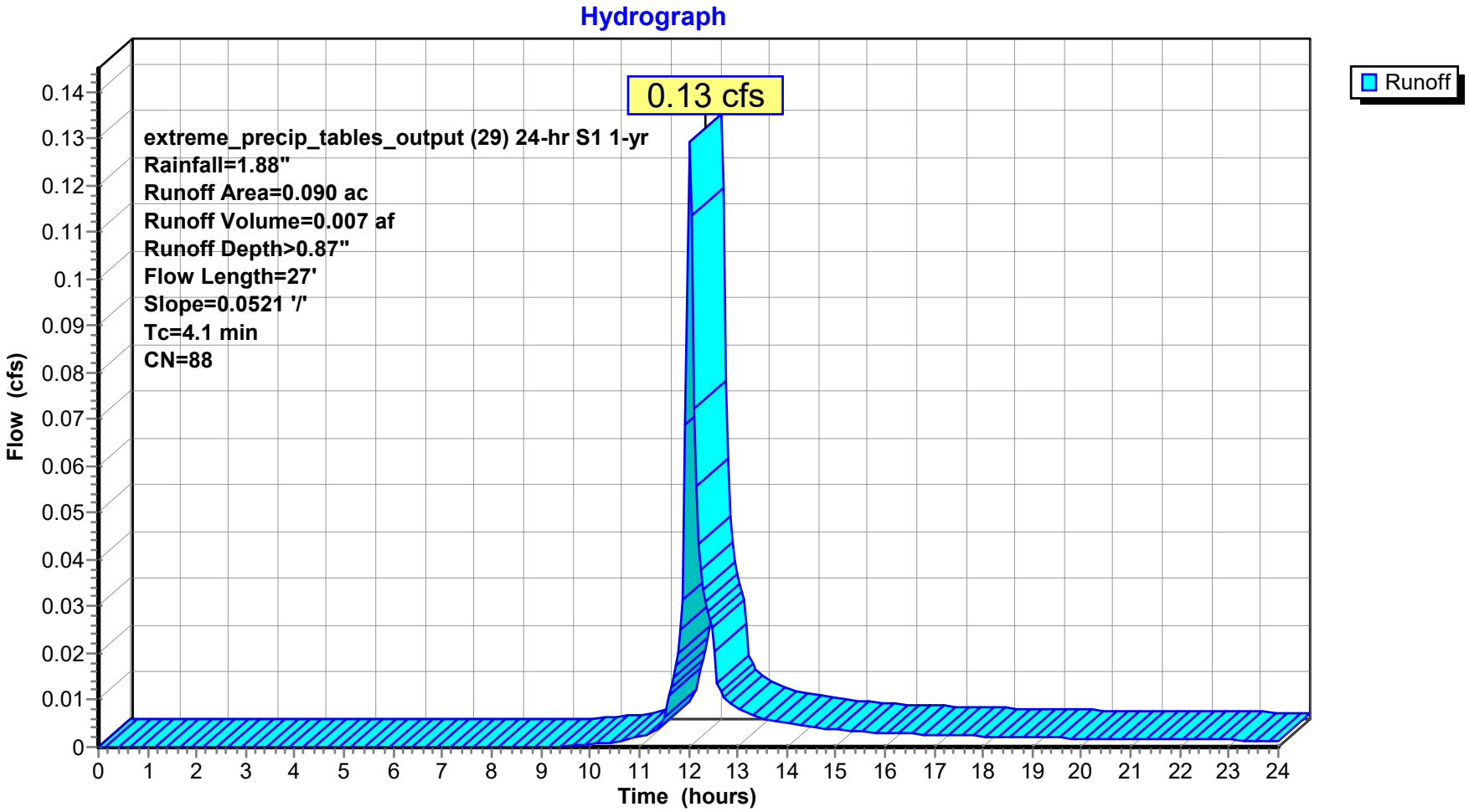
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 1-yr Rainfall=1.88"

Area (ac)	CN	Description
0.040	98	Paved parking, HSG D
0.050	80	>75% Grass cover, Good, HSG D
0.090	88	Weighted Average
0.050		55.56% Pervious Area
0.040		44.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	27	0.0521	0.11		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment AEP: Area to Eastern Property



Hydrograph for Subcatchment AEP: Area to Eastern Property

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.28	0.00	0.00	18.00	1.73	0.75	0.00
0.25	0.00	0.00	0.00	9.25	0.29	0.00	0.00	18.25	1.74	0.76	0.00
0.50	0.01	0.00	0.00	9.50	0.31	0.00	0.00	18.50	1.75	0.77	0.00
0.75	0.02	0.00	0.00	9.75	0.32	0.00	0.00	18.75	1.75	0.77	0.00
1.00	0.02	0.00	0.00	10.00	0.34	0.00	0.00	19.00	1.76	0.78	0.00
1.25	0.03	0.00	0.00	10.25	0.36	0.01	0.00	19.25	1.77	0.78	0.00
1.50	0.03	0.00	0.00	10.50	0.38	0.01	0.00	19.50	1.78	0.79	0.00
1.75	0.04	0.00	0.00	10.75	0.41	0.01	0.00	19.75	1.78	0.79	0.00
2.00	0.04	0.00	0.00	11.00	0.44	0.02	0.00	20.00	1.79	0.80	0.00
2.25	0.05	0.00	0.00	11.25	0.47	0.03	0.00	20.25	1.80	0.80	0.00
2.50	0.05	0.00	0.00	11.50	0.52	0.04	0.01	20.50	1.80	0.81	0.00
2.75	0.06	0.00	0.00	11.75	0.64	0.08	0.02	20.75	1.81	0.81	0.00
3.00	0.07	0.00	0.00	12.00	1.05	0.28	**0.13**	21.00	1.81	0.82	0.00
3.25	0.07	0.00	0.00	12.25	1.26	0.41	0.04	21.25	1.82	0.82	0.00
3.50	0.08	0.00	0.00	12.50	1.37	0.49	0.03	21.50	1.83	0.83	0.00
3.75	0.08	0.00	0.00	12.75	1.41	0.52	0.01	21.75	1.83	0.83	0.00
4.00	0.09	0.00	0.00	13.00	1.45	0.54	0.01	22.00	1.84	0.84	0.00
4.25	0.10	0.00	0.00	13.25	1.48	0.56	0.01	22.25	1.84	0.84	0.00
4.50	0.10	0.00	0.00	13.50	1.50	0.58	0.01	22.50	1.85	0.85	0.00
4.75	0.11	0.00	0.00	13.75	1.52	0.60	0.01	22.75	1.85	0.85	0.00
5.00	0.12	0.00	0.00	14.00	1.54	0.61	0.01	23.00	1.86	0.85	0.00
5.25	0.13	0.00	0.00	14.25	1.56	0.63	0.00	23.25	1.86	0.86	0.00
5.50	0.13	0.00	0.00	14.50	1.58	0.64	0.00	23.50	1.87	0.86	0.00
5.75	0.14	0.00	0.00	14.75	1.59	0.65	0.00	23.75	1.88	0.87	0.00
6.00	0.15	0.00	0.00	15.00	1.61	0.66	0.00	24.00	**1.88**	**0.87**	0.00
6.25	0.16	0.00	0.00	15.25	1.62	0.67	0.00				
6.50	0.17	0.00	0.00	15.50	1.63	0.68	0.00				
6.75	0.18	0.00	0.00	15.75	1.64	0.69	0.00				
7.00	0.19	0.00	0.00	16.00	1.66	0.70	0.00				
7.25	0.19	0.00	0.00	16.25	1.67	0.70	0.00				
7.50	0.20	0.00	0.00	16.50	1.68	0.71	0.00				
7.75	0.22	0.00	0.00	16.75	1.69	0.72	0.00				
8.00	0.23	0.00	0.00	17.00	1.70	0.73	0.00				
8.25	0.24	0.00	0.00	17.25	1.71	0.73	0.00				
8.50	0.25	0.00	0.00	17.50	1.71	0.74	0.00				
8.75	0.26	0.00	0.00	17.75	1.72	0.75	0.00				

Summary for Subcatchment AQR: Area to Quaker Road

Runoff = 0.24 cfs @ 12.06 hrs, Volume= 0.014 af, Depth> 1.28"
Routed to Link PRE : Pre-Development

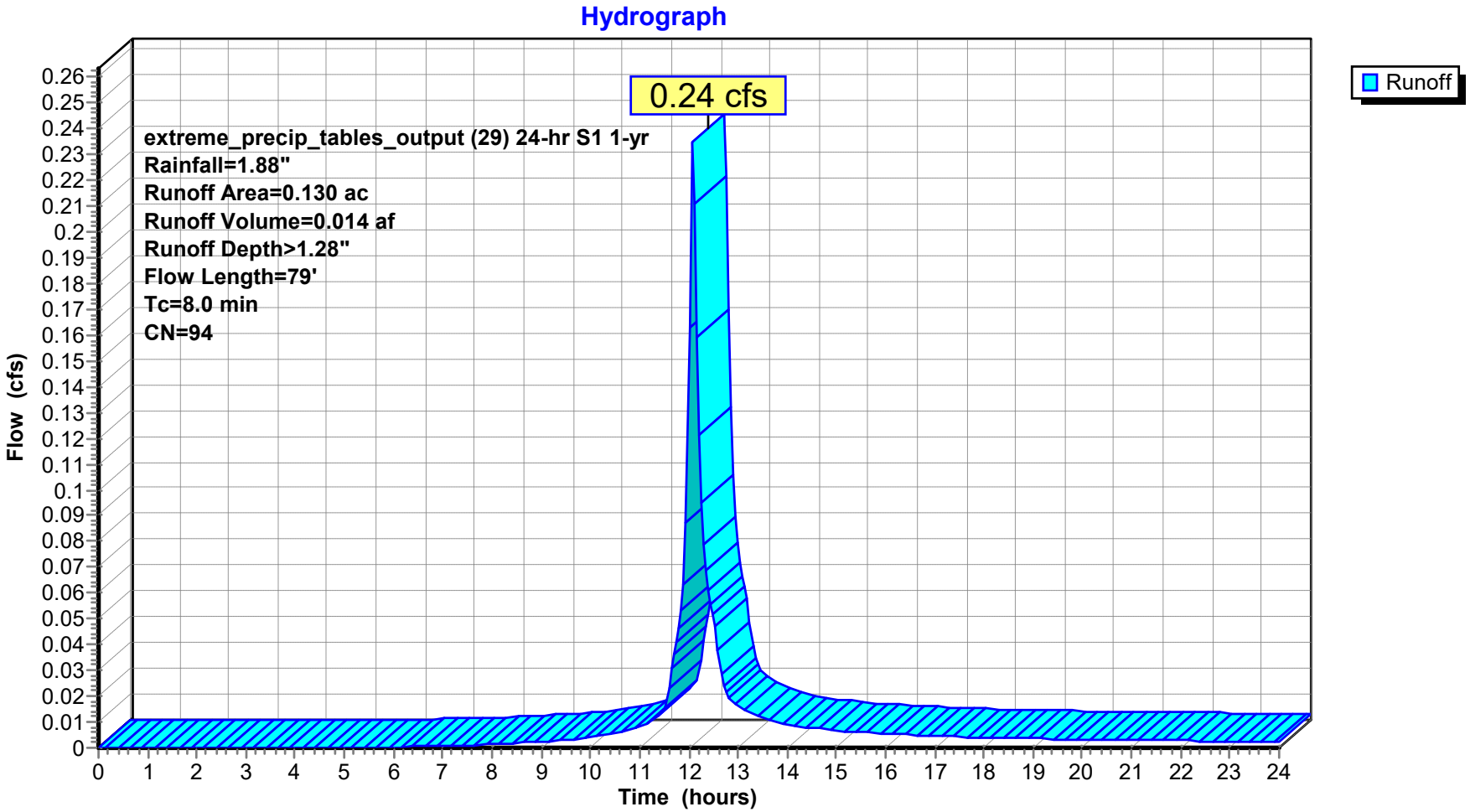
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 1-yr Rainfall=1.88"

Area (ac)	CN	Description
0.100	98	Paved parking, HSG D
0.030	80	>75% Grass cover, Good, HSG D
0.130	94	Weighted Average
0.030		23.08% Pervious Area
0.100		76.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	18	0.0408	0.09		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"
0.7	37	0.0196	0.93		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"
4.0	24	0.0429	0.10		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"
8.0	79	Total			



Subcatchment AQR: Area to Quaker Road



Hydrograph for Subcatchment AQR: Area to Quaker Road

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.28	0.03	0.00	18.00	1.73	1.15	0.00
0.25	0.00	0.00	0.00	9.25	0.29	0.03	0.00	18.25	1.74	1.15	0.00
0.50	0.01	0.00	0.00	9.50	0.31	0.04	0.00	18.50	1.75	1.16	0.00
0.75	0.02	0.00	0.00	9.75	0.32	0.05	0.00	18.75	1.75	1.17	0.00
1.00	0.02	0.00	0.00	10.00	0.34	0.05	0.00	19.00	1.76	1.18	0.00
1.25	0.03	0.00	0.00	10.25	0.36	0.06	0.00	19.25	1.77	1.18	0.00
1.50	0.03	0.00	0.00	10.50	0.38	0.07	0.01	19.50	1.78	1.19	0.00
1.75	0.04	0.00	0.00	10.75	0.41	0.09	0.01	19.75	1.78	1.19	0.00
2.00	0.04	0.00	0.00	11.00	0.44	0.10	0.01	20.00	1.79	1.20	0.00
2.25	0.05	0.00	0.00	11.25	0.47	0.12	0.01	20.25	1.80	1.21	0.00
2.50	0.05	0.00	0.00	11.50	0.52	0.15	0.01	20.50	1.80	1.21	0.00
2.75	0.06	0.00	0.00	11.75	0.64	0.23	0.04	20.75	1.81	1.22	0.00
3.00	0.07	0.00	0.00	12.00	1.05	0.54	**0.16**	21.00	1.81	1.22	0.00
3.25	0.07	0.00	0.00	12.25	1.26	0.72	**0.10**	21.25	1.82	1.23	0.00
3.50	0.08	0.00	0.00	12.50	1.37	0.82	0.05	21.50	1.83	1.24	0.00
3.75	0.08	0.00	0.00	12.75	1.41	0.86	0.02	21.75	1.83	1.24	0.00
4.00	0.09	0.00	0.00	13.00	1.45	0.89	0.02	22.00	1.84	1.25	0.00
4.25	0.10	0.00	0.00	13.25	1.48	0.92	0.01	22.25	1.84	1.25	0.00
4.50	0.10	0.00	0.00	13.50	1.50	0.94	0.01	22.50	1.85	1.26	0.00
4.75	0.11	0.00	0.00	13.75	1.52	0.96	0.01	22.75	1.85	1.26	0.00
5.00	0.12	0.00	0.00	14.00	1.54	0.97	0.01	23.00	1.86	1.27	0.00
5.25	0.13	0.00	0.00	14.25	1.56	0.99	0.01	23.25	1.86	1.27	0.00
5.50	0.13	0.00	0.00	14.50	1.58	1.01	0.01	23.50	1.87	1.28	0.00
5.75	0.14	0.00	0.00	14.75	1.59	1.02	0.01	23.75	1.88	1.28	0.00
6.00	0.15	0.00	0.00	15.00	1.61	1.03	0.01	24.00	**1.88**	**1.28**	0.00
6.25	0.16	0.00	0.00	15.25	1.62	1.04	0.01				
6.50	0.17	0.00	0.00	15.50	1.63	1.06	0.01				
6.75	0.18	0.00	0.00	15.75	1.64	1.07	0.01				
7.00	0.19	0.00	0.00	16.00	1.66	1.08	0.01				
7.25	0.19	0.01	0.00	16.25	1.67	1.09	0.01				
7.50	0.20	0.01	0.00	16.50	1.68	1.10	0.00				
7.75	0.22	0.01	0.00	16.75	1.69	1.11	0.00				
8.00	0.23	0.01	0.00	17.00	1.70	1.11	0.00				
8.25	0.24	0.02	0.00	17.25	1.71	1.12	0.00				
8.50	0.25	0.02	0.00	17.50	1.71	1.13	0.00				
8.75	0.26	0.02	0.00	17.75	1.72	1.14	0.00				

Summary for Subcatchment ASP: Area to Southern Property

Runoff = 0.06 cfs @ 12.35 hrs, Volume= 0.007 af, Depth> 0.49"
Routed to Link PRE : Pre-Development

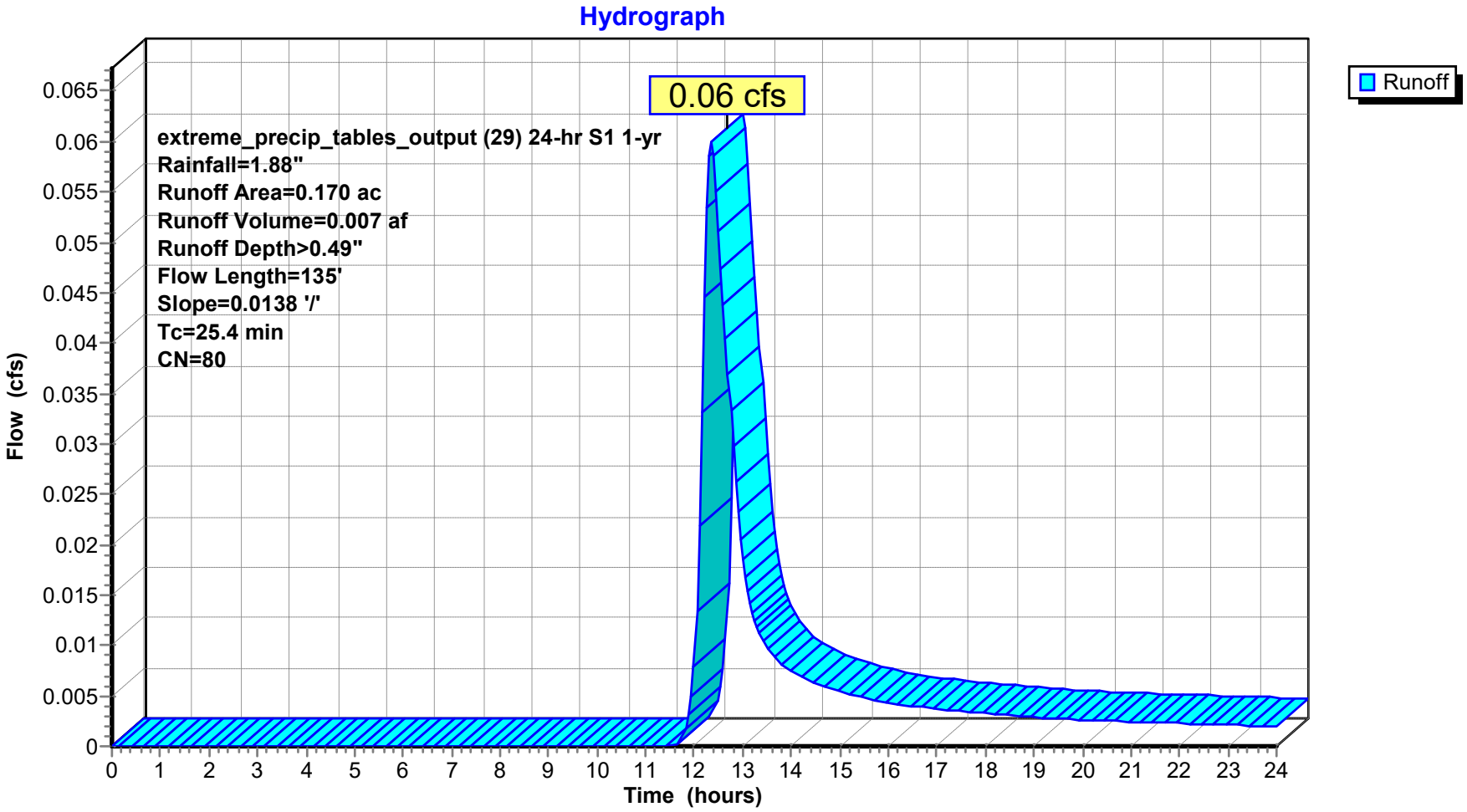
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 1-yr Rainfall=1.88"

Area (ac)	CN	Description
0.170	80	>75% Grass cover, Good, HSG D
0.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.4	135	0.0138	0.09		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment ASP: Area to Southern Property



Hydrograph for Subcatchment ASP: Area to Southern Property

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.28	0.00	0.00	18.00	1.73	0.41	0.00
0.25	0.00	0.00	0.00	9.25	0.29	0.00	0.00	18.25	1.74	0.41	0.00
0.50	0.01	0.00	0.00	9.50	0.31	0.00	0.00	18.50	1.75	0.41	0.00
0.75	0.02	0.00	0.00	9.75	0.32	0.00	0.00	18.75	1.75	0.42	0.00
1.00	0.02	0.00	0.00	10.00	0.34	0.00	0.00	19.00	1.76	0.42	0.00
1.25	0.03	0.00	0.00	10.25	0.36	0.00	0.00	19.25	1.77	0.43	0.00
1.50	0.03	0.00	0.00	10.50	0.38	0.00	0.00	19.50	1.78	0.43	0.00
1.75	0.04	0.00	0.00	10.75	0.41	0.00	0.00	19.75	1.78	0.44	0.00
2.00	0.04	0.00	0.00	11.00	0.44	0.00	0.00	20.00	1.79	0.44	0.00
2.25	0.05	0.00	0.00	11.25	0.47	0.00	0.00	20.25	1.80	0.44	0.00
2.50	0.05	0.00	0.00	11.50	0.52	0.00	0.00	20.50	1.80	0.45	0.00
2.75	0.06	0.00	0.00	11.75	0.64	0.01	0.00	20.75	1.81	0.45	0.00
3.00	0.07	0.00	0.00	12.00	1.05	0.10	0.01	21.00	1.81	0.45	0.00
3.25	0.07	0.00	0.00	12.25	1.26	0.18	**0.05**	21.25	1.82	0.46	0.00
3.50	0.08	0.00	0.00	12.50	1.37	0.22	**0.05**	21.50	1.83	0.46	0.00
3.75	0.08	0.00	0.00	12.75	1.41	0.24	0.03	21.75	1.83	0.46	0.00
4.00	0.09	0.00	0.00	13.00	1.45	0.26	0.02	22.00	1.84	0.47	0.00
4.25	0.10	0.00	0.00	13.25	1.48	0.27	0.01	22.25	1.84	0.47	0.00
4.50	0.10	0.00	0.00	13.50	1.50	0.29	0.01	22.50	1.85	0.47	0.00
4.75	0.11	0.00	0.00	13.75	1.52	0.30	0.01	22.75	1.85	0.48	0.00
5.00	0.12	0.00	0.00	14.00	1.54	0.31	0.01	23.00	1.86	0.48	0.00
5.25	0.13	0.00	0.00	14.25	1.56	0.32	0.01	23.25	1.86	0.48	0.00
5.50	0.13	0.00	0.00	14.50	1.58	0.32	0.01	23.50	1.87	0.49	0.00
5.75	0.14	0.00	0.00	14.75	1.59	0.33	0.01	23.75	1.88	0.49	0.00
6.00	0.15	0.00	0.00	15.00	1.61	0.34	0.01	24.00	**1.88**	**0.49**	0.00
6.25	0.16	0.00	0.00	15.25	1.62	0.35	0.01				
6.50	0.17	0.00	0.00	15.50	1.63	0.35	0.00				
6.75	0.18	0.00	0.00	15.75	1.64	0.36	0.00				
7.00	0.19	0.00	0.00	16.00	1.66	0.37	0.00				
7.25	0.19	0.00	0.00	16.25	1.67	0.37	0.00				
7.50	0.20	0.00	0.00	16.50	1.68	0.38	0.00				
7.75	0.22	0.00	0.00	16.75	1.69	0.38	0.00				
8.00	0.23	0.00	0.00	17.00	1.70	0.39	0.00				
8.25	0.24	0.00	0.00	17.25	1.71	0.39	0.00				
8.50	0.25	0.00	0.00	17.50	1.71	0.40	0.00				
8.75	0.26	0.00	0.00	17.75	1.72	0.40	0.00				

Summary for Subcatchment AWP: Area to Western Property

Runoff = 0.14 cfs @ 12.16 hrs, Volume= 0.012 af, Depth> 0.49"
Routed to Link PRE : Pre-Development

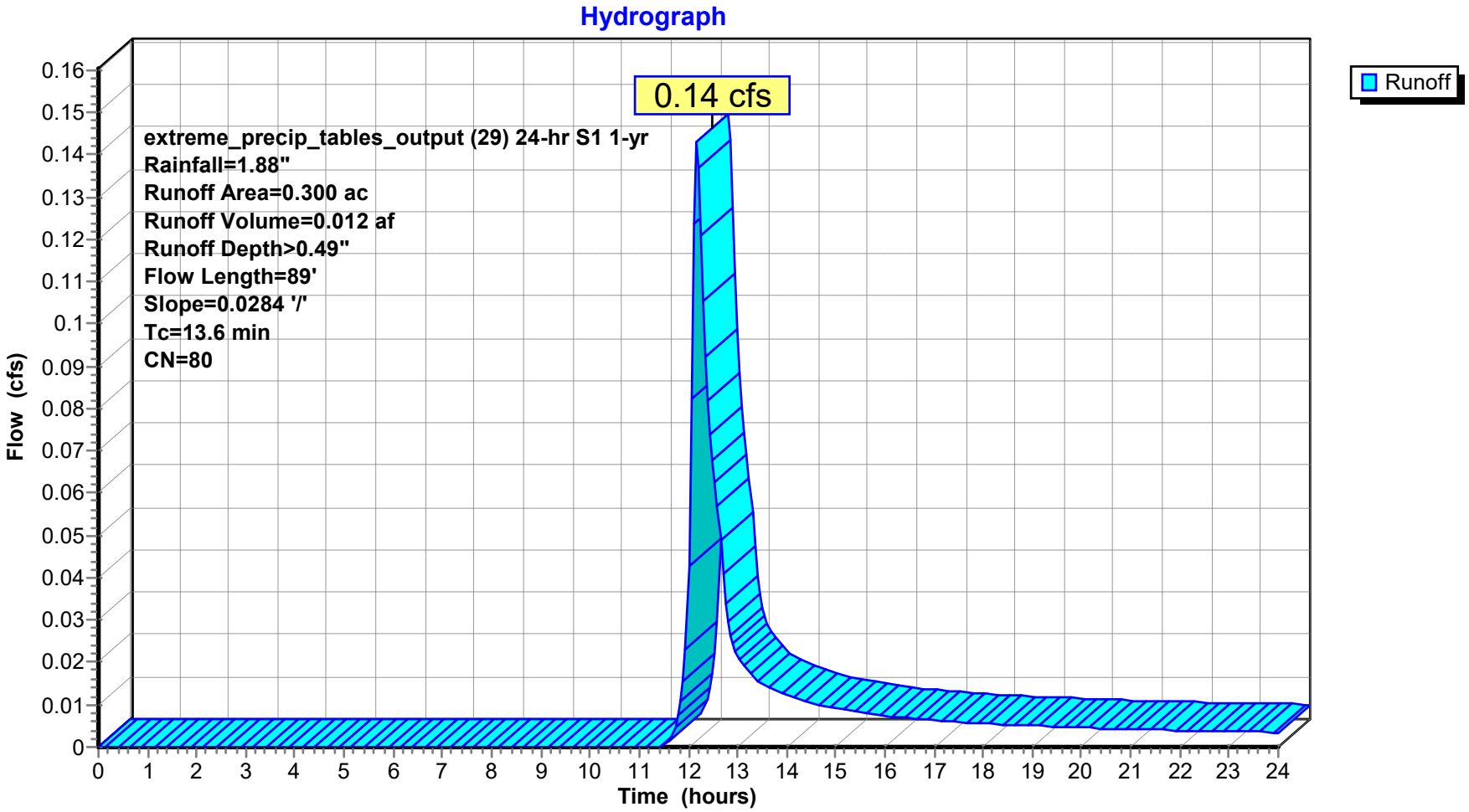
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 1-yr Rainfall=1.88"

Area (ac)	CN	Description
0.300	80	>75% Grass cover, Good, HSG D
0.300		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.6	89	0.0284	0.11		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment AWP: Area to Western Property



Hydrograph for Subcatchment AWP: Area to Western Property

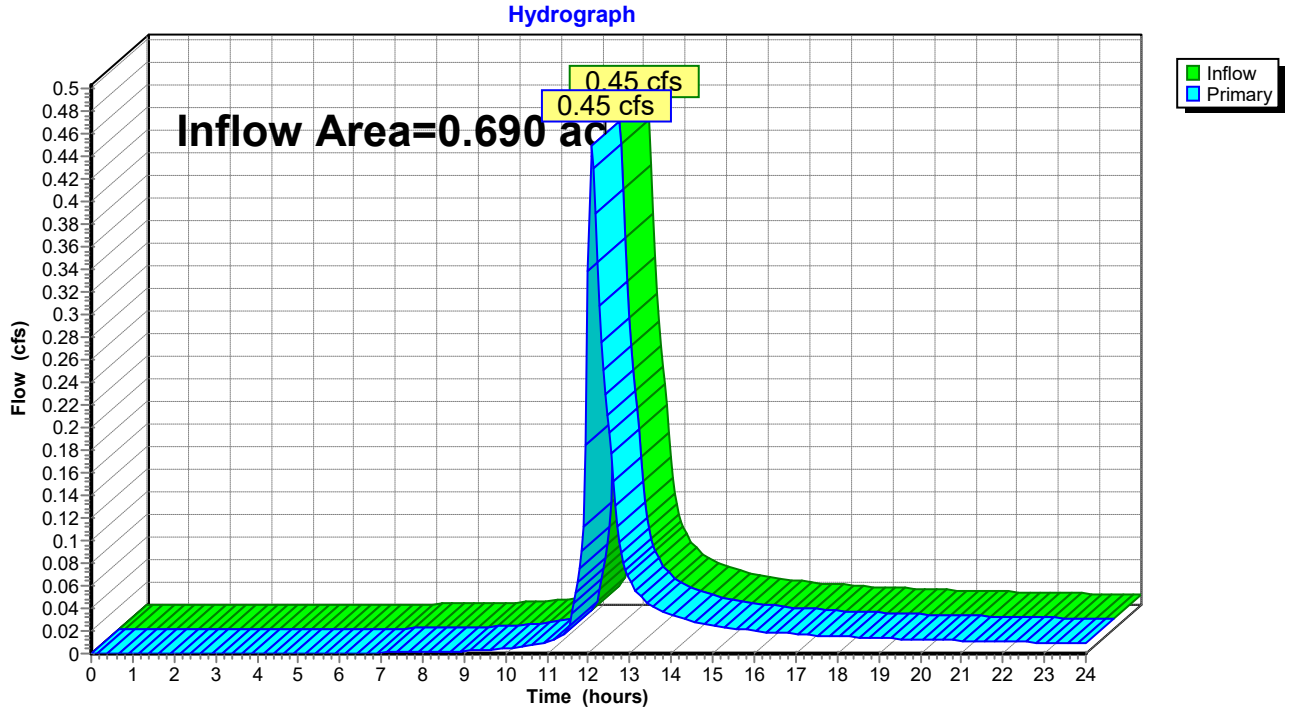
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.28	0.00	0.00	18.00	1.73	0.41	0.01
0.25	0.00	0.00	0.00	9.25	0.29	0.00	0.00	18.25	1.74	0.41	0.01
0.50	0.01	0.00	0.00	9.50	0.31	0.00	0.00	18.50	1.75	0.41	0.01
0.75	0.02	0.00	0.00	9.75	0.32	0.00	0.00	18.75	1.75	0.42	0.01
1.00	0.02	0.00	0.00	10.00	0.34	0.00	0.00	19.00	1.76	0.42	0.01
1.25	0.03	0.00	0.00	10.25	0.36	0.00	0.00	19.25	1.77	0.43	0.00
1.50	0.03	0.00	0.00	10.50	0.38	0.00	0.00	19.50	1.78	0.43	0.00
1.75	0.04	0.00	0.00	10.75	0.41	0.00	0.00	19.75	1.78	0.44	0.00
2.00	0.04	0.00	0.00	11.00	0.44	0.00	0.00	20.00	1.79	0.44	0.00
2.25	0.05	0.00	0.00	11.25	0.47	0.00	0.00	20.25	1.80	0.44	0.00
2.50	0.05	0.00	0.00	11.50	0.52	0.00	0.00	20.50	1.80	0.45	0.00
2.75	0.06	0.00	0.00	11.75	0.64	0.01	0.00	20.75	1.81	0.45	0.00
3.00	0.07	0.00	0.00	12.00	1.05	0.10	**0.04**	21.00	1.81	0.45	0.00
3.25	0.07	0.00	0.00	12.25	1.26	0.18	**0.12**	21.25	1.82	0.46	0.00
3.50	0.08	0.00	0.00	12.50	1.37	0.22	0.07	21.50	1.83	0.46	0.00
3.75	0.08	0.00	0.00	12.75	1.41	0.24	0.03	21.75	1.83	0.46	0.00
4.00	0.09	0.00	0.00	13.00	1.45	0.26	0.02	22.00	1.84	0.47	0.00
4.25	0.10	0.00	0.00	13.25	1.48	0.27	0.02	22.25	1.84	0.47	0.00
4.50	0.10	0.00	0.00	13.50	1.50	0.29	0.02	22.50	1.85	0.47	0.00
4.75	0.11	0.00	0.00	13.75	1.52	0.30	0.01	22.75	1.85	0.48	0.00
5.00	0.12	0.00	0.00	14.00	1.54	0.31	0.01	23.00	1.86	0.48	0.00
5.25	0.13	0.00	0.00	14.25	1.56	0.32	0.01	23.25	1.86	0.48	0.00
5.50	0.13	0.00	0.00	14.50	1.58	0.32	0.01	23.50	1.87	0.49	0.00
5.75	0.14	0.00	0.00	14.75	1.59	0.33	0.01	23.75	1.88	0.49	0.00
6.00	0.15	0.00	0.00	15.00	1.61	0.34	0.01	24.00	**1.88**	**0.49**	0.00
6.25	0.16	0.00	0.00	15.25	1.62	0.35	0.01				
6.50	0.17	0.00	0.00	15.50	1.63	0.35	0.01				
6.75	0.18	0.00	0.00	15.75	1.64	0.36	0.01				
7.00	0.19	0.00	0.00	16.00	1.66	0.37	0.01				
7.25	0.19	0.00	0.00	16.25	1.67	0.37	0.01				
7.50	0.20	0.00	0.00	16.50	1.68	0.38	0.01				
7.75	0.22	0.00	0.00	16.75	1.69	0.38	0.01				
8.00	0.23	0.00	0.00	17.00	1.70	0.39	0.01				
8.25	0.24	0.00	0.00	17.25	1.71	0.39	0.01				
8.50	0.25	0.00	0.00	17.50	1.71	0.40	0.01				
8.75	0.26	0.00	0.00	17.75	1.72	0.40	0.01				

Summary for Link PRE: Pre-Development

Inflow Area = 0.690 ac, 20.29% Impervious, Inflow Depth > 0.69" for 1-yr event
Inflow = 0.45 cfs @ 12.07 hrs, Volume= 0.040 af
Primary = 0.45 cfs @ 12.07 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Link PRE: Pre-Development



Hydrograph for Link PRE: Pre-Development

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	9.00	0.00	0.00	0.00	18.00	0.02	0.00	0.02
0.25	0.00	0.00	0.00	9.25	0.00	0.00	0.00	18.25	0.01	0.00	0.01
0.50	0.00	0.00	0.00	9.50	0.00	0.00	0.00	18.50	0.01	0.00	0.01
0.75	0.00	0.00	0.00	9.75	0.00	0.00	0.00	18.75	0.01	0.00	0.01
1.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	19.00	0.01	0.00	0.01
1.25	0.00	0.00	0.00	10.25	0.01	0.00	0.01	19.25	0.01	0.00	0.01
1.50	0.00	0.00	0.00	10.50	0.01	0.00	0.01	19.50	0.01	0.00	0.01
1.75	0.00	0.00	0.00	10.75	0.01	0.00	0.01	19.75	0.01	0.00	0.01
2.00	0.00	0.00	0.00	11.00	0.01	0.00	0.01	20.00	0.01	0.00	0.01
2.25	0.00	0.00	0.00	11.25	0.01	0.00	0.01	20.25	0.01	0.00	0.01
2.50	0.00	0.00	0.00	11.50	0.02	0.00	0.02	20.50	0.01	0.00	0.01
2.75	0.00	0.00	0.00	11.75	0.06	0.00	0.06	20.75	0.01	0.00	0.01
3.00	0.00	0.00	0.00	12.00	**0.34**	0.00	**0.34**	21.00	0.01	0.00	0.01
3.25	0.00	0.00	0.00	12.25	**0.31**	0.00	**0.31**	21.25	0.01	0.00	0.01
3.50	0.00	0.00	0.00	12.50	0.20	0.00	0.20	21.50	0.01	0.00	0.01
3.75	0.00	0.00	0.00	12.75	0.10	0.00	0.10	21.75	0.01	0.00	0.01
4.00	0.00	0.00	0.00	13.00	0.06	0.00	0.06	22.00	0.01	0.00	0.01
4.25	0.00	0.00	0.00	13.25	0.05	0.00	0.05	22.25	0.01	0.00	0.01
4.50	0.00	0.00	0.00	13.50	0.04	0.00	0.04	22.50	0.01	0.00	0.01
4.75	0.00	0.00	0.00	13.75	0.04	0.00	0.04	22.75	0.01	0.00	0.01
5.00	0.00	0.00	0.00	14.00	0.03	0.00	0.03	23.00	0.01	0.00	0.01
5.25	0.00	0.00	0.00	14.25	0.03	0.00	0.03	23.25	0.01	0.00	0.01
5.50	0.00	0.00	0.00	14.50	0.03	0.00	0.03	23.50	0.01	0.00	0.01
5.75	0.00	0.00	0.00	14.75	0.03	0.00	0.03	23.75	0.01	0.00	0.01
6.00	0.00	0.00	0.00	15.00	0.02	0.00	0.02	24.00	0.01	0.00	0.01
6.25	0.00	0.00	0.00	15.25	0.02	0.00	0.02				
6.50	0.00	0.00	0.00	15.50	0.02	0.00	0.02				
6.75	0.00	0.00	0.00	15.75	0.02	0.00	0.02				
7.00	0.00	0.00	0.00	16.00	0.02	0.00	0.02				
7.25	0.00	0.00	0.00	16.25	0.02	0.00	0.02				
7.50	0.00	0.00	0.00	16.50	0.02	0.00	0.02				
7.75	0.00	0.00	0.00	16.75	0.02	0.00	0.02				
8.00	0.00	0.00	0.00	17.00	0.02	0.00	0.02				
8.25	0.00	0.00	0.00	17.25	0.02	0.00	0.02				
8.50	0.00	0.00	0.00	17.50	0.02	0.00	0.02				
8.75	0.00	0.00	0.00	17.75	0.02	0.00	0.02				

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment AEP: Area to Eastern Property Runoff Area=0.090 ac 44.44% Impervious Runoff Depth>1.94"
Flow Length=27' Slope=0.0521 '/' Tc=4.1 min CN=88 Runoff=0.29 cfs 0.015 af

Subcatchment AQR: Area to Quaker Road Runoff Area=0.130 ac 76.92% Impervious Runoff Depth>2.48"
Flow Length=79' Tc=8.0 min CN=94 Runoff=0.44 cfs 0.027 af

Subcatchment ASP: Area to Southern Property Runoff Area=0.170 ac 0.00% Impervious Runoff Depth>1.35"
Flow Length=135' Slope=0.0138 '/' Tc=25.4 min CN=80 Runoff=0.19 cfs 0.019 af

Subcatchment AWP: Area to Western Property Runoff Area=0.300 ac 0.00% Impervious Runoff Depth>1.35"
Flow Length=89' Slope=0.0284 '/' Tc=13.6 min CN=80 Runoff=0.45 cfs 0.034 af

Link PRE: Pre-Development Inflow=1.07 cfs 0.094 af
Primary=1.07 cfs 0.094 af

Total Runoff Area = 0.690 ac Runoff Volume = 0.094 af Average Runoff Depth = 1.64"
79.71% Pervious = 0.550 ac 20.29% Impervious = 0.140 ac

Summary for Subcatchment AEP: Area to Eastern Property

Runoff = 0.29 cfs @ 12.01 hrs, Volume= 0.015 af, Depth> 1.94"
Routed to Link PRE : Pre-Development

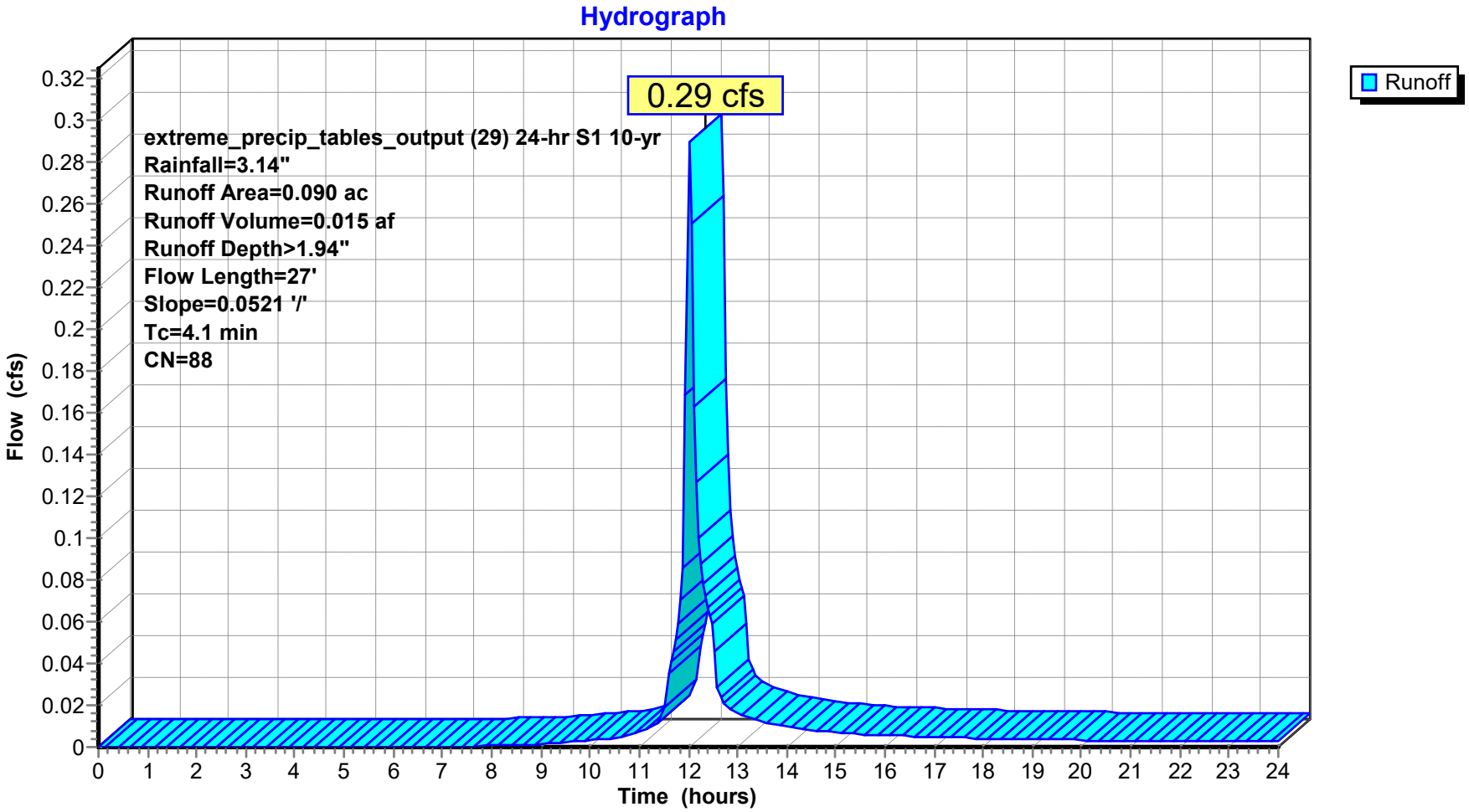
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 10-yr Rainfall=3.14"

Area (ac)	CN	Description
0.040	98	Paved parking, HSG D
0.050	80	>75% Grass cover, Good, HSG D
0.090	88	Weighted Average
0.050		55.56% Pervious Area
0.040		44.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	27	0.0521	0.11		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment AEP: Area to Eastern Property



Hydrograph for Subcatchment AEP: Area to Eastern Property

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.43	0.02	0.00	18.00	2.91	1.74	0.00
0.25	0.01	0.00	0.00	9.25	0.45	0.02	0.00	18.25	2.92	1.75	0.00
0.50	0.02	0.00	0.00	9.50	0.48	0.03	0.00	18.50	2.93	1.76	0.00
0.75	0.02	0.00	0.00	9.75	0.50	0.03	0.00	18.75	2.95	1.77	0.00
1.00	0.03	0.00	0.00	10.00	0.53	0.04	0.00	19.00	2.96	1.78	0.00
1.25	0.04	0.00	0.00	10.25	0.57	0.05	0.00	19.25	2.97	1.79	0.00
1.50	0.05	0.00	0.00	10.50	0.60	0.06	0.00	19.50	2.98	1.80	0.00
1.75	0.06	0.00	0.00	10.75	0.64	0.08	0.01	19.75	2.99	1.81	0.00
2.00	0.06	0.00	0.00	11.00	0.69	0.10	0.01	20.00	3.00	1.82	0.00
2.25	0.07	0.00	0.00	11.25	0.75	0.12	0.01	20.25	3.01	1.83	0.00
2.50	0.08	0.00	0.00	11.50	0.82	0.16	0.01	20.50	3.02	1.84	0.00
2.75	0.09	0.00	0.00	11.75	1.05	0.28	0.05	20.75	3.03	1.84	0.00
3.00	0.10	0.00	0.00	12.00	1.74	0.76	**0.28**	21.00	3.04	1.85	0.00
3.25	0.11	0.00	0.00	12.25	2.12	1.06	0.09	21.25	3.05	1.86	0.00
3.50	0.12	0.00	0.00	12.50	2.33	1.24	0.06	21.50	3.06	1.87	0.00
3.75	0.13	0.00	0.00	12.75	2.40	1.30	0.02	21.75	3.07	1.88	0.00
4.00	0.14	0.00	0.00	13.00	2.46	1.35	0.02	22.00	3.08	1.89	0.00
4.25	0.15	0.00	0.00	13.25	2.51	1.39	0.01	22.25	3.08	1.89	0.00
4.50	0.16	0.00	0.00	13.50	2.55	1.42	0.01	22.50	3.09	1.90	0.00
4.75	0.17	0.00	0.00	13.75	2.58	1.45	0.01	22.75	3.10	1.91	0.00
5.00	0.18	0.00	0.00	14.00	2.61	1.48	0.01	23.00	3.11	1.92	0.00
5.25	0.20	0.00	0.00	14.25	2.64	1.50	0.01	23.25	3.12	1.92	0.00
5.50	0.21	0.00	0.00	14.50	2.67	1.52	0.01	23.50	3.12	1.93	0.00
5.75	0.22	0.00	0.00	14.75	2.69	1.55	0.01	23.75	3.13	1.94	0.00
6.00	0.23	0.00	0.00	15.00	2.71	1.56	0.01	24.00	**3.14**	**1.94**	0.00
6.25	0.25	0.00	0.00	15.25	2.73	1.58	0.01				
6.50	0.26	0.00	0.00	15.50	2.75	1.60	0.01				
6.75	0.27	0.00	0.00	15.75	2.77	1.62	0.01				
7.00	0.29	0.00	0.00	16.00	2.79	1.63	0.01				
7.25	0.30	0.00	0.00	16.25	2.81	1.65	0.01				
7.50	0.32	0.00	0.00	16.50	2.82	1.66	0.01				
7.75	0.33	0.00	0.00	16.75	2.84	1.68	0.00				
8.00	0.35	0.00	0.00	17.00	2.85	1.69	0.00				
8.25	0.37	0.01	0.00	17.25	2.87	1.70	0.00				
8.50	0.39	0.01	0.00	17.50	2.88	1.71	0.00				
8.75	0.41	0.01	0.00	17.75	2.90	1.73	0.00				

Summary for Subcatchment AQR: Area to Quaker Road

Runoff = 0.44 cfs @ 12.06 hrs, Volume= 0.027 af, Depth> 2.48"
Routed to Link PRE : Pre-Development

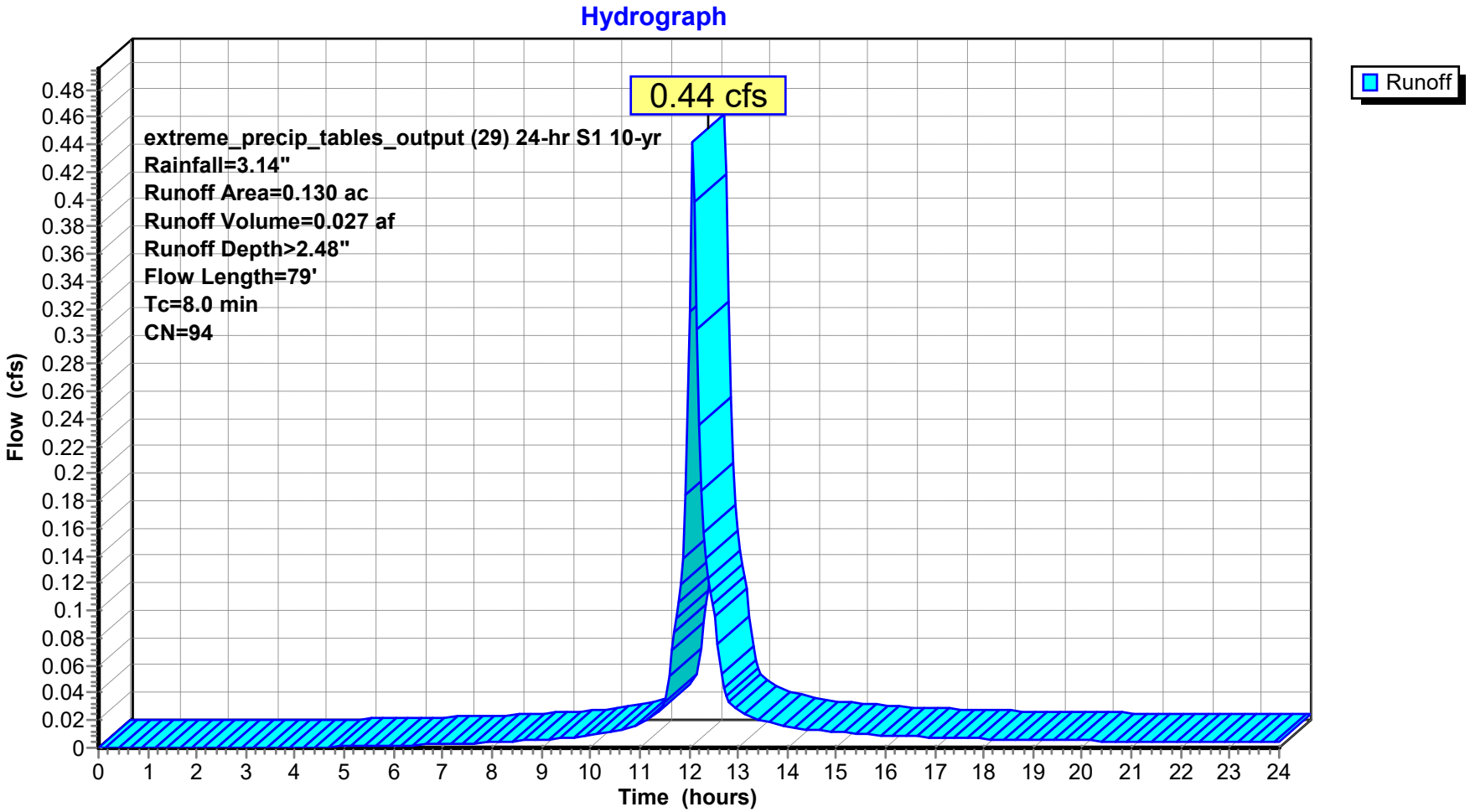
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 10-yr Rainfall=3.14"

Area (ac)	CN	Description
0.100	98	Paved parking, HSG D
0.030	80	>75% Grass cover, Good, HSG D
0.130	94	Weighted Average
0.030		23.08% Pervious Area
0.100		76.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	18	0.0408	0.09		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"
0.7	37	0.0196	0.93		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"
4.0	24	0.0429	0.10		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"
8.0	79	Total			



Subcatchment AQR: Area to Quaker Road



Hydrograph for Subcatchment AQR: Area to Quaker Road

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.43	0.10	0.01	18.00	2.91	2.26	0.01
0.25	0.01	0.00	0.00	9.25	0.45	0.11	0.01	18.25	2.92	2.27	0.01
0.50	0.02	0.00	0.00	9.50	0.48	0.12	0.01	18.50	2.93	2.29	0.01
0.75	0.02	0.00	0.00	9.75	0.50	0.14	0.01	18.75	2.95	2.30	0.01
1.00	0.03	0.00	0.00	10.00	0.53	0.16	0.01	19.00	2.96	2.31	0.01
1.25	0.04	0.00	0.00	10.25	0.57	0.18	0.01	19.25	2.97	2.32	0.01
1.50	0.05	0.00	0.00	10.50	0.60	0.20	0.01	19.50	2.98	2.33	0.01
1.75	0.06	0.00	0.00	10.75	0.64	0.23	0.01	19.75	2.99	2.34	0.01
2.00	0.06	0.00	0.00	11.00	0.69	0.26	0.02	20.00	3.00	2.35	0.01
2.25	0.07	0.00	0.00	11.25	0.75	0.31	0.02	20.25	3.01	2.36	0.01
2.50	0.08	0.00	0.00	11.50	0.82	0.36	0.03	20.50	3.02	2.37	0.01
2.75	0.09	0.00	0.00	11.75	1.05	0.55	0.09	20.75	3.03	2.38	0.00
3.00	0.10	0.00	0.00	12.00	1.74	1.16	**0.32**	21.00	3.04	2.39	0.00
3.25	0.11	0.00	0.00	12.25	2.12	1.51	**0.19**	21.25	3.05	2.40	0.00
3.50	0.12	0.00	0.00	12.50	2.33	1.71	0.11	21.50	3.06	2.41	0.00
3.75	0.13	0.00	0.00	12.75	2.40	1.78	0.04	21.75	3.07	2.41	0.00
4.00	0.14	0.00	0.00	13.00	2.46	1.83	0.03	22.00	3.08	2.42	0.00
4.25	0.15	0.00	0.00	13.25	2.51	1.87	0.02	22.25	3.08	2.43	0.00
4.50	0.16	0.00	0.00	13.50	2.55	1.91	0.02	22.50	3.09	2.44	0.00
4.75	0.17	0.00	0.00	13.75	2.58	1.95	0.02	22.75	3.10	2.45	0.00
5.00	0.18	0.00	0.00	14.00	2.61	1.98	0.02	23.00	3.11	2.46	0.00
5.25	0.20	0.01	0.00	14.25	2.64	2.00	0.01	23.25	3.12	2.46	0.00
5.50	0.21	0.01	0.00	14.50	2.67	2.03	0.01	23.50	3.12	2.47	0.00
5.75	0.22	0.01	0.00	14.75	2.69	2.05	0.01	23.75	3.13	2.48	0.00
6.00	0.23	0.01	0.00	15.00	2.71	2.07	0.01	24.00	**3.14**	**2.49**	0.00
6.25	0.25	0.02	0.00	15.25	2.73	2.09	0.01				
6.50	0.26	0.02	0.00	15.50	2.75	2.11	0.01				
6.75	0.27	0.03	0.00	15.75	2.77	2.13	0.01				
7.00	0.29	0.03	0.00	16.00	2.79	2.15	0.01				
7.25	0.30	0.04	0.00	16.25	2.81	2.16	0.01				
7.50	0.32	0.04	0.00	16.50	2.82	2.18	0.01				
7.75	0.33	0.05	0.00	16.75	2.84	2.19	0.01				
8.00	0.35	0.06	0.00	17.00	2.85	2.21	0.01				
8.25	0.37	0.07	0.00	17.25	2.87	2.22	0.01				
8.50	0.39	0.08	0.00	17.50	2.88	2.24	0.01				
8.75	0.41	0.09	0.01	17.75	2.90	2.25	0.01				

Summary for Subcatchment ASP: Area to Southern Property

Runoff = 0.19 cfs @ 12.33 hrs, Volume= 0.019 af, Depth> 1.35"
Routed to Link PRE : Pre-Development

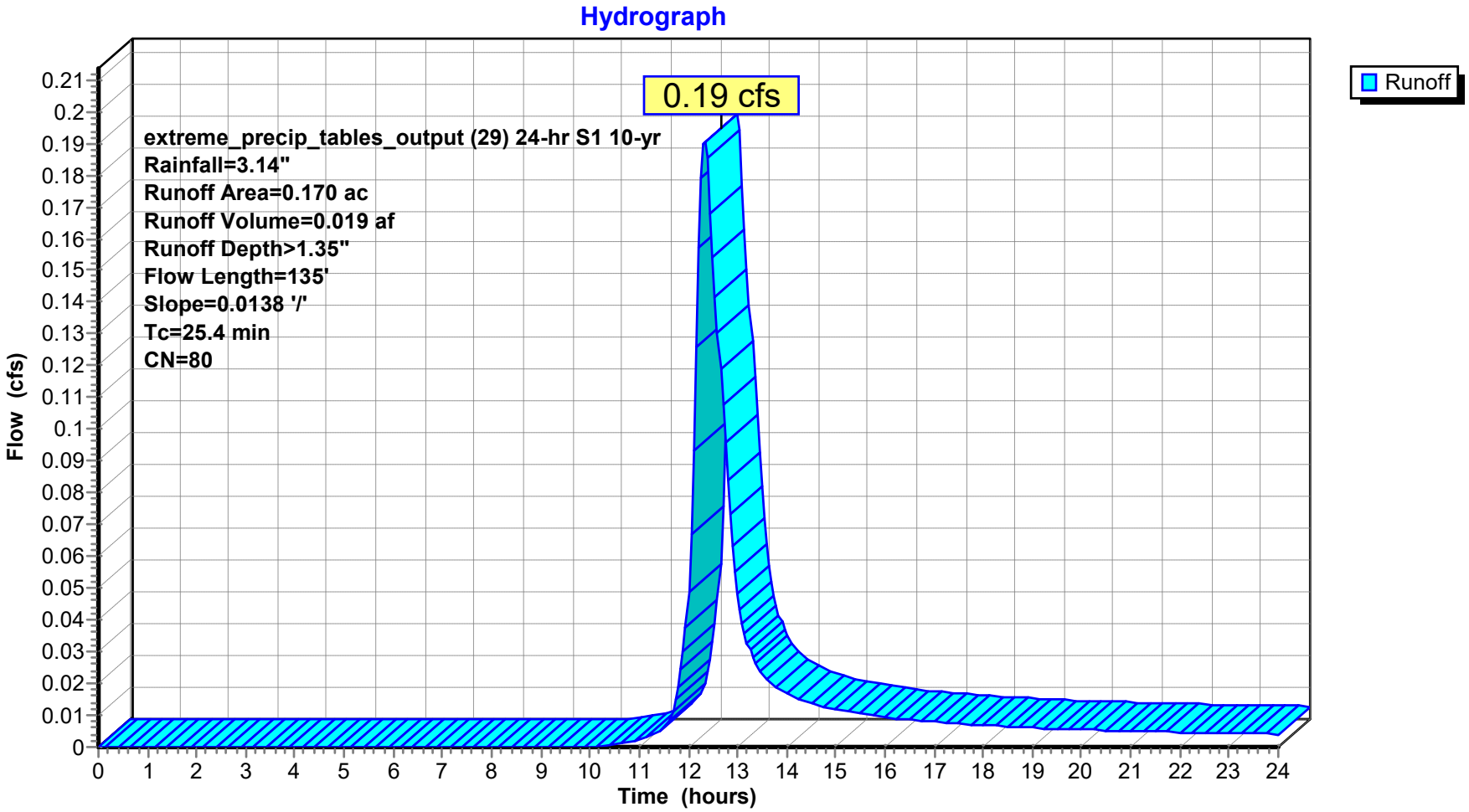
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 10-yr Rainfall=3.14"

Area (ac)	CN	Description
0.170	80	>75% Grass cover, Good, HSG D
0.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.4	135	0.0138	0.09		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment ASP: Area to Southern Property



Hydrograph for Subcatchment ASP: Area to Southern Property

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.43	0.00	0.00	18.00	2.91	1.18	0.01
0.25	0.01	0.00	0.00	9.25	0.45	0.00	0.00	18.25	2.92	1.19	0.01
0.50	0.02	0.00	0.00	9.50	0.48	0.00	0.00	18.50	2.93	1.20	0.01
0.75	0.02	0.00	0.00	9.75	0.50	0.00	0.00	18.75	2.95	1.21	0.01
1.00	0.03	0.00	0.00	10.00	0.53	0.00	0.00	19.00	2.96	1.22	0.01
1.25	0.04	0.00	0.00	10.25	0.57	0.00	0.00	19.25	2.97	1.23	0.01
1.50	0.05	0.00	0.00	10.50	0.60	0.00	0.00	19.50	2.98	1.23	0.01
1.75	0.06	0.00	0.00	10.75	0.64	0.01	0.00	19.75	2.99	1.24	0.01
2.00	0.06	0.00	0.00	11.00	0.69	0.01	0.00	20.00	3.00	1.25	0.01
2.25	0.07	0.00	0.00	11.25	0.75	0.02	0.00	20.25	3.01	1.26	0.01
2.50	0.08	0.00	0.00	11.50	0.82	0.04	0.01	20.50	3.02	1.27	0.01
2.75	0.09	0.00	0.00	11.75	1.05	0.10	0.01	20.75	3.03	1.27	0.01
3.00	0.10	0.00	0.00	12.00	1.74	0.41	0.05	21.00	3.04	1.28	0.01
3.25	0.11	0.00	0.00	12.25	2.12	0.64	**0.18**	21.25	3.05	1.29	0.00
3.50	0.12	0.00	0.00	12.50	2.33	0.78	**0.15**	21.50	3.06	1.29	0.00
3.75	0.13	0.00	0.00	12.75	2.40	0.82	0.10	21.75	3.07	1.30	0.00
4.00	0.14	0.00	0.00	13.00	2.46	0.86	0.05	22.00	3.08	1.31	0.00
4.25	0.15	0.00	0.00	13.25	2.51	0.89	0.03	22.25	3.08	1.31	0.00
4.50	0.16	0.00	0.00	13.50	2.55	0.92	0.02	22.50	3.09	1.32	0.00
4.75	0.17	0.00	0.00	13.75	2.58	0.94	0.02	22.75	3.10	1.33	0.00
5.00	0.18	0.00	0.00	14.00	2.61	0.97	0.02	23.00	3.11	1.33	0.00
5.25	0.20	0.00	0.00	14.25	2.64	0.99	0.02	23.25	3.12	1.34	0.00
5.50	0.21	0.00	0.00	14.50	2.67	1.01	0.01	23.50	3.12	1.34	0.00
5.75	0.22	0.00	0.00	14.75	2.69	1.02	0.01	23.75	3.13	1.35	0.00
6.00	0.23	0.00	0.00	15.00	2.71	1.04	0.01	24.00	**3.14**	**1.36**	0.00
6.25	0.25	0.00	0.00	15.25	2.73	1.05	0.01				
6.50	0.26	0.00	0.00	15.50	2.75	1.07	0.01				
6.75	0.27	0.00	0.00	15.75	2.77	1.08	0.01				
7.00	0.29	0.00	0.00	16.00	2.79	1.09	0.01				
7.25	0.30	0.00	0.00	16.25	2.81	1.11	0.01				
7.50	0.32	0.00	0.00	16.50	2.82	1.12	0.01				
7.75	0.33	0.00	0.00	16.75	2.84	1.13	0.01				
8.00	0.35	0.00	0.00	17.00	2.85	1.14	0.01				
8.25	0.37	0.00	0.00	17.25	2.87	1.15	0.01				
8.50	0.39	0.00	0.00	17.50	2.88	1.16	0.01				
8.75	0.41	0.00	0.00	17.75	2.90	1.17	0.01				

Summary for Subcatchment AWP: Area to Western Property

Runoff = 0.45 cfs @ 12.15 hrs, Volume= 0.034 af, Depth> 1.35"
Routed to Link PRE : Pre-Development

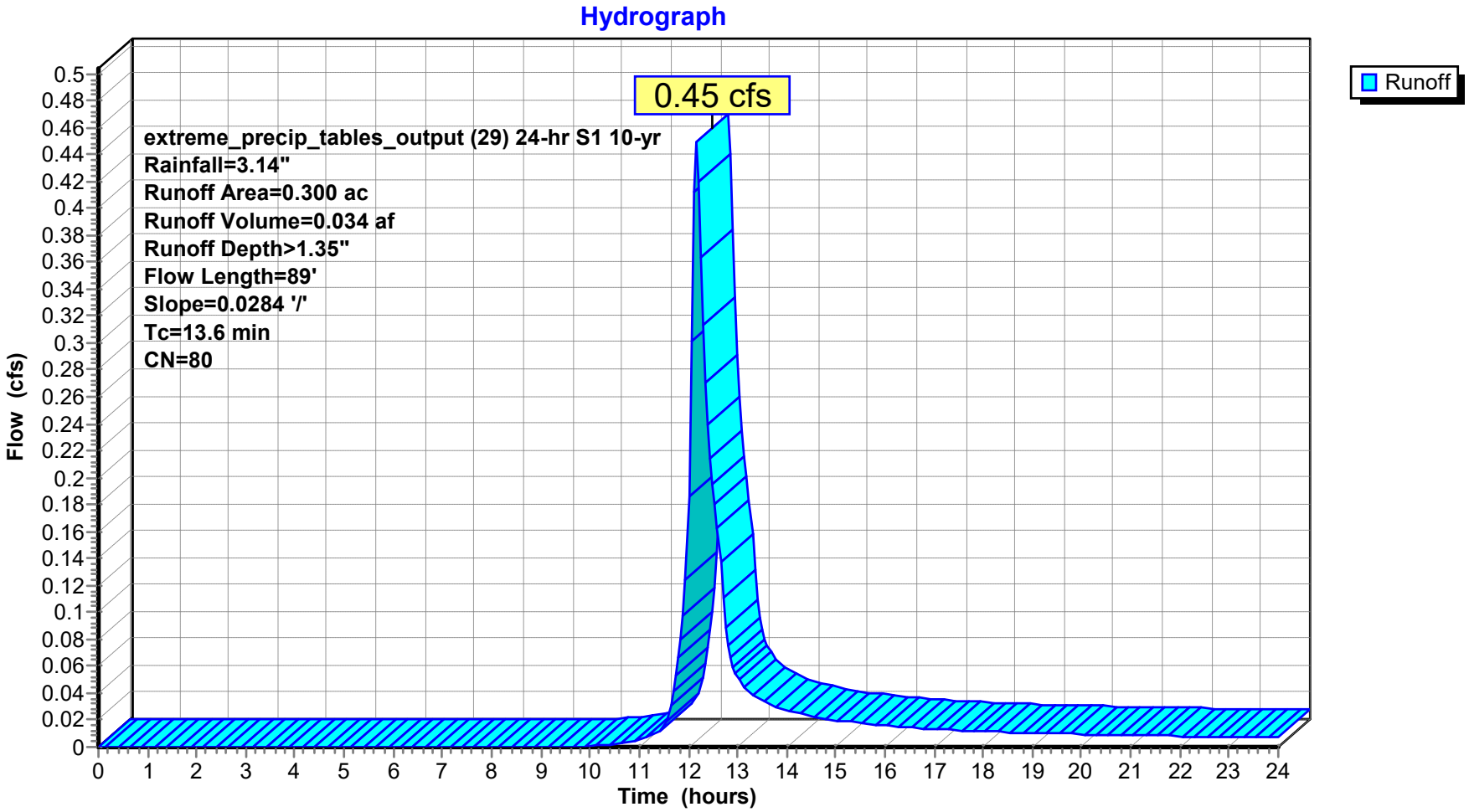
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 10-yr Rainfall=3.14"

Area (ac)	CN	Description
0.300	80	>75% Grass cover, Good, HSG D
0.300		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.6	89	0.0284	0.11		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment AWP: Area to Western Property



Hydrograph for Subcatchment AWP: Area to Western Property

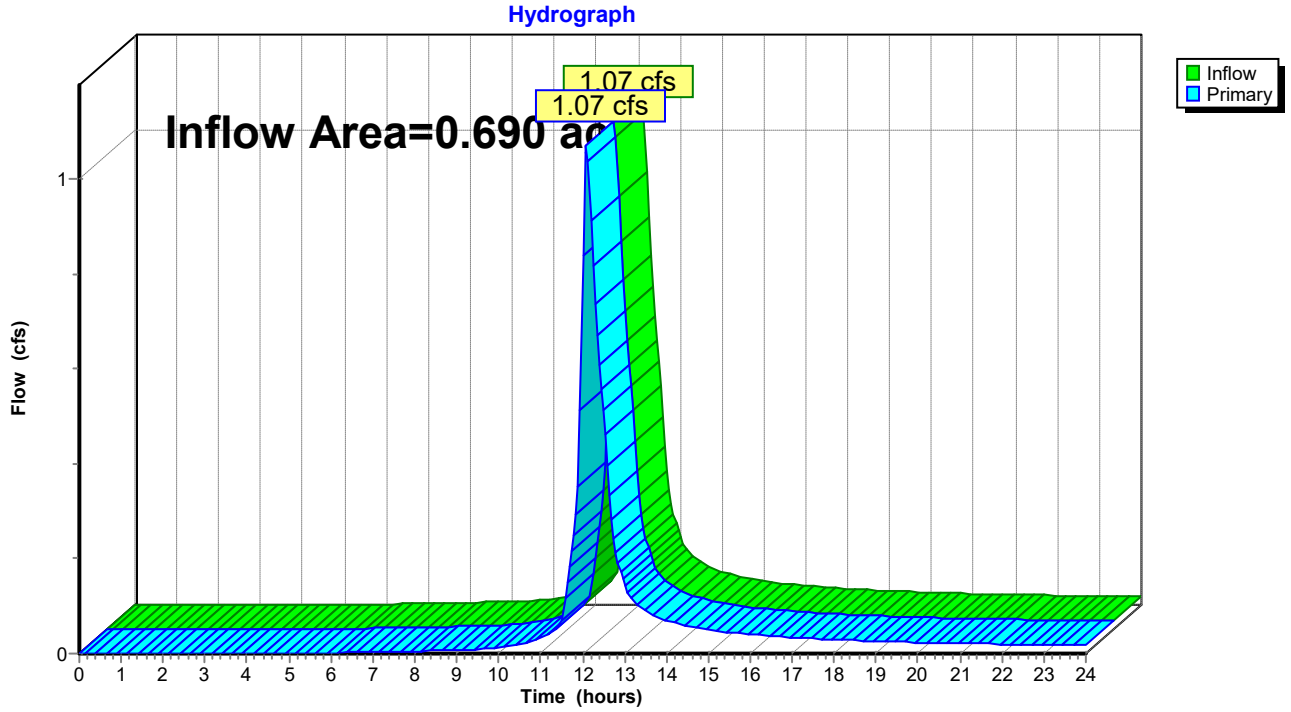
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.43	0.00	0.00	18.00	2.91	1.18	0.01
0.25	0.01	0.00	0.00	9.25	0.45	0.00	0.00	18.25	2.92	1.19	0.01
0.50	0.02	0.00	0.00	9.50	0.48	0.00	0.00	18.50	2.93	1.20	0.01
0.75	0.02	0.00	0.00	9.75	0.50	0.00	0.00	18.75	2.95	1.21	0.01
1.00	0.03	0.00	0.00	10.00	0.53	0.00	0.00	19.00	2.96	1.22	0.01
1.25	0.04	0.00	0.00	10.25	0.57	0.00	0.00	19.25	2.97	1.23	0.01
1.50	0.05	0.00	0.00	10.50	0.60	0.00	0.00	19.50	2.98	1.23	0.01
1.75	0.06	0.00	0.00	10.75	0.64	0.01	0.00	19.75	2.99	1.24	0.01
2.00	0.06	0.00	0.00	11.00	0.69	0.01	0.01	20.00	3.00	1.25	0.01
2.25	0.07	0.00	0.00	11.25	0.75	0.02	0.01	20.25	3.01	1.26	0.01
2.50	0.08	0.00	0.00	11.50	0.82	0.04	0.02	20.50	3.02	1.27	0.01
2.75	0.09	0.00	0.00	11.75	1.05	0.10	0.05	20.75	3.03	1.27	0.01
3.00	0.10	0.00	0.00	12.00	1.74	0.41	**0.19**	21.00	3.04	1.28	0.01
3.25	0.11	0.00	0.00	12.25	2.12	0.64	**0.36**	21.25	3.05	1.29	0.01
3.50	0.12	0.00	0.00	12.50	2.33	0.78	0.20	21.50	3.06	1.29	0.01
3.75	0.13	0.00	0.00	12.75	2.40	0.82	0.09	21.75	3.07	1.30	0.01
4.00	0.14	0.00	0.00	13.00	2.46	0.86	0.05	22.00	3.08	1.31	0.01
4.25	0.15	0.00	0.00	13.25	2.51	0.89	0.04	22.25	3.08	1.31	0.01
4.50	0.16	0.00	0.00	13.50	2.55	0.92	0.03	22.50	3.09	1.32	0.01
4.75	0.17	0.00	0.00	13.75	2.58	0.94	0.03	22.75	3.10	1.33	0.01
5.00	0.18	0.00	0.00	14.00	2.61	0.97	0.03	23.00	3.11	1.33	0.01
5.25	0.20	0.00	0.00	14.25	2.64	0.99	0.03	23.25	3.12	1.34	0.01
5.50	0.21	0.00	0.00	14.50	2.67	1.01	0.02	23.50	3.12	1.34	0.01
5.75	0.22	0.00	0.00	14.75	2.69	1.02	0.02	23.75	3.13	1.35	0.01
6.00	0.23	0.00	0.00	15.00	2.71	1.04	0.02	24.00	**3.14**	**1.36**	0.01
6.25	0.25	0.00	0.00	15.25	2.73	1.05	0.02				
6.50	0.26	0.00	0.00	15.50	2.75	1.07	0.02				
6.75	0.27	0.00	0.00	15.75	2.77	1.08	0.02				
7.00	0.29	0.00	0.00	16.00	2.79	1.09	0.02				
7.25	0.30	0.00	0.00	16.25	2.81	1.11	0.02				
7.50	0.32	0.00	0.00	16.50	2.82	1.12	0.01				
7.75	0.33	0.00	0.00	16.75	2.84	1.13	0.01				
8.00	0.35	0.00	0.00	17.00	2.85	1.14	0.01				
8.25	0.37	0.00	0.00	17.25	2.87	1.15	0.01				
8.50	0.39	0.00	0.00	17.50	2.88	1.16	0.01				
8.75	0.41	0.00	0.00	17.75	2.90	1.17	0.01				

Summary for Link PRE: Pre-Development

Inflow Area = 0.690 ac, 20.29% Impervious, Inflow Depth > 1.64" for 10-yr event
Inflow = 1.07 cfs @ 12.08 hrs, Volume= 0.094 af
Primary = 1.07 cfs @ 12.08 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Link PRE: Pre-Development



Hydrograph for Link PRE: Pre-Development

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	9.00	0.01	0.00	0.01	18.00	0.03	0.00	0.03
0.25	0.00	0.00	0.00	9.25	0.01	0.00	0.01	18.25	0.03	0.00	0.03
0.50	0.00	0.00	0.00	9.50	0.01	0.00	0.01	18.50	0.03	0.00	0.03
0.75	0.00	0.00	0.00	9.75	0.01	0.00	0.01	18.75	0.03	0.00	0.03
1.00	0.00	0.00	0.00	10.00	0.01	0.00	0.01	19.00	0.03	0.00	0.03
1.25	0.00	0.00	0.00	10.25	0.02	0.00	0.02	19.25	0.03	0.00	0.03
1.50	0.00	0.00	0.00	10.50	0.02	0.00	0.02	19.50	0.02	0.00	0.02
1.75	0.00	0.00	0.00	10.75	0.03	0.00	0.03	19.75	0.02	0.00	0.02
2.00	0.00	0.00	0.00	11.00	0.03	0.00	0.03	20.00	0.02	0.00	0.02
2.25	0.00	0.00	0.00	11.25	0.05	0.00	0.05	20.25	0.02	0.00	0.02
2.50	0.00	0.00	0.00	11.50	0.07	0.00	0.07	20.50	0.02	0.00	0.02
2.75	0.00	0.00	0.00	11.75	0.21	0.00	0.21	20.75	0.02	0.00	0.02
3.00	0.00	0.00	0.00	12.00	**0.84**	0.00	**0.84**	21.00	0.02	0.00	0.02
3.25	0.00	0.00	0.00	12.25	**0.82**	0.00	**0.82**	21.25	0.02	0.00	0.02
3.50	0.00	0.00	0.00	12.50	0.51	0.00	0.51	21.50	0.02	0.00	0.02
3.75	0.00	0.00	0.00	12.75	0.24	0.00	0.24	21.75	0.02	0.00	0.02
4.00	0.00	0.00	0.00	13.00	0.14	0.00	0.14	22.00	0.02	0.00	0.02
4.25	0.00	0.00	0.00	13.25	0.11	0.00	0.11	22.25	0.02	0.00	0.02
4.50	0.00	0.00	0.00	13.50	0.09	0.00	0.09	22.50	0.02	0.00	0.02
4.75	0.00	0.00	0.00	13.75	0.08	0.00	0.08	22.75	0.02	0.00	0.02
5.00	0.00	0.00	0.00	14.00	0.07	0.00	0.07	23.00	0.02	0.00	0.02
5.25	0.00	0.00	0.00	14.25	0.06	0.00	0.06	23.25	0.02	0.00	0.02
5.50	0.00	0.00	0.00	14.50	0.06	0.00	0.06	23.50	0.02	0.00	0.02
5.75	0.00	0.00	0.00	14.75	0.05	0.00	0.05	23.75	0.02	0.00	0.02
6.00	0.00	0.00	0.00	15.00	0.05	0.00	0.05	24.00	0.02	0.00	0.02
6.25	0.00	0.00	0.00	15.25	0.05	0.00	0.05				
6.50	0.00	0.00	0.00	15.50	0.04	0.00	0.04				
6.75	0.00	0.00	0.00	15.75	0.04	0.00	0.04				
7.00	0.00	0.00	0.00	16.00	0.04	0.00	0.04				
7.25	0.00	0.00	0.00	16.25	0.04	0.00	0.04				
7.50	0.00	0.00	0.00	16.50	0.04	0.00	0.04				
7.75	0.00	0.00	0.00	16.75	0.04	0.00	0.04				
8.00	0.00	0.00	0.00	17.00	0.03	0.00	0.03				
8.25	0.01	0.00	0.01	17.25	0.03	0.00	0.03				
8.50	0.01	0.00	0.01	17.50	0.03	0.00	0.03				
8.75	0.01	0.00	0.01	17.75	0.03	0.00	0.03				

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment AEP: Area to Eastern Property Runoff Area=0.090 ac 44.44% Impervious Runoff Depth>2.59"
Flow Length=27' Slope=0.0521 '/' Tc=4.1 min CN=88 Runoff=0.38 cfs 0.019 af

Subcatchment AQR: Area to Quaker Road Runoff Area=0.130 ac 76.92% Impervious Runoff Depth>3.17"
Flow Length=79' Tc=8.0 min CN=94 Runoff=0.55 cfs 0.034 af

Subcatchment ASP: Area to Southern Property Runoff Area=0.170 ac 0.00% Impervious Runoff Depth>1.91"
Flow Length=135' Slope=0.0138 '/' Tc=25.4 min CN=80 Runoff=0.28 cfs 0.027 af

Subcatchment AWP: Area to Western Property Runoff Area=0.300 ac 0.00% Impervious Runoff Depth>1.91"
Flow Length=89' Slope=0.0284 '/' Tc=13.6 min CN=80 Runoff=0.64 cfs 0.048 af

Link PRE: Pre-Development Inflow=1.46 cfs 0.129 af
Primary=1.46 cfs 0.129 af

Total Runoff Area = 0.690 ac Runoff Volume = 0.129 af Average Runoff Depth = 2.24"
79.71% Pervious = 0.550 ac 20.29% Impervious = 0.140 ac

Summary for Subcatchment AEP: Area to Eastern Property

Runoff = 0.38 cfs @ 12.01 hrs, Volume= 0.019 af, Depth> 2.59"
Routed to Link PRE : Pre-Development

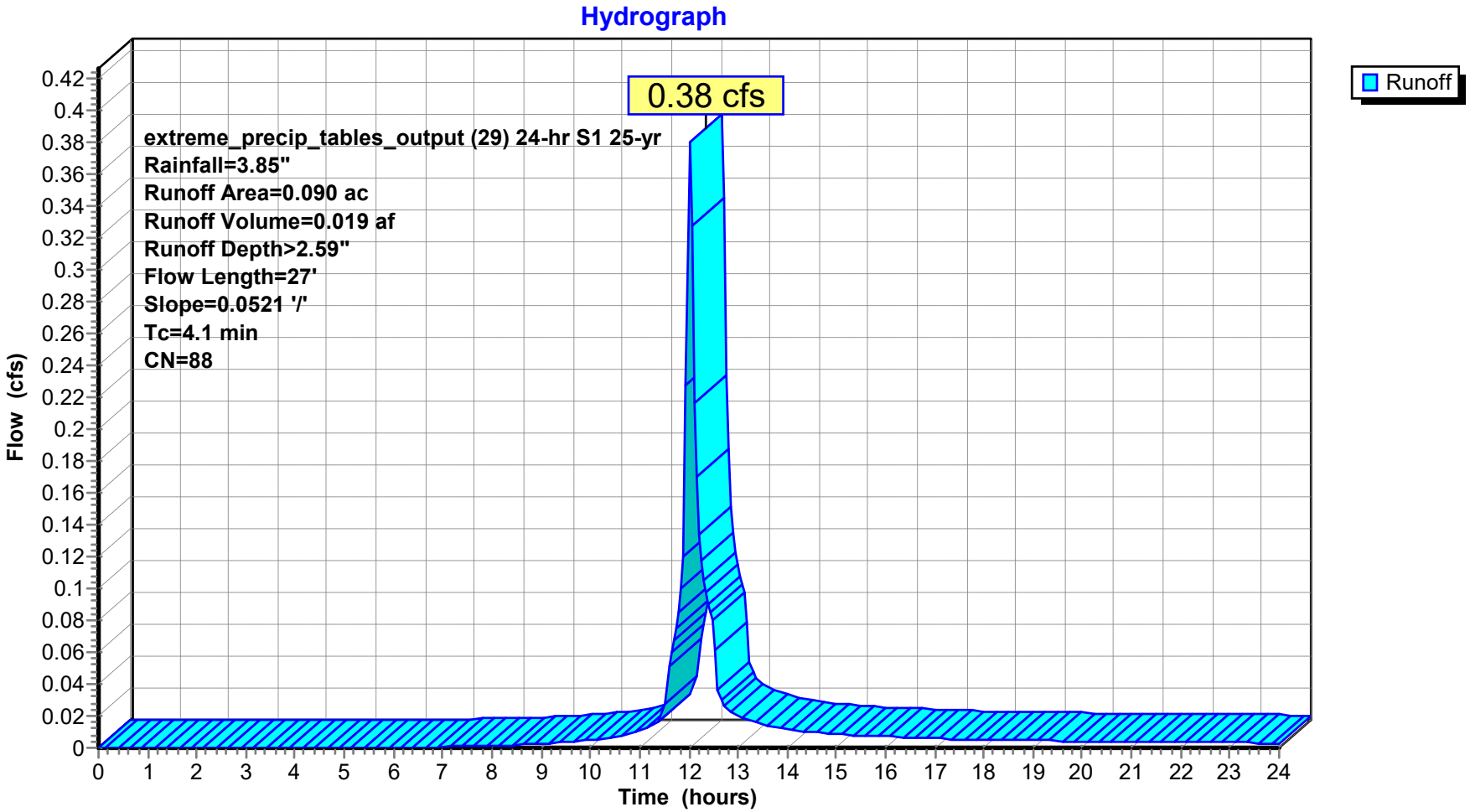
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 25-yr Rainfall=3.85"

Area (ac)	CN	Description
0.040	98	Paved parking, HSG D
0.050	80	>75% Grass cover, Good, HSG D
0.090	88	Weighted Average
0.050		55.56% Pervious Area
0.040		44.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	27	0.0521	0.11		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment AEP: Area to Eastern Property



Hydrograph for Subcatchment AEP: Area to Eastern Property

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.52	0.04	0.00	18.00	3.57	2.34	0.01
0.25	0.01	0.00	0.00	9.25	0.54	0.04	0.00	18.25	3.59	2.35	0.00
0.50	0.02	0.00	0.00	9.50	0.57	0.05	0.00	18.50	3.60	2.36	0.00
0.75	0.03	0.00	0.00	9.75	0.60	0.06	0.00	18.75	3.62	2.38	0.00
1.00	0.04	0.00	0.00	10.00	0.64	0.08	0.00	19.00	3.63	2.39	0.00
1.25	0.05	0.00	0.00	10.25	0.68	0.09	0.01	19.25	3.65	2.40	0.00
1.50	0.06	0.00	0.00	10.50	0.72	0.11	0.01	19.50	3.66	2.41	0.00
1.75	0.07	0.00	0.00	10.75	0.77	0.13	0.01	19.75	3.67	2.43	0.00
2.00	0.08	0.00	0.00	11.00	0.83	0.16	0.01	20.00	3.68	2.44	0.00
2.25	0.09	0.00	0.00	11.25	0.90	0.20	0.01	20.25	3.70	2.45	0.00
2.50	0.10	0.00	0.00	11.50	0.99	0.25	0.02	20.50	3.71	2.46	0.00
2.75	0.11	0.00	0.00	11.75	1.29	0.43	0.08	20.75	3.72	2.47	0.00
3.00	0.12	0.00	0.00	12.00	2.13	1.07	**0.37**	21.00	3.73	2.48	0.00
3.25	0.13	0.00	0.00	12.25	2.60	1.47	0.12	21.25	3.74	2.49	0.00
3.50	0.14	0.00	0.00	12.50	2.88	1.71	0.08	21.50	3.75	2.50	0.00
3.75	0.16	0.00	0.00	12.75	2.97	1.79	0.03	21.75	3.76	2.51	0.00
4.00	0.17	0.00	0.00	13.00	3.03	1.85	0.02	22.00	3.77	2.52	0.00
4.25	0.18	0.00	0.00	13.25	3.09	1.90	0.02	22.25	3.78	2.53	0.00
4.50	0.19	0.00	0.00	13.50	3.14	1.94	0.01	22.50	3.79	2.54	0.00
4.75	0.21	0.00	0.00	13.75	3.18	1.98	0.01	22.75	3.80	2.55	0.00
5.00	0.22	0.00	0.00	14.00	3.22	2.01	0.01	23.00	3.81	2.56	0.00
5.25	0.23	0.00	0.00	14.25	3.25	2.04	0.01	23.25	3.82	2.56	0.00
5.50	0.25	0.00	0.00	14.50	3.28	2.07	0.01	23.50	3.83	2.57	0.00
5.75	0.26	0.00	0.00	14.75	3.31	2.10	0.01	23.75	3.84	2.58	0.00
6.00	0.28	0.00	0.00	15.00	3.34	2.12	0.01	24.00	**3.85**	**2.59**	0.00
6.25	0.29	0.00	0.00	15.25	3.36	2.14	0.01				
6.50	0.31	0.00	0.00	15.50	3.39	2.17	0.01				
6.75	0.33	0.00	0.00	15.75	3.41	2.19	0.01				
7.00	0.34	0.00	0.00	16.00	3.43	2.21	0.01				
7.25	0.36	0.01	0.00	16.25	3.45	2.22	0.01				
7.50	0.38	0.01	0.00	16.50	3.47	2.24	0.01				
7.75	0.40	0.01	0.00	16.75	3.49	2.26	0.01				
8.00	0.42	0.01	0.00	17.00	3.51	2.28	0.01				
8.25	0.44	0.02	0.00	17.25	3.53	2.29	0.01				
8.50	0.47	0.02	0.00	17.50	3.54	2.31	0.01				
8.75	0.49	0.03	0.00	17.75	3.56	2.32	0.01				

Summary for Subcatchment AQR: Area to Quaker Road

Runoff = 0.55 cfs @ 12.06 hrs, Volume= 0.034 af, Depth> 3.17"
Routed to Link PRE : Pre-Development

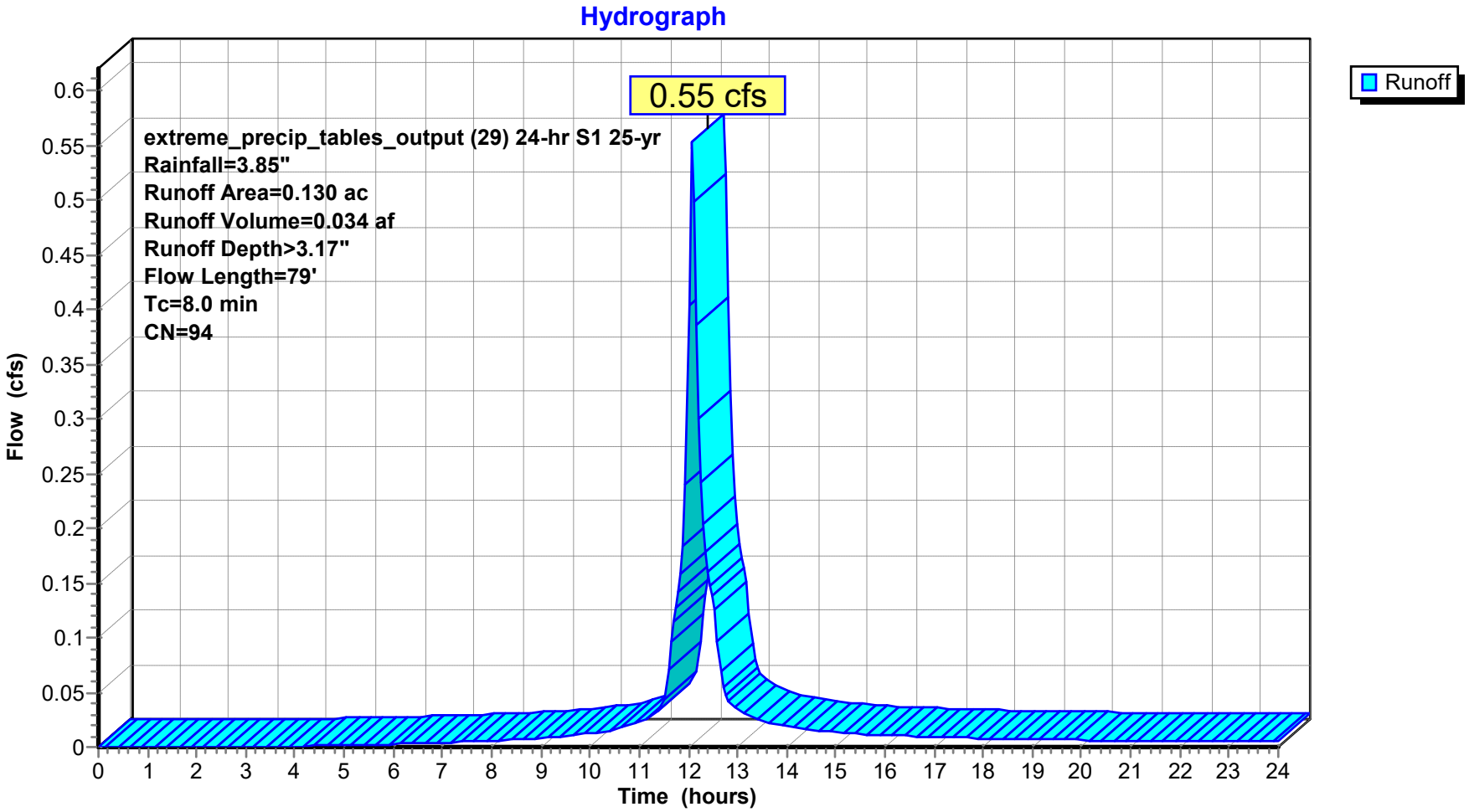
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 25-yr Rainfall=3.85"

Area (ac)	CN	Description
0.100	98	Paved parking, HSG D
0.030	80	>75% Grass cover, Good, HSG D
0.130	94	Weighted Average
0.030		23.08% Pervious Area
0.100		76.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	18	0.0408	0.09		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"
0.7	37	0.0196	0.93		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"
4.0	24	0.0429	0.10		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"
8.0	79	Total			



Subcatchment AQR: Area to Quaker Road



Hydrograph for Subcatchment AQR: Area to Quaker Road

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.52	0.15	0.01	18.00	3.57	2.91	0.01
0.25	0.01	0.00	0.00	9.25	0.54	0.16	0.01	18.25	3.59	2.92	0.01
0.50	0.02	0.00	0.00	9.50	0.57	0.18	0.01	18.50	3.60	2.94	0.01
0.75	0.03	0.00	0.00	9.75	0.60	0.20	0.01	18.75	3.62	2.95	0.01
1.00	0.04	0.00	0.00	10.00	0.64	0.23	0.01	19.00	3.63	2.96	0.01
1.25	0.05	0.00	0.00	10.25	0.68	0.25	0.01	19.25	3.65	2.98	0.01
1.50	0.06	0.00	0.00	10.50	0.72	0.29	0.02	19.50	3.66	2.99	0.01
1.75	0.07	0.00	0.00	10.75	0.77	0.32	0.02	19.75	3.67	3.00	0.01
2.00	0.08	0.00	0.00	11.00	0.83	0.37	0.02	20.00	3.68	3.01	0.01
2.25	0.09	0.00	0.00	11.25	0.90	0.42	0.03	20.25	3.70	3.03	0.01
2.50	0.10	0.00	0.00	11.50	0.99	0.50	0.04	20.50	3.71	3.04	0.01
2.75	0.11	0.00	0.00	11.75	1.29	0.75	0.13	20.75	3.72	3.05	0.01
3.00	0.12	0.00	0.00	12.00	2.13	1.52	**0.40**	21.00	3.73	3.06	0.01
3.25	0.13	0.00	0.00	12.25	2.60	1.97	**0.24**	21.25	3.74	3.07	0.01
3.50	0.14	0.00	0.00	12.50	2.88	2.23	0.14	21.50	3.75	3.08	0.01
3.75	0.16	0.00	0.00	12.75	2.97	2.32	0.05	21.75	3.76	3.09	0.01
4.00	0.17	0.00	0.00	13.00	3.03	2.38	0.03	22.00	3.77	3.10	0.01
4.25	0.18	0.00	0.00	13.25	3.09	2.44	0.03	22.25	3.78	3.11	0.01
4.50	0.19	0.01	0.00	13.50	3.14	2.48	0.02	22.50	3.79	3.12	0.01
4.75	0.21	0.01	0.00	13.75	3.18	2.52	0.02	22.75	3.80	3.13	0.01
5.00	0.22	0.01	0.00	14.00	3.22	2.56	0.02	23.00	3.81	3.14	0.00
5.25	0.23	0.01	0.00	14.25	3.25	2.59	0.02	23.25	3.82	3.15	0.00
5.50	0.25	0.02	0.00	14.50	3.28	2.62	0.02	23.50	3.83	3.16	0.00
5.75	0.26	0.02	0.00	14.75	3.31	2.65	0.01	23.75	3.84	3.17	0.00
6.00	0.28	0.03	0.00	15.00	3.34	2.68	0.01	24.00	**3.85**	**3.18**	0.00
6.25	0.29	0.03	0.00	15.25	3.36	2.70	0.01				
6.50	0.31	0.04	0.00	15.50	3.39	2.73	0.01				
6.75	0.33	0.05	0.00	15.75	3.41	2.75	0.01				
7.00	0.34	0.05	0.00	16.00	3.43	2.77	0.01				
7.25	0.36	0.06	0.00	16.25	3.45	2.79	0.01				
7.50	0.38	0.07	0.00	16.50	3.47	2.81	0.01				
7.75	0.40	0.08	0.01	16.75	3.49	2.83	0.01				
8.00	0.42	0.09	0.01	17.00	3.51	2.84	0.01				
8.25	0.44	0.10	0.01	17.25	3.53	2.86	0.01				
8.50	0.47	0.12	0.01	17.50	3.54	2.88	0.01				
8.75	0.49	0.13	0.01	17.75	3.56	2.89	0.01				

Summary for Subcatchment ASP: Area to Southern Property

Runoff = 0.28 cfs @ 12.32 hrs, Volume= 0.027 af, Depth> 1.91"
Routed to Link PRE : Pre-Development

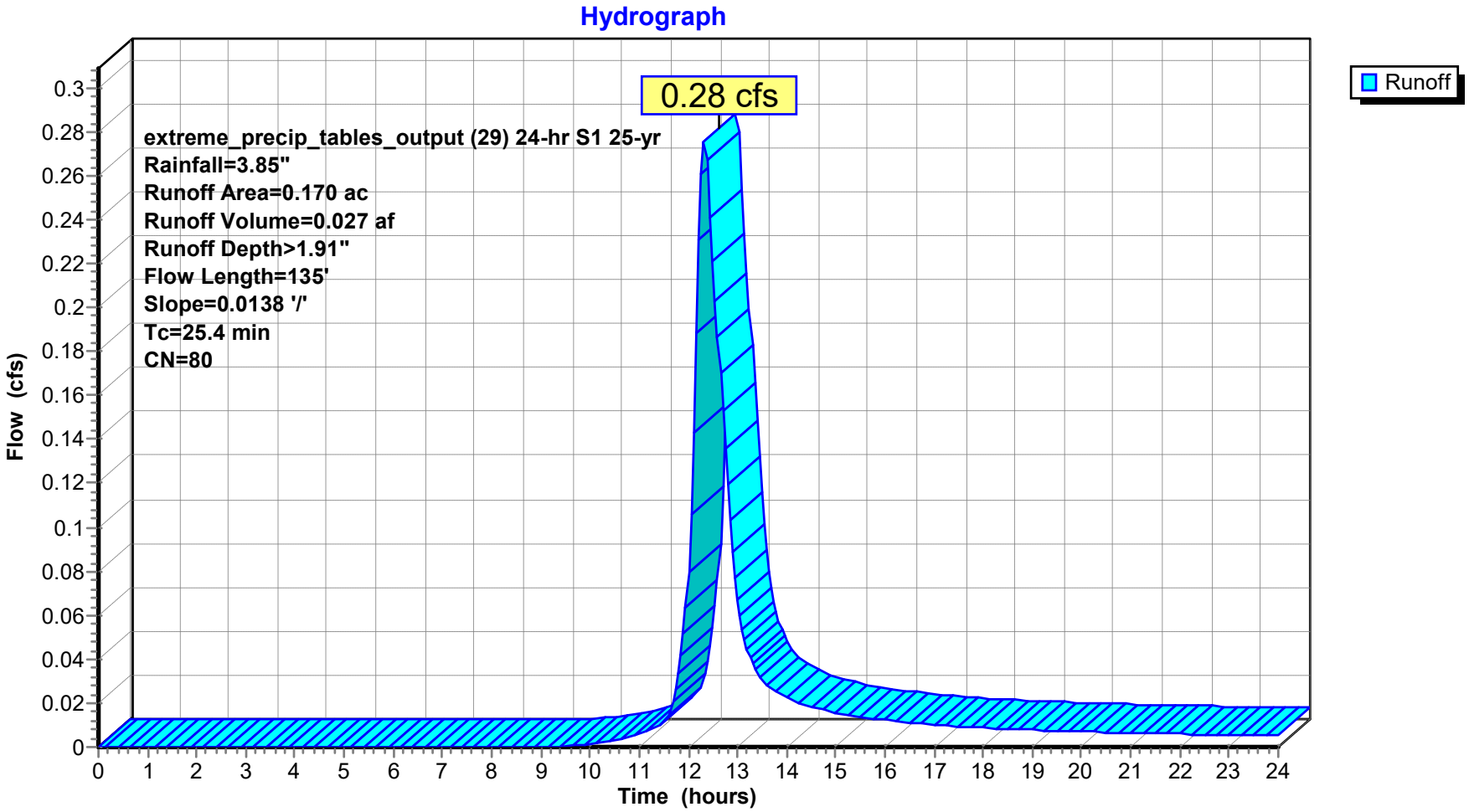
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 25-yr Rainfall=3.85"

Area (ac)	CN	Description
0.170	80	>75% Grass cover, Good, HSG D
0.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.4	135	0.0138	0.09		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment ASP: Area to Southern Property



Hydrograph for Subcatchment ASP: Area to Southern Property

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.52	0.00	0.00	18.00	3.57	1.70	0.01
0.25	0.01	0.00	0.00	9.25	0.54	0.00	0.00	18.25	3.59	1.71	0.01
0.50	0.02	0.00	0.00	9.50	0.57	0.00	0.00	18.50	3.60	1.72	0.01
0.75	0.03	0.00	0.00	9.75	0.60	0.00	0.00	18.75	3.62	1.73	0.01
1.00	0.04	0.00	0.00	10.00	0.64	0.01	0.00	19.00	3.63	1.74	0.01
1.25	0.05	0.00	0.00	10.25	0.68	0.01	0.00	19.25	3.65	1.75	0.01
1.50	0.06	0.00	0.00	10.50	0.72	0.02	0.00	19.50	3.66	1.76	0.01
1.75	0.07	0.00	0.00	10.75	0.77	0.03	0.00	19.75	3.67	1.77	0.01
2.00	0.08	0.00	0.00	11.00	0.83	0.04	0.01	20.00	3.68	1.78	0.01
2.25	0.09	0.00	0.00	11.25	0.90	0.05	0.01	20.25	3.70	1.79	0.01
2.50	0.10	0.00	0.00	11.50	0.99	0.08	0.01	20.50	3.71	1.80	0.01
2.75	0.11	0.00	0.00	11.75	1.29	0.19	0.03	20.75	3.72	1.81	0.01
3.00	0.12	0.00	0.00	12.00	2.13	0.64	0.08	21.00	3.73	1.82	0.01
3.25	0.13	0.00	0.00	12.25	2.60	0.96	**0.26**	21.25	3.74	1.83	0.01
3.50	0.14	0.00	0.00	12.50	2.88	1.16	**0.22**	21.50	3.75	1.84	0.01
3.75	0.16	0.00	0.00	12.75	2.97	1.22	0.14	21.75	3.76	1.85	0.01
4.00	0.17	0.00	0.00	13.00	3.03	1.28	0.07	22.00	3.77	1.86	0.01
4.25	0.18	0.00	0.00	13.25	3.09	1.32	0.04	22.25	3.78	1.86	0.01
4.50	0.19	0.00	0.00	13.50	3.14	1.35	0.03	22.50	3.79	1.87	0.01
4.75	0.21	0.00	0.00	13.75	3.18	1.39	0.03	22.75	3.80	1.88	0.01
5.00	0.22	0.00	0.00	14.00	3.22	1.41	0.02	23.00	3.81	1.89	0.01
5.25	0.23	0.00	0.00	14.25	3.25	1.44	0.02	23.25	3.82	1.90	0.01
5.50	0.25	0.00	0.00	14.50	3.28	1.47	0.02	23.50	3.83	1.90	0.01
5.75	0.26	0.00	0.00	14.75	3.31	1.49	0.02	23.75	3.84	1.91	0.01
6.00	0.28	0.00	0.00	15.00	3.34	1.51	0.02	24.00	**3.85**	**1.92**	0.01
6.25	0.29	0.00	0.00	15.25	3.36	1.53	0.01				
6.50	0.31	0.00	0.00	15.50	3.39	1.55	0.01				
6.75	0.33	0.00	0.00	15.75	3.41	1.57	0.01				
7.00	0.34	0.00	0.00	16.00	3.43	1.58	0.01				
7.25	0.36	0.00	0.00	16.25	3.45	1.60	0.01				
7.50	0.38	0.00	0.00	16.50	3.47	1.61	0.01				
7.75	0.40	0.00	0.00	16.75	3.49	1.63	0.01				
8.00	0.42	0.00	0.00	17.00	3.51	1.64	0.01				
8.25	0.44	0.00	0.00	17.25	3.53	1.66	0.01				
8.50	0.47	0.00	0.00	17.50	3.54	1.67	0.01				
8.75	0.49	0.00	0.00	17.75	3.56	1.68	0.01				

Summary for Subcatchment AWP: Area to Western Property

Runoff = 0.64 cfs @ 12.15 hrs, Volume= 0.048 af, Depth> 1.91"
Routed to Link PRE : Pre-Development

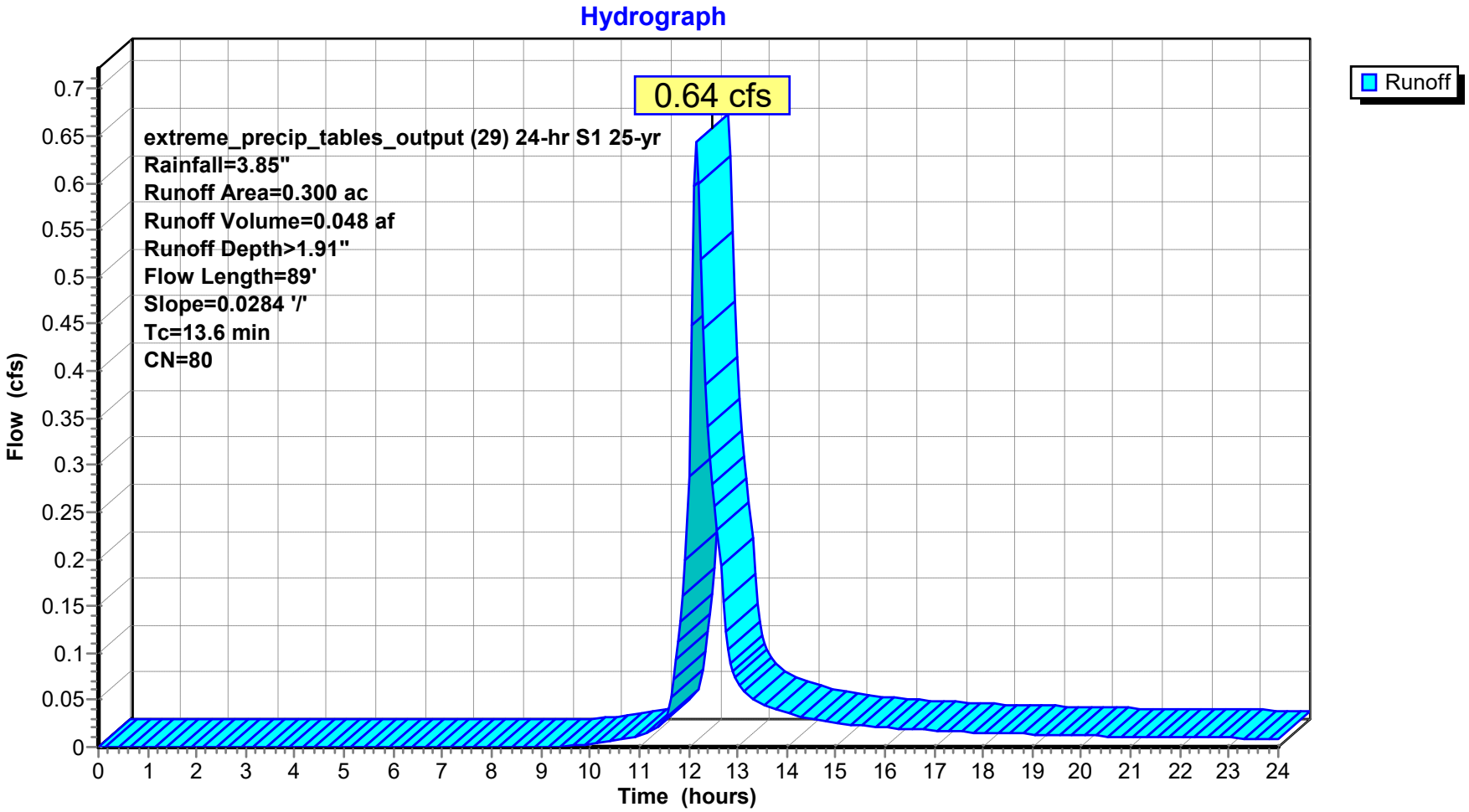
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 25-yr Rainfall=3.85"

Area (ac)	CN	Description
0.300	80	>75% Grass cover, Good, HSG D
0.300		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.6	89	0.0284	0.11		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment AWP: Area to Western Property



Hydrograph for Subcatchment AWP: Area to Western Property

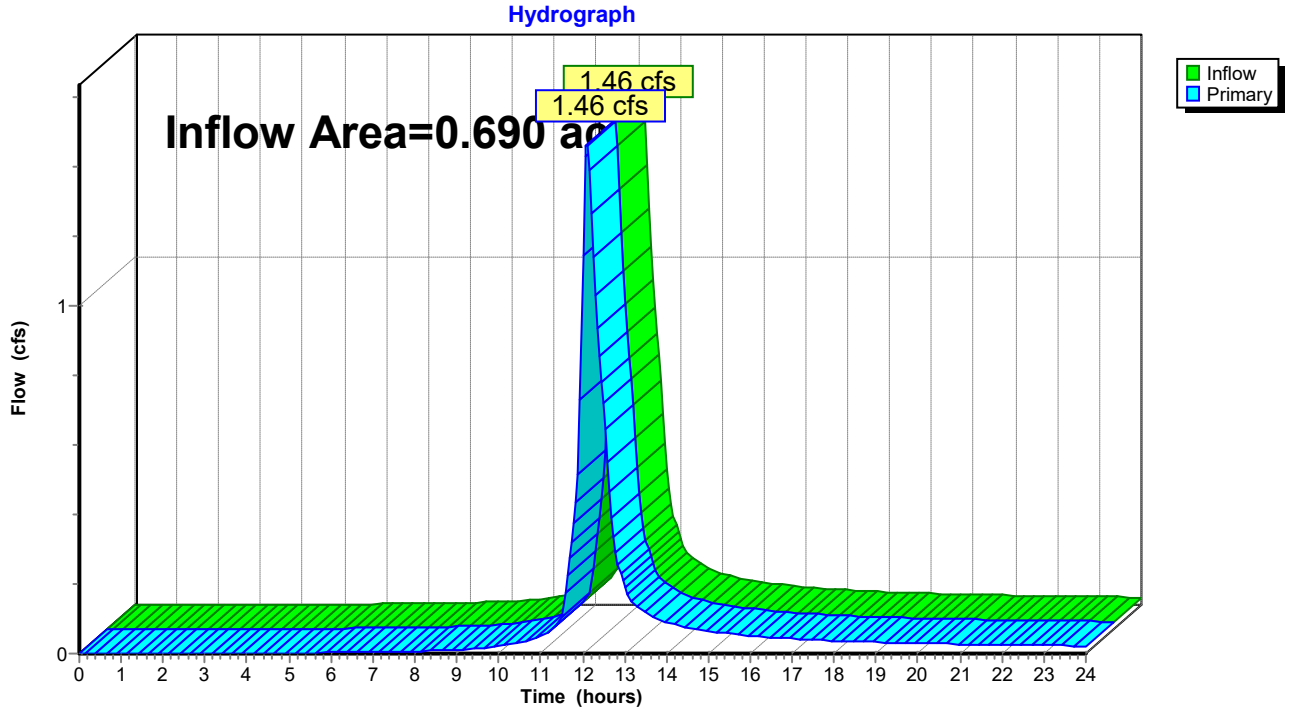
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.52	0.00	0.00	18.00	3.57	1.70	0.02
0.25	0.01	0.00	0.00	9.25	0.54	0.00	0.00	18.25	3.59	1.71	0.01
0.50	0.02	0.00	0.00	9.50	0.57	0.00	0.00	18.50	3.60	1.72	0.01
0.75	0.03	0.00	0.00	9.75	0.60	0.00	0.00	18.75	3.62	1.73	0.01
1.00	0.04	0.00	0.00	10.00	0.64	0.01	0.00	19.00	3.63	1.74	0.01
1.25	0.05	0.00	0.00	10.25	0.68	0.01	0.00	19.25	3.65	1.75	0.01
1.50	0.06	0.00	0.00	10.50	0.72	0.02	0.01	19.50	3.66	1.76	0.01
1.75	0.07	0.00	0.00	10.75	0.77	0.03	0.01	19.75	3.67	1.77	0.01
2.00	0.08	0.00	0.00	11.00	0.83	0.04	0.01	20.00	3.68	1.78	0.01
2.25	0.09	0.00	0.00	11.25	0.90	0.05	0.02	20.25	3.70	1.79	0.01
2.50	0.10	0.00	0.00	11.50	0.99	0.08	0.03	20.50	3.71	1.80	0.01
2.75	0.11	0.00	0.00	11.75	1.29	0.19	0.09	20.75	3.72	1.81	0.01
3.00	0.12	0.00	0.00	12.00	2.13	0.64	**0.29**	21.00	3.73	1.82	0.01
3.25	0.13	0.00	0.00	12.25	2.60	0.96	**0.52**	21.25	3.74	1.83	0.01
3.50	0.14	0.00	0.00	12.50	2.88	1.16	0.28	21.50	3.75	1.84	0.01
3.75	0.16	0.00	0.00	12.75	2.97	1.22	0.12	21.75	3.76	1.85	0.01
4.00	0.17	0.00	0.00	13.00	3.03	1.28	0.07	22.00	3.77	1.86	0.01
4.25	0.18	0.00	0.00	13.25	3.09	1.32	0.05	22.25	3.78	1.86	0.01
4.50	0.19	0.00	0.00	13.50	3.14	1.35	0.05	22.50	3.79	1.87	0.01
4.75	0.21	0.00	0.00	13.75	3.18	1.39	0.04	22.75	3.80	1.88	0.01
5.00	0.22	0.00	0.00	14.00	3.22	1.41	0.04	23.00	3.81	1.89	0.01
5.25	0.23	0.00	0.00	14.25	3.25	1.44	0.03	23.25	3.82	1.90	0.01
5.50	0.25	0.00	0.00	14.50	3.28	1.47	0.03	23.50	3.83	1.90	0.01
5.75	0.26	0.00	0.00	14.75	3.31	1.49	0.03	23.75	3.84	1.91	0.01
6.00	0.28	0.00	0.00	15.00	3.34	1.51	0.03	24.00	**3.85**	**1.92**	0.01
6.25	0.29	0.00	0.00	15.25	3.36	1.53	0.02				
6.50	0.31	0.00	0.00	15.50	3.39	1.55	0.02				
6.75	0.33	0.00	0.00	15.75	3.41	1.57	0.02				
7.00	0.34	0.00	0.00	16.00	3.43	1.58	0.02				
7.25	0.36	0.00	0.00	16.25	3.45	1.60	0.02				
7.50	0.38	0.00	0.00	16.50	3.47	1.61	0.02				
7.75	0.40	0.00	0.00	16.75	3.49	1.63	0.02				
8.00	0.42	0.00	0.00	17.00	3.51	1.64	0.02				
8.25	0.44	0.00	0.00	17.25	3.53	1.66	0.02				
8.50	0.47	0.00	0.00	17.50	3.54	1.67	0.02				
8.75	0.49	0.00	0.00	17.75	3.56	1.68	0.02				

Summary for Link PRE: Pre-Development

Inflow Area = 0.690 ac, 20.29% Impervious, Inflow Depth > 2.24" for 25-yr event
Inflow = 1.46 cfs @ 12.09 hrs, Volume= 0.129 af
Primary = 1.46 cfs @ 12.09 hrs, Volume= 0.129 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Link PRE: Pre-Development



Hydrograph for Link PRE: Pre-Development

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	9.00	0.01	0.00	0.01	18.00	0.04	0.00	0.04
0.25	0.00	0.00	0.00	9.25	0.01	0.00	0.01	18.25	0.04	0.00	0.04
0.50	0.00	0.00	0.00	9.50	0.02	0.00	0.02	18.50	0.03	0.00	0.03
0.75	0.00	0.00	0.00	9.75	0.02	0.00	0.02	18.75	0.03	0.00	0.03
1.00	0.00	0.00	0.00	10.00	0.02	0.00	0.02	19.00	0.03	0.00	0.03
1.25	0.00	0.00	0.00	10.25	0.03	0.00	0.03	19.25	0.03	0.00	0.03
1.50	0.00	0.00	0.00	10.50	0.03	0.00	0.03	19.50	0.03	0.00	0.03
1.75	0.00	0.00	0.00	10.75	0.04	0.00	0.04	19.75	0.03	0.00	0.03
2.00	0.00	0.00	0.00	11.00	0.05	0.00	0.05	20.00	0.03	0.00	0.03
2.25	0.00	0.00	0.00	11.25	0.07	0.00	0.07	20.25	0.03	0.00	0.03
2.50	0.00	0.00	0.00	11.50	0.10	0.00	0.10	20.50	0.03	0.00	0.03
2.75	0.00	0.00	0.00	11.75	0.32	0.00	0.32	20.75	0.03	0.00	0.03
3.00	0.00	0.00	0.00	12.00	**1.15**	0.00	**1.15**	21.00	0.03	0.00	0.03
3.25	0.00	0.00	0.00	12.25	**1.14**	0.00	**1.14**	21.25	0.03	0.00	0.03
3.50	0.00	0.00	0.00	12.50	0.72	0.00	0.72	21.50	0.03	0.00	0.03
3.75	0.00	0.00	0.00	12.75	0.33	0.00	0.33	21.75	0.03	0.00	0.03
4.00	0.00	0.00	0.00	13.00	0.19	0.00	0.19	22.00	0.03	0.00	0.03
4.25	0.00	0.00	0.00	13.25	0.14	0.00	0.14	22.25	0.02	0.00	0.02
4.50	0.00	0.00	0.00	13.50	0.12	0.00	0.12	22.50	0.02	0.00	0.02
4.75	0.00	0.00	0.00	13.75	0.10	0.00	0.10	22.75	0.02	0.00	0.02
5.00	0.00	0.00	0.00	14.00	0.09	0.00	0.09	23.00	0.02	0.00	0.02
5.25	0.00	0.00	0.00	14.25	0.08	0.00	0.08	23.25	0.02	0.00	0.02
5.50	0.00	0.00	0.00	14.50	0.07	0.00	0.07	23.50	0.02	0.00	0.02
5.75	0.00	0.00	0.00	14.75	0.07	0.00	0.07	23.75	0.02	0.00	0.02
6.00	0.00	0.00	0.00	15.00	0.06	0.00	0.06	24.00	0.02	0.00	0.02
6.25	0.00	0.00	0.00	15.25	0.06	0.00	0.06				
6.50	0.00	0.00	0.00	15.50	0.06	0.00	0.06				
6.75	0.00	0.00	0.00	15.75	0.05	0.00	0.05				
7.00	0.00	0.00	0.00	16.00	0.05	0.00	0.05				
7.25	0.01	0.00	0.01	16.25	0.05	0.00	0.05				
7.50	0.01	0.00	0.01	16.50	0.05	0.00	0.05				
7.75	0.01	0.00	0.01	16.75	0.04	0.00	0.04				
8.00	0.01	0.00	0.01	17.00	0.04	0.00	0.04				
8.25	0.01	0.00	0.01	17.25	0.04	0.00	0.04				
8.50	0.01	0.00	0.01	17.50	0.04	0.00	0.04				
8.75	0.01	0.00	0.01	17.75	0.04	0.00	0.04				

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment AEP: Area to Eastern Property Runoff Area=0.090 ac 44.44% Impervious Runoff Depth>3.91"
Flow Length=27' Slope=0.0521 '/' Tc=4.1 min CN=88 Runoff=0.57 cfs 0.029 af

Subcatchment AQR: Area to Quaker Road Runoff Area=0.130 ac 76.92% Impervious Runoff Depth>4.55"
Flow Length=79' Tc=8.0 min CN=94 Runoff=0.78 cfs 0.049 af

Subcatchment ASP: Area to Southern Property Runoff Area=0.170 ac 0.00% Impervious Runoff Depth>3.10"
Flow Length=135' Slope=0.0138 '/' Tc=25.4 min CN=80 Runoff=0.46 cfs 0.044 af

Subcatchment AWP: Area to Western Property Runoff Area=0.300 ac 0.00% Impervious Runoff Depth>3.10"
Flow Length=89' Slope=0.0284 '/' Tc=13.6 min CN=80 Runoff=1.07 cfs 0.078 af

Link PRE: Pre-Development Inflow=2.29 cfs 0.200 af
Primary=2.29 cfs 0.200 af

Total Runoff Area = 0.690 ac Runoff Volume = 0.200 af Average Runoff Depth = 3.48"
79.71% Pervious = 0.550 ac 20.29% Impervious = 0.140 ac

Summary for Subcatchment AEP: Area to Eastern Property

Runoff = 0.57 cfs @ 12.01 hrs, Volume= 0.029 af, Depth> 3.91"
Routed to Link PRE : Pre-Development

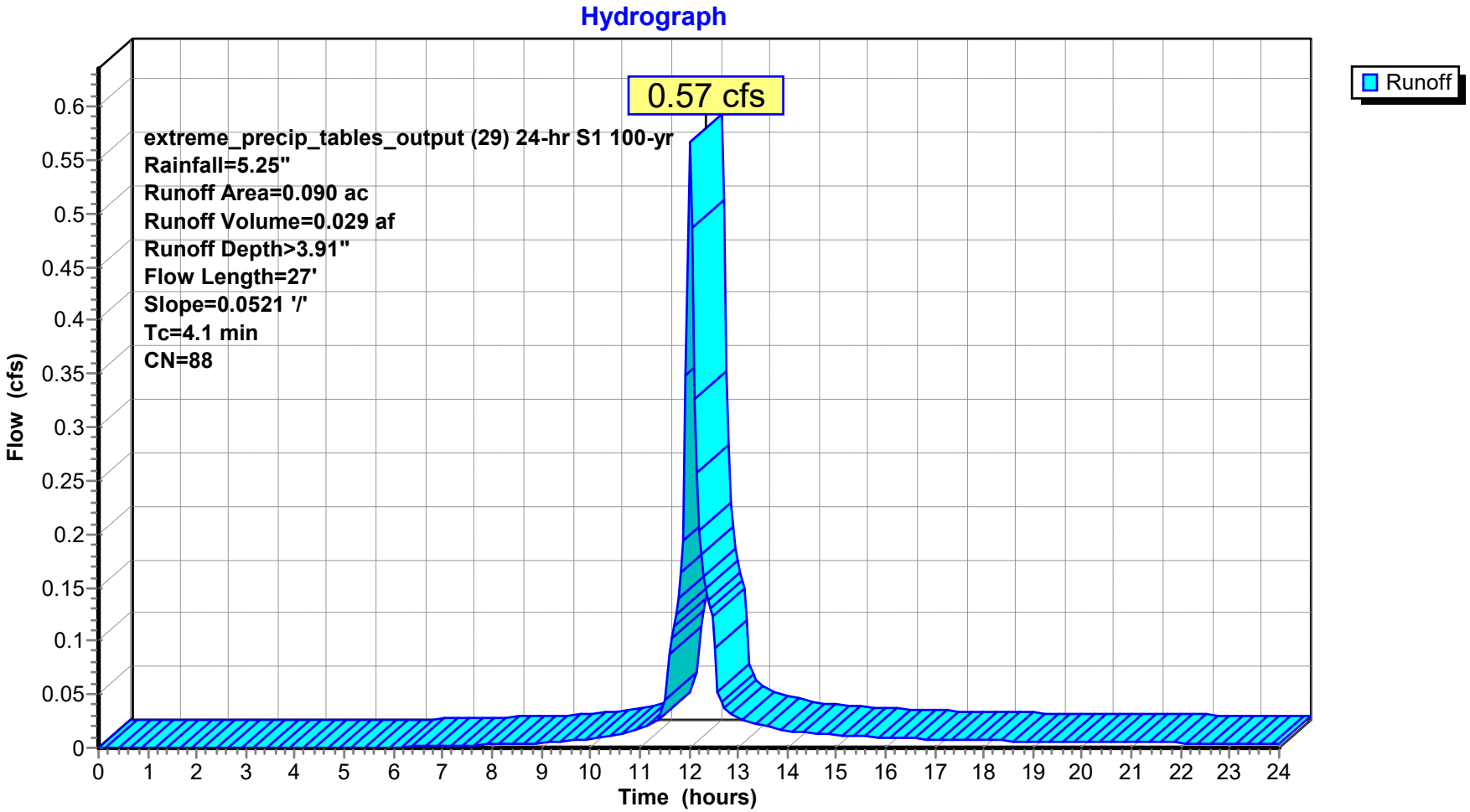
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 100-yr Rainfall=5.25"

Area (ac)	CN	Description
0.040	98	Paved parking, HSG D
0.050	80	>75% Grass cover, Good, HSG D
0.090	88	Weighted Average
0.050		55.56% Pervious Area
0.040		44.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	27	0.0521	0.11		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment AEP: Area to Eastern Property



Hydrograph for Subcatchment AEP: Area to Eastern Property

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.67	0.09	0.00	18.00	4.89	3.57	0.01
0.25	0.01	0.00	0.00	9.25	0.71	0.10	0.01	18.25	4.91	3.59	0.01
0.50	0.02	0.00	0.00	9.50	0.74	0.12	0.01	18.50	4.93	3.60	0.01
0.75	0.04	0.00	0.00	9.75	0.79	0.14	0.01	18.75	4.95	3.62	0.01
1.00	0.05	0.00	0.00	10.00	0.83	0.16	0.01	19.00	4.97	3.64	0.01
1.25	0.06	0.00	0.00	10.25	0.88	0.19	0.01	19.25	4.99	3.65	0.01
1.50	0.07	0.00	0.00	10.50	0.94	0.22	0.01	19.50	5.00	3.67	0.01
1.75	0.09	0.00	0.00	10.75	1.00	0.26	0.01	19.75	5.02	3.69	0.01
2.00	0.10	0.00	0.00	11.00	1.08	0.30	0.02	20.00	5.03	3.70	0.01
2.25	0.11	0.00	0.00	11.25	1.17	0.36	0.02	20.25	5.05	3.72	0.01
2.50	0.13	0.00	0.00	11.50	1.30	0.44	0.03	20.50	5.07	3.73	0.01
2.75	0.14	0.00	0.00	11.75	1.73	0.75	0.13	20.75	5.08	3.75	0.01
3.00	0.16	0.00	0.00	12.00	2.90	1.73	**0.56**	21.00	5.10	3.76	0.01
3.25	0.17	0.00	0.00	12.25	3.58	2.34	0.18	21.25	5.11	3.77	0.00
3.50	0.19	0.00	0.00	12.50	3.98	2.71	0.12	21.50	5.12	3.79	0.00
3.75	0.20	0.00	0.00	12.75	4.09	2.82	0.04	21.75	5.14	3.80	0.00
4.00	0.22	0.00	0.00	13.00	4.18	2.90	0.03	22.00	5.15	3.81	0.00
4.25	0.23	0.00	0.00	13.25	4.26	2.97	0.02	22.25	5.16	3.82	0.00
4.50	0.25	0.00	0.00	13.50	4.32	3.03	0.02	22.50	5.18	3.84	0.00
4.75	0.27	0.00	0.00	13.75	4.38	3.08	0.02	22.75	5.19	3.85	0.00
5.00	0.28	0.00	0.00	14.00	4.43	3.13	0.02	23.00	5.20	3.86	0.00
5.25	0.30	0.00	0.00	14.25	4.47	3.17	0.01	23.25	5.21	3.87	0.00
5.50	0.32	0.00	0.00	14.50	4.51	3.21	0.01	23.50	5.23	3.88	0.00
5.75	0.34	0.00	0.00	14.75	4.55	3.24	0.01	23.75	5.24	3.90	0.00
6.00	0.36	0.01	0.00	15.00	4.58	3.28	0.01	24.00	**5.25**	**3.91**	0.00
6.25	0.38	0.01	0.00	15.25	4.62	3.31	0.01				
6.50	0.40	0.01	0.00	15.50	4.65	3.34	0.01				
6.75	0.42	0.01	0.00	15.75	4.68	3.36	0.01				
7.00	0.45	0.02	0.00	16.00	4.71	3.39	0.01				
7.25	0.47	0.02	0.00	16.25	4.73	3.42	0.01				
7.50	0.49	0.03	0.00	16.50	4.76	3.44	0.01				
7.75	0.52	0.04	0.00	16.75	4.78	3.46	0.01				
8.00	0.55	0.05	0.00	17.00	4.81	3.49	0.01				
8.25	0.57	0.05	0.00	17.25	4.83	3.51	0.01				
8.50	0.60	0.06	0.00	17.50	4.85	3.53	0.01				
8.75	0.64	0.08	0.00	17.75	4.87	3.55	0.01				

Summary for Subcatchment AQR: Area to Quaker Road

Runoff = 0.78 cfs @ 12.06 hrs, Volume= 0.049 af, Depth> 4.55"
Routed to Link PRE : Pre-Development

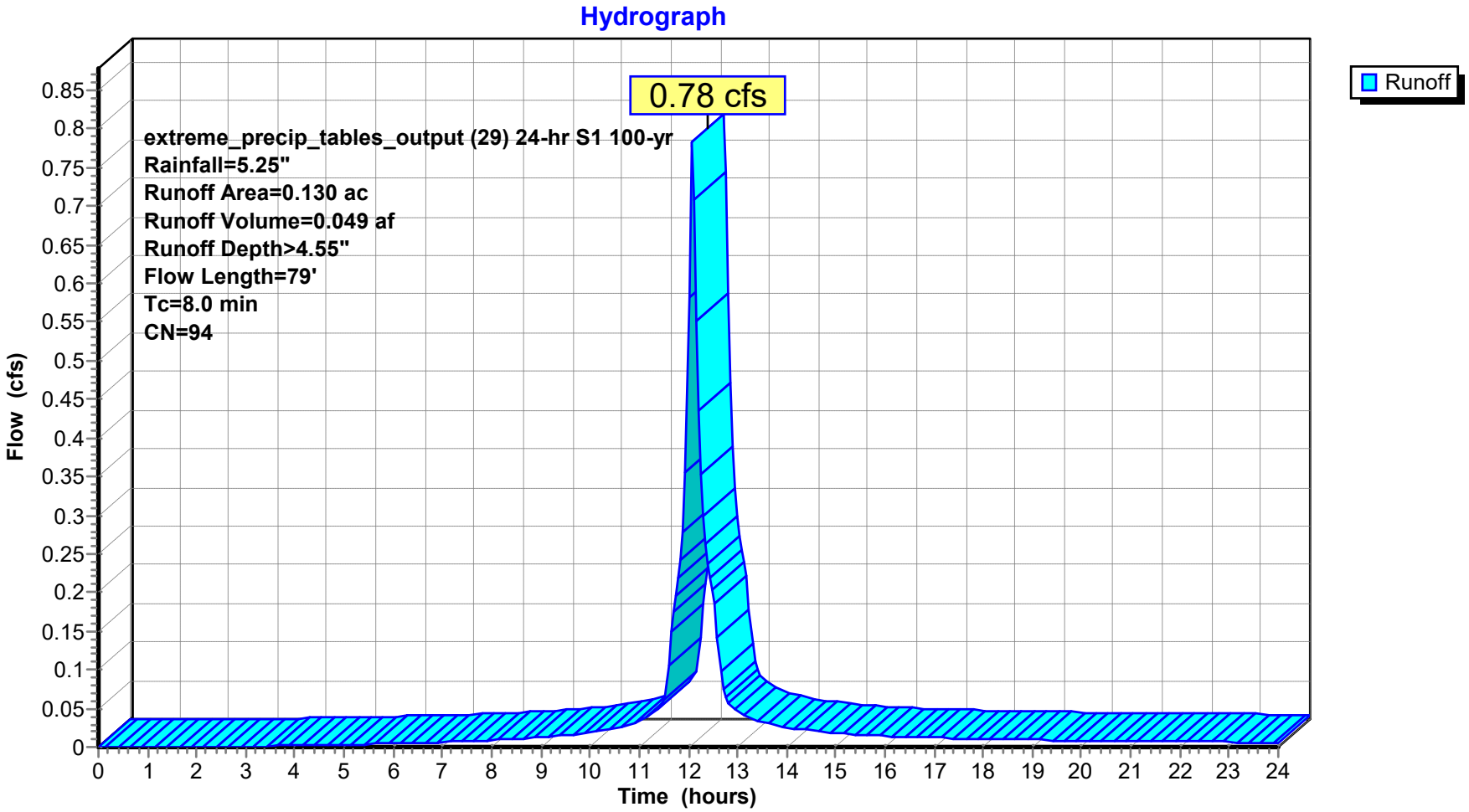
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 100-yr Rainfall=5.25"

Area (ac)	CN	Description
0.100	98	Paved parking, HSG D
0.030	80	>75% Grass cover, Good, HSG D
0.130	94	Weighted Average
0.030		23.08% Pervious Area
0.100		76.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	18	0.0408	0.09		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"
0.7	37	0.0196	0.93		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"
4.0	24	0.0429	0.10		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"
8.0	79	Total			



Subcatchment AQR: Area to Quaker Road



Hydrograph for Subcatchment AQR: Area to Quaker Road

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.67	0.25	0.01	18.00	4.89	4.20	0.01
0.25	0.01	0.00	0.00	9.25	0.71	0.27	0.01	18.25	4.91	4.22	0.01
0.50	0.02	0.00	0.00	9.50	0.74	0.30	0.01	18.50	4.93	4.24	0.01
0.75	0.04	0.00	0.00	9.75	0.79	0.33	0.02	18.75	4.95	4.26	0.01
1.00	0.05	0.00	0.00	10.00	0.83	0.37	0.02	19.00	4.97	4.28	0.01
1.25	0.06	0.00	0.00	10.25	0.88	0.41	0.02	19.25	4.99	4.29	0.01
1.50	0.07	0.00	0.00	10.50	0.94	0.45	0.02	19.50	5.00	4.31	0.01
1.75	0.09	0.00	0.00	10.75	1.00	0.51	0.03	19.75	5.02	4.33	0.01
2.00	0.10	0.00	0.00	11.00	1.08	0.57	0.03	20.00	5.03	4.34	0.01
2.25	0.11	0.00	0.00	11.25	1.17	0.65	0.04	20.25	5.05	4.36	0.01
2.50	0.13	0.00	0.00	11.50	1.30	0.76	0.06	20.50	5.07	4.37	0.01
2.75	0.14	0.00	0.00	11.75	1.73	1.14	0.20	20.75	5.08	4.39	0.01
3.00	0.16	0.00	0.00	12.00	2.90	2.25	**0.58**	21.00	5.10	4.40	0.01
3.25	0.17	0.00	0.00	12.25	3.58	2.91	**0.35**	21.25	5.11	4.42	0.01
3.50	0.19	0.00	0.00	12.50	3.98	3.30	0.20	21.50	5.12	4.43	0.01
3.75	0.20	0.01	0.00	12.75	4.09	3.42	0.06	21.75	5.14	4.44	0.01
4.00	0.22	0.01	0.00	13.00	4.18	3.50	0.05	22.00	5.15	4.46	0.01
4.25	0.23	0.01	0.00	13.25	4.26	3.58	0.04	22.25	5.16	4.47	0.01
4.50	0.25	0.02	0.00	13.50	4.32	3.64	0.03	22.50	5.18	4.48	0.01
4.75	0.27	0.02	0.00	13.75	4.38	3.69	0.03	22.75	5.19	4.50	0.01
5.00	0.28	0.03	0.00	14.00	4.43	3.74	0.03	23.00	5.20	4.51	0.01
5.25	0.30	0.04	0.00	14.25	4.47	3.79	0.02	23.25	5.21	4.52	0.01
5.50	0.32	0.04	0.00	14.50	4.51	3.83	0.02	23.50	5.23	4.53	0.01
5.75	0.34	0.05	0.00	14.75	4.55	3.86	0.02	23.75	5.24	4.54	0.01
6.00	0.36	0.06	0.00	15.00	4.58	3.90	0.02	24.00	**5.25**	**4.55**	0.01
6.25	0.38	0.07	0.01	15.25	4.62	3.93	0.02				
6.50	0.40	0.08	0.01	15.50	4.65	3.96	0.02				
6.75	0.42	0.09	0.01	15.75	4.68	3.99	0.02				
7.00	0.45	0.11	0.01	16.00	4.71	4.02	0.01				
7.25	0.47	0.12	0.01	16.25	4.73	4.05	0.01				
7.50	0.49	0.13	0.01	16.50	4.76	4.07	0.01				
7.75	0.52	0.15	0.01	16.75	4.78	4.09	0.01				
8.00	0.55	0.17	0.01	17.00	4.81	4.12	0.01				
8.25	0.57	0.18	0.01	17.25	4.83	4.14	0.01				
8.50	0.60	0.20	0.01	17.50	4.85	4.16	0.01				
8.75	0.64	0.23	0.01	17.75	4.87	4.18	0.01				

Summary for Subcatchment ASP: Area to Southern Property

Runoff = 0.46 cfs @ 12.32 hrs, Volume= 0.044 af, Depth> 3.10"
Routed to Link PRE : Pre-Development

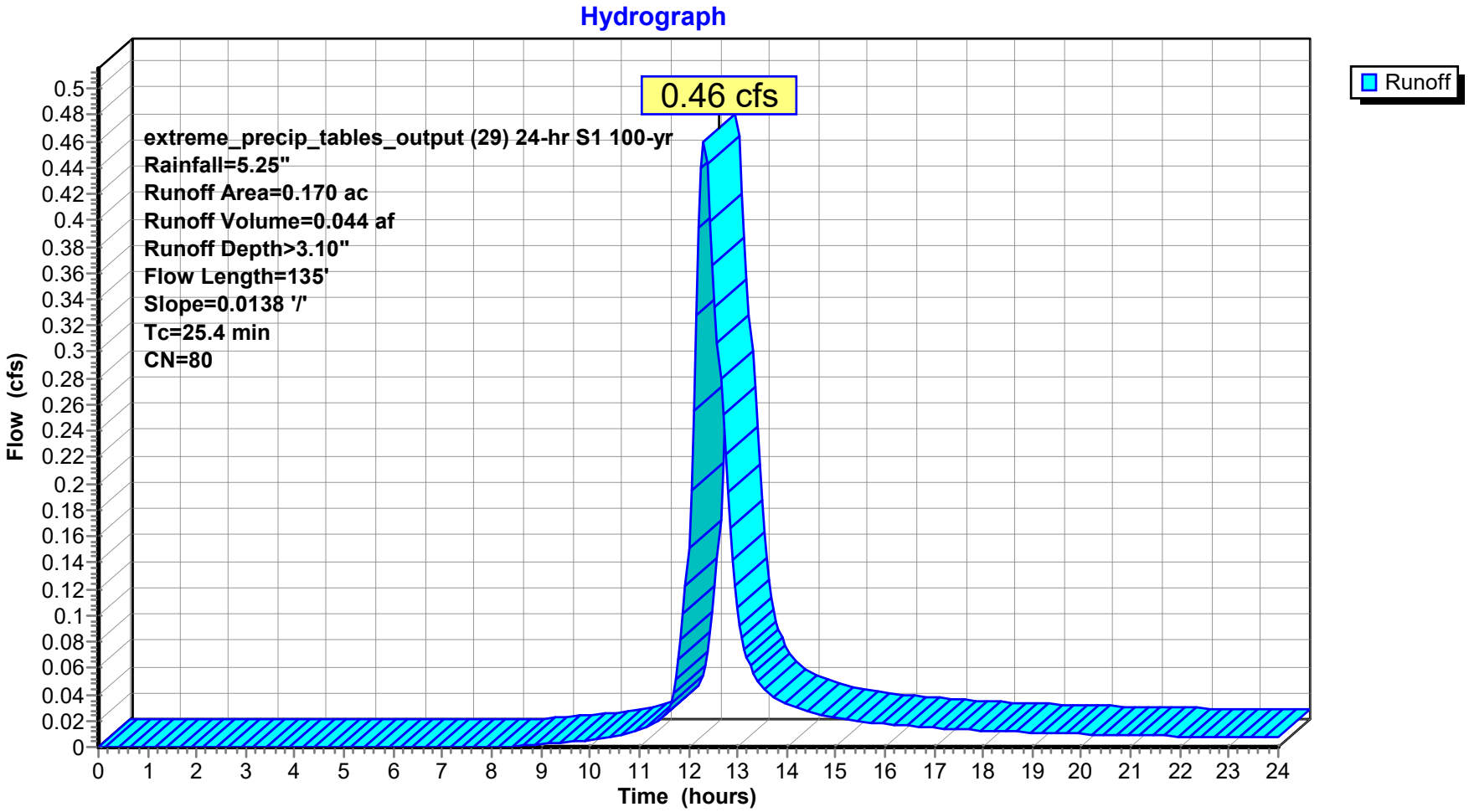
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 100-yr Rainfall=5.25"

Area (ac)	CN	Description
0.170	80	>75% Grass cover, Good, HSG D
0.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.4	135	0.0138	0.09		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment ASP: Area to Southern Property



Hydrograph for Subcatchment ASP: Area to Southern Property

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.67	0.01	0.00	18.00	4.89	2.80	0.01
0.25	0.01	0.00	0.00	9.25	0.71	0.02	0.00	18.25	4.91	2.82	0.01
0.50	0.02	0.00	0.00	9.50	0.74	0.02	0.00	18.50	4.93	2.83	0.01
0.75	0.04	0.00	0.00	9.75	0.79	0.03	0.00	18.75	4.95	2.85	0.01
1.00	0.05	0.00	0.00	10.00	0.83	0.04	0.01	19.00	4.97	2.86	0.01
1.25	0.06	0.00	0.00	10.25	0.88	0.05	0.01	19.25	4.99	2.88	0.01
1.50	0.07	0.00	0.00	10.50	0.94	0.07	0.01	19.50	5.00	2.89	0.01
1.75	0.09	0.00	0.00	10.75	1.00	0.08	0.01	19.75	5.02	2.91	0.01
2.00	0.10	0.00	0.00	11.00	1.08	0.11	0.01	20.00	5.03	2.92	0.01
2.25	0.11	0.00	0.00	11.25	1.17	0.14	0.02	20.25	5.05	2.94	0.01
2.50	0.13	0.00	0.00	11.50	1.30	0.19	0.02	20.50	5.07	2.95	0.01
2.75	0.14	0.00	0.00	11.75	1.73	0.40	0.05	20.75	5.08	2.96	0.01
3.00	0.16	0.00	0.00	12.00	2.90	1.17	0.15	21.00	5.10	2.98	0.01
3.25	0.17	0.00	0.00	12.25	3.58	1.70	**0.44**	21.25	5.11	2.99	0.01
3.50	0.19	0.00	0.00	12.50	3.98	2.02	**0.37**	21.50	5.12	3.00	0.01
3.75	0.20	0.00	0.00	12.75	4.09	2.12	0.22	21.75	5.14	3.01	0.01
4.00	0.22	0.00	0.00	13.00	4.18	2.19	0.11	22.00	5.15	3.02	0.01
4.25	0.23	0.00	0.00	13.25	4.26	2.26	0.06	22.25	5.16	3.04	0.01
4.50	0.25	0.00	0.00	13.50	4.32	2.31	0.05	22.50	5.18	3.05	0.01
4.75	0.27	0.00	0.00	13.75	4.38	2.36	0.04	22.75	5.19	3.06	0.01
5.00	0.28	0.00	0.00	14.00	4.43	2.40	0.03	23.00	5.20	3.07	0.01
5.25	0.30	0.00	0.00	14.25	4.47	2.44	0.03	23.25	5.21	3.08	0.01
5.50	0.32	0.00	0.00	14.50	4.51	2.47	0.03	23.50	5.23	3.09	0.01
5.75	0.34	0.00	0.00	14.75	4.55	2.50	0.02	23.75	5.24	3.10	0.01
6.00	0.36	0.00	0.00	15.00	4.58	2.53	0.02	24.00	**5.25**	**3.11**	0.01
6.25	0.38	0.00	0.00	15.25	4.62	2.56	0.02				
6.50	0.40	0.00	0.00	15.50	4.65	2.59	0.02				
6.75	0.42	0.00	0.00	15.75	4.68	2.61	0.02				
7.00	0.45	0.00	0.00	16.00	4.71	2.64	0.02				
7.25	0.47	0.00	0.00	16.25	4.73	2.66	0.02				
7.50	0.49	0.00	0.00	16.50	4.76	2.68	0.02				
7.75	0.52	0.00	0.00	16.75	4.78	2.71	0.02				
8.00	0.55	0.00	0.00	17.00	4.81	2.73	0.01				
8.25	0.57	0.00	0.00	17.25	4.83	2.74	0.01				
8.50	0.60	0.00	0.00	17.50	4.85	2.76	0.01				
8.75	0.64	0.01	0.00	17.75	4.87	2.78	0.01				

Summary for Subcatchment AWP: Area to Western Property

Runoff = 1.07 cfs @ 12.15 hrs, Volume= 0.078 af, Depth> 3.10"
Routed to Link PRE : Pre-Development

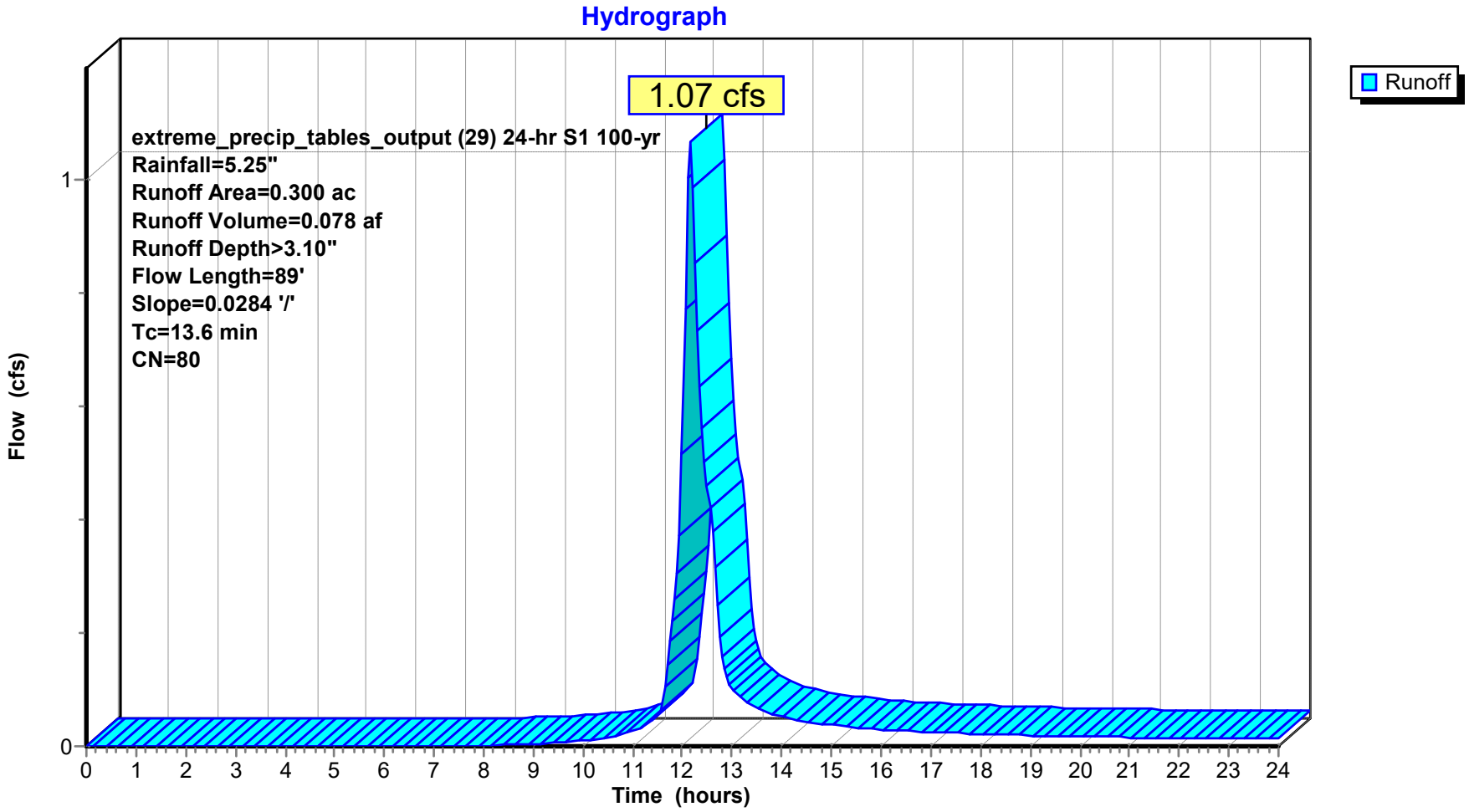
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 100-yr Rainfall=5.25"

Area (ac)	CN	Description
0.300	80	>75% Grass cover, Good, HSG D
0.300		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.6	89	0.0284	0.11		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment AWP: Area to Western Property



Hydrograph for Subcatchment AWP: Area to Western Property

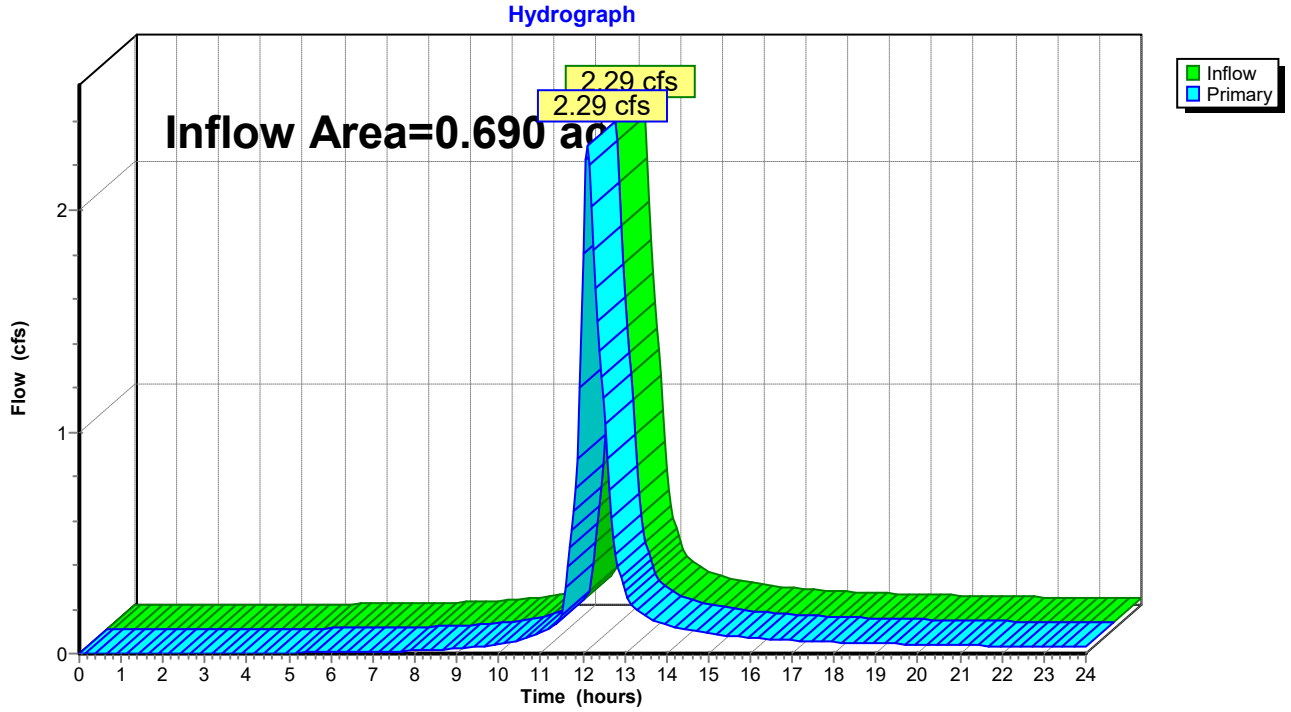
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.67	0.01	0.00	18.00	4.89	2.80	0.02
0.25	0.01	0.00	0.00	9.25	0.71	0.02	0.01	18.25	4.91	2.82	0.02
0.50	0.02	0.00	0.00	9.50	0.74	0.02	0.01	18.50	4.93	2.83	0.02
0.75	0.04	0.00	0.00	9.75	0.79	0.03	0.01	18.75	4.95	2.85	0.02
1.00	0.05	0.00	0.00	10.00	0.83	0.04	0.01	19.00	4.97	2.86	0.02
1.25	0.06	0.00	0.00	10.25	0.88	0.05	0.01	19.25	4.99	2.88	0.02
1.50	0.07	0.00	0.00	10.50	0.94	0.07	0.02	19.50	5.00	2.89	0.02
1.75	0.09	0.00	0.00	10.75	1.00	0.08	0.02	19.75	5.02	2.91	0.02
2.00	0.10	0.00	0.00	11.00	1.08	0.11	0.03	20.00	5.03	2.92	0.02
2.25	0.11	0.00	0.00	11.25	1.17	0.14	0.04	20.25	5.05	2.94	0.02
2.50	0.13	0.00	0.00	11.50	1.30	0.19	0.05	20.50	5.07	2.95	0.02
2.75	0.14	0.00	0.00	11.75	1.73	0.40	0.19	20.75	5.08	2.96	0.02
3.00	0.16	0.00	0.00	12.00	2.90	1.17	**0.52**	21.00	5.10	2.98	0.02
3.25	0.17	0.00	0.00	12.25	3.58	1.70	**0.85**	21.25	5.11	2.99	0.02
3.50	0.19	0.00	0.00	12.50	3.98	2.02	0.46	21.50	5.12	3.00	0.01
3.75	0.20	0.00	0.00	12.75	4.09	2.12	0.19	21.75	5.14	3.01	0.01
4.00	0.22	0.00	0.00	13.00	4.18	2.19	0.10	22.00	5.15	3.02	0.01
4.25	0.23	0.00	0.00	13.25	4.26	2.26	0.08	22.25	5.16	3.04	0.01
4.50	0.25	0.00	0.00	13.50	4.32	2.31	0.07	22.50	5.18	3.05	0.01
4.75	0.27	0.00	0.00	13.75	4.38	2.36	0.06	22.75	5.19	3.06	0.01
5.00	0.28	0.00	0.00	14.00	4.43	2.40	0.05	23.00	5.20	3.07	0.01
5.25	0.30	0.00	0.00	14.25	4.47	2.44	0.05	23.25	5.21	3.08	0.01
5.50	0.32	0.00	0.00	14.50	4.51	2.47	0.04	23.50	5.23	3.09	0.01
5.75	0.34	0.00	0.00	14.75	4.55	2.50	0.04	23.75	5.24	3.10	0.01
6.00	0.36	0.00	0.00	15.00	4.58	2.53	0.04	24.00	**5.25**	**3.11**	0.01
6.25	0.38	0.00	0.00	15.25	4.62	2.56	0.04				
6.50	0.40	0.00	0.00	15.50	4.65	2.59	0.03				
6.75	0.42	0.00	0.00	15.75	4.68	2.61	0.03				
7.00	0.45	0.00	0.00	16.00	4.71	2.64	0.03				
7.25	0.47	0.00	0.00	16.25	4.73	2.66	0.03				
7.50	0.49	0.00	0.00	16.50	4.76	2.68	0.03				
7.75	0.52	0.00	0.00	16.75	4.78	2.71	0.03				
8.00	0.55	0.00	0.00	17.00	4.81	2.73	0.02				
8.25	0.57	0.00	0.00	17.25	4.83	2.74	0.02				
8.50	0.60	0.00	0.00	17.50	4.85	2.76	0.02				
8.75	0.64	0.01	0.00	17.75	4.87	2.78	0.02				

Summary for Link PRE: Pre-Development

Inflow Area = 0.690 ac, 20.29% Impervious, Inflow Depth > 3.48" for 100-yr event
Inflow = 2.29 cfs @ 12.10 hrs, Volume= 0.200 af
Primary = 2.29 cfs @ 12.10 hrs, Volume= 0.200 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Link PRE: Pre-Development



Hydrograph for Link PRE: Pre-Development

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	9.00	0.02	0.00	0.02	18.00	0.05	0.00	0.05
0.25	0.00	0.00	0.00	9.25	0.03	0.00	0.03	18.25	0.05	0.00	0.05
0.50	0.00	0.00	0.00	9.50	0.03	0.00	0.03	18.50	0.05	0.00	0.05
0.75	0.00	0.00	0.00	9.75	0.04	0.00	0.04	18.75	0.05	0.00	0.05
1.00	0.00	0.00	0.00	10.00	0.04	0.00	0.04	19.00	0.05	0.00	0.05
1.25	0.00	0.00	0.00	10.25	0.05	0.00	0.05	19.25	0.04	0.00	0.04
1.50	0.00	0.00	0.00	10.50	0.06	0.00	0.06	19.50	0.04	0.00	0.04
1.75	0.00	0.00	0.00	10.75	0.07	0.00	0.07	19.75	0.04	0.00	0.04
2.00	0.00	0.00	0.00	11.00	0.09	0.00	0.09	20.00	0.04	0.00	0.04
2.25	0.00	0.00	0.00	11.25	0.12	0.00	0.12	20.25	0.04	0.00	0.04
2.50	0.00	0.00	0.00	11.50	0.17	0.00	0.17	20.50	0.04	0.00	0.04
2.75	0.00	0.00	0.00	11.75	0.56	0.00	0.56	20.75	0.04	0.00	0.04
3.00	0.00	0.00	0.00	12.00	**1.81**	0.00	**1.81**	21.00	0.04	0.00	0.04
3.25	0.00	0.00	0.00	12.25	**1.82**	0.00	**1.82**	21.25	0.04	0.00	0.04
3.50	0.00	0.00	0.00	12.50	1.15	0.00	1.15	21.50	0.04	0.00	0.04
3.75	0.00	0.00	0.00	12.75	0.52	0.00	0.52	21.75	0.03	0.00	0.03
4.00	0.00	0.00	0.00	13.00	0.28	0.00	0.28	22.00	0.03	0.00	0.03
4.25	0.00	0.00	0.00	13.25	0.20	0.00	0.20	22.25	0.03	0.00	0.03
4.50	0.00	0.00	0.00	13.50	0.17	0.00	0.17	22.50	0.03	0.00	0.03
4.75	0.00	0.00	0.00	13.75	0.14	0.00	0.14	22.75	0.03	0.00	0.03
5.00	0.00	0.00	0.00	14.00	0.13	0.00	0.13	23.00	0.03	0.00	0.03
5.25	0.00	0.00	0.00	14.25	0.12	0.00	0.12	23.25	0.03	0.00	0.03
5.50	0.00	0.00	0.00	14.50	0.11	0.00	0.11	23.50	0.03	0.00	0.03
5.75	0.00	0.00	0.00	14.75	0.10	0.00	0.10	23.75	0.03	0.00	0.03
6.00	0.01	0.00	0.01	15.00	0.09	0.00	0.09	24.00	0.03	0.00	0.03
6.25	0.01	0.00	0.01	15.25	0.08	0.00	0.08				
6.50	0.01	0.00	0.01	15.50	0.08	0.00	0.08				
6.75	0.01	0.00	0.01	15.75	0.08	0.00	0.08				
7.00	0.01	0.00	0.01	16.00	0.07	0.00	0.07				
7.25	0.01	0.00	0.01	16.25	0.07	0.00	0.07				
7.50	0.01	0.00	0.01	16.50	0.06	0.00	0.06				
7.75	0.01	0.00	0.01	16.75	0.06	0.00	0.06				
8.00	0.01	0.00	0.01	17.00	0.06	0.00	0.06				
8.25	0.01	0.00	0.01	17.25	0.06	0.00	0.06				
8.50	0.02	0.00	0.02	17.50	0.06	0.00	0.06				
8.75	0.02	0.00	0.02	17.75	0.05	0.00	0.05				



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4185 East Blood Road
Cowlesville, NY 14037

359 QUAKER ROAD MEDICAL OFFICES

359 Quaker Road
Town of Aurora, NY 14052

WARNING: ALTERATIONS TO THIS DOCUMENT NOT CONFORMING TO SECTION 7209, SUBDIVISION 2, STATE EDUCATION LAW, ARE PROHIBITED

REVISIONS

NO.	REVISION	DATE

October 2025

DRAWN/DESIGN BY	CHECKED BY
JS	JB

Post Development Drainage Areas

REVIEW SET NOT ISSUED FOR CONSTRUCTION

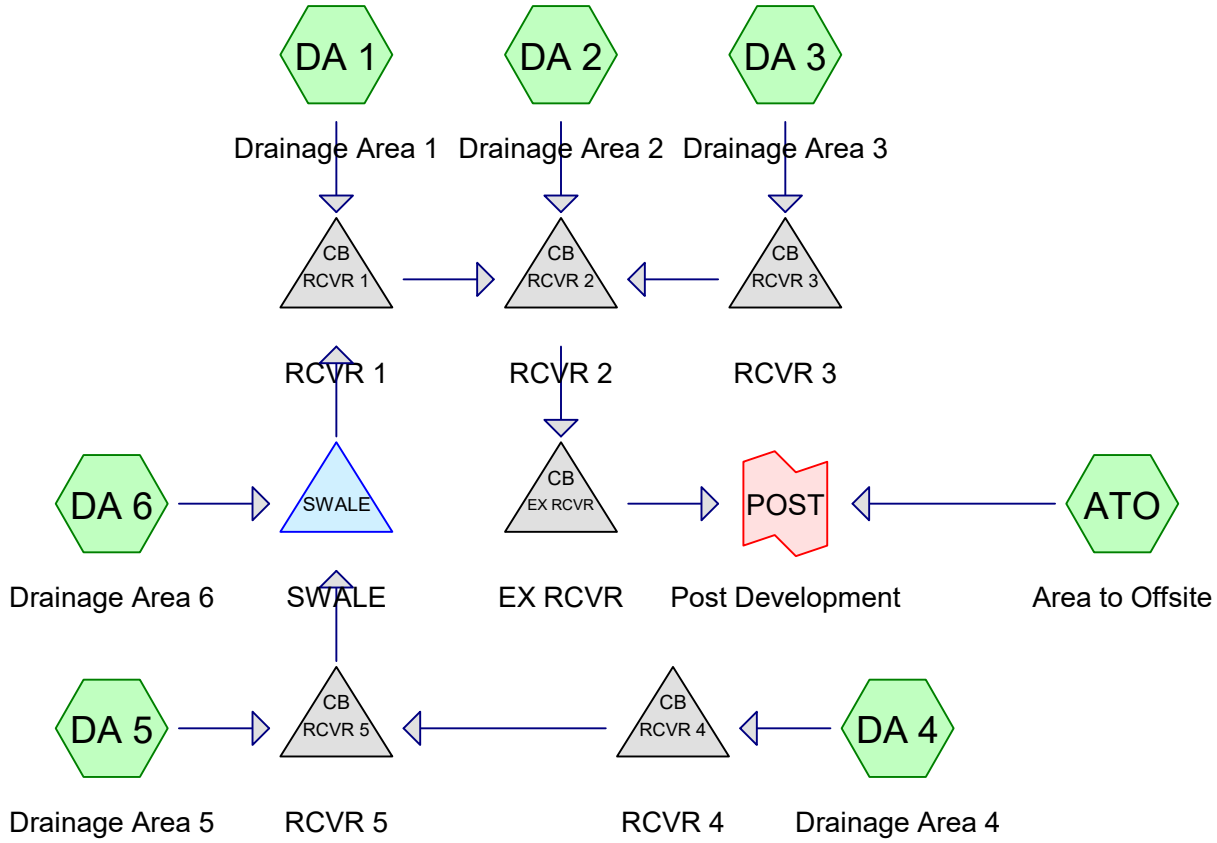
SCALE: 1" = 20'

WNY-2500056.00

01 of 01

N:\2025\WNY-2500056.00_359 QUAKER ROAD SITE PLAN\Design\Engineering\Drainage\WNY-2500056.00_Hydrology.dwg Thursday, 18 December 2025 4:15PM

Post Development



Subcat Reach Pond Link

Routing Diagram for WNY-2500056.00_HydroCAD
Prepared by Greenman-Pedersen, Inc, Printed 12/18/2025
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Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-yr	extreme_precip_tables_output (29) 24-hr S1	1-yr	Default	24.00	1	1.88	2
2	10-yr	extreme_precip_tables_output (29) 24-hr S1	10-yr	Default	24.00	1	3.14	2
3	25-yr	extreme_precip_tables_output (29) 24-hr S1	25-yr	Default	24.00	1	3.85	2
4	100-yr	extreme_precip_tables_output (29) 24-hr S1	100-yr	Default	24.00	1	5.25	2

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.300	80	>75% Grass cover, Good, HSG D (ATO, DA 3, DA 4, DA 6)
0.390	98	Paved parking, HSG D (DA 1, DA 2, DA 3, DA 4, DA 5, DA 6)
0.690	**90**	**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
0.690	HSG D	ATO, DA 1, DA 2, DA 3, DA 4, DA 5, DA 6
0.000	Other	
0.690		**TOTAL AREA**

Ground Covers (selected 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	0.000	0.300	0.000	0.300	>75% Grass cover, Good	ATO, DA 3, DA 4, DA 6
0.000	0.000	0.000	0.390	0.000	0.390	Paved parking	DA 1, DA 2, DA 3, DA 4, DA 5, DA 6
0.000	**0.000**	**0.000**	**0.690**	**0.000**	**0.690**	**TOTAL AREA**	

Pipe Listing (selected nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	Node Name
1	EX RCVR	899.60	899.23	121.0	0.0031	0.013	0.0	12.0	0.0	EX RCVR
2	RCVR 1	900.56	900.32	59.0	0.0041	0.013	0.0	8.0	0.0	RCVR 1
3	RCVR 2	900.32	899.60	72.0	0.0100	0.013	0.0	8.0	0.0	RCVR 2
4	RCVR 3	900.48	900.32	39.0	0.0041	0.013	0.0	8.0	0.0	RCVR 3
5	RCVR 4	901.13	901.04	22.0	0.0041	0.013	0.0	8.0	0.0	RCVR 4
6	RCVR 5	901.04	900.68	89.0	0.0040	0.013	0.0	8.0	0.0	RCVR 5
7	SWALE	900.68	900.55	32.0	0.0041	0.013	0.0	8.0	0.0	SWALE

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment ATO: Area to Offsite Runoff Area=0.190 ac 0.00% Impervious Runoff Depth>0.49"
Flow Length=60' Slope=0.0050 '/' Tc=30.0 min CN=80 Runoff=0.06 cfs 0.008 af

Subcatchment DA 1: Drainage Area 1 Runoff Area=0.060 ac 100.00% Impervious Runoff Depth>1.66"
Flow Length=80' Slope=0.0100 '/' Tc=1.6 min CN=98 Runoff=0.17 cfs 0.008 af

Subcatchment DA 2: Drainage Area 2 Runoff Area=0.010 ac 100.00% Impervious Runoff Depth>1.66"
Flow Length=35' Slope=0.0100 '/' Tc=0.8 min CN=98 Runoff=0.03 cfs 0.001 af

Subcatchment DA 3: Drainage Area 3 Runoff Area=0.150 ac 93.33% Impervious Runoff Depth>1.55"
Flow Length=75' Slope=0.0100 '/' Tc=7.2 min CN=97 Runoff=0.33 cfs 0.019 af

Subcatchment DA 4: Drainage Area 4 Runoff Area=0.080 ac 87.50% Impervious Runoff Depth>1.46"
Flow Length=20' Slope=0.0100 '/' Tc=6.3 min CN=96 Runoff=0.17 cfs 0.010 af

Subcatchment DA 5: Drainage Area 5 Runoff Area=0.050 ac 100.00% Impervious Runoff Depth>1.66"
Flow Length=60' Slope=0.0050 '/' Tc=1.7 min CN=98 Runoff=0.14 cfs 0.007 af

Subcatchment DA 6: Drainage Area 6 Runoff Area=0.150 ac 40.00% Impervious Runoff Depth>0.81"
Flow Length=40' Slope=0.0045 '/' Tc=15.0 min CN=87 Runoff=0.13 cfs 0.010 af

Pond EX RCVR: EX RCVR Peak Elev=900.03' Inflow=0.45 cfs 0.045 af
12.0" Round Culvert n=0.013 L=121.0' S=0.0031 '/' Outflow=0.45 cfs 0.045 af

Pond RCVR 1: RCVR 1 Peak Elev=900.87' Inflow=0.17 cfs 0.024 af
8.0" Round Culvert n=0.013 L=59.0' S=0.0041 '/' Outflow=0.17 cfs 0.024 af

Pond RCVR 2: RCVR 2 Peak Elev=900.73' Inflow=0.45 cfs 0.045 af
8.0" Round Culvert n=0.013 L=72.0' S=0.0100 '/' Outflow=0.45 cfs 0.045 af

Pond RCVR 3: RCVR 3 Peak Elev=900.92' Inflow=0.33 cfs 0.019 af
8.0" Round Culvert n=0.013 L=39.0' S=0.0041 '/' Outflow=0.33 cfs 0.019 af

Pond RCVR 4: RCVR 4 Peak Elev=901.49' Inflow=0.17 cfs 0.010 af
8.0" Round Culvert n=0.013 L=22.0' S=0.0041 '/' Outflow=0.17 cfs 0.010 af

Pond RCVR 5: RCVR 5 Peak Elev=901.41' Inflow=0.28 cfs 0.017 af
8.0" Round Culvert n=0.013 L=89.0' S=0.0040 '/' Outflow=0.28 cfs 0.017 af

Pond SWALE: SWALE Peak Elev=900.91' Storage=624 cf Inflow=0.34 cfs 0.027 af
8.0" Round Culvert n=0.013 L=32.0' S=0.0041 '/' Outflow=0.09 cfs 0.016 af

Link POST: Post Development Inflow=0.45 cfs 0.053 af
Primary=0.45 cfs 0.053 af

Total Runoff Area = 0.690 ac Runoff Volume = 0.063 af Average Runoff Depth = 1.10"
43.48% Pervious = 0.300 ac 56.52% Impervious = 0.390 ac

Summary for Subcatchment ATO: Area to Offsite

Runoff = 0.06 cfs @ 12.42 hrs, Volume= 0.008 af, Depth> 0.49"
Routed to Link POST : Post Development

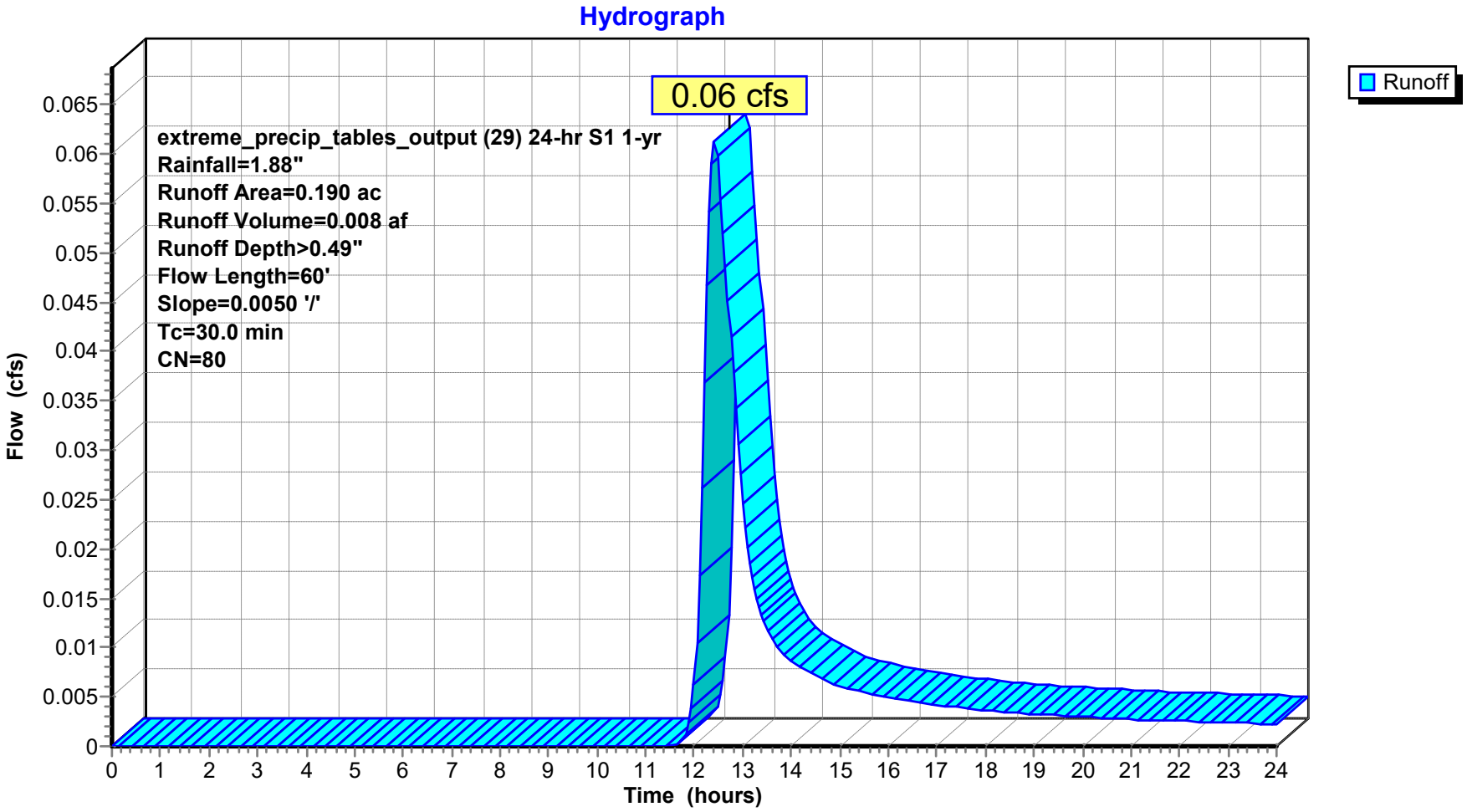
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 1-yr Rainfall=1.88"

Area (ac)	CN	Description
0.190	80	>75% Grass cover, Good, HSG D
0.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.0	60	0.0050	0.03		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.20"



Subcatchment ATO: Area to Offsite



Hydrograph for Subcatchment ATO: Area to Offsite

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.28	0.00	0.00	18.00	1.73	0.41	0.00
0.25	0.00	0.00	0.00	9.25	0.29	0.00	0.00	18.25	1.74	0.41	0.00
0.50	0.01	0.00	0.00	9.50	0.31	0.00	0.00	18.50	1.75	0.41	0.00
0.75	0.02	0.00	0.00	9.75	0.32	0.00	0.00	18.75	1.75	0.42	0.00
1.00	0.02	0.00	0.00	10.00	0.34	0.00	0.00	19.00	1.76	0.42	0.00
1.25	0.03	0.00	0.00	10.25	0.36	0.00	0.00	19.25	1.77	0.43	0.00
1.50	0.03	0.00	0.00	10.50	0.38	0.00	0.00	19.50	1.78	0.43	0.00
1.75	0.04	0.00	0.00	10.75	0.41	0.00	0.00	19.75	1.78	0.44	0.00
2.00	0.04	0.00	0.00	11.00	0.44	0.00	0.00	20.00	1.79	0.44	0.00
2.25	0.05	0.00	0.00	11.25	0.47	0.00	0.00	20.25	1.80	0.44	0.00
2.50	0.05	0.00	0.00	11.50	0.52	0.00	0.00	20.50	1.80	0.45	0.00
2.75	0.06	0.00	0.00	11.75	0.64	0.01	0.00	20.75	1.81	0.45	0.00
3.00	0.07	0.00	0.00	12.00	1.05	0.10	0.01	21.00	1.81	0.45	0.00
3.25	0.07	0.00	0.00	12.25	1.26	0.18	**0.05**	21.25	1.82	0.46	0.00
3.50	0.08	0.00	0.00	12.50	1.37	0.22	**0.06**	21.50	1.83	0.46	0.00
3.75	0.08	0.00	0.00	12.75	1.41	0.24	0.04	21.75	1.83	0.46	0.00
4.00	0.09	0.00	0.00	13.00	1.45	0.26	0.02	22.00	1.84	0.47	0.00
4.25	0.10	0.00	0.00	13.25	1.48	0.27	0.02	22.25	1.84	0.47	0.00
4.50	0.10	0.00	0.00	13.50	1.50	0.29	0.01	22.50	1.85	0.47	0.00
4.75	0.11	0.00	0.00	13.75	1.52	0.30	0.01	22.75	1.85	0.48	0.00
5.00	0.12	0.00	0.00	14.00	1.54	0.31	0.01	23.00	1.86	0.48	0.00
5.25	0.13	0.00	0.00	14.25	1.56	0.32	0.01	23.25	1.86	0.48	0.00
5.50	0.13	0.00	0.00	14.50	1.58	0.32	0.01	23.50	1.87	0.49	0.00
5.75	0.14	0.00	0.00	14.75	1.59	0.33	0.01	23.75	1.88	0.49	0.00
6.00	0.15	0.00	0.00	15.00	1.61	0.34	0.01	24.00	**1.88**	**0.49**	0.00
6.25	0.16	0.00	0.00	15.25	1.62	0.35	0.01				
6.50	0.17	0.00	0.00	15.50	1.63	0.35	0.01				
6.75	0.18	0.00	0.00	15.75	1.64	0.36	0.01				
7.00	0.19	0.00	0.00	16.00	1.66	0.37	0.00				
7.25	0.19	0.00	0.00	16.25	1.67	0.37	0.00				
7.50	0.20	0.00	0.00	16.50	1.68	0.38	0.00				
7.75	0.22	0.00	0.00	16.75	1.69	0.38	0.00				
8.00	0.23	0.00	0.00	17.00	1.70	0.39	0.00				
8.25	0.24	0.00	0.00	17.25	1.71	0.39	0.00				
8.50	0.25	0.00	0.00	17.50	1.71	0.40	0.00				
8.75	0.26	0.00	0.00	17.75	1.72	0.40	0.00				

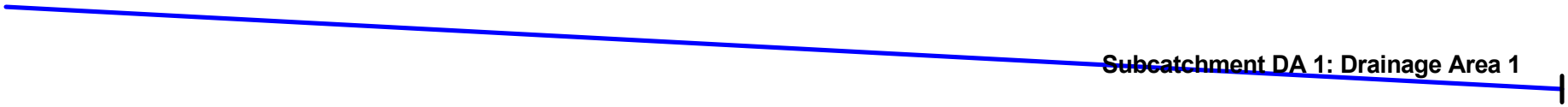
Summary for Subcatchment DA 1: Drainage Area 1

Runoff = 0.17 cfs @ 11.98 hrs, Volume= 0.008 af, Depth> 1.66"
Routed to Pond RCVR 1 : RCVR 1

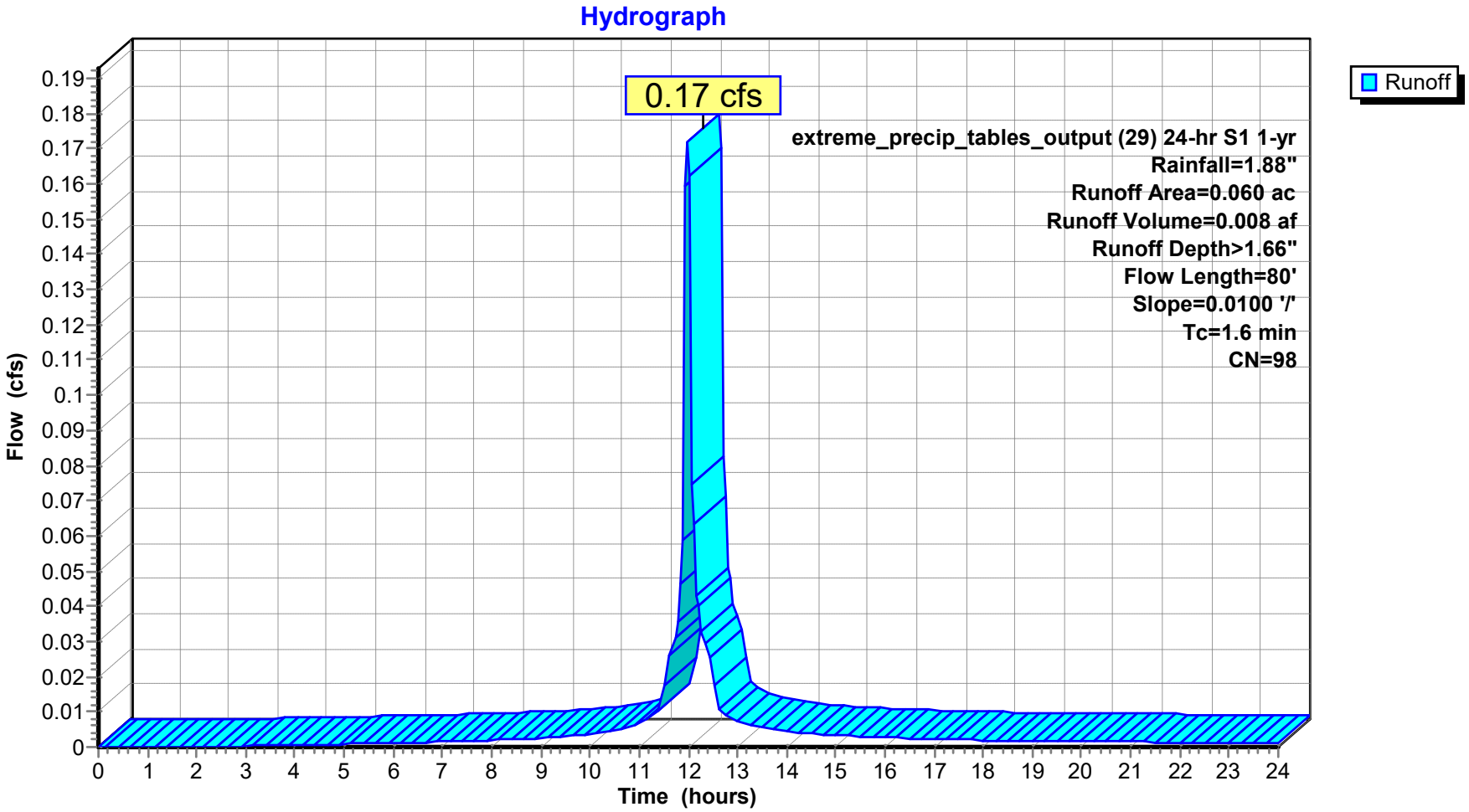
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 1-yr Rainfall=1.88"

Area (ac)	CN	Description
0.060	98	Paved parking, HSG D
0.060		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	80	0.0100	0.83		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"



Subcatchment DA 1: Drainage Area 1



Hydrograph for Subcatchment DA 1: Drainage Area 1

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.28	0.13	0.00	18.00	1.73	1.51	0.00
0.25	0.00	0.00	0.00	9.25	0.29	0.14	0.00	18.25	1.74	1.52	0.00
0.50	0.01	0.00	0.00	9.50	0.31	0.15	0.00	18.50	1.75	1.52	0.00
0.75	0.02	0.00	0.00	9.75	0.32	0.16	0.00	18.75	1.75	1.53	0.00
1.00	0.02	0.00	0.00	10.00	0.34	0.18	0.00	19.00	1.76	1.54	0.00
1.25	0.03	0.00	0.00	10.25	0.36	0.20	0.00	19.25	1.77	1.55	0.00
1.50	0.03	0.00	0.00	10.50	0.38	0.21	0.00	19.50	1.78	1.55	0.00
1.75	0.04	0.00	0.00	10.75	0.41	0.24	0.01	19.75	1.78	1.56	0.00
2.00	0.04	0.00	0.00	11.00	0.44	0.26	0.01	20.00	1.79	1.57	0.00
2.25	0.05	0.00	0.00	11.25	0.47	0.29	0.01	20.25	1.80	1.57	0.00
2.50	0.05	0.00	0.00	11.50	0.52	0.34	0.01	20.50	1.80	1.58	0.00
2.75	0.06	0.00	0.00	11.75	0.64	0.45	0.03	20.75	1.81	1.59	0.00
3.00	0.07	0.00	0.00	12.00	1.05	0.84	**0.16**	21.00	1.81	1.59	0.00
3.25	0.07	0.00	0.00	12.25	1.26	1.04	0.03	21.25	1.82	1.60	0.00
3.50	0.08	0.01	0.00	12.50	1.37	1.15	0.02	21.50	1.83	1.60	0.00
3.75	0.08	0.01	0.00	12.75	1.41	1.20	0.01	21.75	1.83	1.61	0.00
4.00	0.09	0.01	0.00	13.00	1.45	1.23	0.01	22.00	1.84	1.61	0.00
4.25	0.10	0.01	0.00	13.25	1.48	1.26	0.01	22.25	1.84	1.62	0.00
4.50	0.10	0.02	0.00	13.50	1.50	1.28	0.01	22.50	1.85	1.63	0.00
4.75	0.11	0.02	0.00	13.75	1.52	1.30	0.00	22.75	1.85	1.63	0.00
5.00	0.12	0.02	0.00	14.00	1.54	1.32	0.00	23.00	1.86	1.64	0.00
5.25	0.13	0.03	0.00	14.25	1.56	1.34	0.00	23.25	1.86	1.64	0.00
5.50	0.13	0.03	0.00	14.50	1.58	1.36	0.00	23.50	1.87	1.65	0.00
5.75	0.14	0.03	0.00	14.75	1.59	1.37	0.00	23.75	1.88	1.65	0.00
6.00	0.15	0.04	0.00	15.00	1.61	1.38	0.00	24.00	**1.88**	**1.66**	0.00
6.25	0.16	0.04	0.00	15.25	1.62	1.40	0.00				
6.50	0.17	0.05	0.00	15.50	1.63	1.41	0.00				
6.75	0.18	0.05	0.00	15.75	1.64	1.42	0.00				
7.00	0.19	0.06	0.00	16.00	1.66	1.43	0.00				
7.25	0.19	0.07	0.00	16.25	1.67	1.44	0.00				
7.50	0.20	0.07	0.00	16.50	1.68	1.45	0.00				
7.75	0.22	0.08	0.00	16.75	1.69	1.46	0.00				
8.00	0.23	0.09	0.00	17.00	1.70	1.47	0.00				
8.25	0.24	0.10	0.00	17.25	1.71	1.48	0.00				
8.50	0.25	0.11	0.00	17.50	1.71	1.49	0.00				
8.75	0.26	0.12	0.00	17.75	1.72	1.50	0.00				

Summary for Subcatchment DA 2: Drainage Area 2

Runoff = 0.03 cfs @ 11.96 hrs, Volume= 0.001 af, Depth> 1.66"
Routed to Pond RCVR 2 : RCVR 2

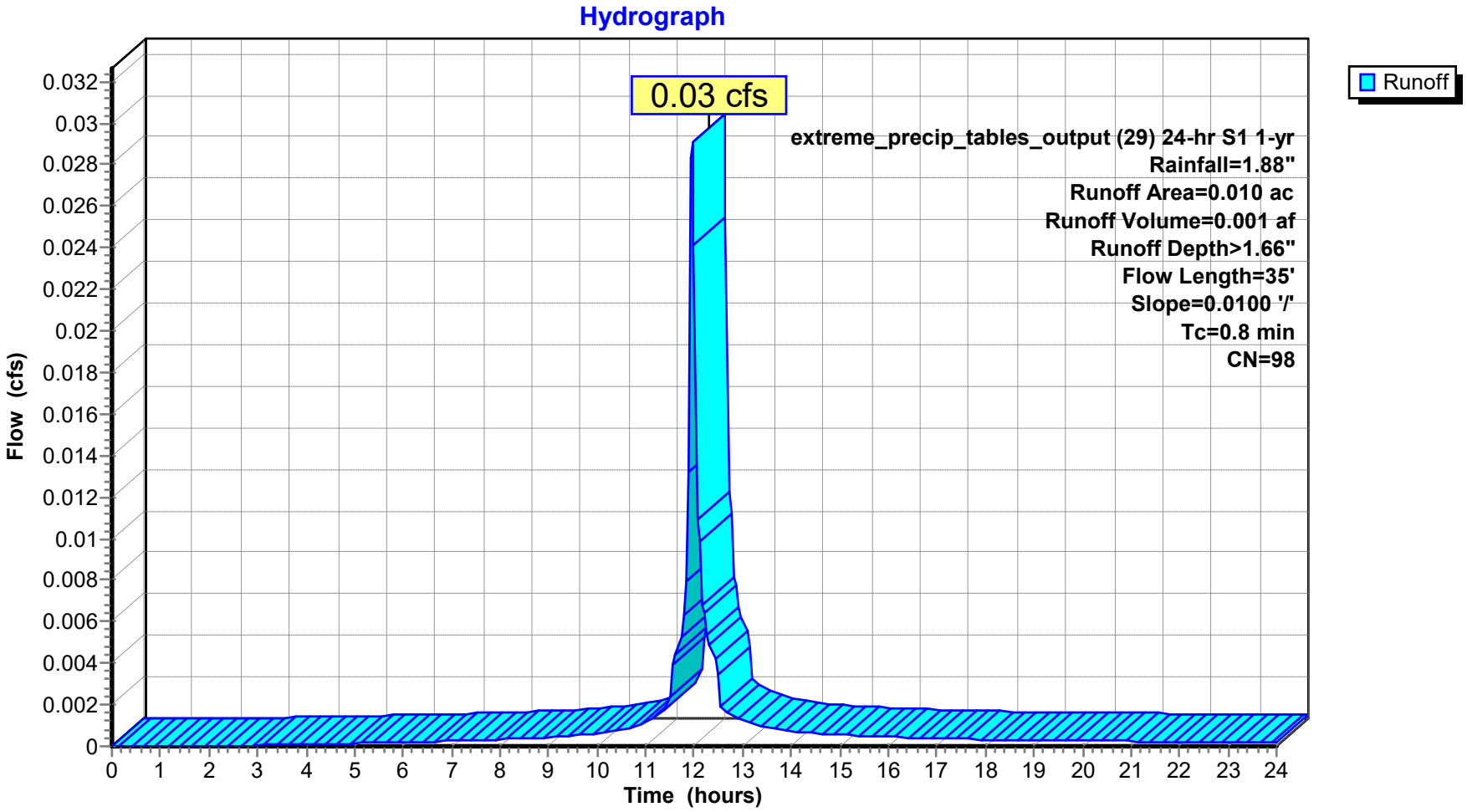
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 1-yr Rainfall=1.88"

Area (ac)	CN	Description
0.010	98	Paved parking, HSG D
0.010		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	35	0.0100	0.70		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"



Subcatchment DA 2: Drainage Area 2



Hydrograph for Subcatchment DA 2: Drainage Area 2

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.28	0.13	0.00	18.00	1.73	1.51	0.00
0.25	0.00	0.00	0.00	9.25	0.29	0.14	0.00	18.25	1.74	1.52	0.00
0.50	0.01	0.00	0.00	9.50	0.31	0.15	0.00	18.50	1.75	1.52	0.00
0.75	0.02	0.00	0.00	9.75	0.32	0.16	0.00	18.75	1.75	1.53	0.00
1.00	0.02	0.00	0.00	10.00	0.34	0.18	0.00	19.00	1.76	1.54	0.00
1.25	0.03	0.00	0.00	10.25	0.36	0.20	0.00	19.25	1.77	1.55	0.00
1.50	0.03	0.00	0.00	10.50	0.38	0.21	0.00	19.50	1.78	1.55	0.00
1.75	0.04	0.00	0.00	10.75	0.41	0.24	0.00	19.75	1.78	1.56	0.00
2.00	0.04	0.00	0.00	11.00	0.44	0.26	0.00	20.00	1.79	1.57	0.00
2.25	0.05	0.00	0.00	11.25	0.47	0.29	0.00	20.25	1.80	1.57	0.00
2.50	0.05	0.00	0.00	11.50	0.52	0.34	0.00	20.50	1.80	1.58	0.00
2.75	0.06	0.00	0.00	11.75	0.64	0.45	**0.01**	20.75	1.81	1.59	0.00
3.00	0.07	0.00	0.00	12.00	1.05	0.84	**0.02**	21.00	1.81	1.59	0.00
3.25	0.07	0.00	0.00	12.25	1.26	1.04	0.01	21.25	1.82	1.60	0.00
3.50	0.08	0.01	0.00	12.50	1.37	1.15	0.00	21.50	1.83	1.60	0.00
3.75	0.08	0.01	0.00	12.75	1.41	1.20	0.00	21.75	1.83	1.61	0.00
4.00	0.09	0.01	0.00	13.00	1.45	1.23	0.00	22.00	1.84	1.61	0.00
4.25	0.10	0.01	0.00	13.25	1.48	1.26	0.00	22.25	1.84	1.62	0.00
4.50	0.10	0.02	0.00	13.50	1.50	1.28	0.00	22.50	1.85	1.63	0.00
4.75	0.11	0.02	0.00	13.75	1.52	1.30	0.00	22.75	1.85	1.63	0.00
5.00	0.12	0.02	0.00	14.00	1.54	1.32	0.00	23.00	1.86	1.64	0.00
5.25	0.13	0.03	0.00	14.25	1.56	1.34	0.00	23.25	1.86	1.64	0.00
5.50	0.13	0.03	0.00	14.50	1.58	1.36	0.00	23.50	1.87	1.65	0.00
5.75	0.14	0.03	0.00	14.75	1.59	1.37	0.00	23.75	1.88	1.65	0.00
6.00	0.15	0.04	0.00	15.00	1.61	1.38	0.00	24.00	**1.88**	**1.66**	0.00
6.25	0.16	0.04	0.00	15.25	1.62	1.40	0.00				
6.50	0.17	0.05	0.00	15.50	1.63	1.41	0.00				
6.75	0.18	0.05	0.00	15.75	1.64	1.42	0.00				
7.00	0.19	0.06	0.00	16.00	1.66	1.43	0.00				
7.25	0.19	0.07	0.00	16.25	1.67	1.44	0.00				
7.50	0.20	0.07	0.00	16.50	1.68	1.45	0.00				
7.75	0.22	0.08	0.00	16.75	1.69	1.46	0.00				
8.00	0.23	0.09	0.00	17.00	1.70	1.47	0.00				
8.25	0.24	0.10	0.00	17.25	1.71	1.48	0.00				
8.50	0.25	0.11	0.00	17.50	1.71	1.49	0.00				
8.75	0.26	0.12	0.00	17.75	1.72	1.50	0.00				

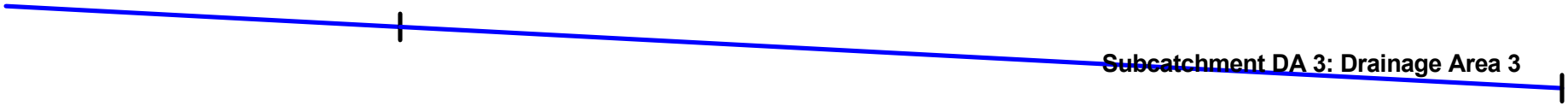
Summary for Subcatchment DA 3: Drainage Area 3

Runoff = 0.33 cfs @ 12.05 hrs, Volume= 0.019 af, Depth> 1.55"
Routed to Pond RCVR 3 : RCVR 3

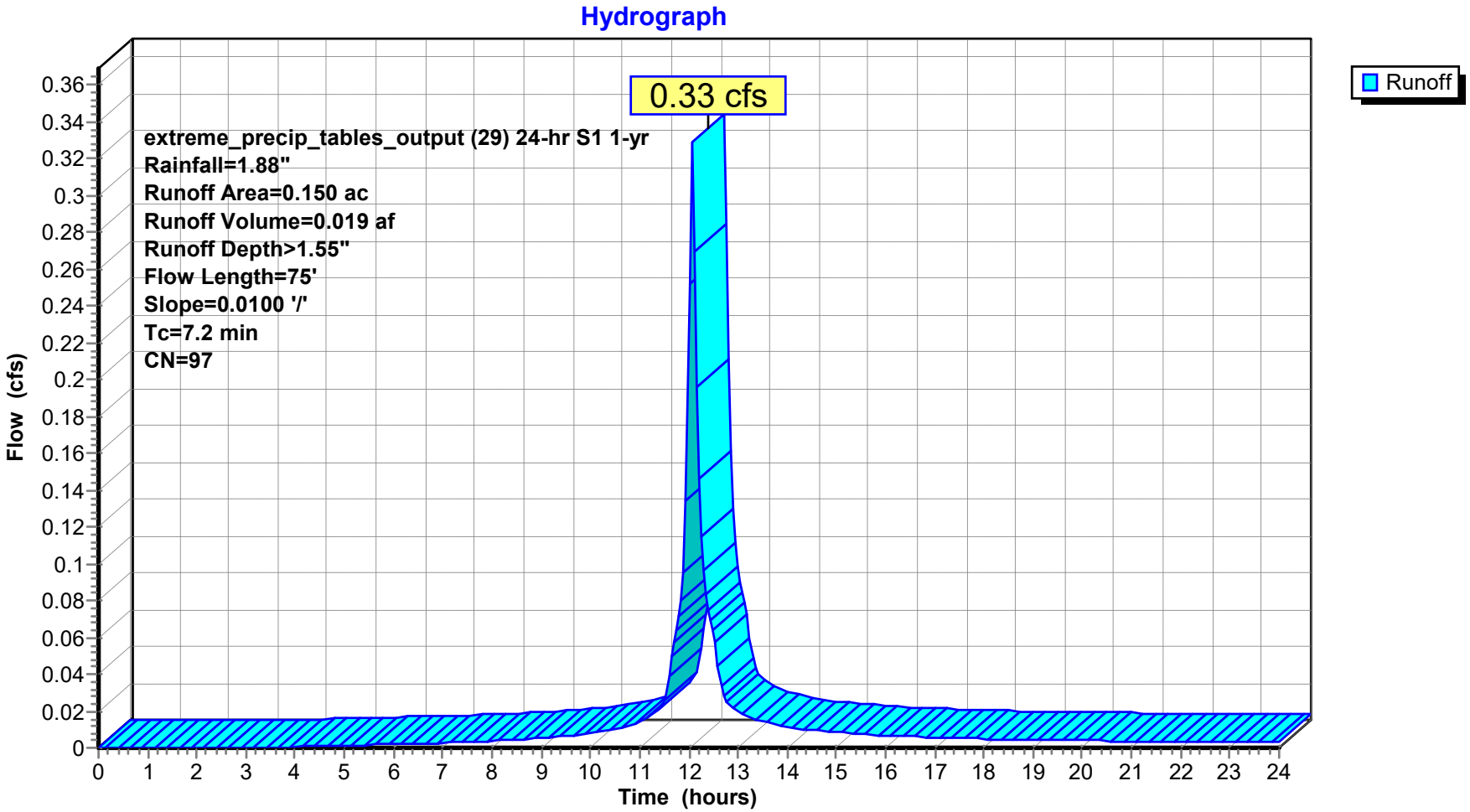
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 1-yr Rainfall=1.88"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.010	80	>75% Grass cover, Good, HSG D
0.150	97	Weighted Average
0.010		6.67% Pervious Area
0.140		93.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	19	0.0100	0.05		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"
1.2	56	0.0100	0.77		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"
7.2	75	Total			



Subcatchment DA 3: Drainage Area 3



Hydrograph for Subcatchment DA 3: Drainage Area 3

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.28	0.09	0.01	18.00	1.73	1.41	0.00
0.25	0.00	0.00	0.00	9.25	0.29	0.10	0.01	18.25	1.74	1.42	0.00
0.50	0.01	0.00	0.00	9.50	0.31	0.11	0.01	18.50	1.75	1.42	0.00
0.75	0.02	0.00	0.00	9.75	0.32	0.12	0.01	18.75	1.75	1.43	0.00
1.00	0.02	0.00	0.00	10.00	0.34	0.13	0.01	19.00	1.76	1.44	0.00
1.25	0.03	0.00	0.00	10.25	0.36	0.15	0.01	19.25	1.77	1.45	0.00
1.50	0.03	0.00	0.00	10.50	0.38	0.16	0.01	19.50	1.78	1.45	0.00
1.75	0.04	0.00	0.00	10.75	0.41	0.18	0.01	19.75	1.78	1.46	0.00
2.00	0.04	0.00	0.00	11.00	0.44	0.21	0.01	20.00	1.79	1.47	0.00
2.25	0.05	0.00	0.00	11.25	0.47	0.23	0.02	20.25	1.80	1.47	0.00
2.50	0.05	0.00	0.00	11.50	0.52	0.27	0.02	20.50	1.80	1.48	0.00
2.75	0.06	0.00	0.00	11.75	0.64	0.38	0.06	20.75	1.81	1.48	0.00
3.00	0.07	0.00	0.00	12.00	1.05	0.75	**0.25**	21.00	1.81	1.49	0.00
3.25	0.07	0.00	0.00	12.25	1.26	0.95	**0.12**	21.25	1.82	1.50	0.00
3.50	0.08	0.00	0.00	12.50	1.37	1.06	0.06	21.50	1.83	1.50	0.00
3.75	0.08	0.00	0.00	12.75	1.41	1.10	0.03	21.75	1.83	1.51	0.00
4.00	0.09	0.00	0.00	13.00	1.45	1.13	0.02	22.00	1.84	1.51	0.00
4.25	0.10	0.00	0.00	13.25	1.48	1.16	0.02	22.25	1.84	1.52	0.00
4.50	0.10	0.01	0.00	13.50	1.50	1.18	0.01	22.50	1.85	1.52	0.00
4.75	0.11	0.01	0.00	13.75	1.52	1.21	0.01	22.75	1.85	1.53	0.00
5.00	0.12	0.01	0.00	14.00	1.54	1.22	0.01	23.00	1.86	1.53	0.00
5.25	0.13	0.01	0.00	14.25	1.56	1.24	0.01	23.25	1.86	1.54	0.00
5.50	0.13	0.01	0.00	14.50	1.58	1.26	0.01	23.50	1.87	1.54	0.00
5.75	0.14	0.02	0.00	14.75	1.59	1.27	0.01	23.75	1.88	1.55	0.00
6.00	0.15	0.02	0.00	15.00	1.61	1.29	0.01	24.00	**1.88**	**1.55**	0.00
6.25	0.16	0.02	0.00	15.25	1.62	1.30	0.01				
6.50	0.17	0.03	0.00	15.50	1.63	1.31	0.01				
6.75	0.18	0.03	0.00	15.75	1.64	1.32	0.01				
7.00	0.19	0.04	0.00	16.00	1.66	1.33	0.01				
7.25	0.19	0.04	0.00	16.25	1.67	1.34	0.01				
7.50	0.20	0.05	0.00	16.50	1.68	1.35	0.01				
7.75	0.22	0.05	0.00	16.75	1.69	1.36	0.01				
8.00	0.23	0.06	0.00	17.00	1.70	1.37	0.01				
8.25	0.24	0.06	0.00	17.25	1.71	1.38	0.01				
8.50	0.25	0.07	0.00	17.50	1.71	1.39	0.01				
8.75	0.26	0.08	0.00	17.75	1.72	1.40	0.01				

Summary for Subcatchment DA 4: Drainage Area 4

Runoff = 0.17 cfs @ 12.04 hrs, Volume= 0.010 af, Depth> 1.46"
Routed to Pond RCVR 4 : RCVR 4

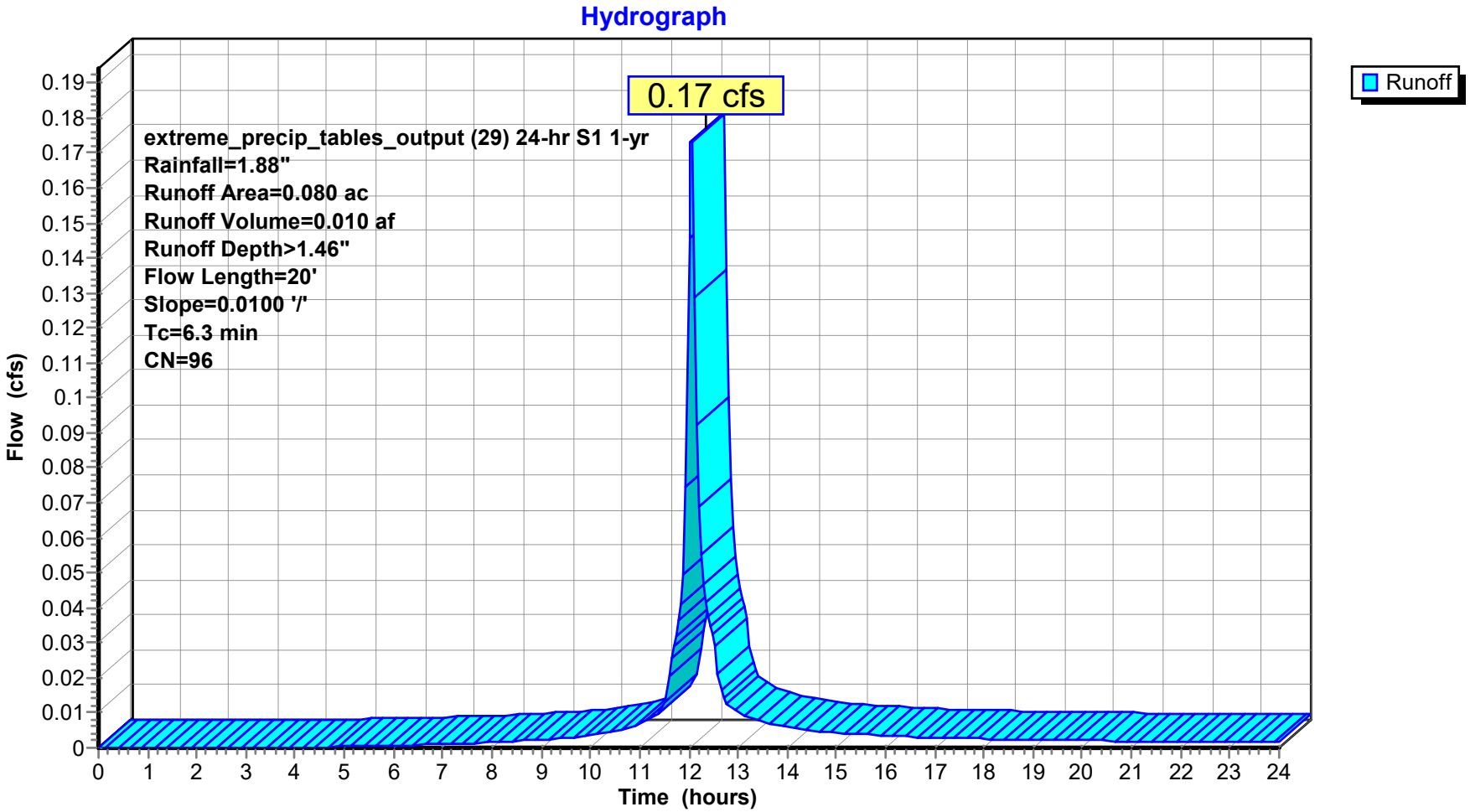
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 1-yr Rainfall=1.88"

Area (ac)	CN	Description
0.070	98	Paved parking, HSG D
0.010	80	>75% Grass cover, Good, HSG D
0.080	96	Weighted Average
0.010		12.50% Pervious Area
0.070		87.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	20	0.0100	0.05		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment DA 4: Drainage Area 4



Hydrograph for Subcatchment DA 4: Drainage Area 4

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.28	0.06	0.00	18.00	1.73	1.32	0.00
0.25	0.00	0.00	0.00	9.25	0.29	0.07	0.00	18.25	1.74	1.32	0.00
0.50	0.01	0.00	0.00	9.50	0.31	0.08	0.00	18.50	1.75	1.33	0.00
0.75	0.02	0.00	0.00	9.75	0.32	0.09	0.00	18.75	1.75	1.34	0.00
1.00	0.02	0.00	0.00	10.00	0.34	0.10	0.00	19.00	1.76	1.34	0.00
1.25	0.03	0.00	0.00	10.25	0.36	0.11	0.00	19.25	1.77	1.35	0.00
1.50	0.03	0.00	0.00	10.50	0.38	0.13	0.00	19.50	1.78	1.36	0.00
1.75	0.04	0.00	0.00	10.75	0.41	0.14	0.01	19.75	1.78	1.36	0.00
2.00	0.04	0.00	0.00	11.00	0.44	0.16	0.01	20.00	1.79	1.37	0.00
2.25	0.05	0.00	0.00	11.25	0.47	0.19	0.01	20.25	1.80	1.38	0.00
2.50	0.05	0.00	0.00	11.50	0.52	0.22	0.01	20.50	1.80	1.38	0.00
2.75	0.06	0.00	0.00	11.75	0.64	0.32	0.03	20.75	1.81	1.39	0.00
3.00	0.07	0.00	0.00	12.00	1.05	0.68	**0.15**	21.00	1.81	1.40	0.00
3.25	0.07	0.00	0.00	12.25	1.26	0.87	**0.06**	21.25	1.82	1.40	0.00
3.50	0.08	0.00	0.00	12.50	1.37	0.97	0.03	21.50	1.83	1.41	0.00
3.75	0.08	0.00	0.00	12.75	1.41	1.01	0.01	21.75	1.83	1.41	0.00
4.00	0.09	0.00	0.00	13.00	1.45	1.05	0.01	22.00	1.84	1.42	0.00
4.25	0.10	0.00	0.00	13.25	1.48	1.07	0.01	22.25	1.84	1.42	0.00
4.50	0.10	0.00	0.00	13.50	1.50	1.10	0.01	22.50	1.85	1.43	0.00
4.75	0.11	0.00	0.00	13.75	1.52	1.12	0.01	22.75	1.85	1.43	0.00
5.00	0.12	0.00	0.00	14.00	1.54	1.13	0.01	23.00	1.86	1.44	0.00
5.25	0.13	0.00	0.00	14.25	1.56	1.15	0.01	23.25	1.86	1.44	0.00
5.50	0.13	0.01	0.00	14.50	1.58	1.17	0.00	23.50	1.87	1.45	0.00
5.75	0.14	0.01	0.00	14.75	1.59	1.18	0.00	23.75	1.88	1.45	0.00
6.00	0.15	0.01	0.00	15.00	1.61	1.20	0.00	24.00	**1.88**	**1.46**	0.00
6.25	0.16	0.01	0.00	15.25	1.62	1.21	0.00				
6.50	0.17	0.01	0.00	15.50	1.63	1.22	0.00				
6.75	0.18	0.02	0.00	15.75	1.64	1.23	0.00				
7.00	0.19	0.02	0.00	16.00	1.66	1.24	0.00				
7.25	0.19	0.02	0.00	16.25	1.67	1.25	0.00				
7.50	0.20	0.03	0.00	16.50	1.68	1.26	0.00				
7.75	0.22	0.03	0.00	16.75	1.69	1.27	0.00				
8.00	0.23	0.04	0.00	17.00	1.70	1.28	0.00				
8.25	0.24	0.04	0.00	17.25	1.71	1.29	0.00				
8.50	0.25	0.05	0.00	17.50	1.71	1.30	0.00				
8.75	0.26	0.05	0.00	17.75	1.72	1.31	0.00				

Summary for Subcatchment DA 5: Drainage Area 5

Runoff = 0.14 cfs @ 11.98 hrs, Volume= 0.007 af, Depth> 1.66"
Routed to Pond RCVR 5 : RCVR 5

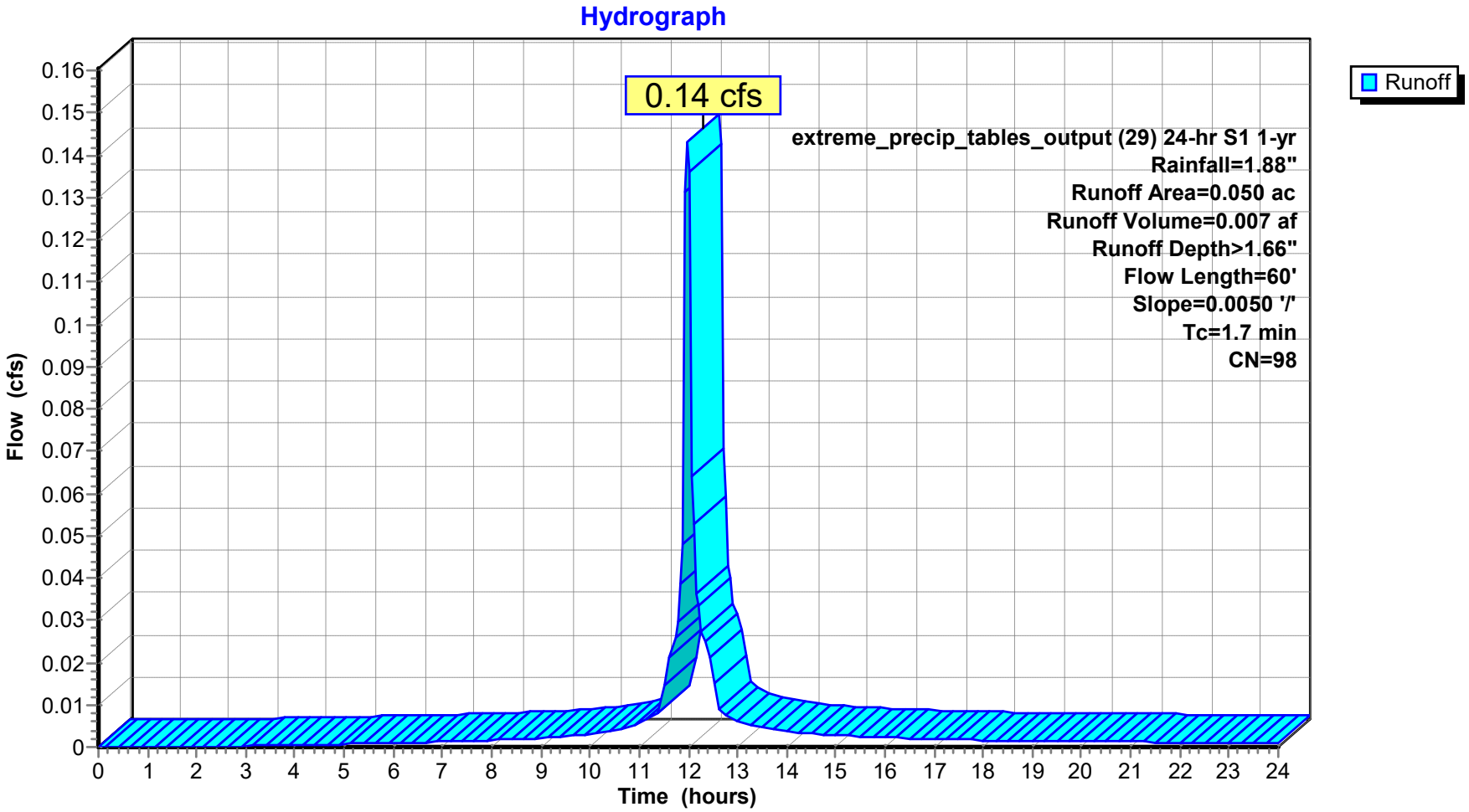
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 1-yr Rainfall=1.88"

Area (ac)	CN	Description
0.050	98	Paved parking, HSG D
0.050		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	60	0.0050	0.59		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"



Subcatchment DA 5: Drainage Area 5



Hydrograph for Subcatchment DA 5: Drainage Area 5

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.28	0.13	0.00	18.00	1.73	1.51	0.00
0.25	0.00	0.00	0.00	9.25	0.29	0.14	0.00	18.25	1.74	1.52	0.00
0.50	0.01	0.00	0.00	9.50	0.31	0.15	0.00	18.50	1.75	1.52	0.00
0.75	0.02	0.00	0.00	9.75	0.32	0.16	0.00	18.75	1.75	1.53	0.00
1.00	0.02	0.00	0.00	10.00	0.34	0.18	0.00	19.00	1.76	1.54	0.00
1.25	0.03	0.00	0.00	10.25	0.36	0.20	0.00	19.25	1.77	1.55	0.00
1.50	0.03	0.00	0.00	10.50	0.38	0.21	0.00	19.50	1.78	1.55	0.00
1.75	0.04	0.00	0.00	10.75	0.41	0.24	0.00	19.75	1.78	1.56	0.00
2.00	0.04	0.00	0.00	11.00	0.44	0.26	0.01	20.00	1.79	1.57	0.00
2.25	0.05	0.00	0.00	11.25	0.47	0.29	0.01	20.25	1.80	1.57	0.00
2.50	0.05	0.00	0.00	11.50	0.52	0.34	0.01	20.50	1.80	1.58	0.00
2.75	0.06	0.00	0.00	11.75	0.64	0.45	0.03	20.75	1.81	1.59	0.00
3.00	0.07	0.00	0.00	12.00	1.05	0.84	**0.14**	21.00	1.81	1.59	0.00
3.25	0.07	0.00	0.00	12.25	1.26	1.04	0.03	21.25	1.82	1.60	0.00
3.50	0.08	0.01	0.00	12.50	1.37	1.15	0.02	21.50	1.83	1.60	0.00
3.75	0.08	0.01	0.00	12.75	1.41	1.20	0.01	21.75	1.83	1.61	0.00
4.00	0.09	0.01	0.00	13.00	1.45	1.23	0.01	22.00	1.84	1.61	0.00
4.25	0.10	0.01	0.00	13.25	1.48	1.26	0.01	22.25	1.84	1.62	0.00
4.50	0.10	0.02	0.00	13.50	1.50	1.28	0.00	22.50	1.85	1.63	0.00
4.75	0.11	0.02	0.00	13.75	1.52	1.30	0.00	22.75	1.85	1.63	0.00
5.00	0.12	0.02	0.00	14.00	1.54	1.32	0.00	23.00	1.86	1.64	0.00
5.25	0.13	0.03	0.00	14.25	1.56	1.34	0.00	23.25	1.86	1.64	0.00
5.50	0.13	0.03	0.00	14.50	1.58	1.36	0.00	23.50	1.87	1.65	0.00
5.75	0.14	0.03	0.00	14.75	1.59	1.37	0.00	23.75	1.88	1.65	0.00
6.00	0.15	0.04	0.00	15.00	1.61	1.38	0.00	24.00	**1.88**	**1.66**	0.00
6.25	0.16	0.04	0.00	15.25	1.62	1.40	0.00				
6.50	0.17	0.05	0.00	15.50	1.63	1.41	0.00				
6.75	0.18	0.05	0.00	15.75	1.64	1.42	0.00				
7.00	0.19	0.06	0.00	16.00	1.66	1.43	0.00				
7.25	0.19	0.07	0.00	16.25	1.67	1.44	0.00				
7.50	0.20	0.07	0.00	16.50	1.68	1.45	0.00				
7.75	0.22	0.08	0.00	16.75	1.69	1.46	0.00				
8.00	0.23	0.09	0.00	17.00	1.70	1.47	0.00				
8.25	0.24	0.10	0.00	17.25	1.71	1.48	0.00				
8.50	0.25	0.11	0.00	17.50	1.71	1.49	0.00				
8.75	0.26	0.12	0.00	17.75	1.72	1.50	0.00				

Summary for Subcatchment DA 6: Drainage Area 6

Runoff = 0.13 cfs @ 12.17 hrs, Volume= 0.010 af, Depth> 0.81"
Routed to Pond SWALE : SWALE

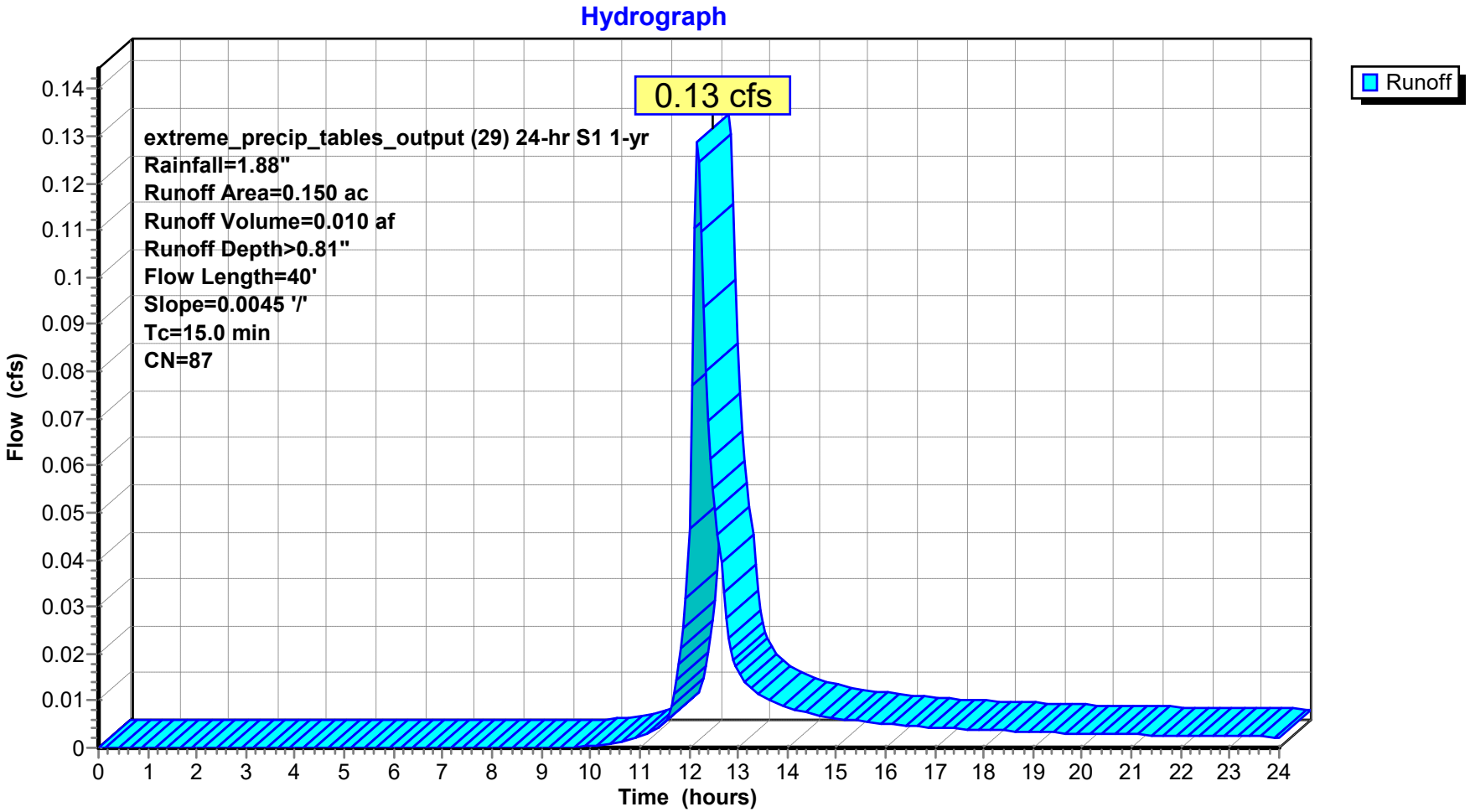
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 1-yr Rainfall=1.88"

Area (ac)	CN	Description
0.060	98	Paved parking, HSG D
0.090	80	>75% Grass cover, Good, HSG D
0.150	87	Weighted Average
0.090		60.00% Pervious Area
0.060		40.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0	40	0.0045	0.04		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment DA 6: Drainage Area 6



Hydrograph for Subcatchment DA 6: Drainage Area 6

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.28	0.00	0.00	18.00	1.73	0.70	0.00
0.25	0.00	0.00	0.00	9.25	0.29	0.00	0.00	18.25	1.74	0.71	0.00
0.50	0.01	0.00	0.00	9.50	0.31	0.00	0.00	18.50	1.75	0.71	0.00
0.75	0.02	0.00	0.00	9.75	0.32	0.00	0.00	18.75	1.75	0.72	0.00
1.00	0.02	0.00	0.00	10.00	0.34	0.00	0.00	19.00	1.76	0.72	0.00
1.25	0.03	0.00	0.00	10.25	0.36	0.00	0.00	19.25	1.77	0.73	0.00
1.50	0.03	0.00	0.00	10.50	0.38	0.00	0.00	19.50	1.78	0.73	0.00
1.75	0.04	0.00	0.00	10.75	0.41	0.01	0.00	19.75	1.78	0.74	0.00
2.00	0.04	0.00	0.00	11.00	0.44	0.01	0.00	20.00	1.79	0.74	0.00
2.25	0.05	0.00	0.00	11.25	0.47	0.02	0.00	20.25	1.80	0.75	0.00
2.50	0.05	0.00	0.00	11.50	0.52	0.03	0.01	20.50	1.80	0.75	0.00
2.75	0.06	0.00	0.00	11.75	0.64	0.06	0.01	20.75	1.81	0.76	0.00
3.00	0.07	0.00	0.00	12.00	1.05	0.25	**0.05**	21.00	1.81	0.76	0.00
3.25	0.07	0.00	0.00	12.25	1.26	0.37	**0.11**	21.25	1.82	0.77	0.00
3.50	0.08	0.00	0.00	12.50	1.37	0.45	0.06	21.50	1.83	0.77	0.00
3.75	0.08	0.00	0.00	12.75	1.41	0.48	0.03	21.75	1.83	0.78	0.00
4.00	0.09	0.00	0.00	13.00	1.45	0.50	0.02	22.00	1.84	0.78	0.00
4.25	0.10	0.00	0.00	13.25	1.48	0.52	0.01	22.25	1.84	0.79	0.00
4.50	0.10	0.00	0.00	13.50	1.50	0.54	0.01	22.50	1.85	0.79	0.00
4.75	0.11	0.00	0.00	13.75	1.52	0.55	0.01	22.75	1.85	0.79	0.00
5.00	0.12	0.00	0.00	14.00	1.54	0.56	0.01	23.00	1.86	0.80	0.00
5.25	0.13	0.00	0.00	14.25	1.56	0.58	0.01	23.25	1.86	0.80	0.00
5.50	0.13	0.00	0.00	14.50	1.58	0.59	0.01	23.50	1.87	0.81	0.00
5.75	0.14	0.00	0.00	14.75	1.59	0.60	0.01	23.75	1.88	0.81	0.00
6.00	0.15	0.00	0.00	15.00	1.61	0.61	0.01	24.00	**1.88**	**0.81**	0.00
6.25	0.16	0.00	0.00	15.25	1.62	0.62	0.01				
6.50	0.17	0.00	0.00	15.50	1.63	0.63	0.01				
6.75	0.18	0.00	0.00	15.75	1.64	0.64	0.01				
7.00	0.19	0.00	0.00	16.00	1.66	0.65	0.01				
7.25	0.19	0.00	0.00	16.25	1.67	0.65	0.00				
7.50	0.20	0.00	0.00	16.50	1.68	0.66	0.00				
7.75	0.22	0.00	0.00	16.75	1.69	0.67	0.00				
8.00	0.23	0.00	0.00	17.00	1.70	0.67	0.00				
8.25	0.24	0.00	0.00	17.25	1.71	0.68	0.00				
8.50	0.25	0.00	0.00	17.50	1.71	0.69	0.00				
8.75	0.26	0.00	0.00	17.75	1.72	0.69	0.00				

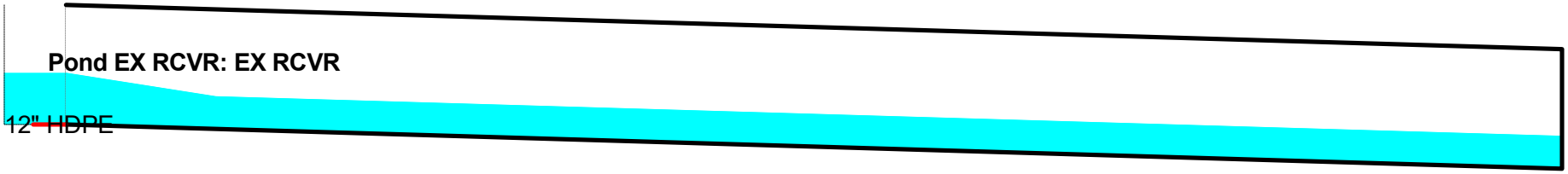
Summary for Pond EX RCVR: EX RCVR

Inflow Area = 0.500 ac, 78.00% Impervious, Inflow Depth > 1.08" for 1-yr event
Inflow = 0.45 cfs @ 12.02 hrs, Volume= 0.045 af
Outflow = 0.45 cfs @ 12.02 hrs, Volume= 0.045 af, Atten= 0%, Lag= 0.0 min
Primary = 0.45 cfs @ 12.02 hrs, Volume= 0.045 af
Routed to Link POST : Post Development

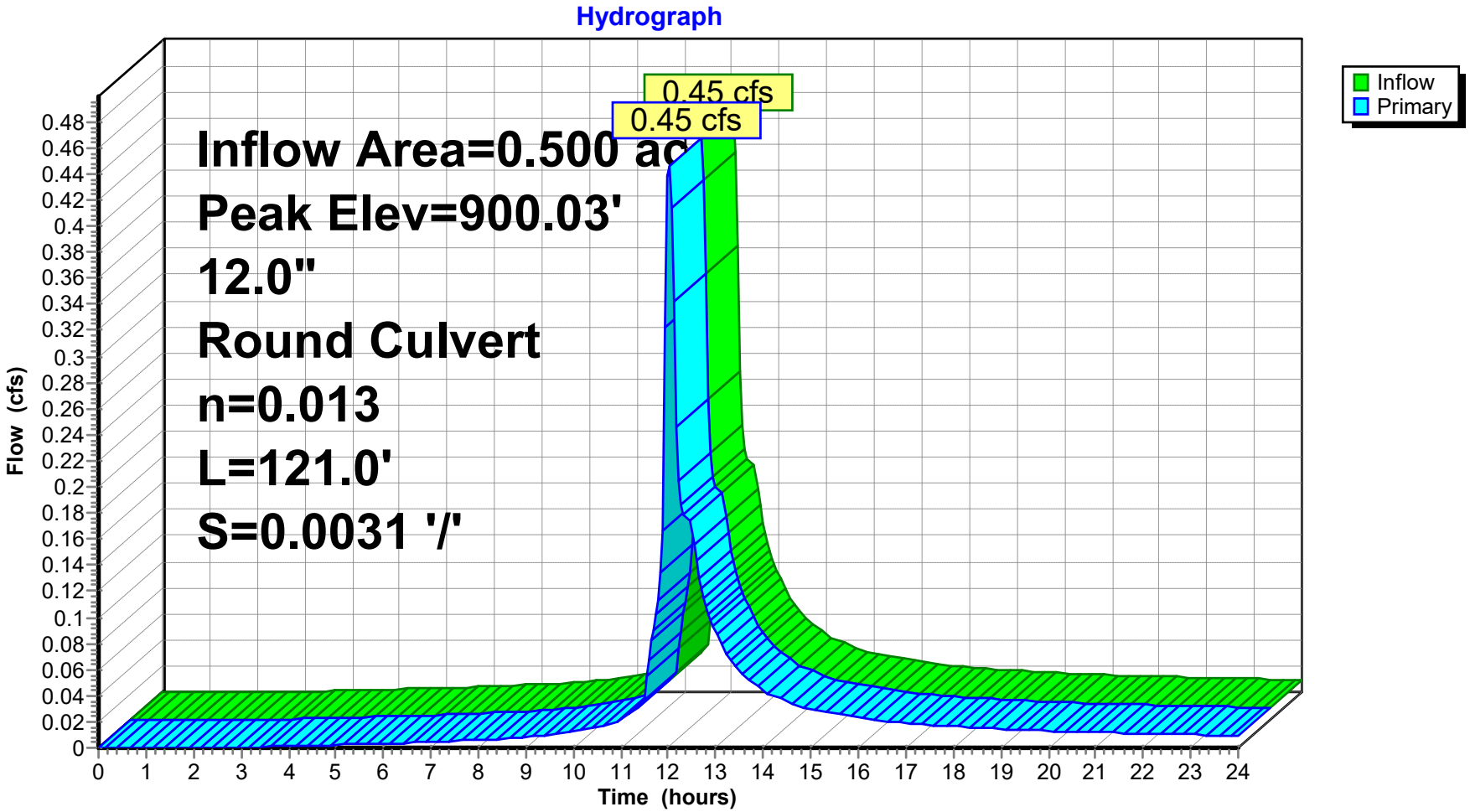
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 900.03' @ 12.02 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	899.60'	**12.0" Round 12" HDPE** L= 121.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 899.60' / 899.23' S= 0.0031 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

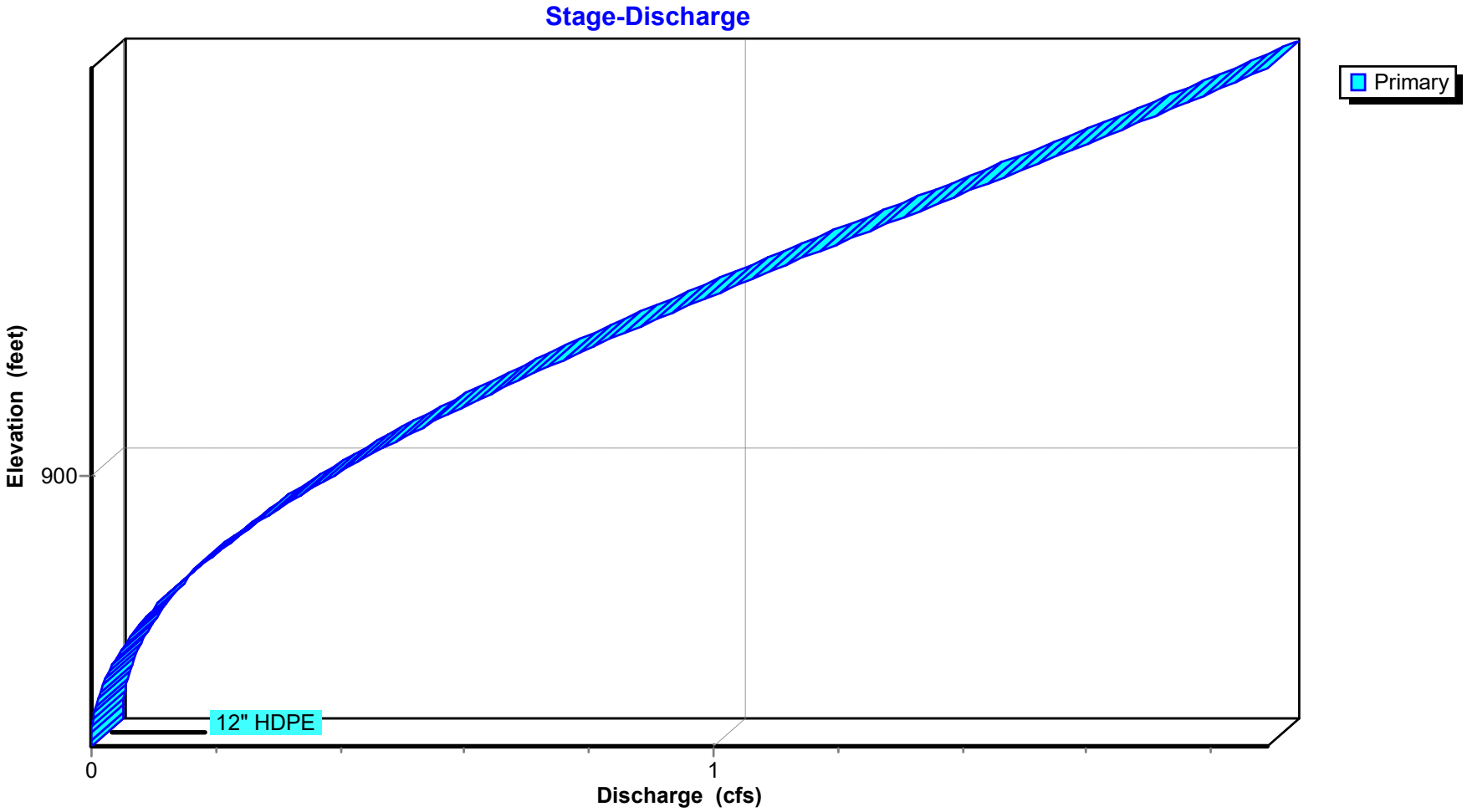
Primary OutFlow Max=0.43 cfs @ 12.02 hrs HW=900.02' TW=0.00' (Dynamic Tailwater)
↑**1=12" HDPE** (Barrel Controls 0.43 cfs @ 2.02 fps)



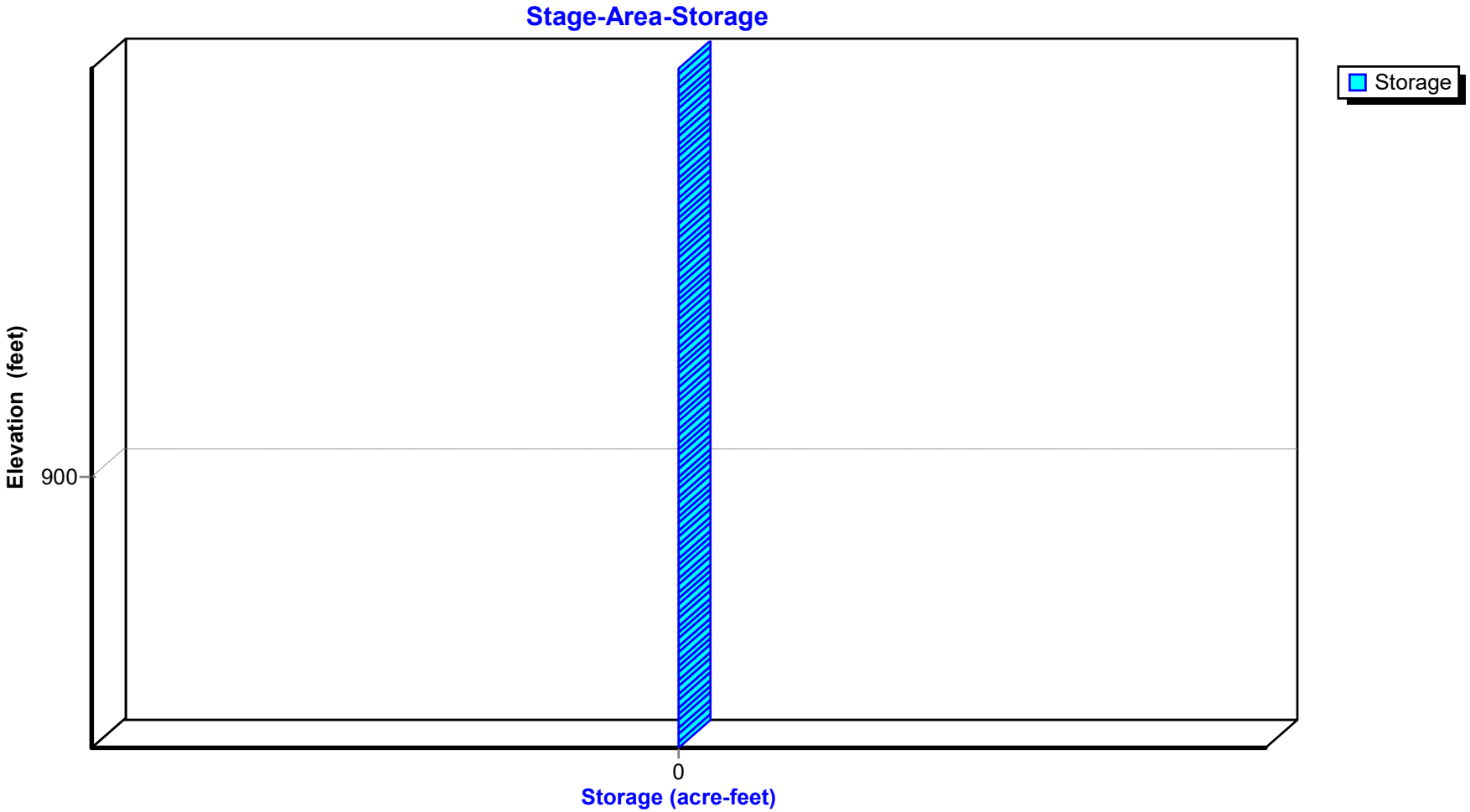
Pond EX RCVR: EX RCVR



Pond EX RCVR: EX RCVR



Pond EX RCVR: EX RCVR



Hydrograph for Pond EX RCVR: EX RCVR

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	899.60	0.00	9.00	0.01	899.66	0.01	18.00	0.02	899.69	0.02
0.25	0.00	899.60	0.00	9.25	0.01	899.67	0.01	18.25	0.02	899.68	0.02
0.50	0.00	899.60	0.00	9.50	0.01	899.67	0.01	18.50	0.02	899.68	0.02
0.75	0.00	899.60	0.00	9.75	0.01	899.67	0.01	18.75	0.01	899.68	0.01
1.00	0.00	899.60	0.00	10.00	0.01	899.68	0.01	19.00	0.01	899.68	0.01
1.25	0.00	899.60	0.00	10.25	0.01	899.68	0.01	19.25	0.01	899.68	0.01
1.50	0.00	899.60	0.00	10.50	0.02	899.68	0.02	19.50	0.01	899.68	0.01
1.75	0.00	899.60	0.00	10.75	0.02	899.69	0.02	19.75	0.01	899.68	0.01
2.00	0.00	899.60	0.00	11.00	0.02	899.70	0.02	20.00	0.01	899.68	0.01
2.25	0.00	899.61	0.00	11.25	0.03	899.71	0.03	20.25	0.01	899.68	0.01
2.50	0.00	899.61	0.00	11.50	0.04	899.73	0.04	20.50	0.01	899.68	0.01
2.75	0.00	899.61	0.00	11.75	0.10	899.81	0.10	20.75	0.01	899.67	0.01
3.00	0.00	899.61	0.00	12.00	**0.44**	**900.02**	**0.44**	21.00	0.01	899.67	0.01
3.25	0.00	899.62	0.00	12.25	0.19	899.87	0.19	21.25	0.01	899.67	0.01
3.50	0.00	899.62	0.00	12.50	0.17	899.86	0.17	21.50	0.01	899.67	0.01
3.75	0.00	899.62	0.00	12.75	0.11	899.82	0.11	21.75	0.01	899.67	0.01
4.00	0.00	899.63	0.00	13.00	0.09	899.79	0.09	22.00	0.01	899.67	0.01
4.25	0.00	899.63	0.00	13.25	0.07	899.77	0.07	22.25	0.01	899.67	0.01
4.50	0.00	899.63	0.00	13.50	0.06	899.76	0.06	22.50	0.01	899.67	0.01
4.75	0.00	899.63	0.00	13.75	0.05	899.75	0.05	22.75	0.01	899.67	0.01
5.00	0.00	899.63	0.00	14.00	0.04	899.74	0.04	23.00	0.01	899.67	0.01
5.25	0.00	899.64	0.00	14.25	0.04	899.73	0.04	23.25	0.01	899.67	0.01
5.50	0.00	899.64	0.00	14.50	0.04	899.72	0.04	23.50	0.01	899.67	0.01
5.75	0.00	899.64	0.00	14.75	0.03	899.72	0.03	23.75	0.01	899.67	0.01
6.00	0.00	899.64	0.00	15.00	0.03	899.71	0.03	24.00	0.01	899.67	0.01
6.25	0.00	899.64	0.00	15.25	0.03	899.71	0.03				
6.50	0.00	899.64	0.00	15.50	0.03	899.71	0.03				
6.75	0.00	899.65	0.00	15.75	0.02	899.70	0.02				
7.00	0.00	899.65	0.00	16.00	0.02	899.70	0.02				
7.25	0.00	899.65	0.00	16.25	0.02	899.70	0.02				
7.50	0.01	899.65	0.01	16.50	0.02	899.70	0.02				
7.75	0.01	899.65	0.01	16.75	0.02	899.69	0.02				
8.00	0.01	899.65	0.01	17.00	0.02	899.69	0.02				
8.25	0.01	899.66	0.01	17.25	0.02	899.69	0.02				
8.50	0.01	899.66	0.01	17.50	0.02	899.69	0.02				
8.75	0.01	899.66	0.01	17.75	0.02	899.69	0.02				

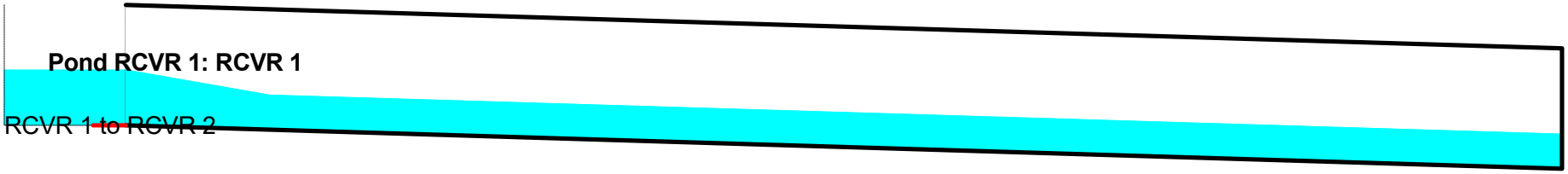
Summary for Pond RCVR 1: RCVR 1

Inflow Area = 0.340 ac, 70.59% Impervious, Inflow Depth > 0.86" for 1-yr event
Inflow = 0.17 cfs @ 11.98 hrs, Volume= 0.024 af
Outflow = 0.17 cfs @ 11.98 hrs, Volume= 0.024 af, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 11.98 hrs, Volume= 0.024 af
Routed to Pond RCVR 2 : RCVR 2

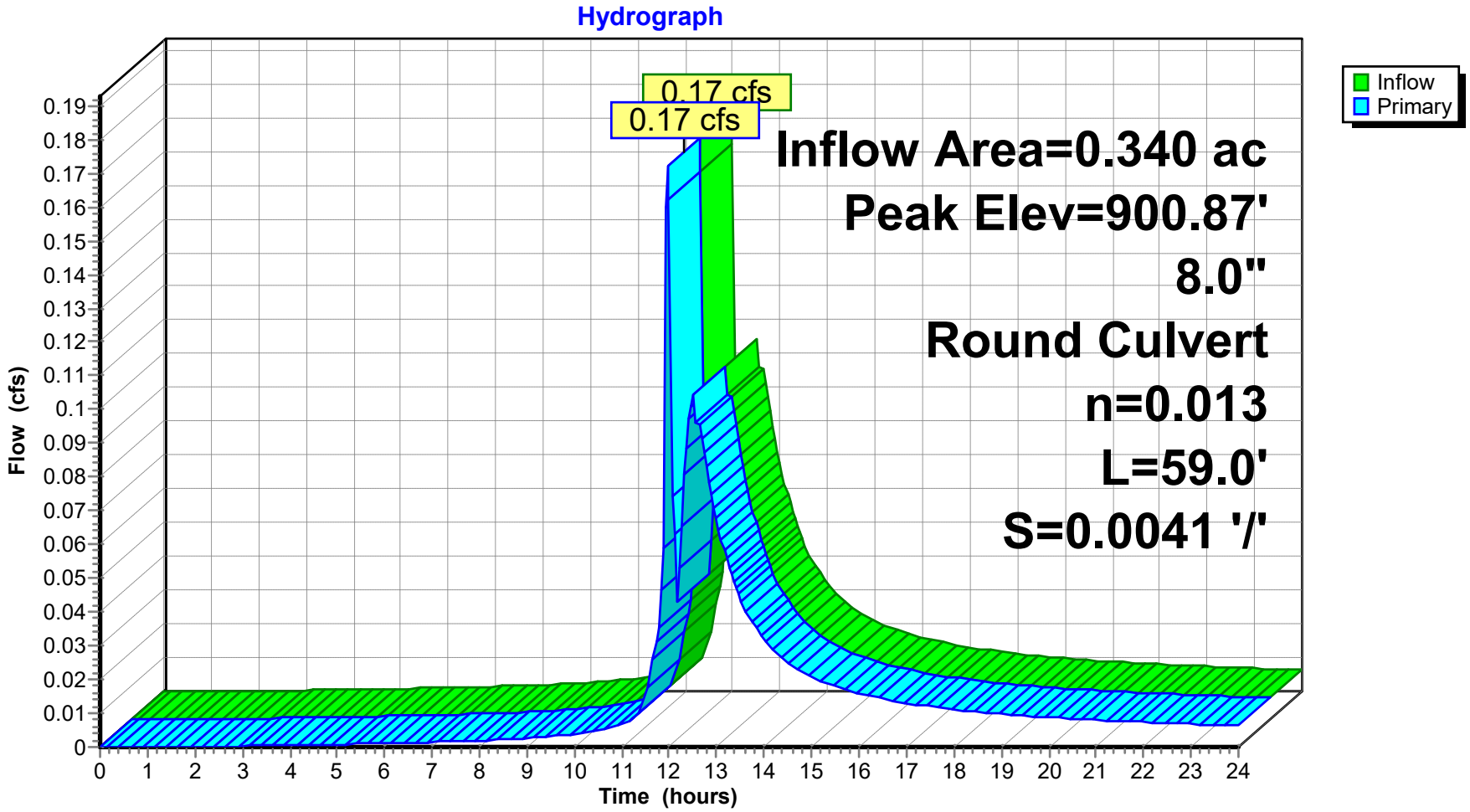
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 900.87' @ 11.99 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	900.56'	**8.0" Round RCVR 1 to RCVR 2** L= 59.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 900.56' / 900.32' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

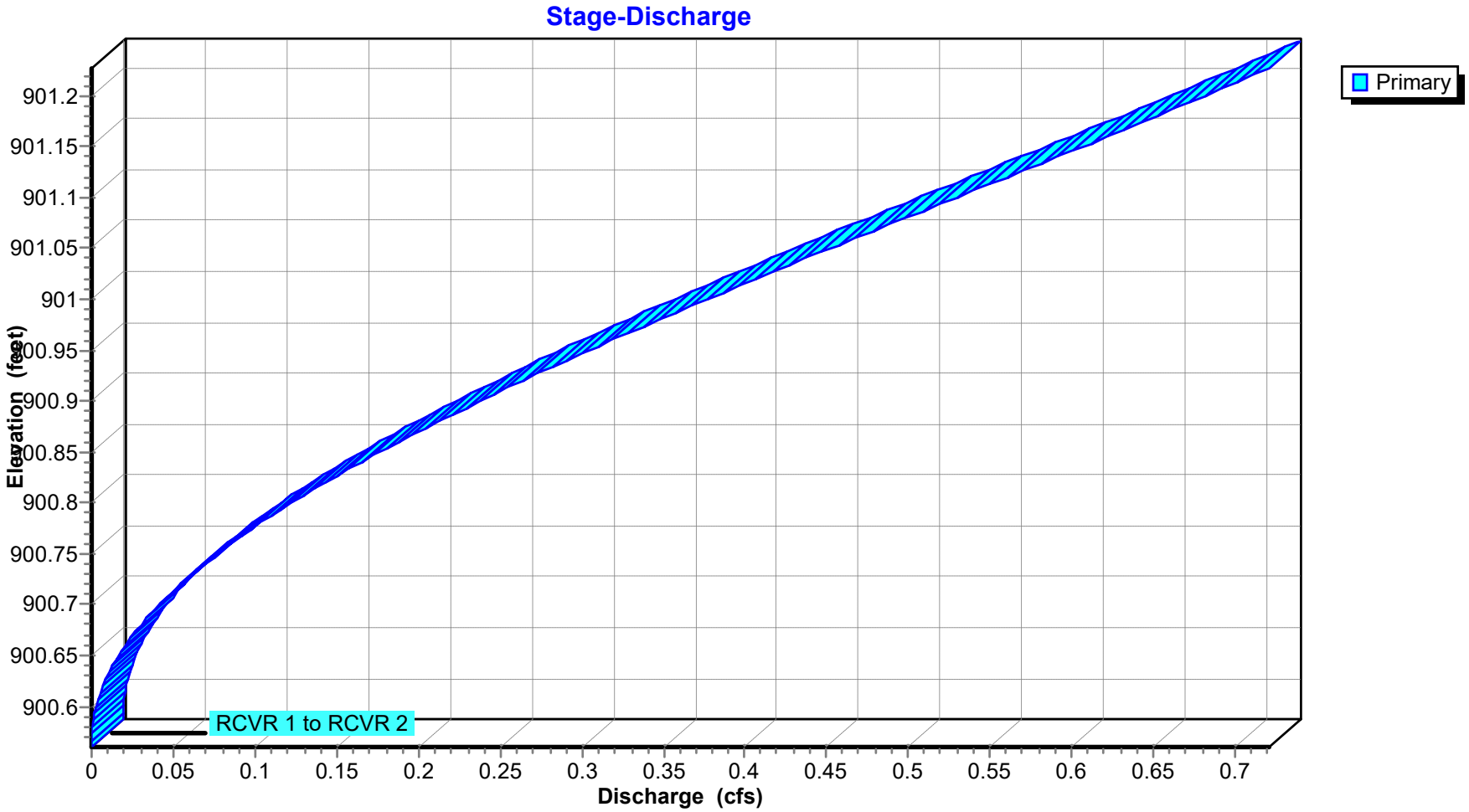
Primary OutFlow Max=0.13 cfs @ 11.98 hrs HW=900.85' TW=900.68' (Dynamic Tailwater)
↑—**1=RCVR 1 to RCVR 2** (Outlet Controls 0.13 cfs @ 1.32 fps)



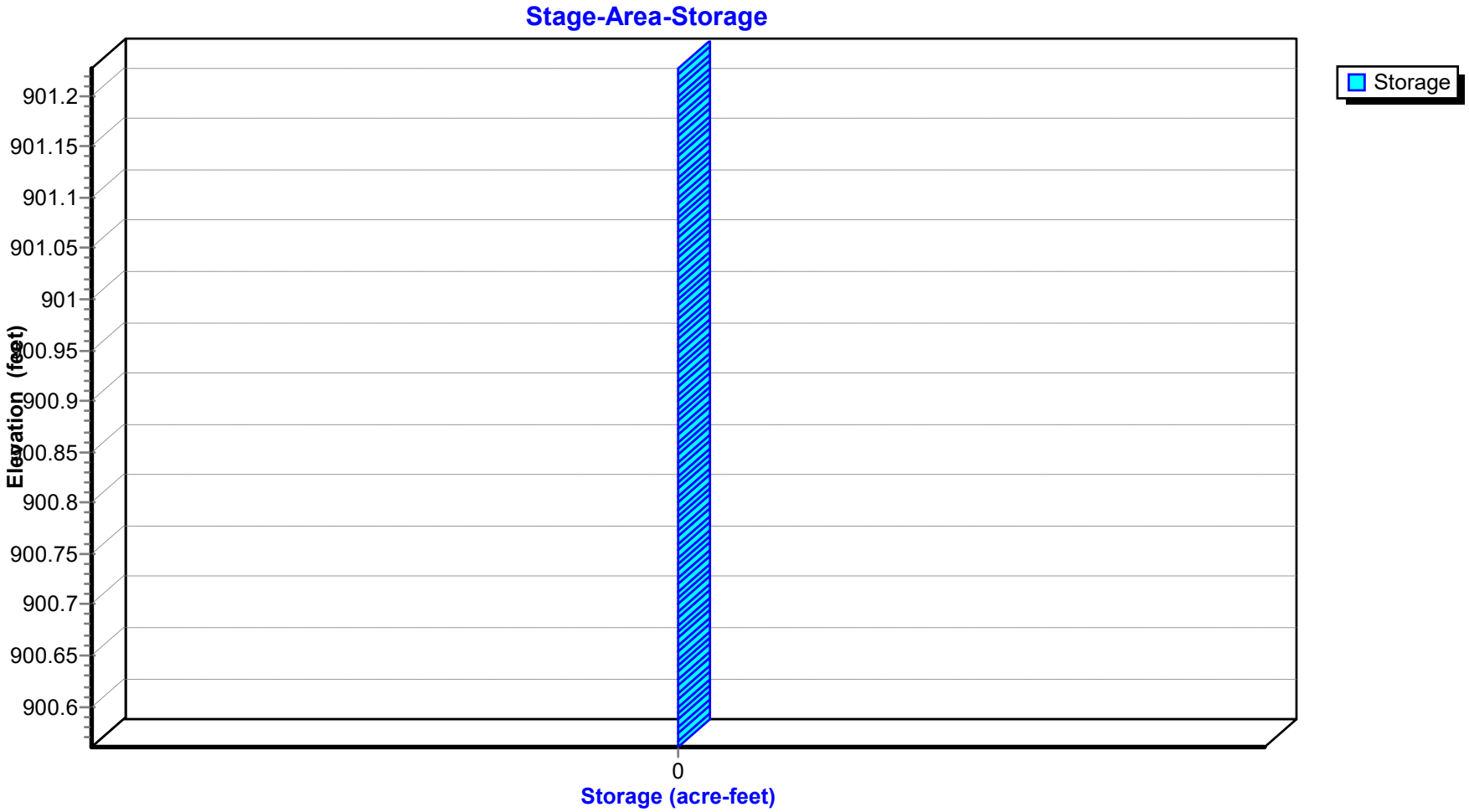
Pond RCVR 1: RCVR 1



Pond RCVR 1: RCVR 1



Pond RCVR 1: RCVR 1



Hydrograph for Pond RCVR 1: RCVR 1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	900.56	0.00	9.00	0.00	900.60	0.00	18.00	0.01	900.64	0.01
0.25	0.00	900.56	0.00	9.25	0.00	900.60	0.00	18.25	0.01	900.63	0.01
0.50	0.00	900.56	0.00	9.50	0.00	900.60	0.00	18.50	0.01	900.63	0.01
0.75	0.00	900.56	0.00	9.75	0.00	900.60	0.00	18.75	0.01	900.63	0.01
1.00	0.00	900.56	0.00	10.00	0.00	900.61	0.00	19.00	0.01	900.63	0.01
1.25	0.00	900.56	0.00	10.25	0.00	900.61	0.00	19.25	0.01	900.63	0.01
1.50	0.00	900.56	0.00	10.50	0.00	900.61	0.00	19.50	0.01	900.63	0.01
1.75	0.00	900.56	0.00	10.75	0.01	900.62	0.01	19.75	0.01	900.63	0.01
2.00	0.00	900.56	0.00	11.00	0.01	900.62	0.01	20.00	0.01	900.63	0.01
2.25	0.00	900.57	0.00	11.25	0.01	900.63	0.01	20.25	0.01	900.63	0.01
2.50	0.00	900.57	0.00	11.50	0.01	900.64	0.01	20.50	0.01	900.63	0.01
2.75	0.00	900.57	0.00	11.75	0.03	900.70	0.03	20.75	0.01	900.63	0.01
3.00	0.00	900.57	0.00	12.00	**0.16**	**900.87**	**0.16**	21.00	0.01	900.62	0.01
3.25	0.00	900.58	0.00	12.25	0.07	900.76	0.07	21.25	0.01	900.62	0.01
3.50	0.00	900.58	0.00	12.50	0.10	900.80	0.10	21.50	0.01	900.62	0.01
3.75	0.00	900.58	0.00	12.75	0.09	900.77	0.09	21.75	0.01	900.62	0.01
4.00	0.00	900.58	0.00	13.00	0.07	900.74	0.07	22.00	0.01	900.62	0.01
4.25	0.00	900.58	0.00	13.25	0.05	900.72	0.05	22.25	0.01	900.62	0.01
4.50	0.00	900.58	0.00	13.50	0.04	900.71	0.04	22.50	0.01	900.62	0.01
4.75	0.00	900.58	0.00	13.75	0.04	900.70	0.04	22.75	0.01	900.62	0.01
5.00	0.00	900.58	0.00	14.00	0.03	900.69	0.03	23.00	0.01	900.62	0.01
5.25	0.00	900.58	0.00	14.25	0.03	900.68	0.03	23.25	0.01	900.62	0.01
5.50	0.00	900.58	0.00	14.50	0.03	900.67	0.03	23.50	0.01	900.62	0.01
5.75	0.00	900.59	0.00	14.75	0.02	900.67	0.02	23.75	0.01	900.62	0.01
6.00	0.00	900.59	0.00	15.00	0.02	900.66	0.02	24.00	0.01	900.62	0.01
6.25	0.00	900.59	0.00	15.25	0.02	900.66	0.02				
6.50	0.00	900.59	0.00	15.50	0.02	900.66	0.02				
6.75	0.00	900.59	0.00	15.75	0.02	900.65	0.02				
7.00	0.00	900.59	0.00	16.00	0.02	900.65	0.02				
7.25	0.00	900.59	0.00	16.25	0.02	900.65	0.02				
7.50	0.00	900.59	0.00	16.50	0.01	900.65	0.01				
7.75	0.00	900.59	0.00	16.75	0.01	900.64	0.01				
8.00	0.00	900.59	0.00	17.00	0.01	900.64	0.01				
8.25	0.00	900.59	0.00	17.25	0.01	900.64	0.01				
8.50	0.00	900.60	0.00	17.50	0.01	900.64	0.01				
8.75	0.00	900.60	0.00	17.75	0.01	900.64	0.01				

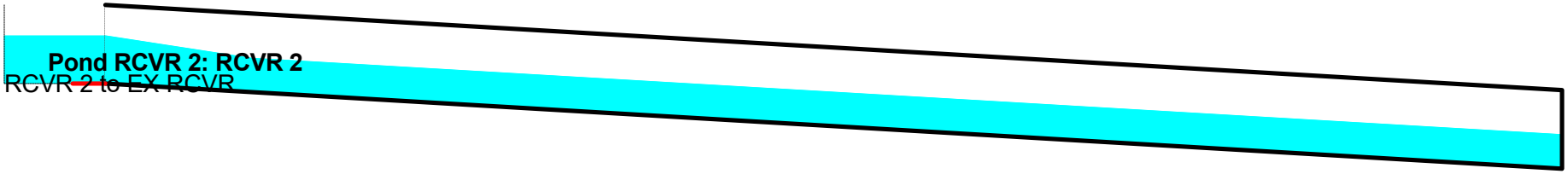
Summary for Pond RCVR 2: RCVR 2

Inflow Area = 0.500 ac, 78.00% Impervious, Inflow Depth > 1.08" for 1-yr event
Inflow = 0.45 cfs @ 12.02 hrs, Volume= 0.045 af
Outflow = 0.45 cfs @ 12.02 hrs, Volume= 0.045 af, Atten= 0%, Lag= 0.0 min
Primary = 0.45 cfs @ 12.02 hrs, Volume= 0.045 af
Routed to Pond EX RCVR : EX RCVR

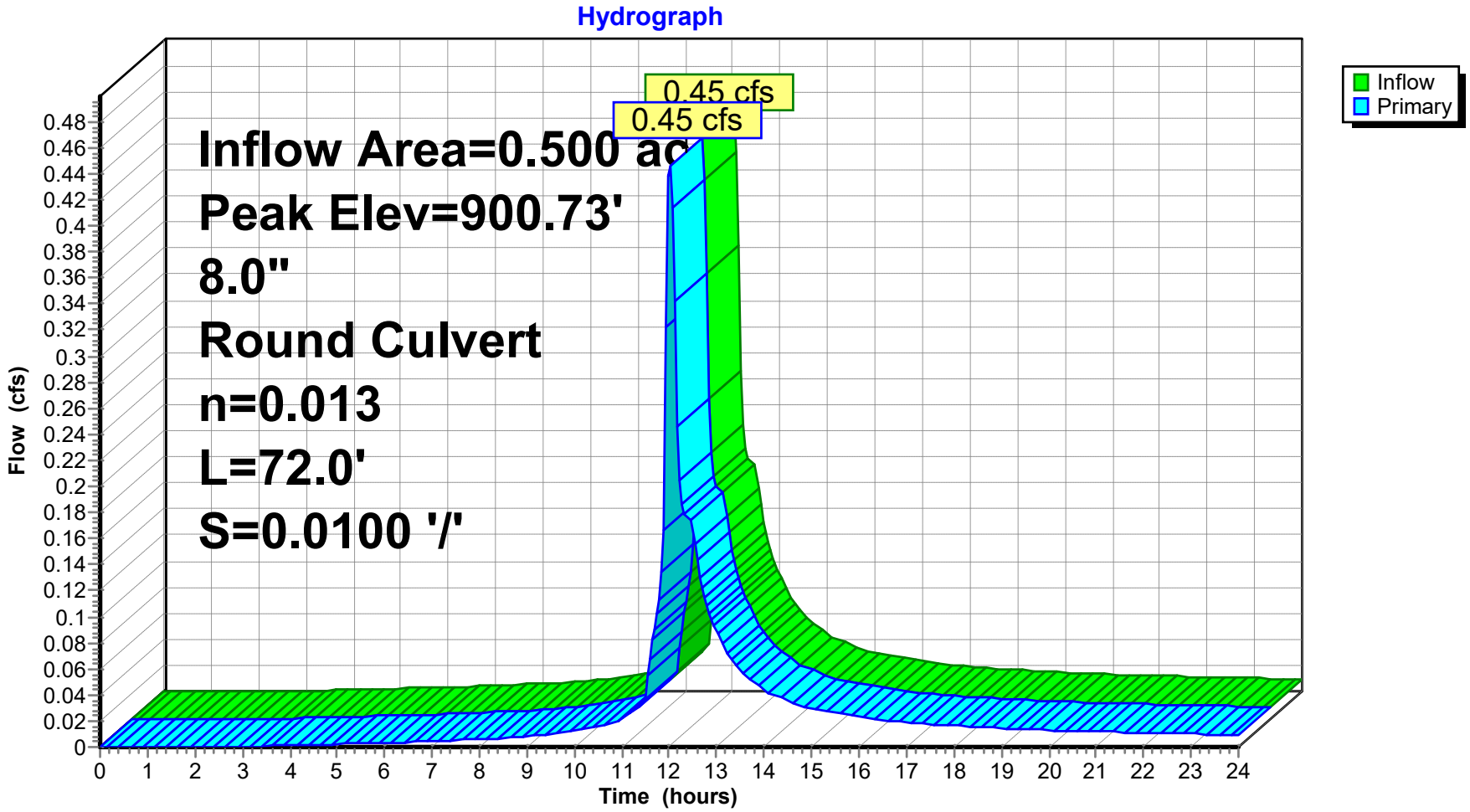
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 900.73' @ 12.02 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	900.32'	**8.0" Round RCVR 2 to EX RCVR** L= 72.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 900.32' / 899.60' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

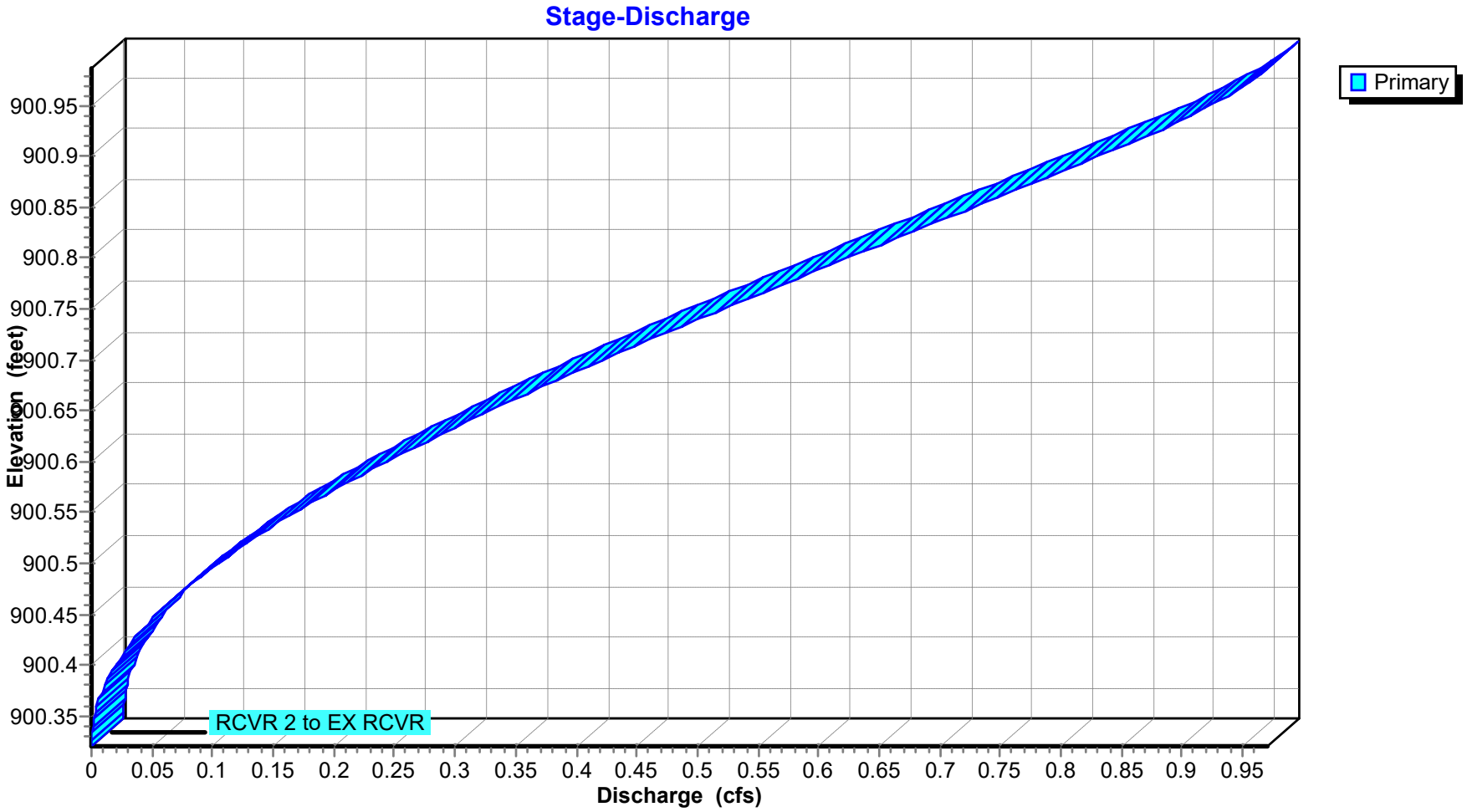
Primary OutFlow Max=0.42 cfs @ 12.02 hrs HW=900.72' TW=900.02' (Dynamic Tailwater)
↑—**1=RCVR 2 to EX RCVR** (Outlet Controls 0.42 cfs @ 2.78 fps)



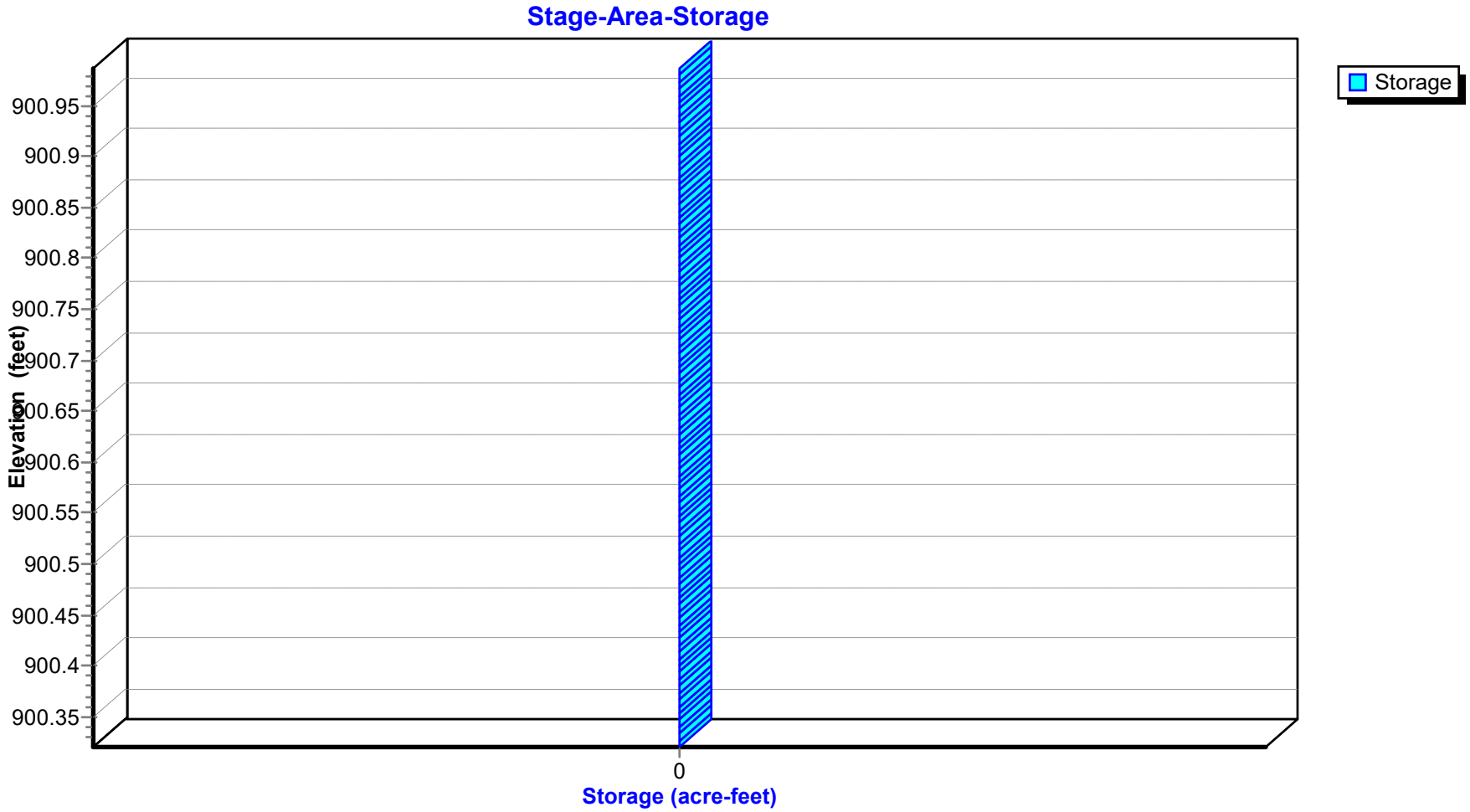
Pond RCVR 2: RCVR 2



Pond RCVR 2: RCVR 2



Pond RCVR 2: RCVR 2



Hydrograph for Pond RCVR 2: RCVR 2

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	900.32	0.00	9.00	0.01	900.37	0.01	18.00	0.02	900.39	0.02
0.25	0.00	900.32	0.00	9.25	0.01	900.38	0.01	18.25	0.02	900.39	0.02
0.50	0.00	900.32	0.00	9.50	0.01	900.38	0.01	18.50	0.02	900.39	0.02
0.75	0.00	900.32	0.00	9.75	0.01	900.38	0.01	18.75	0.01	900.39	0.01
1.00	0.00	900.32	0.00	10.00	0.01	900.38	0.01	19.00	0.01	900.39	0.01
1.25	0.00	900.32	0.00	10.25	0.01	900.39	0.01	19.25	0.01	900.39	0.01
1.50	0.00	900.32	0.00	10.50	0.02	900.39	0.02	19.50	0.01	900.39	0.01
1.75	0.00	900.32	0.00	10.75	0.02	900.40	0.02	19.75	0.01	900.39	0.01
2.00	0.00	900.32	0.00	11.00	0.02	900.40	0.02	20.00	0.01	900.39	0.01
2.25	0.00	900.33	0.00	11.25	0.03	900.41	0.03	20.25	0.01	900.39	0.01
2.50	0.00	900.33	0.00	11.50	0.04	900.43	0.04	20.50	0.01	900.38	0.01
2.75	0.00	900.33	0.00	11.75	0.10	900.50	0.10	20.75	0.01	900.38	0.01
3.00	0.00	900.33	0.00	12.00	**0.44**	**900.72**	**0.44**	21.00	0.01	900.38	0.01
3.25	0.00	900.34	0.00	12.25	0.19	900.57	0.19	21.25	0.01	900.38	0.01
3.50	0.00	900.34	0.00	12.50	0.17	900.56	0.17	21.50	0.01	900.38	0.01
3.75	0.00	900.34	0.00	12.75	0.11	900.51	0.11	21.75	0.01	900.38	0.01
4.00	0.00	900.34	0.00	13.00	0.09	900.49	0.09	22.00	0.01	900.38	0.01
4.25	0.00	900.34	0.00	13.25	0.07	900.47	0.07	22.25	0.01	900.38	0.01
4.50	0.00	900.35	0.00	13.50	0.06	900.46	0.06	22.50	0.01	900.38	0.01
4.75	0.00	900.35	0.00	13.75	0.05	900.45	0.05	22.75	0.01	900.38	0.01
5.00	0.00	900.35	0.00	14.00	0.04	900.44	0.04	23.00	0.01	900.38	0.01
5.25	0.00	900.35	0.00	14.25	0.04	900.43	0.04	23.25	0.01	900.38	0.01
5.50	0.00	900.35	0.00	14.50	0.04	900.43	0.04	23.50	0.01	900.38	0.01
5.75	0.00	900.35	0.00	14.75	0.03	900.42	0.03	23.75	0.01	900.38	0.01
6.00	0.00	900.35	0.00	15.00	0.03	900.42	0.03	24.00	0.01	900.38	0.01
6.25	0.00	900.36	0.00	15.25	0.03	900.41	0.03				
6.50	0.00	900.36	0.00	15.50	0.03	900.41	0.03				
6.75	0.00	900.36	0.00	15.75	0.02	900.41	0.02				
7.00	0.00	900.36	0.00	16.00	0.02	900.41	0.02				
7.25	0.00	900.36	0.00	16.25	0.02	900.40	0.02				
7.50	0.01	900.36	0.01	16.50	0.02	900.40	0.02				
7.75	0.01	900.36	0.01	16.75	0.02	900.40	0.02				
8.00	0.01	900.37	0.01	17.00	0.02	900.40	0.02				
8.25	0.01	900.37	0.01	17.25	0.02	900.40	0.02				
8.50	0.01	900.37	0.01	17.50	0.02	900.40	0.02				
8.75	0.01	900.37	0.01	17.75	0.02	900.39	0.02				

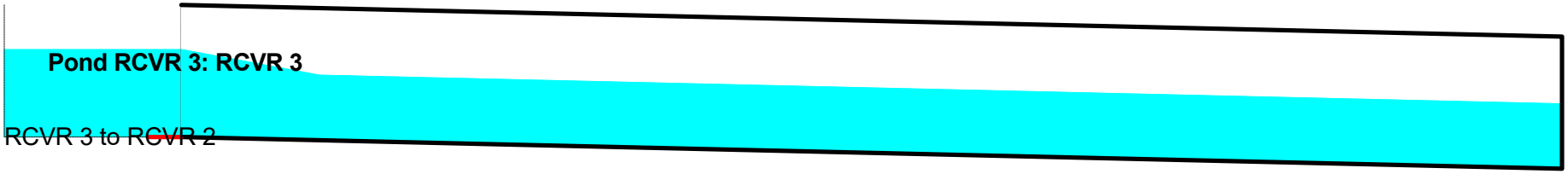
Summary for Pond RCVR 3: RCVR 3

Inflow Area = 0.150 ac, 93.33% Impervious, Inflow Depth > 1.55" for 1-yr event
Inflow = 0.33 cfs @ 12.05 hrs, Volume= 0.019 af
Outflow = 0.33 cfs @ 12.05 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
Primary = 0.33 cfs @ 12.05 hrs, Volume= 0.019 af
Routed to Pond RCVR 2 : RCVR 2

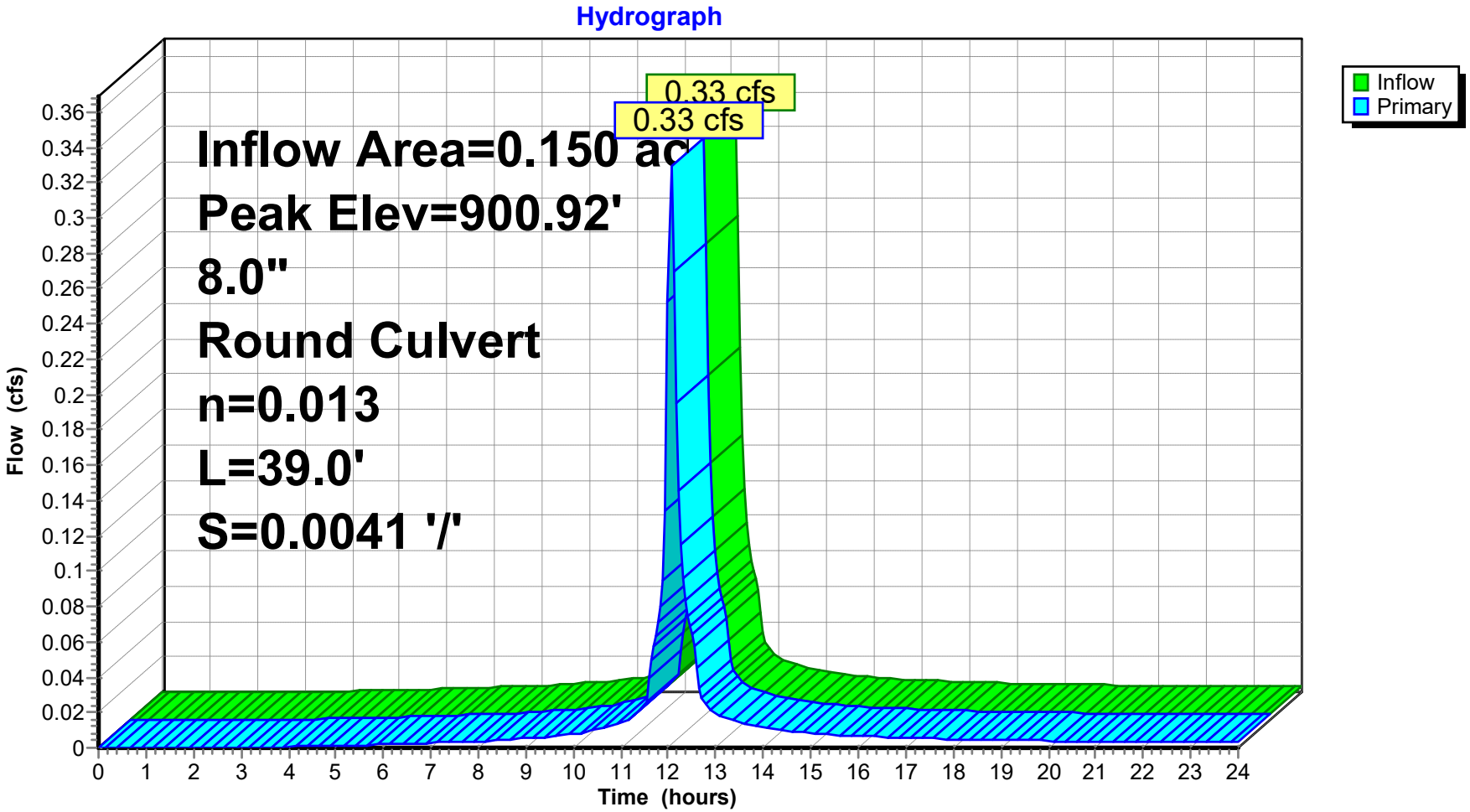
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 900.92' @ 12.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	900.48'	**8.0" Round RCVR 3 to RCVR 2** L= 39.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 900.48' / 900.32' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

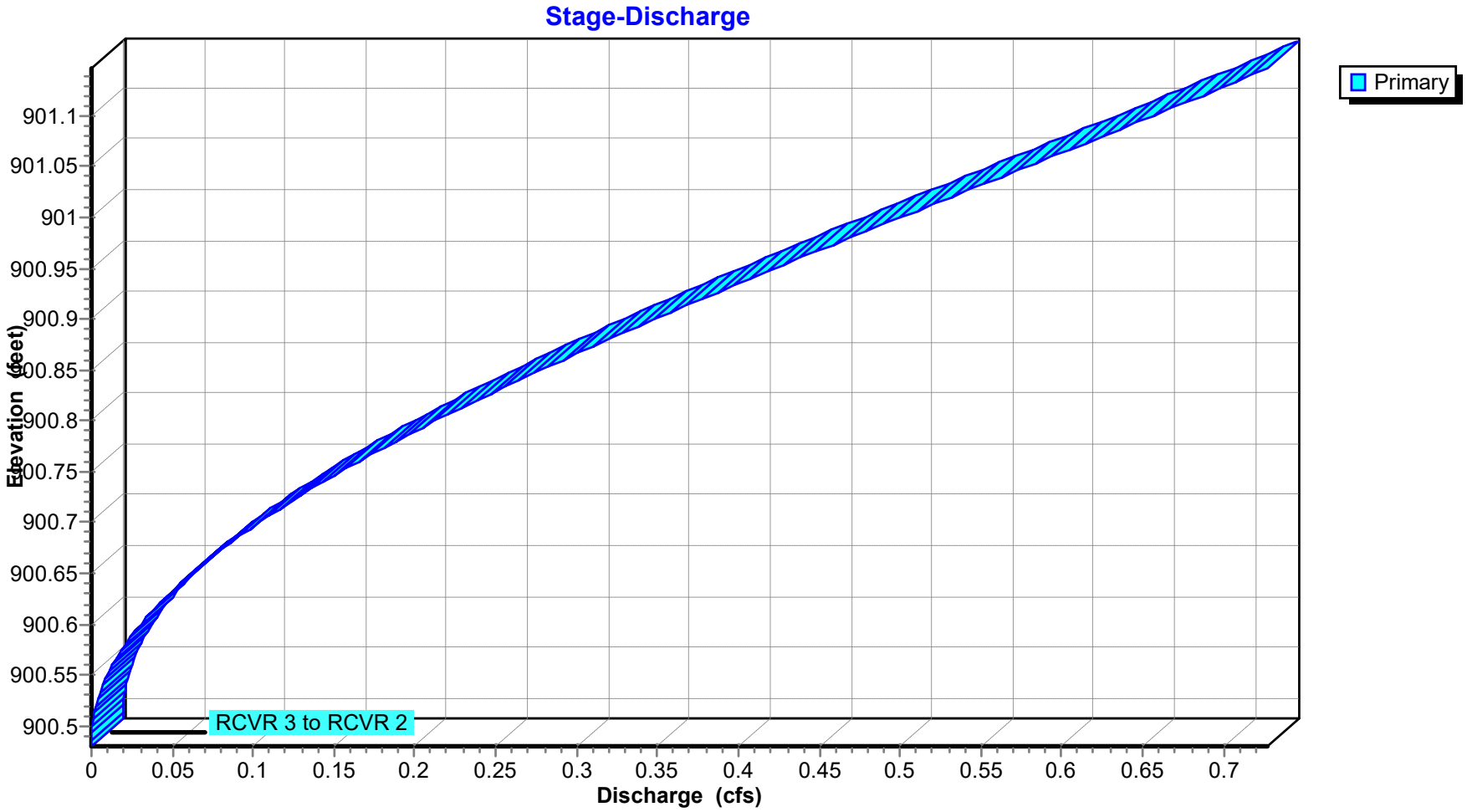
Primary OutFlow Max=0.33 cfs @ 12.05 hrs HW=900.92' TW=900.71' (Dynamic Tailwater)
↑—**1=RCVR 3 to RCVR 2** (Outlet Controls 0.33 cfs @ 1.92 fps)



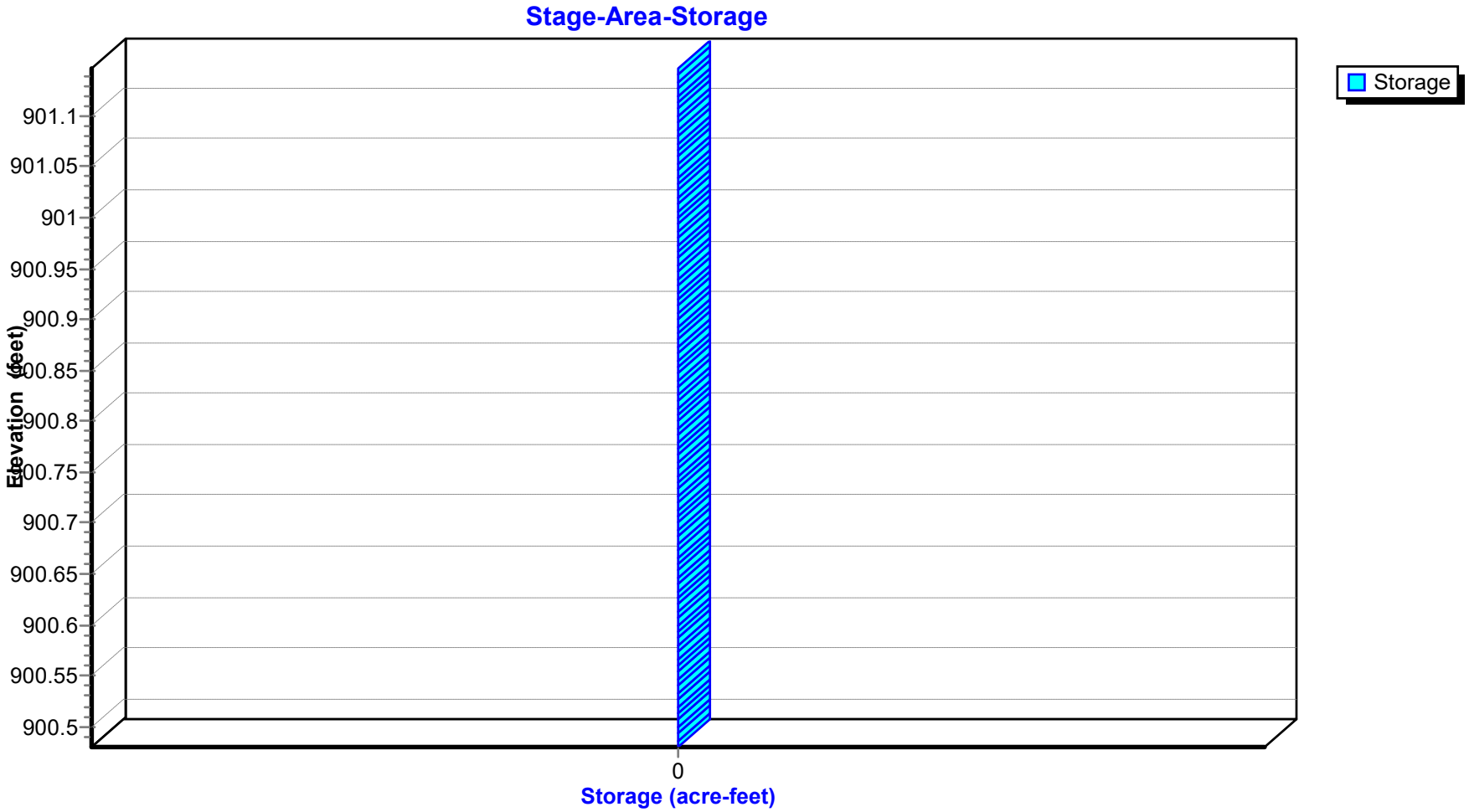
Pond RCVR 3: RCVR 3



Pond RCVR 3: RCVR 3



Pond RCVR 3: RCVR 3



Hydrograph for Pond RCVR 3: RCVR 3

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	900.48	0.00	9.00	0.01	900.53	0.01	18.00	0.00	900.53	0.00
0.25	0.00	900.48	0.00	9.25	0.01	900.54	0.01	18.25	0.00	900.53	0.00
0.50	0.00	900.48	0.00	9.50	0.01	900.54	0.01	18.50	0.00	900.53	0.00
0.75	0.00	900.48	0.00	9.75	0.01	900.54	0.01	18.75	0.00	900.53	0.00
1.00	0.00	900.48	0.00	10.00	0.01	900.54	0.01	19.00	0.00	900.53	0.00
1.25	0.00	900.48	0.00	10.25	0.01	900.55	0.01	19.25	0.00	900.53	0.00
1.50	0.00	900.48	0.00	10.50	0.01	900.55	0.01	19.50	0.00	900.53	0.00
1.75	0.00	900.48	0.00	10.75	0.01	900.56	0.01	19.75	0.00	900.53	0.00
2.00	0.00	900.48	0.00	11.00	0.01	900.57	0.01	20.00	0.00	900.53	0.00
2.25	0.00	900.48	0.00	11.25	0.02	900.58	0.02	20.25	0.00	900.53	0.00
2.50	0.00	900.48	0.00	11.50	0.02	900.59	0.02	20.50	0.00	900.53	0.00
2.75	0.00	900.48	0.00	11.75	0.06	900.66	0.06	20.75	0.00	900.53	0.00
3.00	0.00	900.48	0.00	12.00	**0.25**	**900.85**	**0.25**	21.00	0.00	900.53	0.00
3.25	0.00	900.49	0.00	12.25	**0.12**	**900.74**	**0.12**	21.25	0.00	900.53	0.00
3.50	0.00	900.49	0.00	12.50	0.06	900.68	0.06	21.50	0.00	900.52	0.00
3.75	0.00	900.50	0.00	12.75	0.03	900.61	0.03	21.75	0.00	900.52	0.00
4.00	0.00	900.50	0.00	13.00	0.02	900.59	0.02	22.00	0.00	900.52	0.00
4.25	0.00	900.50	0.00	13.25	0.02	900.58	0.02	22.25	0.00	900.52	0.00
4.50	0.00	900.50	0.00	13.50	0.01	900.57	0.01	22.50	0.00	900.52	0.00
4.75	0.00	900.50	0.00	13.75	0.01	900.57	0.01	22.75	0.00	900.52	0.00
5.00	0.00	900.51	0.00	14.00	0.01	900.56	0.01	23.00	0.00	900.52	0.00
5.25	0.00	900.51	0.00	14.25	0.01	900.56	0.01	23.25	0.00	900.52	0.00
5.50	0.00	900.51	0.00	14.50	0.01	900.55	0.01	23.50	0.00	900.52	0.00
5.75	0.00	900.51	0.00	14.75	0.01	900.55	0.01	23.75	0.00	900.52	0.00
6.00	0.00	900.51	0.00	15.00	0.01	900.55	0.01	24.00	0.00	900.52	0.00
6.25	0.00	900.51	0.00	15.25	0.01	900.55	0.01				
6.50	0.00	900.52	0.00	15.50	0.01	900.55	0.01				
6.75	0.00	900.52	0.00	15.75	0.01	900.54	0.01				
7.00	0.00	900.52	0.00	16.00	0.01	900.54	0.01				
7.25	0.00	900.52	0.00	16.25	0.01	900.54	0.01				
7.50	0.00	900.52	0.00	16.50	0.01	900.54	0.01				
7.75	0.00	900.52	0.00	16.75	0.01	900.54	0.01				
8.00	0.00	900.53	0.00	17.00	0.01	900.54	0.01				
8.25	0.00	900.53	0.00	17.25	0.01	900.54	0.01				
8.50	0.00	900.53	0.00	17.50	0.01	900.53	0.01				
8.75	0.00	900.53	0.00	17.75	0.01	900.53	0.01				

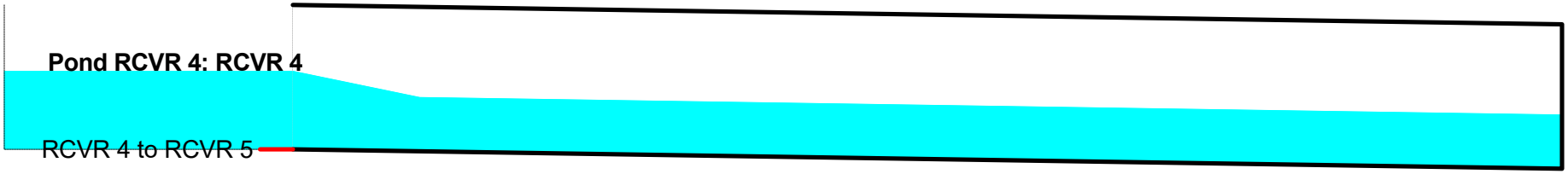
Summary for Pond RCVR 4: RCVR 4

Inflow Area = 0.080 ac, 87.50% Impervious, Inflow Depth > 1.46" for 1-yr event
Inflow = 0.17 cfs @ 12.04 hrs, Volume= 0.010 af
Outflow = 0.17 cfs @ 12.04 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.04 hrs, Volume= 0.010 af
Routed to Pond RCVR 5 : RCVR 5

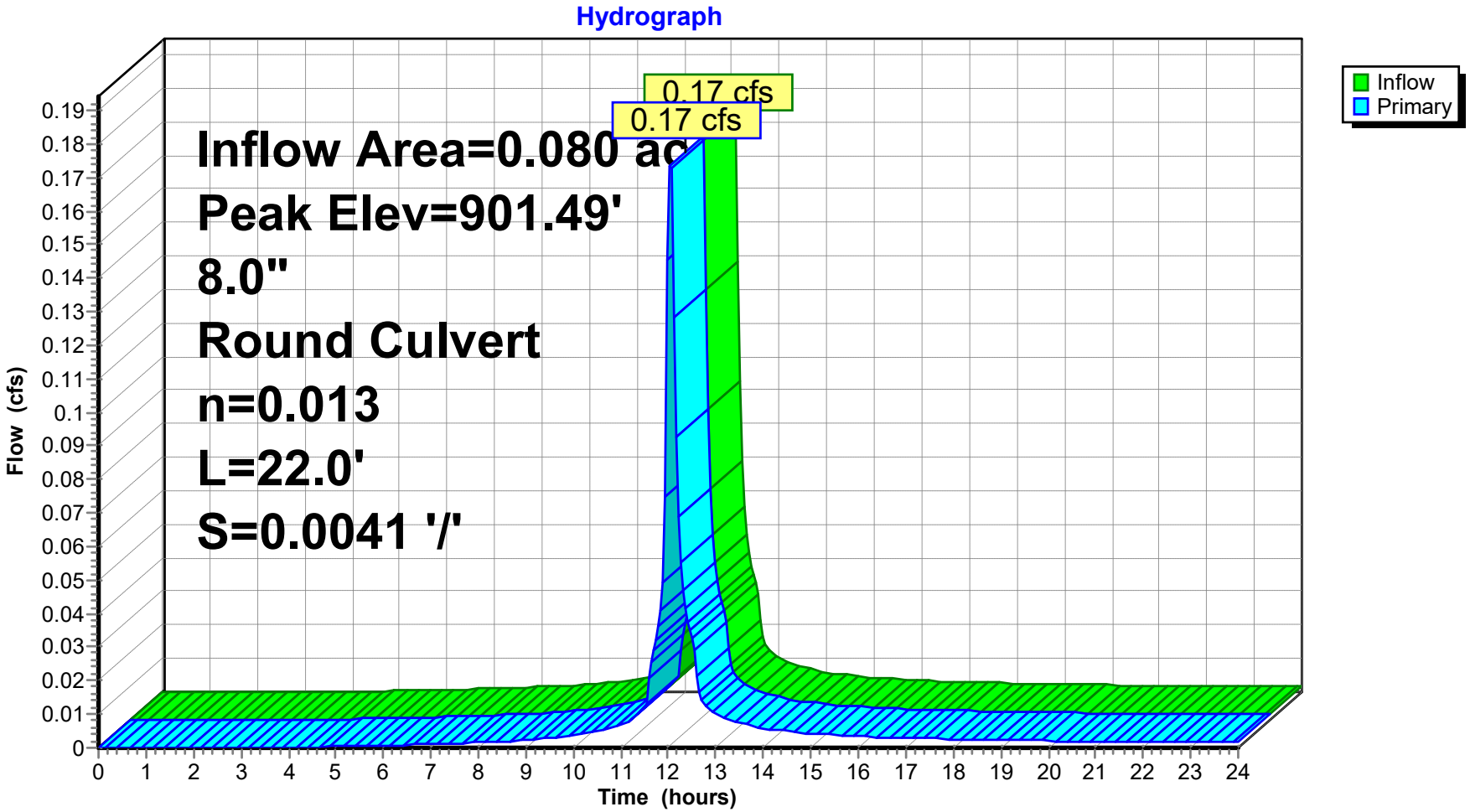
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.49' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	901.13'	**8.0" Round RCVR 4 to RCVR 5** L= 22.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 901.13' / 901.04' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

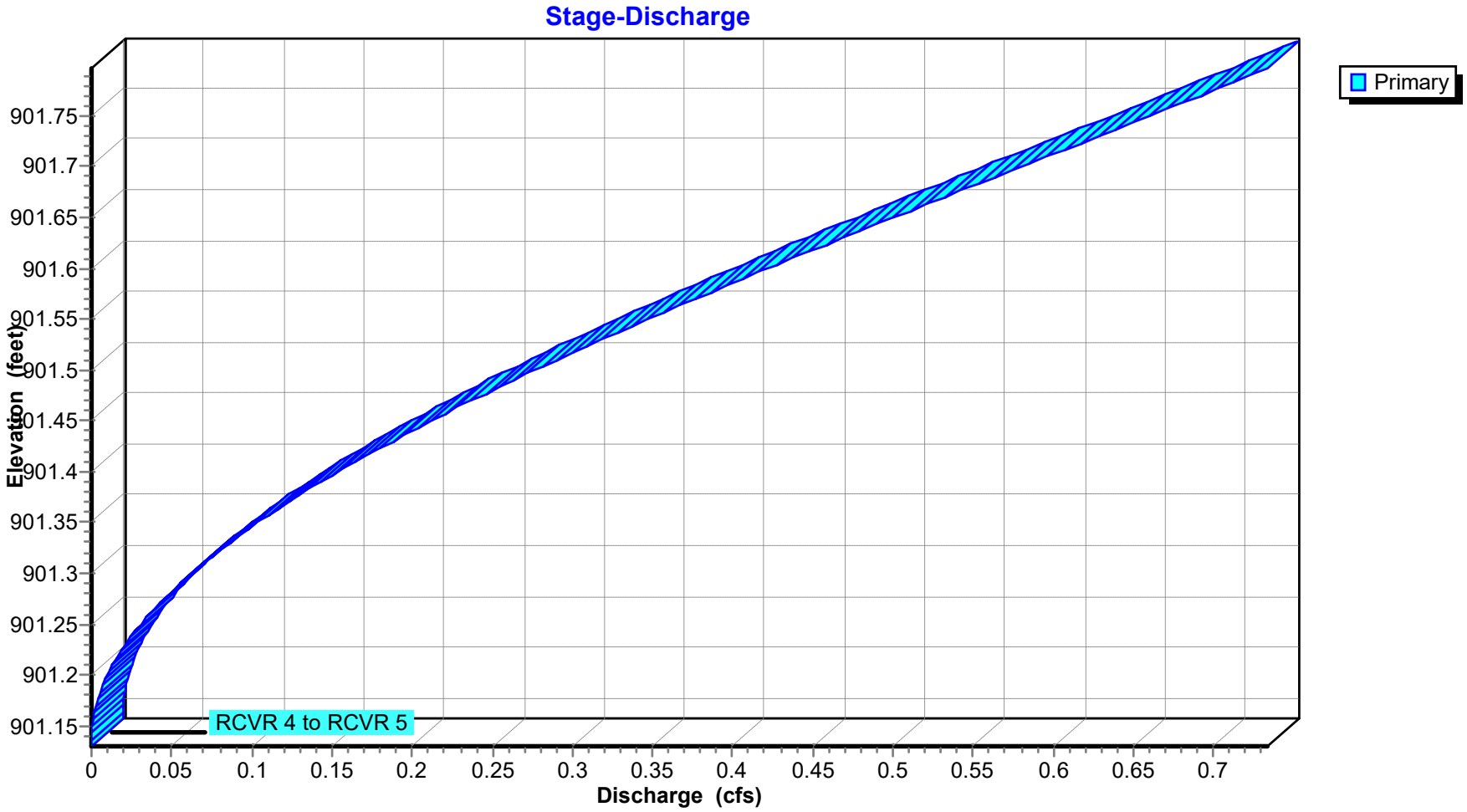
Primary OutFlow Max=0.19 cfs @ 12.04 hrs HW=901.48' TW=901.38' (Dynamic Tailwater)
↑—**1=RCVR 4 to RCVR 5** (Outlet Controls 0.19 cfs @ 1.48 fps)



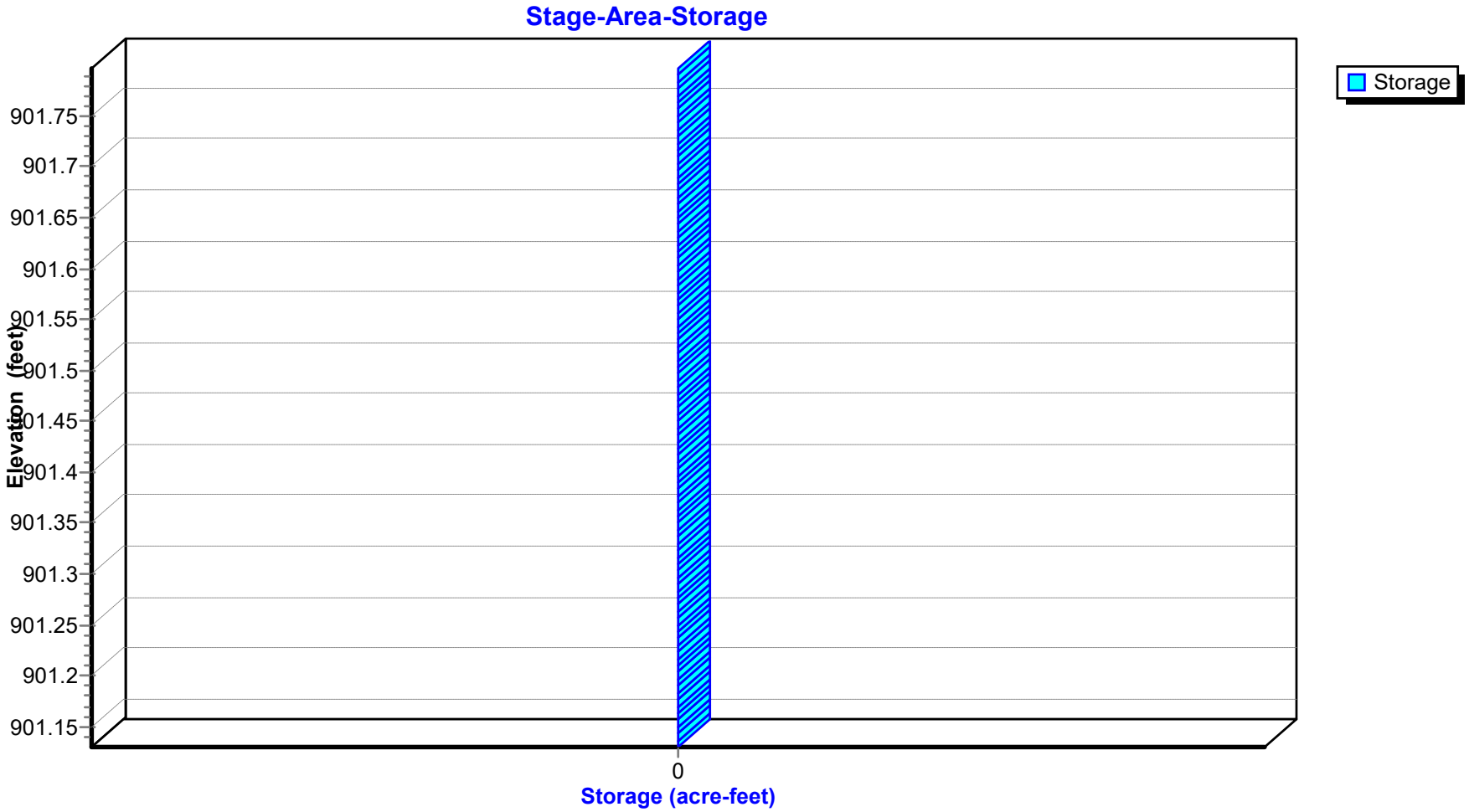
Pond RCVR 4: RCVR 4



Pond RCVR 4: RCVR 4



Pond RCVR 4: RCVR 4



Hydrograph for Pond RCVR 4: RCVR 4

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	901.13	0.00	9.00	0.00	901.17	0.00	18.00	0.00	901.17	0.00
0.25	0.00	901.13	0.00	9.25	0.00	901.17	0.00	18.25	0.00	901.17	0.00
0.50	0.00	901.13	0.00	9.50	0.00	901.17	0.00	18.50	0.00	901.17	0.00
0.75	0.00	901.13	0.00	9.75	0.00	901.17	0.00	18.75	0.00	901.17	0.00
1.00	0.00	901.13	0.00	10.00	0.00	901.18	0.00	19.00	0.00	901.17	0.00
1.25	0.00	901.13	0.00	10.25	0.00	901.18	0.00	19.25	0.00	901.17	0.00
1.50	0.00	901.13	0.00	10.50	0.00	901.18	0.00	19.50	0.00	901.17	0.00
1.75	0.00	901.13	0.00	10.75	0.01	901.19	0.01	19.75	0.00	901.17	0.00
2.00	0.00	901.13	0.00	11.00	0.01	901.19	0.01	20.00	0.00	901.17	0.00
2.25	0.00	901.13	0.00	11.25	0.01	901.20	0.01	20.25	0.00	901.16	0.00
2.50	0.00	901.13	0.00	11.50	0.01	901.21	0.01	20.50	0.00	901.16	0.00
2.75	0.00	901.13	0.00	11.75	0.03	901.27	0.03	20.75	0.00	901.16	0.00
3.00	0.00	901.13	0.00	12.00	**0.15**	**901.44**	**0.15**	21.00	0.00	901.16	0.00
3.25	0.00	901.13	0.00	12.25	**0.06**	**901.32**	**0.06**	21.25	0.00	901.16	0.00
3.50	0.00	901.13	0.00	12.50	0.03	901.28	0.03	21.50	0.00	901.16	0.00
3.75	0.00	901.13	0.00	12.75	0.01	901.22	0.01	21.75	0.00	901.16	0.00
4.00	0.00	901.14	0.00	13.00	0.01	901.21	0.01	22.00	0.00	901.16	0.00
4.25	0.00	901.14	0.00	13.25	0.01	901.20	0.01	22.25	0.00	901.16	0.00
4.50	0.00	901.14	0.00	13.50	0.01	901.20	0.01	22.50	0.00	901.16	0.00
4.75	0.00	901.14	0.00	13.75	0.01	901.19	0.01	22.75	0.00	901.16	0.00
5.00	0.00	901.14	0.00	14.00	0.01	901.19	0.01	23.00	0.00	901.16	0.00
5.25	0.00	901.15	0.00	14.25	0.01	901.19	0.01	23.25	0.00	901.16	0.00
5.50	0.00	901.15	0.00	14.50	0.00	901.18	0.00	23.50	0.00	901.16	0.00
5.75	0.00	901.15	0.00	14.75	0.00	901.18	0.00	23.75	0.00	901.16	0.00
6.00	0.00	901.15	0.00	15.00	0.00	901.18	0.00	24.00	0.00	901.16	0.00
6.25	0.00	901.15	0.00	15.25	0.00	901.18	0.00				
6.50	0.00	901.15	0.00	15.50	0.00	901.18	0.00				
6.75	0.00	901.15	0.00	15.75	0.00	901.18	0.00				
7.00	0.00	901.16	0.00	16.00	0.00	901.18	0.00				
7.25	0.00	901.16	0.00	16.25	0.00	901.17	0.00				
7.50	0.00	901.16	0.00	16.50	0.00	901.17	0.00				
7.75	0.00	901.16	0.00	16.75	0.00	901.17	0.00				
8.00	0.00	901.16	0.00	17.00	0.00	901.17	0.00				
8.25	0.00	901.16	0.00	17.25	0.00	901.17	0.00				
8.50	0.00	901.16	0.00	17.50	0.00	901.17	0.00				
8.75	0.00	901.17	0.00	17.75	0.00	901.17	0.00				

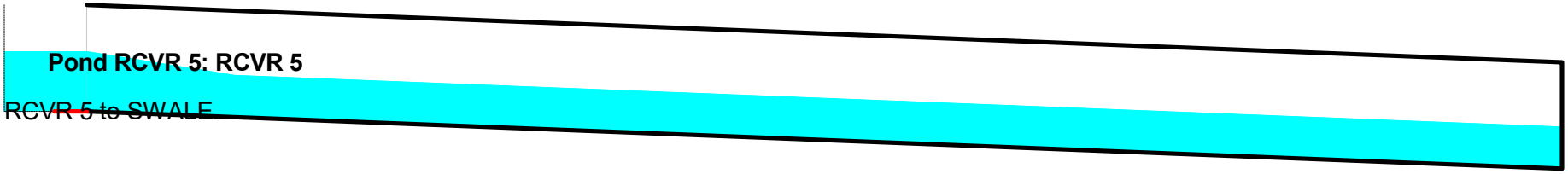
Summary for Pond RCVR 5: RCVR 5

Inflow Area = 0.130 ac, 92.31% Impervious, Inflow Depth > 1.53" for 1-yr event
Inflow = 0.28 cfs @ 12.01 hrs, Volume= 0.017 af
Outflow = 0.28 cfs @ 12.01 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
Primary = 0.28 cfs @ 12.01 hrs, Volume= 0.017 af
Routed to Pond SWALE : SWALE

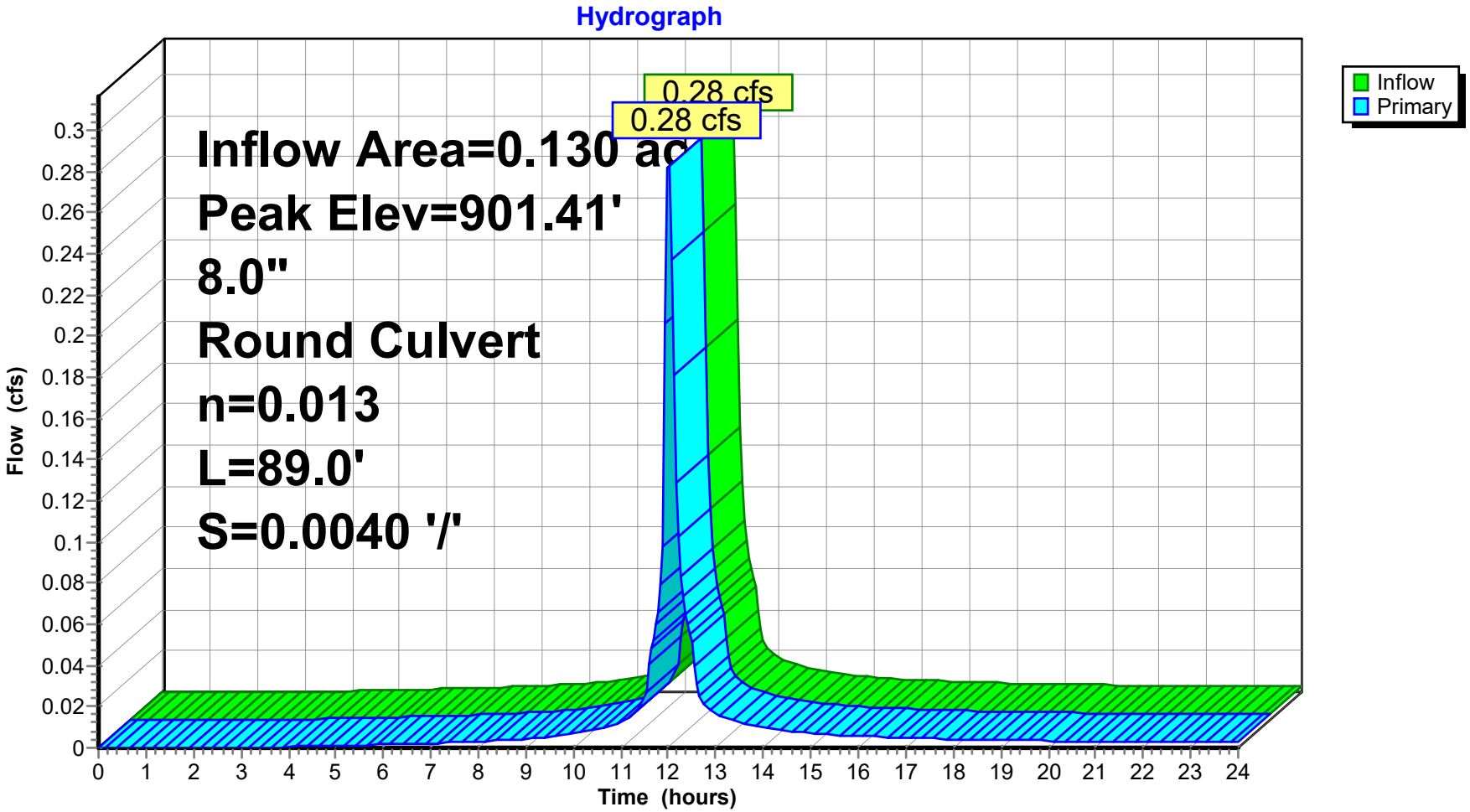
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.41' @ 12.01 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	901.04'	**8.0" Round RCVR 5 to SWALE** L= 89.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 901.04' / 900.68' S= 0.0040 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

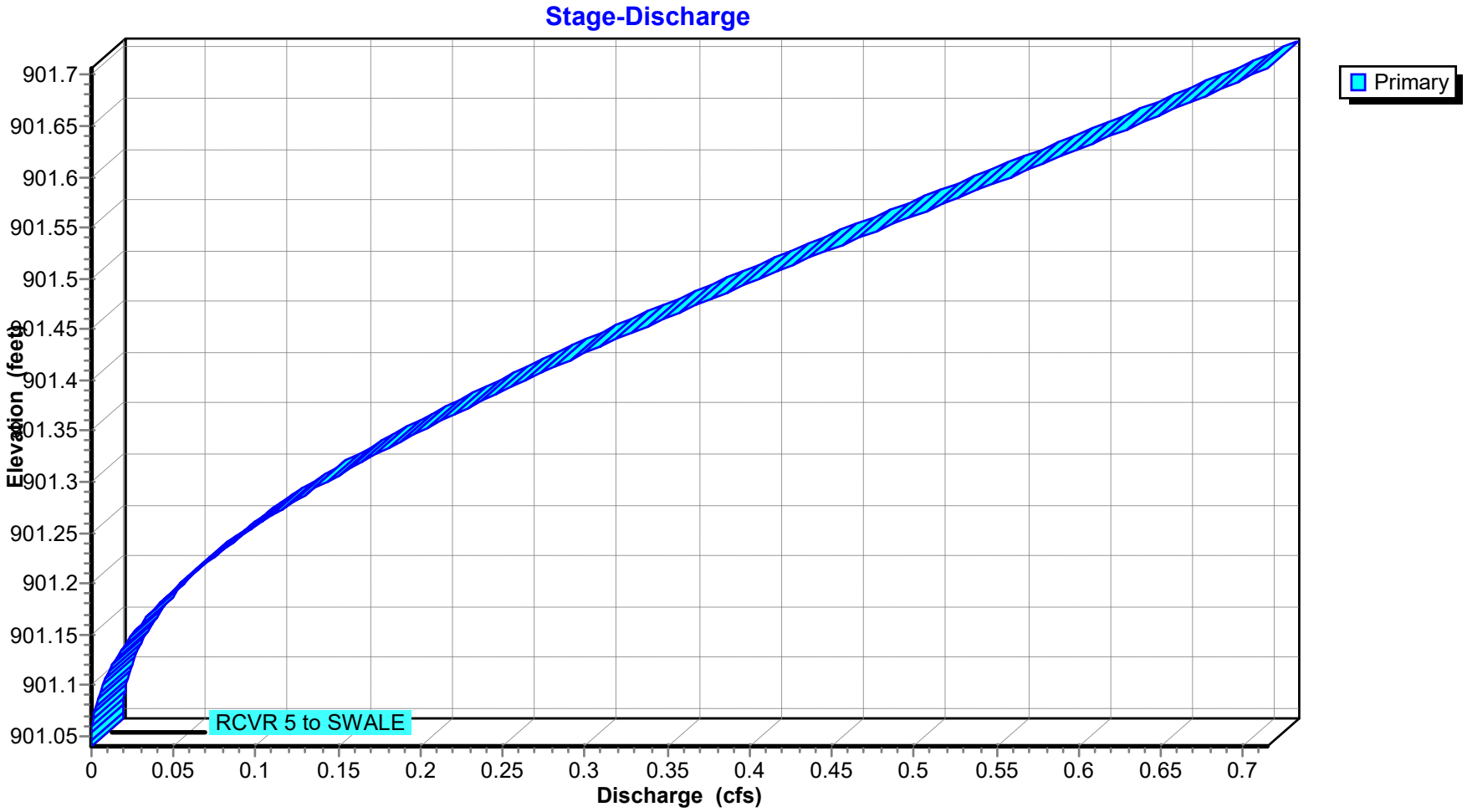
Primary OutFlow Max=0.28 cfs @ 12.01 hrs HW=901.41' TW=900.56' (Dynamic Tailwater)
↳**1=RCVR 5 to SWALE** (Barrel Controls 0.28 cfs @ 2.01 fps)



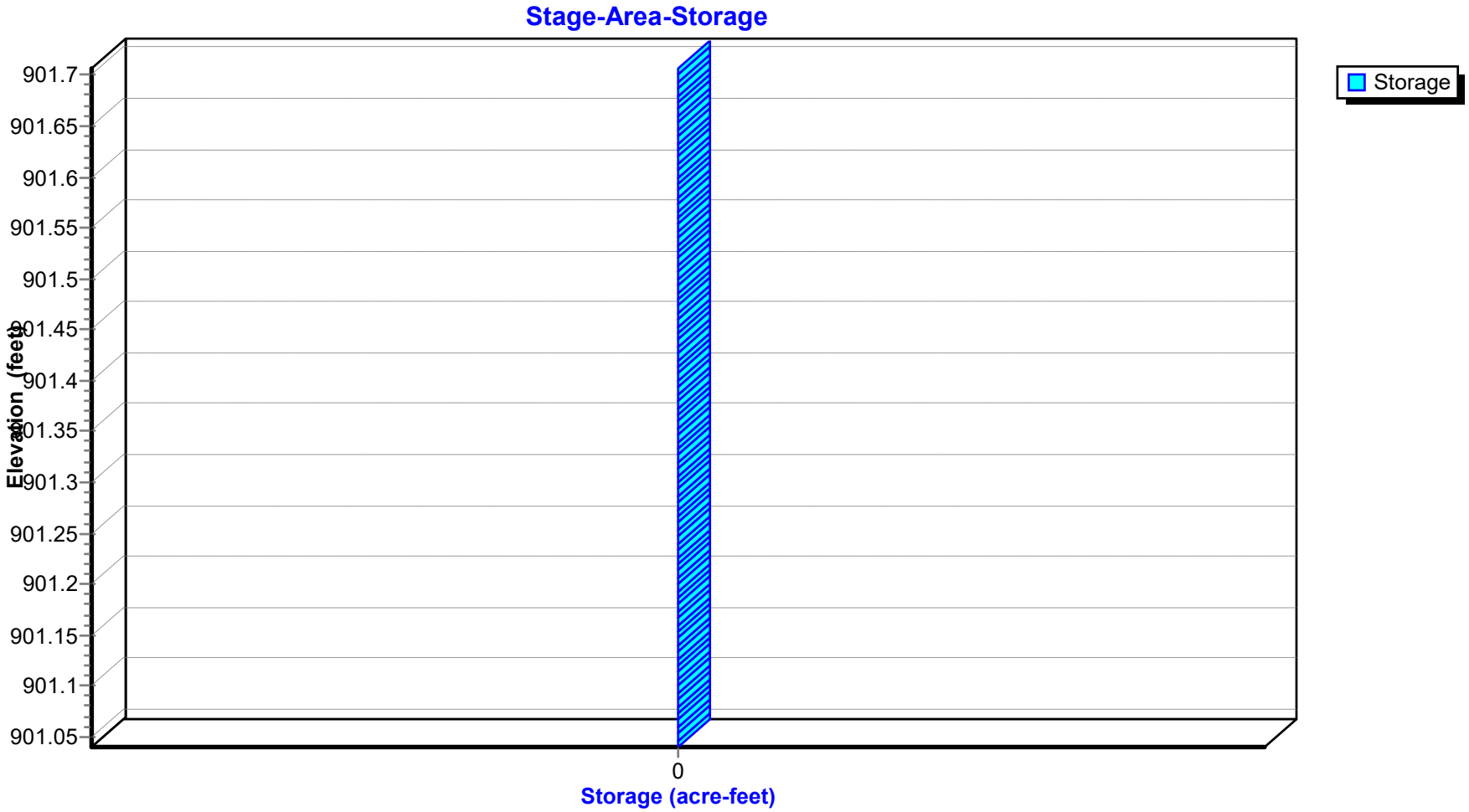
Pond RCVR 5: RCVR 5



Pond RCVR 5: RCVR 5



Pond RCVR 5: RCVR 5



Hydrograph for Pond RCVR 5: RCVR 5

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	901.04	0.00	9.00	0.00	901.09	0.00	18.00	0.00	901.09	0.00
0.25	0.00	901.04	0.00	9.25	0.00	901.09	0.00	18.25	0.00	901.09	0.00
0.50	0.00	901.04	0.00	9.50	0.01	901.09	0.01	18.50	0.00	901.09	0.00
0.75	0.00	901.04	0.00	9.75	0.01	901.10	0.01	18.75	0.00	901.09	0.00
1.00	0.00	901.04	0.00	10.00	0.01	901.10	0.01	19.00	0.00	901.09	0.00
1.25	0.00	901.04	0.00	10.25	0.01	901.10	0.01	19.25	0.00	901.09	0.00
1.50	0.00	901.04	0.00	10.50	0.01	901.11	0.01	19.50	0.00	901.08	0.00
1.75	0.00	901.04	0.00	10.75	0.01	901.11	0.01	19.75	0.00	901.08	0.00
2.00	0.00	901.04	0.00	11.00	0.01	901.12	0.01	20.00	0.00	901.08	0.00
2.25	0.00	901.05	0.00	11.25	0.02	901.13	0.02	20.25	0.00	901.08	0.00
2.50	0.00	901.05	0.00	11.50	0.02	901.14	0.02	20.50	0.00	901.08	0.00
2.75	0.00	901.05	0.00	11.75	0.06	901.21	0.06	20.75	0.00	901.08	0.00
3.00	0.00	901.05	0.00	12.00	**0.28**	**901.41**	**0.28**	21.00	0.00	901.08	0.00
3.25	0.00	901.05	0.00	12.25	0.08	901.24	0.08	21.25	0.00	901.08	0.00
3.50	0.00	901.05	0.00	12.50	0.05	901.21	0.05	21.50	0.00	901.08	0.00
3.75	0.00	901.06	0.00	12.75	0.02	901.15	0.02	21.75	0.00	901.08	0.00
4.00	0.00	901.06	0.00	13.00	0.02	901.14	0.02	22.00	0.00	901.08	0.00
4.25	0.00	901.06	0.00	13.25	0.01	901.13	0.01	22.25	0.00	901.08	0.00
4.50	0.00	901.06	0.00	13.50	0.01	901.12	0.01	22.50	0.00	901.08	0.00
4.75	0.00	901.06	0.00	13.75	0.01	901.12	0.01	22.75	0.00	901.08	0.00
5.00	0.00	901.06	0.00	14.00	0.01	901.11	0.01	23.00	0.00	901.08	0.00
5.25	0.00	901.07	0.00	14.25	0.01	901.11	0.01	23.25	0.00	901.08	0.00
5.50	0.00	901.07	0.00	14.50	0.01	901.11	0.01	23.50	0.00	901.08	0.00
5.75	0.00	901.07	0.00	14.75	0.01	901.10	0.01	23.75	0.00	901.08	0.00
6.00	0.00	901.07	0.00	15.00	0.01	901.10	0.01	24.00	0.00	901.08	0.00
6.25	0.00	901.07	0.00	15.25	0.01	901.10	0.01				
6.50	0.00	901.07	0.00	15.50	0.01	901.10	0.01				
6.75	0.00	901.07	0.00	15.75	0.01	901.10	0.01				
7.00	0.00	901.08	0.00	16.00	0.01	901.10	0.01				
7.25	0.00	901.08	0.00	16.25	0.01	901.09	0.01				
7.50	0.00	901.08	0.00	16.50	0.01	901.09	0.01				
7.75	0.00	901.08	0.00	16.75	0.01	901.09	0.01				
8.00	0.00	901.08	0.00	17.00	0.00	901.09	0.00				
8.25	0.00	901.08	0.00	17.25	0.00	901.09	0.00				
8.50	0.00	901.08	0.00	17.50	0.00	901.09	0.00				
8.75	0.00	901.09	0.00	17.75	0.00	901.09	0.00				

Summary for Pond SWALE: SWALE

Inflow Area = 0.280 ac, 64.29% Impervious, Inflow Depth > 1.15" for 1-yr event
Inflow = 0.34 cfs @ 12.02 hrs, Volume= 0.027 af
Outflow = 0.09 cfs @ 12.60 hrs, Volume= 0.016 af, Atten= 74%, Lag= 35.0 min
Primary = 0.09 cfs @ 12.60 hrs, Volume= 0.016 af
Routed to Pond RCVR 1 : RCVR 1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 900.91' @ 12.57 hrs Surf.Area= 978 sf Storage= 624 cf

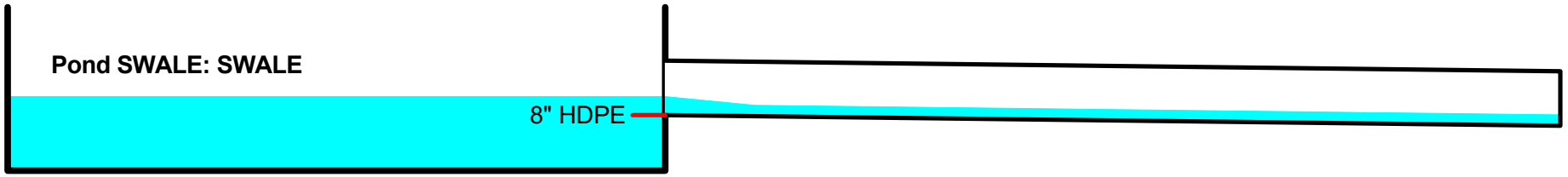
Plug-Flow detention time= 226.6 min calculated for 0.016 af (60% of inflow)
Center-of-Mass det. time= 117.4 min (924.2 - 806.9)

Volume	Invert	Avail.Storage	Storage Description
#1	900.00'	2,104 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
900.00	396	0	0
901.00	1,038	717	717
902.00	1,736	1,387	2,104

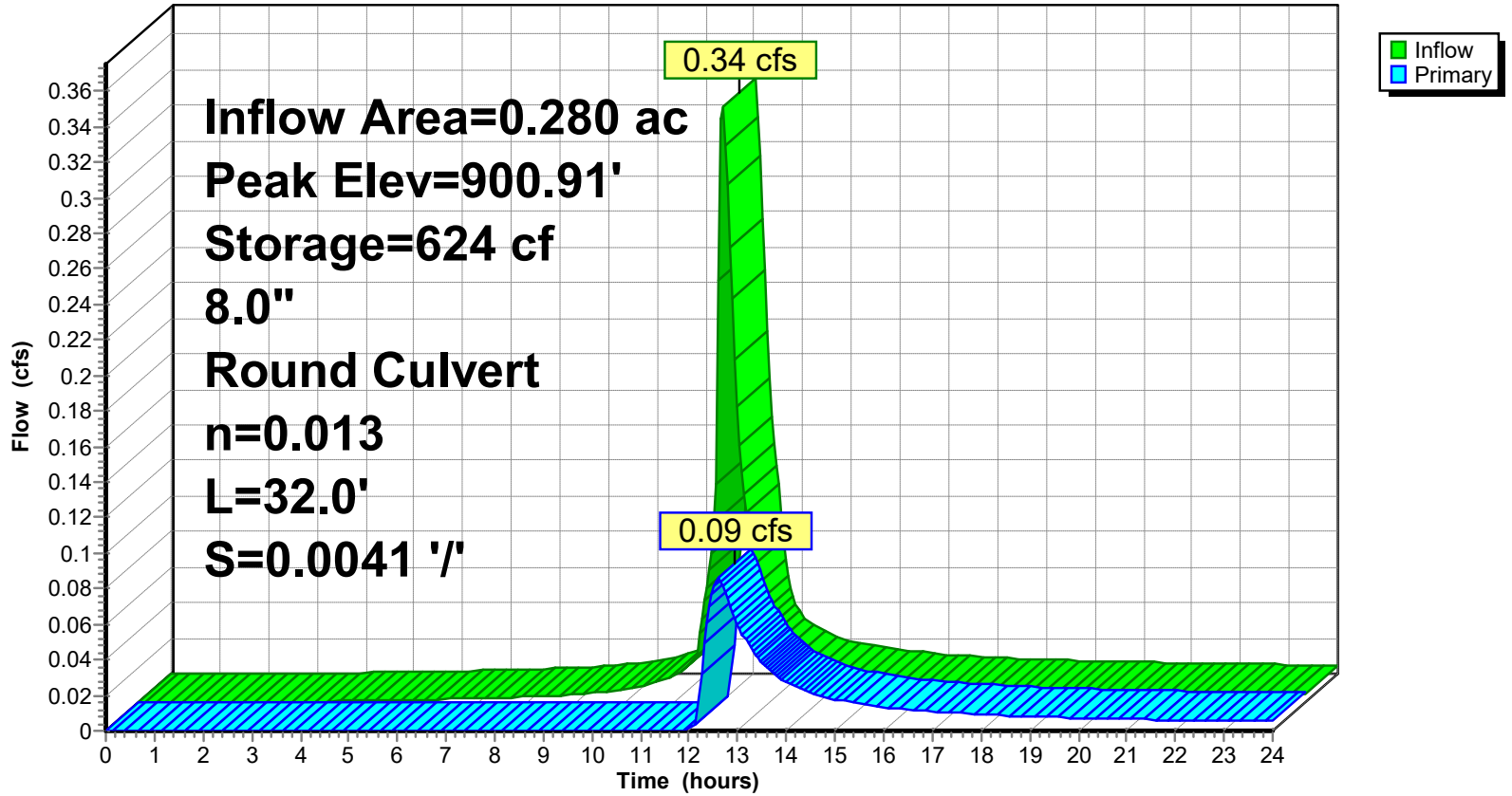
Device	Routing	Invert	Outlet Devices
#1	Primary	900.68'	**8.0" Round 8" HDPE** L= 32.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 900.68' / 900.55' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.09 cfs @ 12.60 hrs HW=900.91' TW=900.79' (Dynamic Tailwater)
1=8" HDPE (Outlet Controls 0.09 cfs @ 1.23 fps)

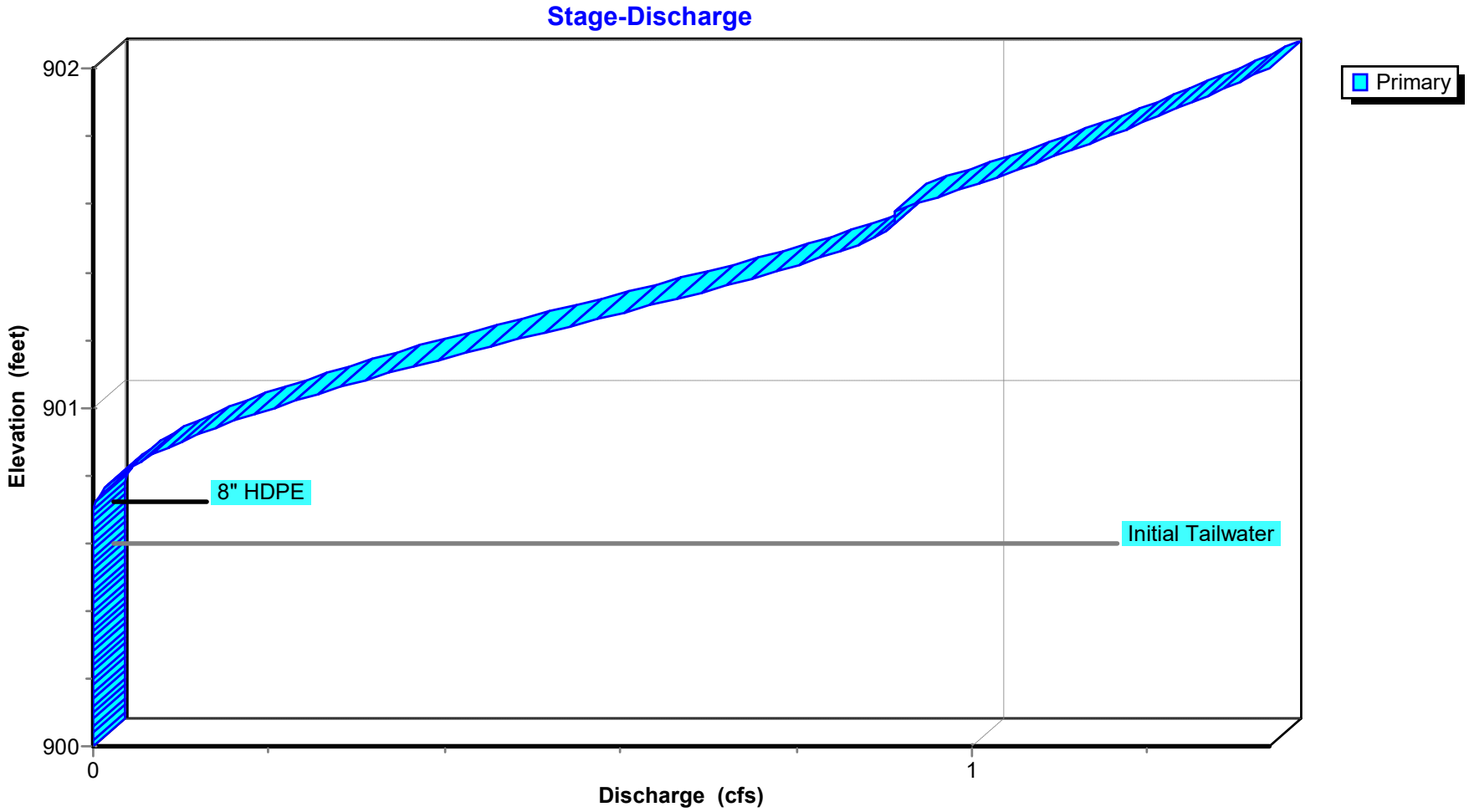


Pond SWALE: SWALE

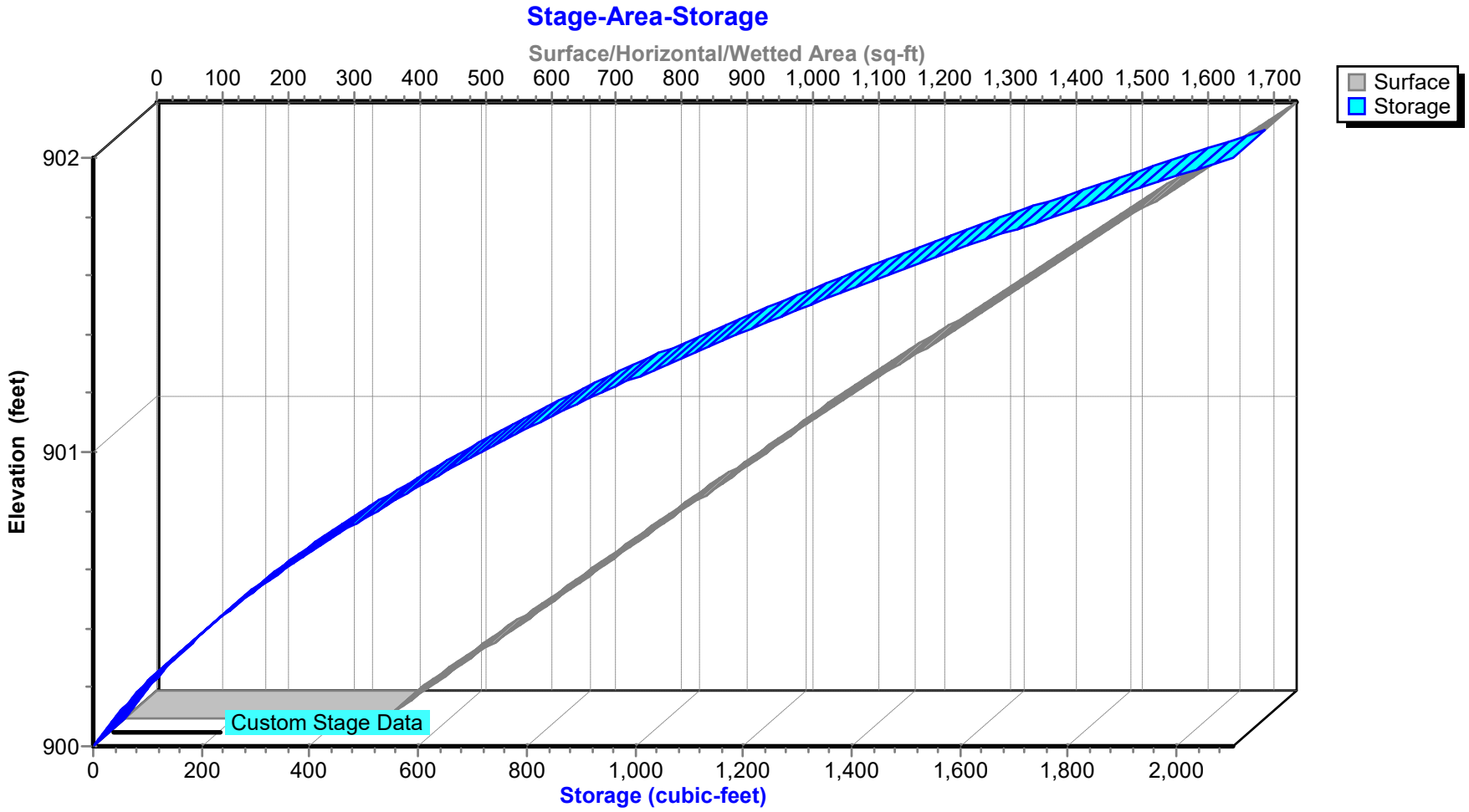
Hydrograph



Pond SWALE: SWALE



Pond SWALE: SWALE



Hydrograph for Pond SWALE: SWALE

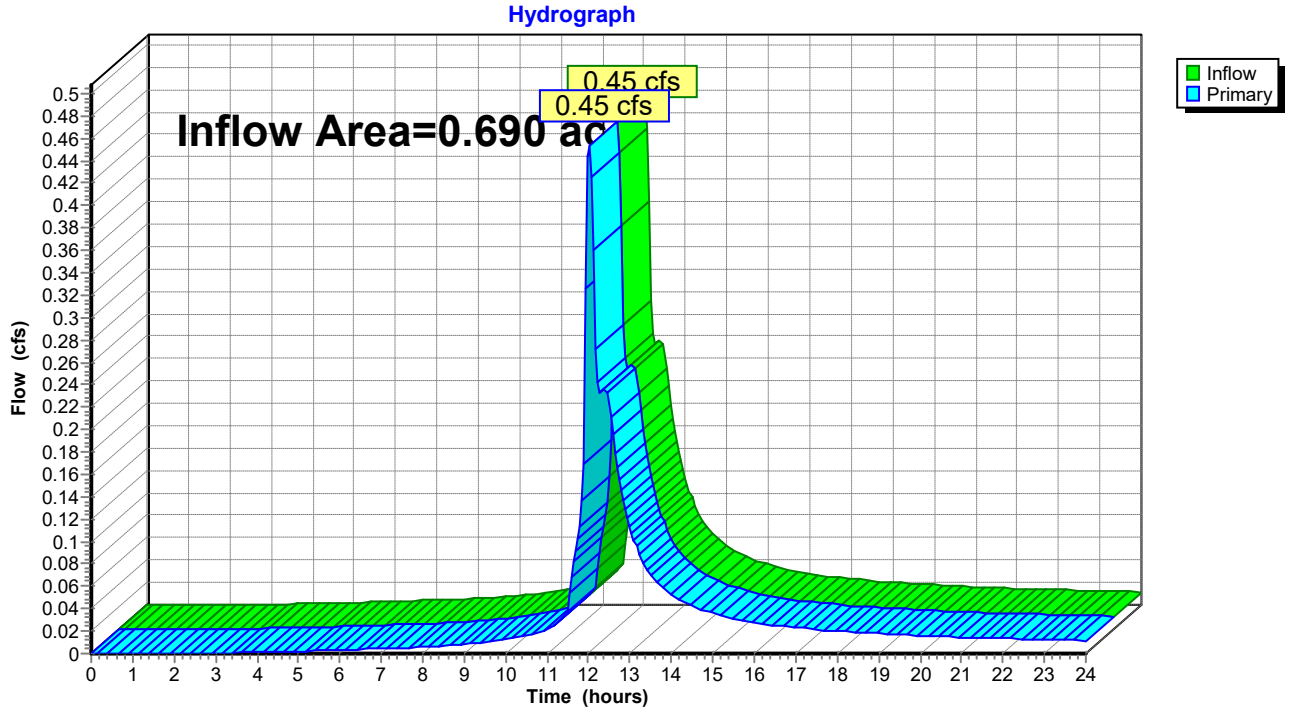
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	900.00	0.00
0.50	0.00	0	900.00	0.00
1.00	0.00	0	900.00	0.00
1.50	0.00	0	900.00	0.00
2.00	0.00	0	900.00	0.00
2.50	0.00	0	900.00	0.00
3.00	0.00	0	900.00	0.00
3.50	0.00	1	900.00	0.00
4.00	0.00	2	900.00	0.00
4.50	0.00	3	900.01	0.00
5.00	0.00	5	900.01	0.00
5.50	0.00	7	900.02	0.00
6.00	0.00	9	900.02	0.00
6.50	0.00	12	900.03	0.00
7.00	0.00	16	900.04	0.00
7.50	0.00	21	900.05	0.00
8.00	0.00	26	900.06	0.00
8.50	0.00	32	900.08	0.00
9.00	0.00	40	900.09	0.00
9.50	0.01	48	900.11	0.00
10.00	0.01	60	900.14	0.00
10.50	0.01	75	900.17	0.00
11.00	0.01	96	900.21	0.00
11.50	0.03	131	900.27	0.00
12.00	**0.33**	312	900.55	0.00
12.50	0.11	**620**	**900.90**	**0.08**
13.00	0.03	**584**	**900.87**	**0.06**
13.50	0.02	547	900.83	0.04
14.00	0.02	526	900.80	0.03
14.50	0.02	513	900.79	0.02
15.00	0.01	504	900.78	0.02
15.50	0.01	497	900.77	0.02
16.00	0.01	492	900.77	0.01
16.50	0.01	488	900.76	0.01
17.00	0.01	485	900.76	0.01
17.50	0.01	482	900.75	0.01
18.00	0.01	479	900.75	0.01
18.50	0.01	477	900.75	0.01
19.00	0.01	475	900.75	0.01
19.50	0.01	474	900.75	0.01
20.00	0.01	472	900.74	0.01
20.50	0.01	471	900.74	0.01
21.00	0.01	470	900.74	0.01
21.50	0.01	469	900.74	0.01
22.00	0.01	468	900.74	0.01
22.50	0.01	467	900.74	0.01
23.00	0.01	466	900.74	0.01
23.50	0.00	465	900.74	0.01
24.00	0.00	464	900.73	0.01

Summary for Link POST: Post Development

Inflow Area = 0.690 ac, 56.52% Impervious, Inflow Depth > 0.92" for 1-yr event
Inflow = 0.45 cfs @ 12.02 hrs, Volume= 0.053 af
Primary = 0.45 cfs @ 12.02 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Link POST: Post Development



Hydrograph for Link POST: Post Development

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	9.00	0.01	0.00	0.01	18.00	0.02	0.00	0.02
0.25	0.00	0.00	0.00	9.25	0.01	0.00	0.01	18.25	0.02	0.00	0.02
0.50	0.00	0.00	0.00	9.50	0.01	0.00	0.01	18.50	0.02	0.00	0.02
0.75	0.00	0.00	0.00	9.75	0.01	0.00	0.01	18.75	0.02	0.00	0.02
1.00	0.00	0.00	0.00	10.00	0.01	0.00	0.01	19.00	0.02	0.00	0.02
1.25	0.00	0.00	0.00	10.25	0.01	0.00	0.01	19.25	0.02	0.00	0.02
1.50	0.00	0.00	0.00	10.50	0.02	0.00	0.02	19.50	0.02	0.00	0.02
1.75	0.00	0.00	0.00	10.75	0.02	0.00	0.02	19.75	0.02	0.00	0.02
2.00	0.00	0.00	0.00	11.00	0.02	0.00	0.02	20.00	0.02	0.00	0.02
2.25	0.00	0.00	0.00	11.25	0.03	0.00	0.03	20.25	0.02	0.00	0.02
2.50	0.00	0.00	0.00	11.50	0.04	0.00	0.04	20.50	0.02	0.00	0.02
2.75	0.00	0.00	0.00	11.75	0.10	0.00	0.10	20.75	0.01	0.00	0.01
3.00	0.00	0.00	0.00	12.00	**0.44**	0.00	**0.44**	21.00	0.01	0.00	0.01
3.25	0.00	0.00	0.00	12.25	0.23	0.00	0.23	21.25	0.01	0.00	0.01
3.50	0.00	0.00	0.00	12.50	0.23	0.00	0.23	21.50	0.01	0.00	0.01
3.75	0.00	0.00	0.00	12.75	0.16	0.00	0.16	21.75	0.01	0.00	0.01
4.00	0.00	0.00	0.00	13.00	0.11	0.00	0.11	22.00	0.01	0.00	0.01
4.25	0.00	0.00	0.00	13.25	0.09	0.00	0.09	22.25	0.01	0.00	0.01
4.50	0.00	0.00	0.00	13.50	0.07	0.00	0.07	22.50	0.01	0.00	0.01
4.75	0.00	0.00	0.00	13.75	0.06	0.00	0.06	22.75	0.01	0.00	0.01
5.00	0.00	0.00	0.00	14.00	0.05	0.00	0.05	23.00	0.01	0.00	0.01
5.25	0.00	0.00	0.00	14.25	0.05	0.00	0.05	23.25	0.01	0.00	0.01
5.50	0.00	0.00	0.00	14.50	0.04	0.00	0.04	23.50	0.01	0.00	0.01
5.75	0.00	0.00	0.00	14.75	0.04	0.00	0.04	23.75	0.01	0.00	0.01
6.00	0.00	0.00	0.00	15.00	0.04	0.00	0.04	24.00	0.01	0.00	0.01
6.25	0.00	0.00	0.00	15.25	0.03	0.00	0.03				
6.50	0.00	0.00	0.00	15.50	0.03	0.00	0.03				
6.75	0.00	0.00	0.00	15.75	0.03	0.00	0.03				
7.00	0.00	0.00	0.00	16.00	0.03	0.00	0.03				
7.25	0.00	0.00	0.00	16.25	0.03	0.00	0.03				
7.50	0.01	0.00	0.01	16.50	0.03	0.00	0.03				
7.75	0.01	0.00	0.01	16.75	0.02	0.00	0.02				
8.00	0.01	0.00	0.01	17.00	0.02	0.00	0.02				
8.25	0.01	0.00	0.01	17.25	0.02	0.00	0.02				
8.50	0.01	0.00	0.01	17.50	0.02	0.00	0.02				
8.75	0.01	0.00	0.01	17.75	0.02	0.00	0.02				

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment ATO: Area to Offsite Runoff Area=0.190 ac 0.00% Impervious Runoff Depth>1.35"
Flow Length=60' Slope=0.0050 '/' Tc=30.0 min CN=80 Runoff=0.20 cfs 0.021 af

Subcatchment DA 1: Drainage Area 1 Runoff Area=0.060 ac 100.00% Impervious Runoff Depth>2.91"
Flow Length=80' Slope=0.0100 '/' Tc=1.6 min CN=98 Runoff=0.29 cfs 0.015 af

Subcatchment DA 2: Drainage Area 2 Runoff Area=0.010 ac 100.00% Impervious Runoff Depth>2.91"
Flow Length=35' Slope=0.0100 '/' Tc=0.8 min CN=98 Runoff=0.05 cfs 0.002 af

Subcatchment DA 3: Drainage Area 3 Runoff Area=0.150 ac 93.33% Impervious Runoff Depth>2.79"
Flow Length=75' Slope=0.0100 '/' Tc=7.2 min CN=97 Runoff=0.57 cfs 0.035 af

Subcatchment DA 4: Drainage Area 4 Runoff Area=0.080 ac 87.50% Impervious Runoff Depth>2.69"
Flow Length=20' Slope=0.0100 '/' Tc=6.3 min CN=96 Runoff=0.31 cfs 0.018 af

Subcatchment DA 5: Drainage Area 5 Runoff Area=0.050 ac 100.00% Impervious Runoff Depth>2.91"
Flow Length=60' Slope=0.0050 '/' Tc=1.7 min CN=98 Runoff=0.24 cfs 0.012 af

Subcatchment DA 6: Drainage Area 6 Runoff Area=0.150 ac 40.00% Impervious Runoff Depth>1.86"
Flow Length=40' Slope=0.0045 '/' Tc=15.0 min CN=87 Runoff=0.31 cfs 0.023 af

Pond EX RCVR: EX RCVR Peak Elev=900.21' Inflow=0.87 cfs 0.094 af
12.0" Round Culvert n=0.013 L=121.0' S=0.0031 '/' Outflow=0.87 cfs 0.094 af

Pond RCVR 1: RCVR 1 Peak Elev=901.10' Inflow=0.43 cfs 0.057 af
8.0" Round Culvert n=0.013 L=59.0' S=0.0041 '/' Outflow=0.43 cfs 0.057 af

Pond RCVR 2: RCVR 2 Peak Elev=900.95' Inflow=0.87 cfs 0.094 af
8.0" Round Culvert n=0.013 L=72.0' S=0.0100 '/' Outflow=0.87 cfs 0.094 af

Pond RCVR 3: RCVR 3 Peak Elev=901.12' Inflow=0.57 cfs 0.035 af
8.0" Round Culvert n=0.013 L=39.0' S=0.0041 '/' Outflow=0.57 cfs 0.035 af

Pond RCVR 4: RCVR 4 Peak Elev=901.64' Inflow=0.31 cfs 0.018 af
8.0" Round Culvert n=0.013 L=22.0' S=0.0041 '/' Outflow=0.31 cfs 0.018 af

Pond RCVR 5: RCVR 5 Peak Elev=901.56' Inflow=0.49 cfs 0.030 af
8.0" Round Culvert n=0.013 L=89.0' S=0.0040 '/' Outflow=0.49 cfs 0.030 af

Pond SWALE: SWALE Peak Elev=901.23' Storage=972 cf Inflow=0.64 cfs 0.053 af
8.0" Round Culvert n=0.013 L=32.0' S=0.0041 '/' Outflow=0.37 cfs 0.042 af

Link POST: Post Development Inflow=0.93 cfs 0.115 af
Primary=0.93 cfs 0.115 af

Total Runoff Area = 0.690 ac Runoff Volume = 0.126 af Average Runoff Depth = 2.20"
43.48% Pervious = 0.300 ac 56.52% Impervious = 0.390 ac

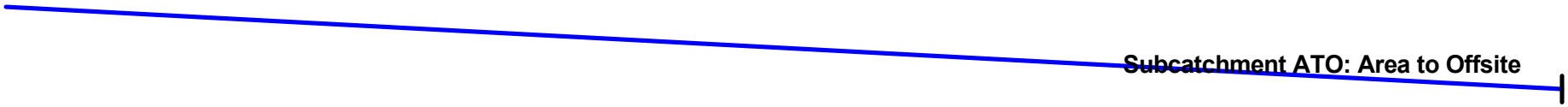
Summary for Subcatchment ATO: Area to Offsite

Runoff = 0.20 cfs @ 12.39 hrs, Volume= 0.021 af, Depth> 1.35"
Routed to Link POST : Post Development

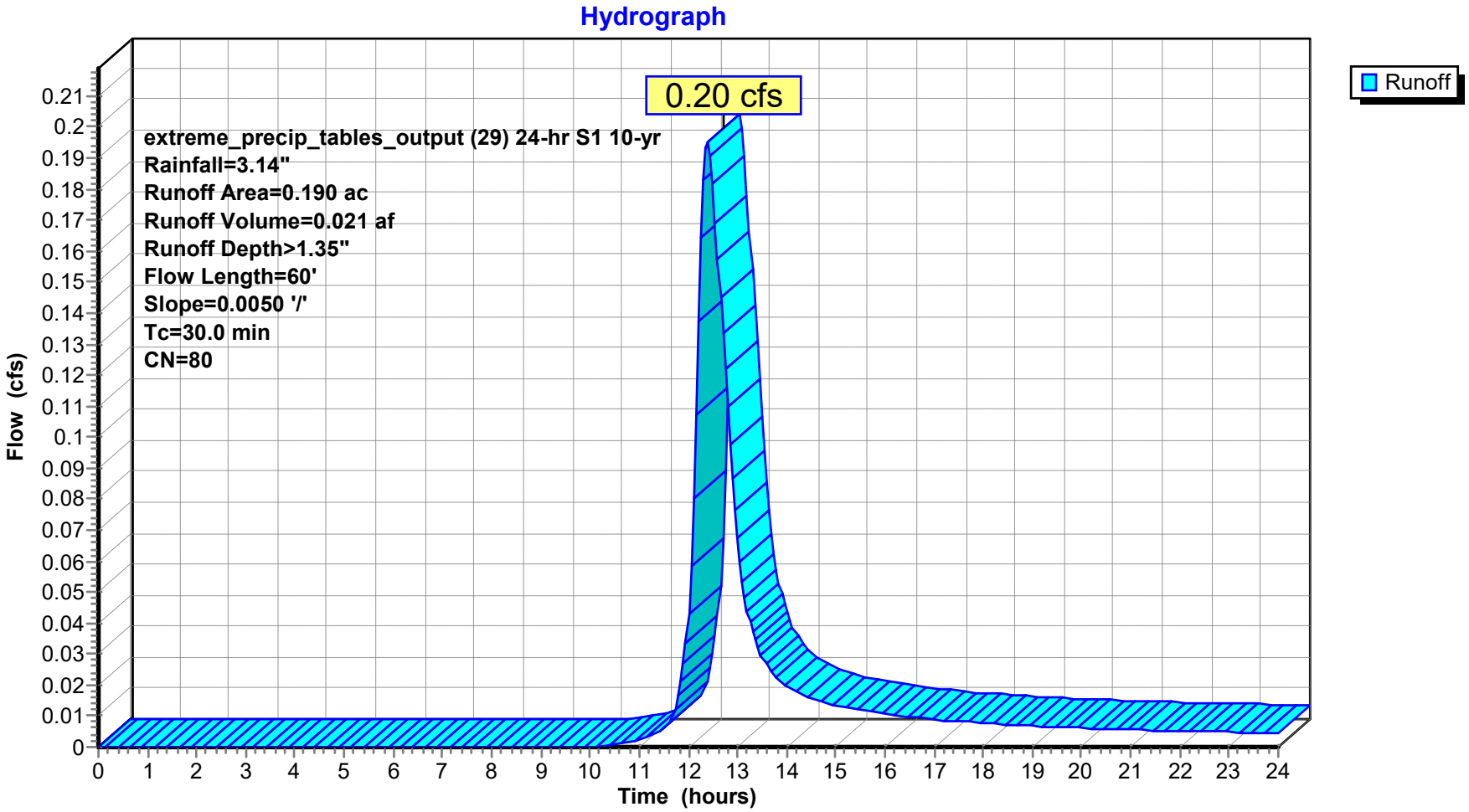
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 10-yr Rainfall=3.14"

Area (ac)	CN	Description
0.190	80	>75% Grass cover, Good, HSG D
0.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.0	60	0.0050	0.03		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.20"



Subcatchment ATO: Area to Offsite



Hydrograph for Subcatchment ATO: Area to Offsite

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.43	0.00	0.00	18.00	2.91	1.18	0.01
0.25	0.01	0.00	0.00	9.25	0.45	0.00	0.00	18.25	2.92	1.19	0.01
0.50	0.02	0.00	0.00	9.50	0.48	0.00	0.00	18.50	2.93	1.20	0.01
0.75	0.02	0.00	0.00	9.75	0.50	0.00	0.00	18.75	2.95	1.21	0.01
1.00	0.03	0.00	0.00	10.00	0.53	0.00	0.00	19.00	2.96	1.22	0.01
1.25	0.04	0.00	0.00	10.25	0.57	0.00	0.00	19.25	2.97	1.23	0.01
1.50	0.05	0.00	0.00	10.50	0.60	0.00	0.00	19.50	2.98	1.23	0.01
1.75	0.06	0.00	0.00	10.75	0.64	0.01	0.00	19.75	2.99	1.24	0.01
2.00	0.06	0.00	0.00	11.00	0.69	0.01	0.00	20.00	3.00	1.25	0.01
2.25	0.07	0.00	0.00	11.25	0.75	0.02	0.00	20.25	3.01	1.26	0.01
2.50	0.08	0.00	0.00	11.50	0.82	0.04	0.01	20.50	3.02	1.27	0.01
2.75	0.09	0.00	0.00	11.75	1.05	0.10	0.01	20.75	3.03	1.27	0.01
3.00	0.10	0.00	0.00	12.00	1.74	0.41	0.04	21.00	3.04	1.28	0.01
3.25	0.11	0.00	0.00	12.25	2.12	0.64	**0.16**	21.25	3.05	1.29	0.01
3.50	0.12	0.00	0.00	12.50	2.33	0.78	**0.18**	21.50	3.06	1.29	0.01
3.75	0.13	0.00	0.00	12.75	2.40	0.82	0.12	21.75	3.07	1.30	0.01
4.00	0.14	0.00	0.00	13.00	2.46	0.86	0.07	22.00	3.08	1.31	0.01
4.25	0.15	0.00	0.00	13.25	2.51	0.89	0.04	22.25	3.08	1.31	0.01
4.50	0.16	0.00	0.00	13.50	2.55	0.92	0.03	22.50	3.09	1.32	0.01
4.75	0.17	0.00	0.00	13.75	2.58	0.94	0.02	22.75	3.10	1.33	0.00
5.00	0.18	0.00	0.00	14.00	2.61	0.97	0.02	23.00	3.11	1.33	0.00
5.25	0.20	0.00	0.00	14.25	2.64	0.99	0.02	23.25	3.12	1.34	0.00
5.50	0.21	0.00	0.00	14.50	2.67	1.01	0.02	23.50	3.12	1.34	0.00
5.75	0.22	0.00	0.00	14.75	2.69	1.02	0.01	23.75	3.13	1.35	0.00
6.00	0.23	0.00	0.00	15.00	2.71	1.04	0.01	24.00	**3.14**	**1.36**	0.00
6.25	0.25	0.00	0.00	15.25	2.73	1.05	0.01				
6.50	0.26	0.00	0.00	15.50	2.75	1.07	0.01				
6.75	0.27	0.00	0.00	15.75	2.77	1.08	0.01				
7.00	0.29	0.00	0.00	16.00	2.79	1.09	0.01				
7.25	0.30	0.00	0.00	16.25	2.81	1.11	0.01				
7.50	0.32	0.00	0.00	16.50	2.82	1.12	0.01				
7.75	0.33	0.00	0.00	16.75	2.84	1.13	0.01				
8.00	0.35	0.00	0.00	17.00	2.85	1.14	0.01				
8.25	0.37	0.00	0.00	17.25	2.87	1.15	0.01				
8.50	0.39	0.00	0.00	17.50	2.88	1.16	0.01				
8.75	0.41	0.00	0.00	17.75	2.90	1.17	0.01				

Summary for Subcatchment DA 1: Drainage Area 1

Runoff = 0.29 cfs @ 11.98 hrs, Volume= 0.015 af, Depth> 2.91"
Routed to Pond RCVR 1 : RCVR 1

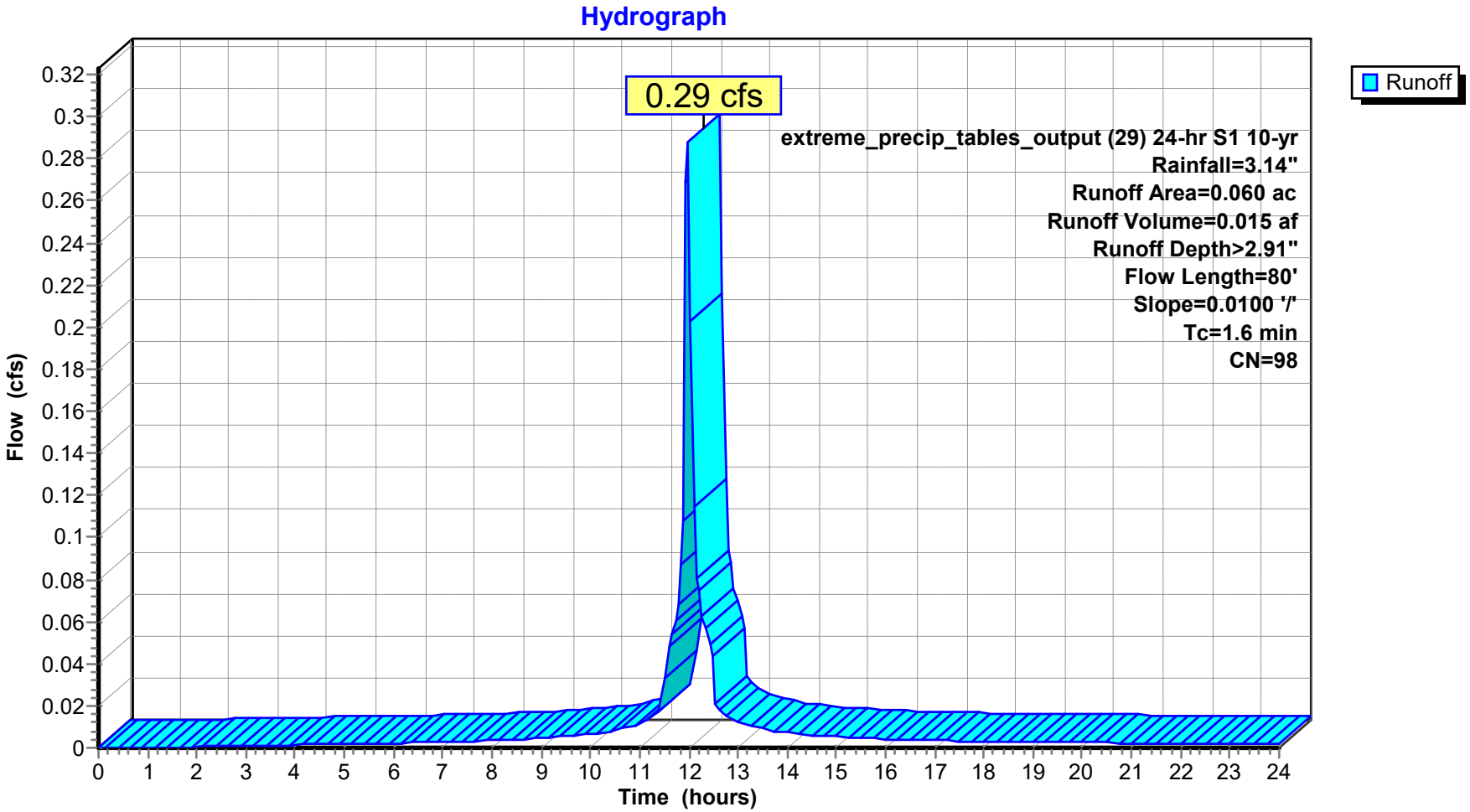
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 10-yr Rainfall=3.14"

Area (ac)	CN	Description
0.060	98	Paved parking, HSG D
0.060		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	80	0.0100	0.83		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"



Subcatchment DA 1: Drainage Area 1



Hydrograph for Subcatchment DA 1: Drainage Area 1

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.43	0.26	0.00	18.00	2.91	2.68	0.00
0.25	0.01	0.00	0.00	9.25	0.45	0.28	0.01	18.25	2.92	2.69	0.00
0.50	0.02	0.00	0.00	9.50	0.48	0.30	0.01	18.50	2.93	2.70	0.00
0.75	0.02	0.00	0.00	9.75	0.50	0.32	0.01	18.75	2.95	2.71	0.00
1.00	0.03	0.00	0.00	10.00	0.53	0.35	0.01	19.00	2.96	2.73	0.00
1.25	0.04	0.00	0.00	10.25	0.57	0.38	0.01	19.25	2.97	2.74	0.00
1.50	0.05	0.00	0.00	10.50	0.60	0.41	0.01	19.50	2.98	2.75	0.00
1.75	0.06	0.00	0.00	10.75	0.64	0.45	0.01	19.75	2.99	2.76	0.00
2.00	0.06	0.00	0.00	11.00	0.69	0.49	0.01	20.00	3.00	2.77	0.00
2.25	0.07	0.00	0.00	11.25	0.75	0.55	0.01	20.25	3.01	2.78	0.00
2.50	0.08	0.01	0.00	11.50	0.82	0.62	0.02	20.50	3.02	2.79	0.00
2.75	0.09	0.01	0.00	11.75	1.05	0.84	0.06	20.75	3.03	2.80	0.00
3.00	0.10	0.01	0.00	12.00	1.74	1.52	**0.27**	21.00	3.04	2.81	0.00
3.25	0.11	0.02	0.00	12.25	2.12	1.89	0.06	21.25	3.05	2.82	0.00
3.50	0.12	0.02	0.00	12.50	2.33	2.10	0.04	21.50	3.06	2.83	0.00
3.75	0.13	0.03	0.00	12.75	2.40	2.18	0.02	21.75	3.07	2.83	0.00
4.00	0.14	0.03	0.00	13.00	2.46	2.23	0.01	22.00	3.08	2.84	0.00
4.25	0.15	0.04	0.00	13.25	2.51	2.28	0.01	22.25	3.08	2.85	0.00
4.50	0.16	0.04	0.00	13.50	2.55	2.32	0.01	22.50	3.09	2.86	0.00
4.75	0.17	0.05	0.00	13.75	2.58	2.35	0.01	22.75	3.10	2.87	0.00
5.00	0.18	0.06	0.00	14.00	2.61	2.38	0.01	23.00	3.11	2.88	0.00
5.25	0.20	0.07	0.00	14.25	2.64	2.41	0.01	23.25	3.12	2.88	0.00
5.50	0.21	0.07	0.00	14.50	2.67	2.44	0.01	23.50	3.12	2.89	0.00
5.75	0.22	0.08	0.00	14.75	2.69	2.46	0.01	23.75	3.13	2.90	0.00
6.00	0.23	0.09	0.00	15.00	2.71	2.48	0.01	24.00	**3.14**	**2.91**	0.00
6.25	0.25	0.10	0.00	15.25	2.73	2.50	0.00				
6.50	0.26	0.11	0.00	15.50	2.75	2.52	0.00				
6.75	0.27	0.12	0.00	15.75	2.77	2.54	0.00				
7.00	0.29	0.13	0.00	16.00	2.79	2.56	0.00				
7.25	0.30	0.15	0.00	16.25	2.81	2.58	0.00				
7.50	0.32	0.16	0.00	16.50	2.82	2.59	0.00				
7.75	0.33	0.17	0.00	16.75	2.84	2.61	0.00				
8.00	0.35	0.19	0.00	17.00	2.85	2.62	0.00				
8.25	0.37	0.20	0.00	17.25	2.87	2.64	0.00				
8.50	0.39	0.22	0.00	17.50	2.88	2.65	0.00				
8.75	0.41	0.24	0.00	17.75	2.90	2.66	0.00				

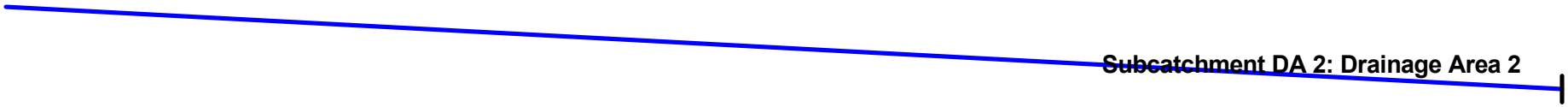
Summary for Subcatchment DA 2: Drainage Area 2

Runoff = 0.05 cfs @ 11.96 hrs, Volume= 0.002 af, Depth> 2.91"
Routed to Pond RCVR 2 : RCVR 2

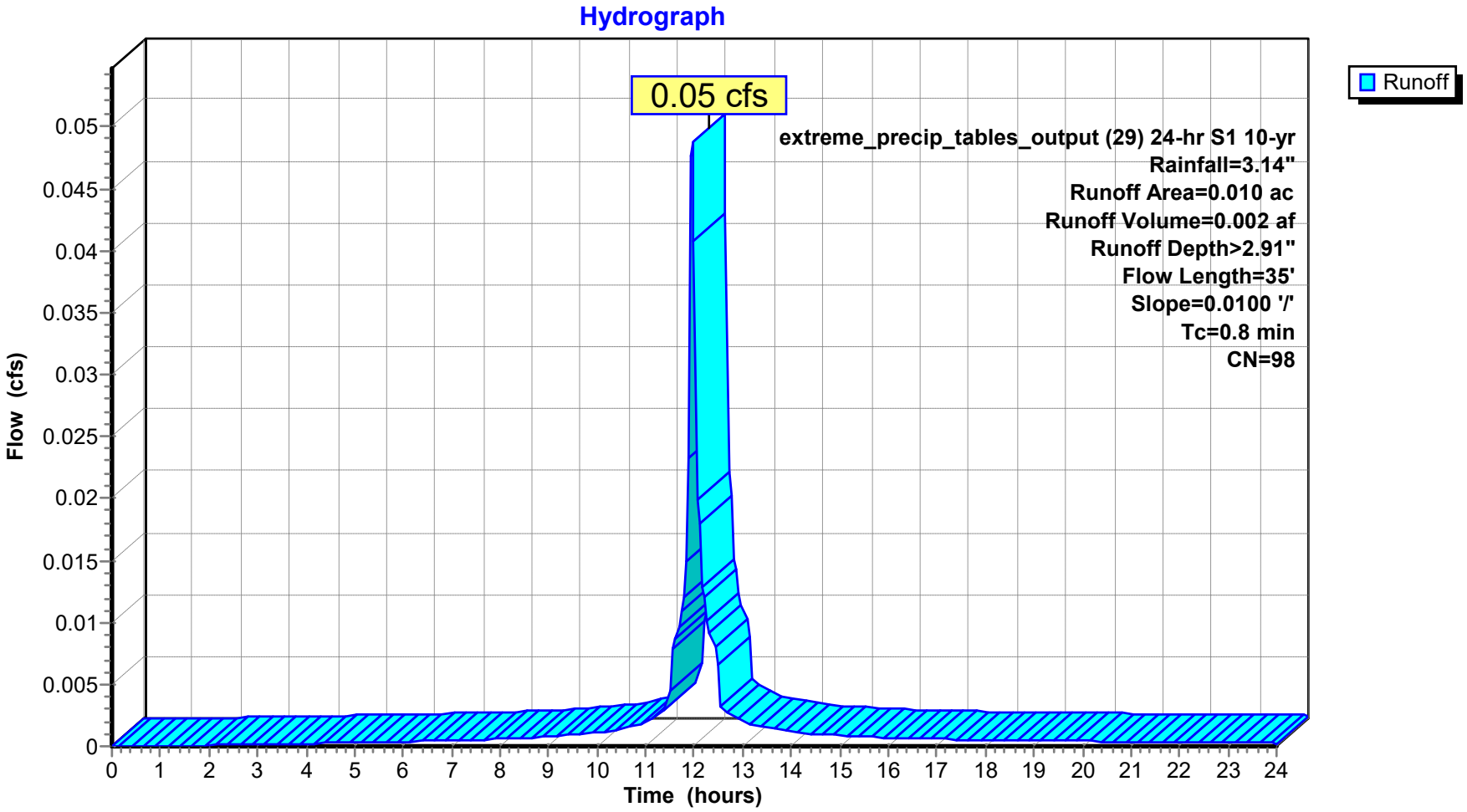
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 10-yr Rainfall=3.14"

Area (ac)	CN	Description
0.010	98	Paved parking, HSG D
0.010		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	35	0.0100	0.70		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"



Subcatchment DA 2: Drainage Area 2



Hydrograph for Subcatchment DA 2: Drainage Area 2

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.43	0.26	0.00	18.00	2.91	2.68	0.00
0.25	0.01	0.00	0.00	9.25	0.45	0.28	0.00	18.25	2.92	2.69	0.00
0.50	0.02	0.00	0.00	9.50	0.48	0.30	0.00	18.50	2.93	2.70	0.00
0.75	0.02	0.00	0.00	9.75	0.50	0.32	0.00	18.75	2.95	2.71	0.00
1.00	0.03	0.00	0.00	10.00	0.53	0.35	0.00	19.00	2.96	2.73	0.00
1.25	0.04	0.00	0.00	10.25	0.57	0.38	0.00	19.25	2.97	2.74	0.00
1.50	0.05	0.00	0.00	10.50	0.60	0.41	0.00	19.50	2.98	2.75	0.00
1.75	0.06	0.00	0.00	10.75	0.64	0.45	0.00	19.75	2.99	2.76	0.00
2.00	0.06	0.00	0.00	11.00	0.69	0.49	0.00	20.00	3.00	2.77	0.00
2.25	0.07	0.00	0.00	11.25	0.75	0.55	0.00	20.25	3.01	2.78	0.00
2.50	0.08	0.01	0.00	11.50	0.82	0.62	0.00	20.50	3.02	2.79	0.00
2.75	0.09	0.01	0.00	11.75	1.05	0.84	**0.01**	20.75	3.03	2.80	0.00
3.00	0.10	0.01	0.00	12.00	1.74	1.52	**0.04**	21.00	3.04	2.81	0.00
3.25	0.11	0.02	0.00	12.25	2.12	1.89	0.01	21.25	3.05	2.82	0.00
3.50	0.12	0.02	0.00	12.50	2.33	2.10	0.01	21.50	3.06	2.83	0.00
3.75	0.13	0.03	0.00	12.75	2.40	2.18	0.00	21.75	3.07	2.83	0.00
4.00	0.14	0.03	0.00	13.00	2.46	2.23	0.00	22.00	3.08	2.84	0.00
4.25	0.15	0.04	0.00	13.25	2.51	2.28	0.00	22.25	3.08	2.85	0.00
4.50	0.16	0.04	0.00	13.50	2.55	2.32	0.00	22.50	3.09	2.86	0.00
4.75	0.17	0.05	0.00	13.75	2.58	2.35	0.00	22.75	3.10	2.87	0.00
5.00	0.18	0.06	0.00	14.00	2.61	2.38	0.00	23.00	3.11	2.88	0.00
5.25	0.20	0.07	0.00	14.25	2.64	2.41	0.00	23.25	3.12	2.88	0.00
5.50	0.21	0.07	0.00	14.50	2.67	2.44	0.00	23.50	3.12	2.89	0.00
5.75	0.22	0.08	0.00	14.75	2.69	2.46	0.00	23.75	3.13	2.90	0.00
6.00	0.23	0.09	0.00	15.00	2.71	2.48	0.00	24.00	**3.14**	**2.91**	0.00
6.25	0.25	0.10	0.00	15.25	2.73	2.50	0.00				
6.50	0.26	0.11	0.00	15.50	2.75	2.52	0.00				
6.75	0.27	0.12	0.00	15.75	2.77	2.54	0.00				
7.00	0.29	0.13	0.00	16.00	2.79	2.56	0.00				
7.25	0.30	0.15	0.00	16.25	2.81	2.58	0.00				
7.50	0.32	0.16	0.00	16.50	2.82	2.59	0.00				
7.75	0.33	0.17	0.00	16.75	2.84	2.61	0.00				
8.00	0.35	0.19	0.00	17.00	2.85	2.62	0.00				
8.25	0.37	0.20	0.00	17.25	2.87	2.64	0.00				
8.50	0.39	0.22	0.00	17.50	2.88	2.65	0.00				
8.75	0.41	0.24	0.00	17.75	2.90	2.66	0.00				

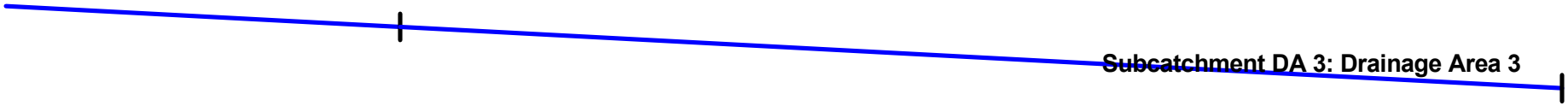
Summary for Subcatchment DA 3: Drainage Area 3

Runoff = 0.57 cfs @ 12.05 hrs, Volume= 0.035 af, Depth> 2.79"
Routed to Pond RCVR 3 : RCVR 3

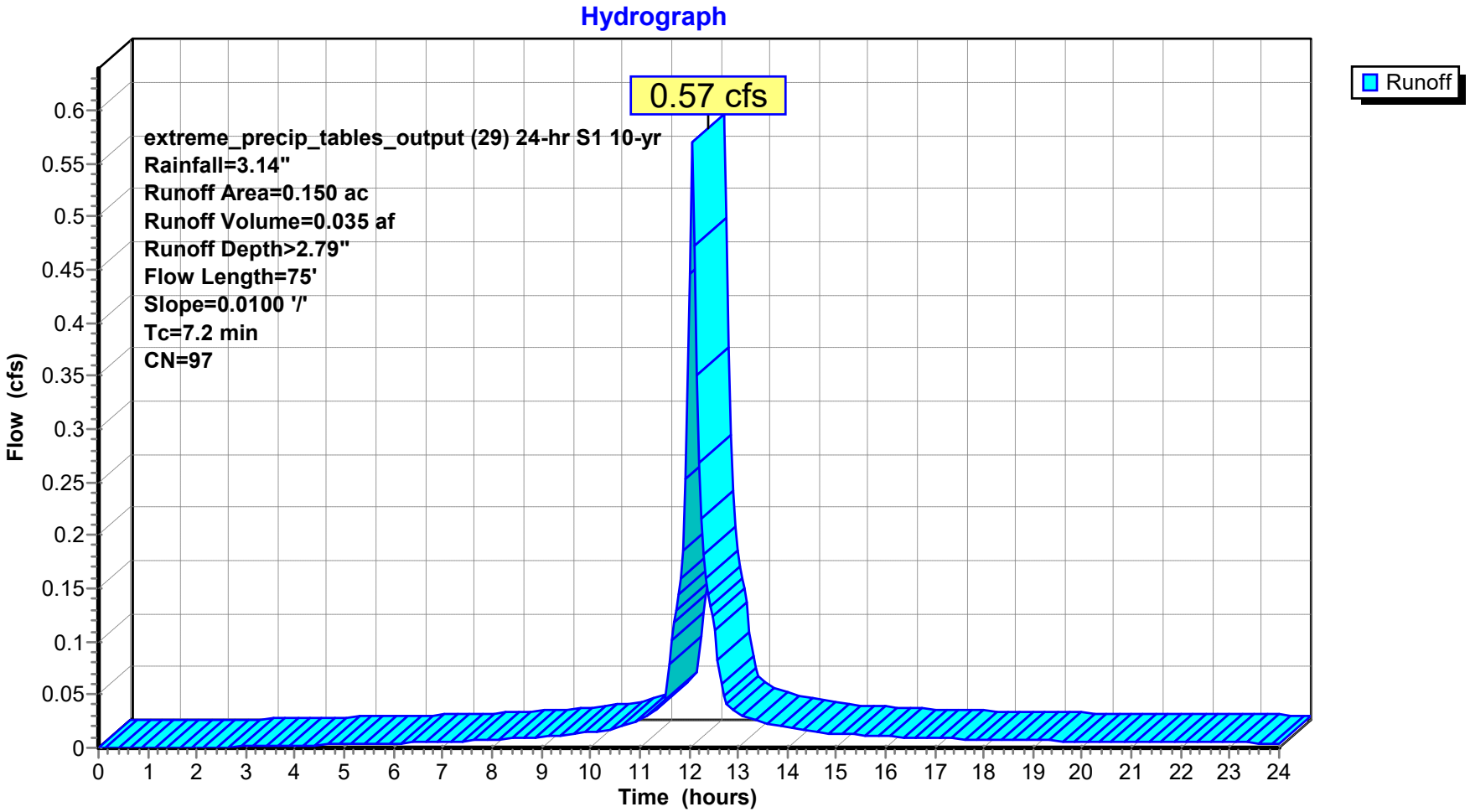
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 10-yr Rainfall=3.14"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.010	80	>75% Grass cover, Good, HSG D
0.150	97	Weighted Average
0.010		6.67% Pervious Area
0.140		93.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	19	0.0100	0.05		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"
1.2	56	0.0100	0.77		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"
7.2	75	Total			



Subcatchment DA 3: Drainage Area 3



Hydrograph for Subcatchment DA 3: Drainage Area 3

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.43	0.20	0.01	18.00	2.91	2.57	0.01
0.25	0.01	0.00	0.00	9.25	0.45	0.22	0.01	18.25	2.92	2.58	0.01
0.50	0.02	0.00	0.00	9.50	0.48	0.24	0.01	18.50	2.93	2.59	0.01
0.75	0.02	0.00	0.00	9.75	0.50	0.26	0.01	18.75	2.95	2.60	0.01
1.00	0.03	0.00	0.00	10.00	0.53	0.28	0.01	19.00	2.96	2.62	0.01
1.25	0.04	0.00	0.00	10.25	0.57	0.31	0.02	19.25	2.97	2.63	0.01
1.50	0.05	0.00	0.00	10.50	0.60	0.34	0.02	19.50	2.98	2.64	0.01
1.75	0.06	0.00	0.00	10.75	0.64	0.38	0.02	19.75	2.99	2.65	0.01
2.00	0.06	0.00	0.00	11.00	0.69	0.42	0.03	20.00	3.00	2.66	0.01
2.25	0.07	0.00	0.00	11.25	0.75	0.47	0.03	20.25	3.01	2.67	0.01
2.50	0.08	0.00	0.00	11.50	0.82	0.54	0.04	20.50	3.02	2.68	0.01
2.75	0.09	0.00	0.00	11.75	1.05	0.76	0.13	20.75	3.03	2.69	0.01
3.00	0.10	0.00	0.00	12.00	1.74	1.42	**0.45**	21.00	3.04	2.70	0.01
3.25	0.11	0.01	0.00	12.25	2.12	1.79	**0.21**	21.25	3.05	2.71	0.01
3.50	0.12	0.01	0.00	12.50	2.33	2.00	0.12	21.50	3.06	2.72	0.01
3.75	0.13	0.01	0.00	12.75	2.40	2.07	0.04	21.75	3.07	2.72	0.01
4.00	0.14	0.02	0.00	13.00	2.46	2.12	0.03	22.00	3.08	2.73	0.01
4.25	0.15	0.02	0.00	13.25	2.51	2.17	0.03	22.25	3.08	2.74	0.01
4.50	0.16	0.02	0.00	13.50	2.55	2.21	0.02	22.50	3.09	2.75	0.01
4.75	0.17	0.03	0.00	13.75	2.58	2.24	0.02	22.75	3.10	2.76	0.00
5.00	0.18	0.03	0.00	14.00	2.61	2.27	0.02	23.00	3.11	2.77	0.00
5.25	0.20	0.04	0.00	14.25	2.64	2.30	0.02	23.25	3.12	2.77	0.00
5.50	0.21	0.05	0.00	14.50	2.67	2.33	0.02	23.50	3.12	2.78	0.00
5.75	0.22	0.05	0.00	14.75	2.69	2.35	0.01	23.75	3.13	2.79	0.00
6.00	0.23	0.06	0.00	15.00	2.71	2.37	0.01	24.00	**3.14**	**2.80**	0.00
6.25	0.25	0.07	0.00	15.25	2.73	2.39	0.01				
6.50	0.26	0.08	0.01	15.50	2.75	2.41	0.01				
6.75	0.27	0.09	0.01	15.75	2.77	2.43	0.01				
7.00	0.29	0.10	0.01	16.00	2.79	2.45	0.01				
7.25	0.30	0.11	0.01	16.25	2.81	2.47	0.01				
7.50	0.32	0.12	0.01	16.50	2.82	2.48	0.01				
7.75	0.33	0.13	0.01	16.75	2.84	2.50	0.01				
8.00	0.35	0.14	0.01	17.00	2.85	2.51	0.01				
8.25	0.37	0.15	0.01	17.25	2.87	2.53	0.01				
8.50	0.39	0.17	0.01	17.50	2.88	2.54	0.01				
8.75	0.41	0.18	0.01	17.75	2.90	2.56	0.01				

Summary for Subcatchment DA 4: Drainage Area 4

Runoff = 0.31 cfs @ 12.04 hrs, Volume= 0.018 af, Depth> 2.69"
Routed to Pond RCVR 4 : RCVR 4

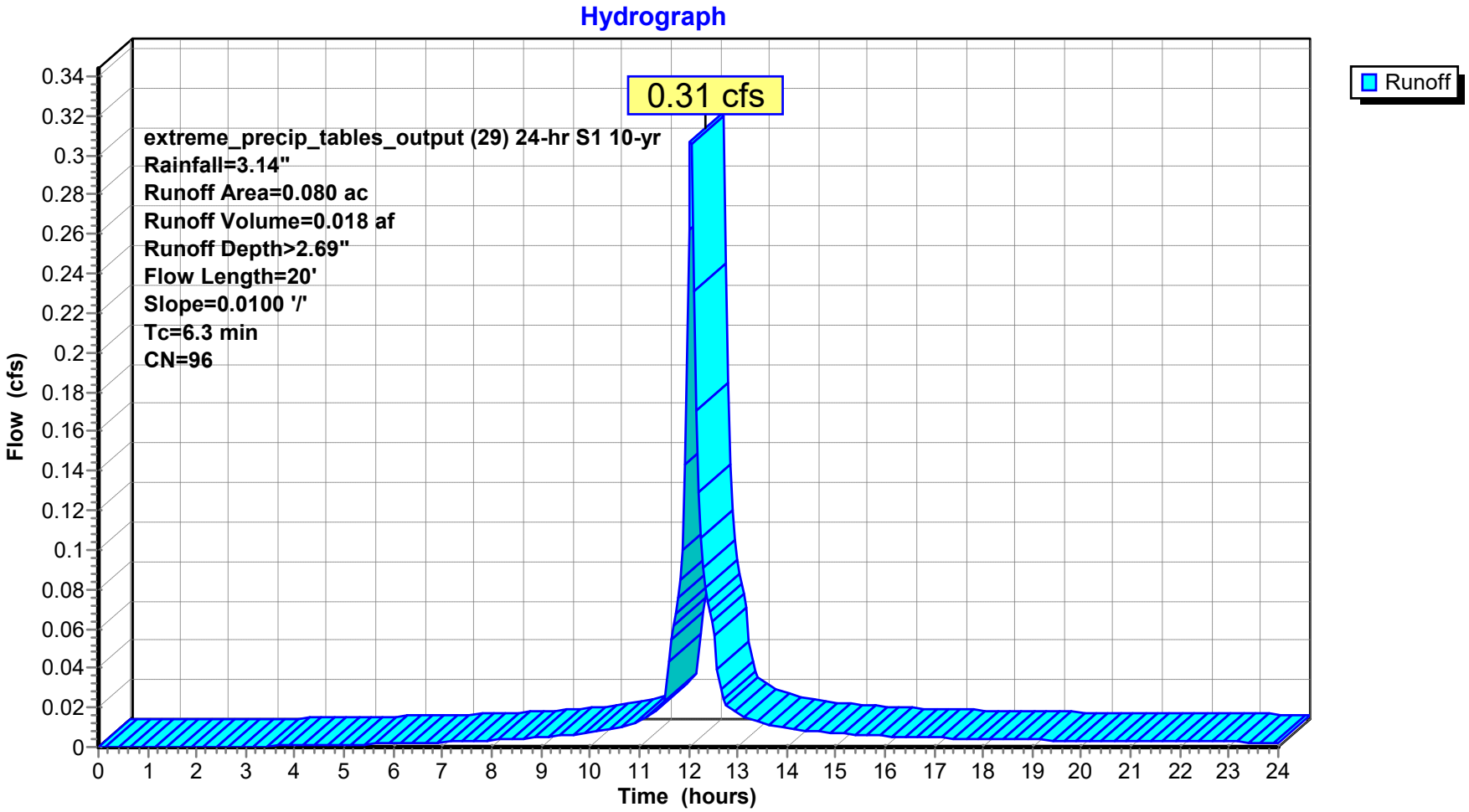
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 10-yr Rainfall=3.14"

Area (ac)	CN	Description
0.070	98	Paved parking, HSG D
0.010	80	>75% Grass cover, Good, HSG D
0.080	96	Weighted Average
0.010		12.50% Pervious Area
0.070		87.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	20	0.0100	0.05		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment DA 4: Drainage Area 4



Hydrograph for Subcatchment DA 4: Drainage Area 4

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.43	0.16	0.00	18.00	2.91	2.46	0.00
0.25	0.01	0.00	0.00	9.25	0.45	0.17	0.01	18.25	2.92	2.47	0.00
0.50	0.02	0.00	0.00	9.50	0.48	0.19	0.01	18.50	2.93	2.49	0.00
0.75	0.02	0.00	0.00	9.75	0.50	0.21	0.01	18.75	2.95	2.50	0.00
1.00	0.03	0.00	0.00	10.00	0.53	0.23	0.01	19.00	2.96	2.51	0.00
1.25	0.04	0.00	0.00	10.25	0.57	0.26	0.01	19.25	2.97	2.52	0.00
1.50	0.05	0.00	0.00	10.50	0.60	0.29	0.01	19.50	2.98	2.53	0.00
1.75	0.06	0.00	0.00	10.75	0.64	0.32	0.01	19.75	2.99	2.54	0.00
2.00	0.06	0.00	0.00	11.00	0.69	0.36	0.01	20.00	3.00	2.55	0.00
2.25	0.07	0.00	0.00	11.25	0.75	0.41	0.02	20.25	3.01	2.56	0.00
2.50	0.08	0.00	0.00	11.50	0.82	0.47	0.02	20.50	3.02	2.57	0.00
2.75	0.09	0.00	0.00	11.75	1.05	0.68	0.07	20.75	3.03	2.58	0.00
3.00	0.10	0.00	0.00	12.00	1.74	1.33	**0.26**	21.00	3.04	2.59	0.00
3.25	0.11	0.00	0.00	12.25	2.12	1.69	**0.11**	21.25	3.05	2.60	0.00
3.50	0.12	0.00	0.00	12.50	2.33	1.90	0.06	21.50	3.06	2.61	0.00
3.75	0.13	0.00	0.00	12.75	2.40	1.97	0.02	21.75	3.07	2.62	0.00
4.00	0.14	0.01	0.00	13.00	2.46	2.02	0.02	22.00	3.08	2.63	0.00
4.25	0.15	0.01	0.00	13.25	2.51	2.07	0.01	22.25	3.08	2.63	0.00
4.50	0.16	0.01	0.00	13.50	2.55	2.11	0.01	22.50	3.09	2.64	0.00
4.75	0.17	0.02	0.00	13.75	2.58	2.14	0.01	22.75	3.10	2.65	0.00
5.00	0.18	0.02	0.00	14.00	2.61	2.17	0.01	23.00	3.11	2.66	0.00
5.25	0.20	0.02	0.00	14.25	2.64	2.20	0.01	23.25	3.12	2.67	0.00
5.50	0.21	0.03	0.00	14.50	2.67	2.22	0.01	23.50	3.12	2.67	0.00
5.75	0.22	0.03	0.00	14.75	2.69	2.25	0.01	23.75	3.13	2.68	0.00
6.00	0.23	0.04	0.00	15.00	2.71	2.27	0.01	24.00	**3.14**	**2.69**	0.00
6.25	0.25	0.05	0.00	15.25	2.73	2.29	0.01				
6.50	0.26	0.05	0.00	15.50	2.75	2.31	0.01				
6.75	0.27	0.06	0.00	15.75	2.77	2.33	0.01				
7.00	0.29	0.07	0.00	16.00	2.79	2.35	0.01				
7.25	0.30	0.08	0.00	16.25	2.81	2.36	0.01				
7.50	0.32	0.08	0.00	16.50	2.82	2.38	0.01				
7.75	0.33	0.09	0.00	16.75	2.84	2.39	0.00				
8.00	0.35	0.11	0.00	17.00	2.85	2.41	0.00				
8.25	0.37	0.12	0.00	17.25	2.87	2.42	0.00				
8.50	0.39	0.13	0.00	17.50	2.88	2.44	0.00				
8.75	0.41	0.14	0.00	17.75	2.90	2.45	0.00				

Summary for Subcatchment DA 5: Drainage Area 5

Runoff = 0.24 cfs @ 11.98 hrs, Volume= 0.012 af, Depth> 2.91"
Routed to Pond RCVR 5 : RCVR 5

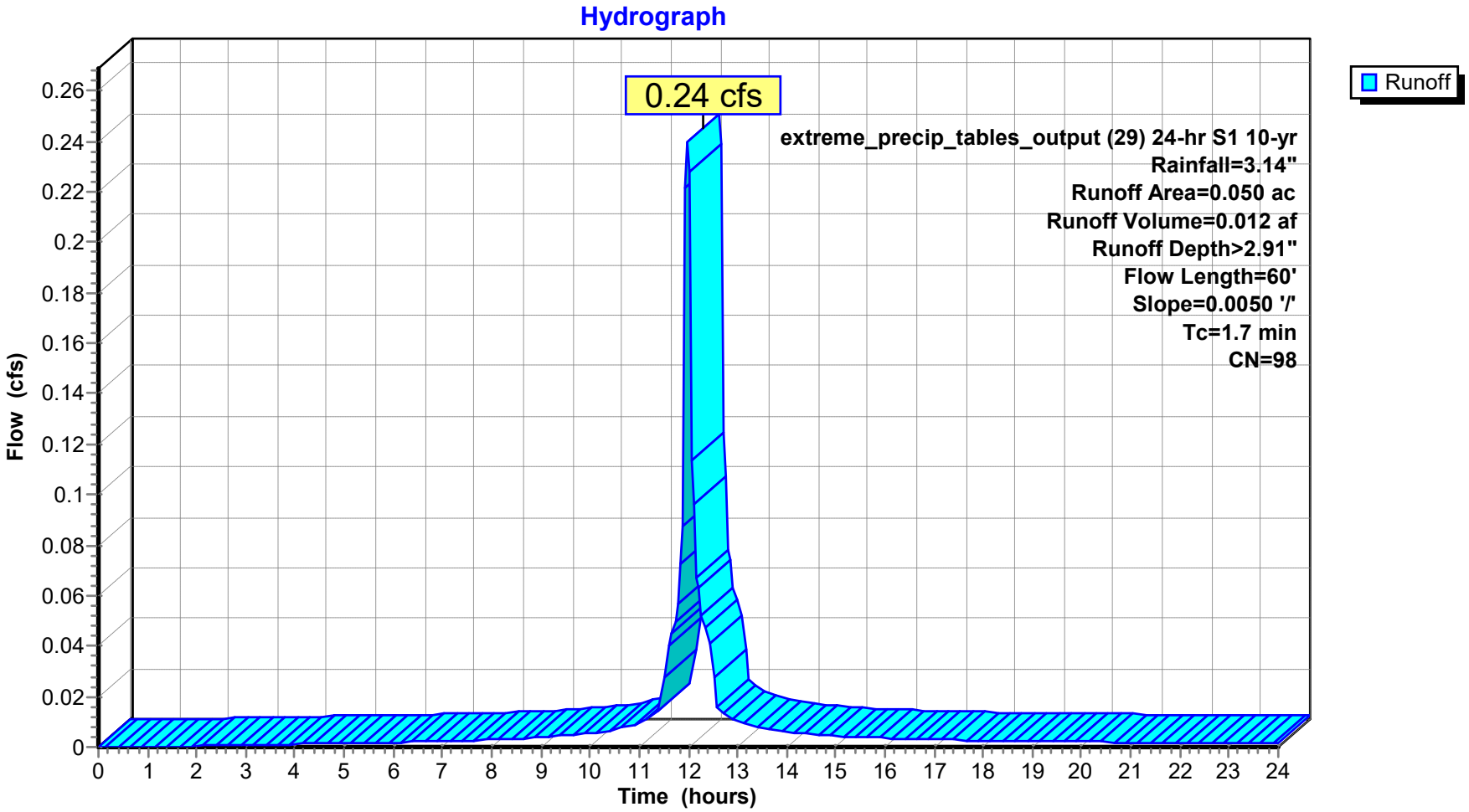
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 10-yr Rainfall=3.14"

Area (ac)	CN	Description
0.050	98	Paved parking, HSG D
0.050		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	60	0.0050	0.59		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"



Subcatchment DA 5: Drainage Area 5



Hydrograph for Subcatchment DA 5: Drainage Area 5

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.43	0.26	0.00	18.00	2.91	2.68	0.00
0.25	0.01	0.00	0.00	9.25	0.45	0.28	0.00	18.25	2.92	2.69	0.00
0.50	0.02	0.00	0.00	9.50	0.48	0.30	0.00	18.50	2.93	2.70	0.00
0.75	0.02	0.00	0.00	9.75	0.50	0.32	0.01	18.75	2.95	2.71	0.00
1.00	0.03	0.00	0.00	10.00	0.53	0.35	0.01	19.00	2.96	2.73	0.00
1.25	0.04	0.00	0.00	10.25	0.57	0.38	0.01	19.25	2.97	2.74	0.00
1.50	0.05	0.00	0.00	10.50	0.60	0.41	0.01	19.50	2.98	2.75	0.00
1.75	0.06	0.00	0.00	10.75	0.64	0.45	0.01	19.75	2.99	2.76	0.00
2.00	0.06	0.00	0.00	11.00	0.69	0.49	0.01	20.00	3.00	2.77	0.00
2.25	0.07	0.00	0.00	11.25	0.75	0.55	0.01	20.25	3.01	2.78	0.00
2.50	0.08	0.01	0.00	11.50	0.82	0.62	0.02	20.50	3.02	2.79	0.00
2.75	0.09	0.01	0.00	11.75	1.05	0.84	0.05	20.75	3.03	2.80	0.00
3.00	0.10	0.01	0.00	12.00	1.74	1.52	**0.23**	21.00	3.04	2.81	0.00
3.25	0.11	0.02	0.00	12.25	2.12	1.89	0.05	21.25	3.05	2.82	0.00
3.50	0.12	0.02	0.00	12.50	2.33	2.10	0.04	21.50	3.06	2.83	0.00
3.75	0.13	0.03	0.00	12.75	2.40	2.18	0.01	21.75	3.07	2.83	0.00
4.00	0.14	0.03	0.00	13.00	2.46	2.23	0.01	22.00	3.08	2.84	0.00
4.25	0.15	0.04	0.00	13.25	2.51	2.28	0.01	22.25	3.08	2.85	0.00
4.50	0.16	0.04	0.00	13.50	2.55	2.32	0.01	22.50	3.09	2.86	0.00
4.75	0.17	0.05	0.00	13.75	2.58	2.35	0.01	22.75	3.10	2.87	0.00
5.00	0.18	0.06	0.00	14.00	2.61	2.38	0.01	23.00	3.11	2.88	0.00
5.25	0.20	0.07	0.00	14.25	2.64	2.41	0.01	23.25	3.12	2.88	0.00
5.50	0.21	0.07	0.00	14.50	2.67	2.44	0.01	23.50	3.12	2.89	0.00
5.75	0.22	0.08	0.00	14.75	2.69	2.46	0.00	23.75	3.13	2.90	0.00
6.00	0.23	0.09	0.00	15.00	2.71	2.48	0.00	24.00	**3.14**	**2.91**	0.00
6.25	0.25	0.10	0.00	15.25	2.73	2.50	0.00				
6.50	0.26	0.11	0.00	15.50	2.75	2.52	0.00				
6.75	0.27	0.12	0.00	15.75	2.77	2.54	0.00				
7.00	0.29	0.13	0.00	16.00	2.79	2.56	0.00				
7.25	0.30	0.15	0.00	16.25	2.81	2.58	0.00				
7.50	0.32	0.16	0.00	16.50	2.82	2.59	0.00				
7.75	0.33	0.17	0.00	16.75	2.84	2.61	0.00				
8.00	0.35	0.19	0.00	17.00	2.85	2.62	0.00				
8.25	0.37	0.20	0.00	17.25	2.87	2.64	0.00				
8.50	0.39	0.22	0.00	17.50	2.88	2.65	0.00				
8.75	0.41	0.24	0.00	17.75	2.90	2.66	0.00				

Summary for Subcatchment DA 6: Drainage Area 6

Runoff = 0.31 cfs @ 12.16 hrs, Volume= 0.023 af, Depth> 1.86"
Routed to Pond SWALE : SWALE

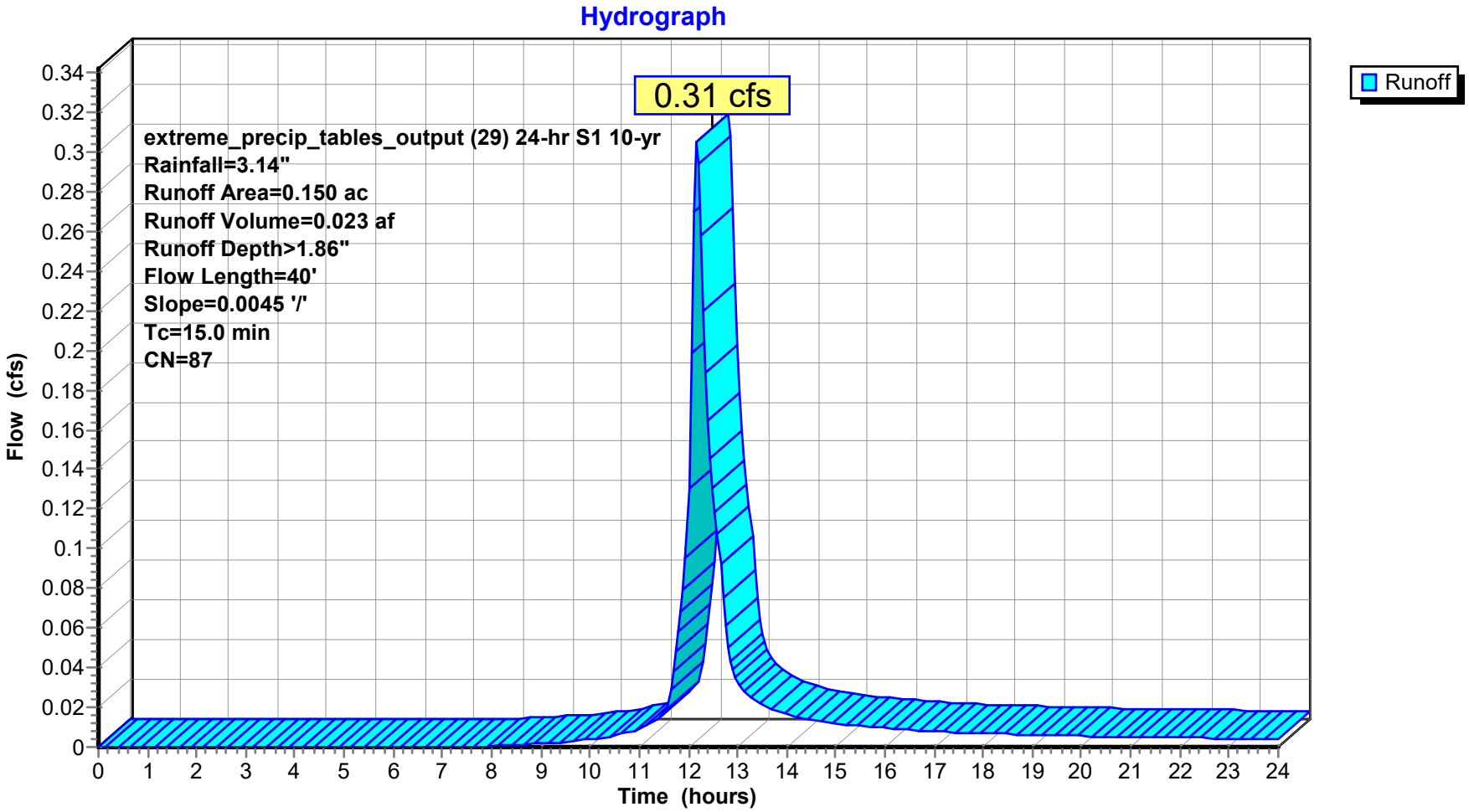
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 10-yr Rainfall=3.14"

Area (ac)	CN	Description
0.060	98	Paved parking, HSG D
0.090	80	>75% Grass cover, Good, HSG D
0.150	87	Weighted Average
0.090		60.00% Pervious Area
0.060		40.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0	40	0.0045	0.04		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment DA 6: Drainage Area 6



Hydrograph for Subcatchment DA 6: Drainage Area 6

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.43	0.01	0.00	18.00	2.91	1.66	0.01
0.25	0.01	0.00	0.00	9.25	0.45	0.01	0.00	18.25	2.92	1.67	0.01
0.50	0.02	0.00	0.00	9.50	0.48	0.02	0.00	18.50	2.93	1.68	0.01
0.75	0.02	0.00	0.00	9.75	0.50	0.02	0.00	18.75	2.95	1.69	0.01
1.00	0.03	0.00	0.00	10.00	0.53	0.03	0.00	19.00	2.96	1.70	0.01
1.25	0.04	0.00	0.00	10.25	0.57	0.04	0.00	19.25	2.97	1.71	0.01
1.50	0.05	0.00	0.00	10.50	0.60	0.05	0.01	19.50	2.98	1.72	0.01
1.75	0.06	0.00	0.00	10.75	0.64	0.06	0.01	19.75	2.99	1.73	0.01
2.00	0.06	0.00	0.00	11.00	0.69	0.08	0.01	20.00	3.00	1.74	0.01
2.25	0.07	0.00	0.00	11.25	0.75	0.10	0.01	20.25	3.01	1.75	0.01
2.50	0.08	0.00	0.00	11.50	0.82	0.14	0.02	20.50	3.02	1.76	0.01
2.75	0.09	0.00	0.00	11.75	1.05	0.25	0.05	20.75	3.03	1.77	0.01
3.00	0.10	0.00	0.00	12.00	1.74	0.71	**0.13**	21.00	3.04	1.77	0.01
3.25	0.11	0.00	0.00	12.25	2.12	1.00	**0.26**	21.25	3.05	1.78	0.00
3.50	0.12	0.00	0.00	12.50	2.33	1.17	0.13	21.50	3.06	1.79	0.00
3.75	0.13	0.00	0.00	12.75	2.40	1.23	0.06	21.75	3.07	1.80	0.00
4.00	0.14	0.00	0.00	13.00	2.46	1.28	0.03	22.00	3.08	1.81	0.00
4.25	0.15	0.00	0.00	13.25	2.51	1.32	0.03	22.25	3.08	1.81	0.00
4.50	0.16	0.00	0.00	13.50	2.55	1.35	0.02	22.50	3.09	1.82	0.00
4.75	0.17	0.00	0.00	13.75	2.58	1.38	0.02	22.75	3.10	1.83	0.00
5.00	0.18	0.00	0.00	14.00	2.61	1.40	0.02	23.00	3.11	1.83	0.00
5.25	0.20	0.00	0.00	14.25	2.64	1.43	0.02	23.25	3.12	1.84	0.00
5.50	0.21	0.00	0.00	14.50	2.67	1.45	0.01	23.50	3.12	1.85	0.00
5.75	0.22	0.00	0.00	14.75	2.69	1.47	0.01	23.75	3.13	1.86	0.00
6.00	0.23	0.00	0.00	15.00	2.71	1.49	0.01	24.00	**3.14**	**1.86**	0.00
6.25	0.25	0.00	0.00	15.25	2.73	1.51	0.01				
6.50	0.26	0.00	0.00	15.50	2.75	1.53	0.01				
6.75	0.27	0.00	0.00	15.75	2.77	1.54	0.01				
7.00	0.29	0.00	0.00	16.00	2.79	1.56	0.01				
7.25	0.30	0.00	0.00	16.25	2.81	1.57	0.01				
7.50	0.32	0.00	0.00	16.50	2.82	1.59	0.01				
7.75	0.33	0.00	0.00	16.75	2.84	1.60	0.01				
8.00	0.35	0.00	0.00	17.00	2.85	1.61	0.01				
8.25	0.37	0.00	0.00	17.25	2.87	1.62	0.01				
8.50	0.39	0.01	0.00	17.50	2.88	1.64	0.01				
8.75	0.41	0.01	0.00	17.75	2.90	1.65	0.01				

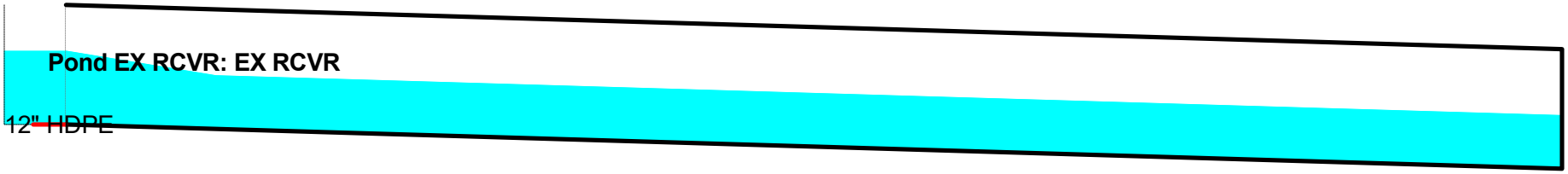
Summary for Pond EX RCVR: EX RCVR

Inflow Area = 0.500 ac, 78.00% Impervious, Inflow Depth > 2.26" for 10-yr event
Inflow = 0.87 cfs @ 12.06 hrs, Volume= 0.094 af
Outflow = 0.87 cfs @ 12.06 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min
Primary = 0.87 cfs @ 12.06 hrs, Volume= 0.094 af
Routed to Link POST : Post Development

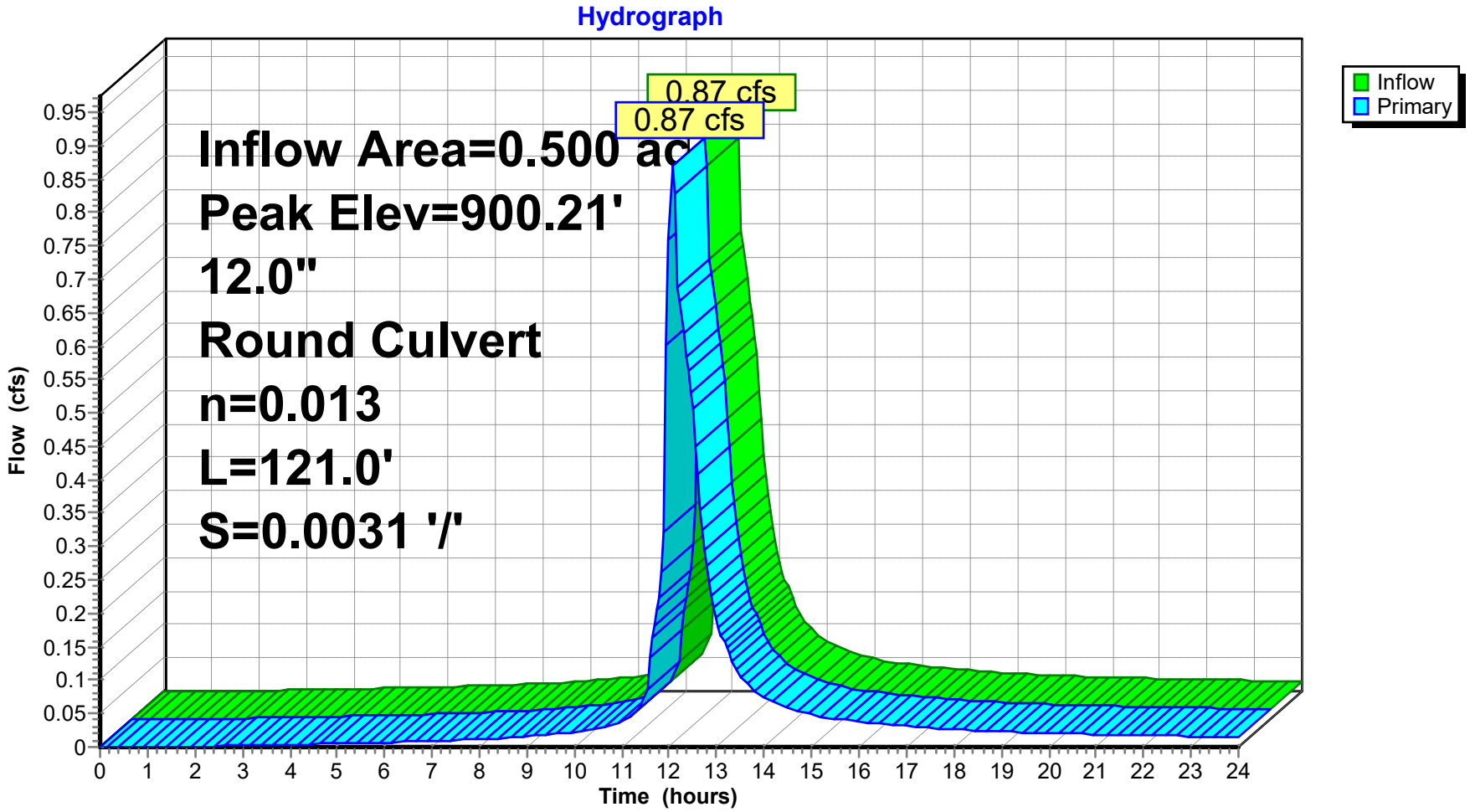
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 900.21' @ 12.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	899.60'	**12.0" Round 12" HDPE** L= 121.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 899.60' / 899.23' S= 0.0031 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

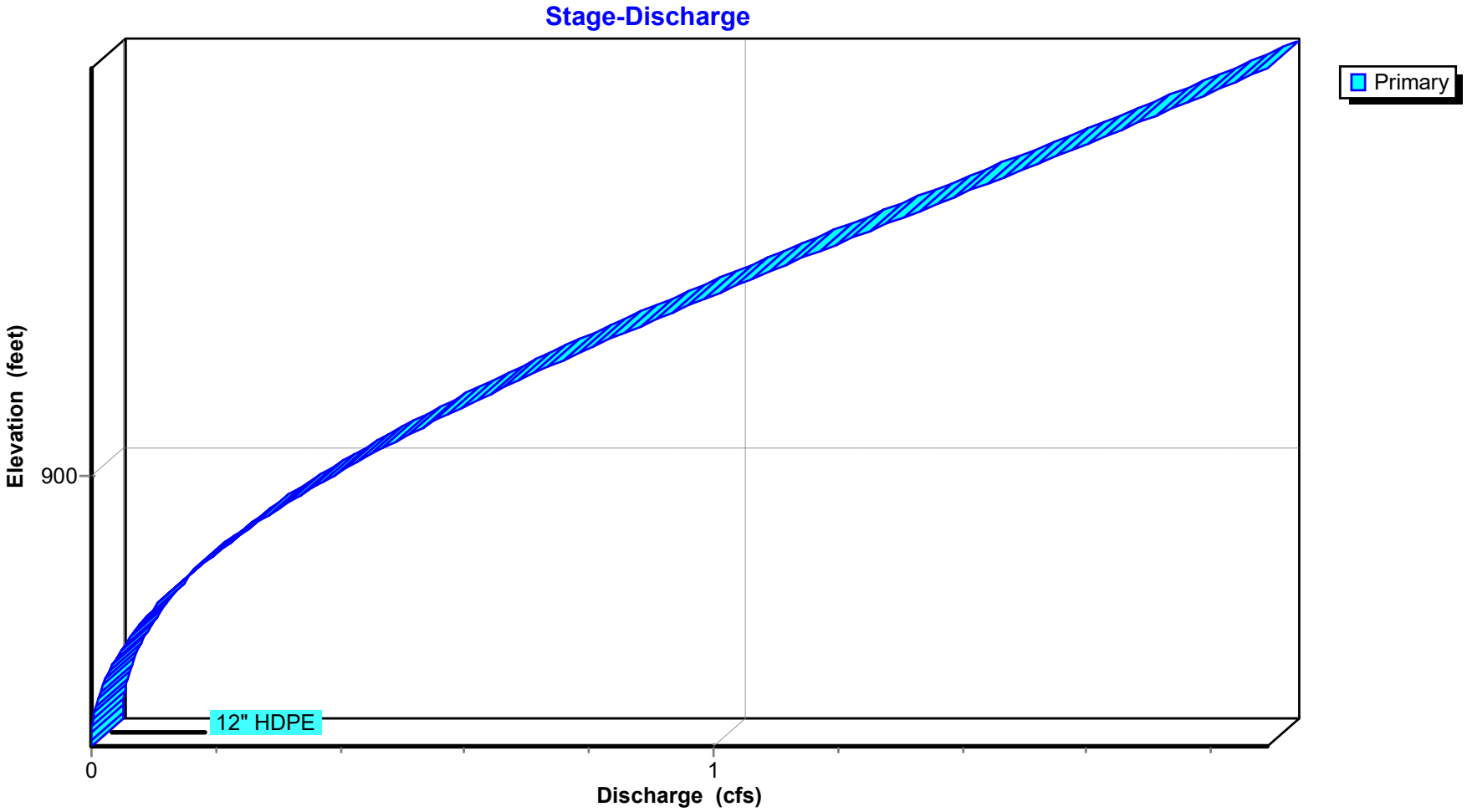
Primary OutFlow Max=0.86 cfs @ 12.06 hrs HW=900.21' TW=0.00' (Dynamic Tailwater)
└**1=12" HDPE** (Barrel Controls 0.86 cfs @ 2.45 fps)



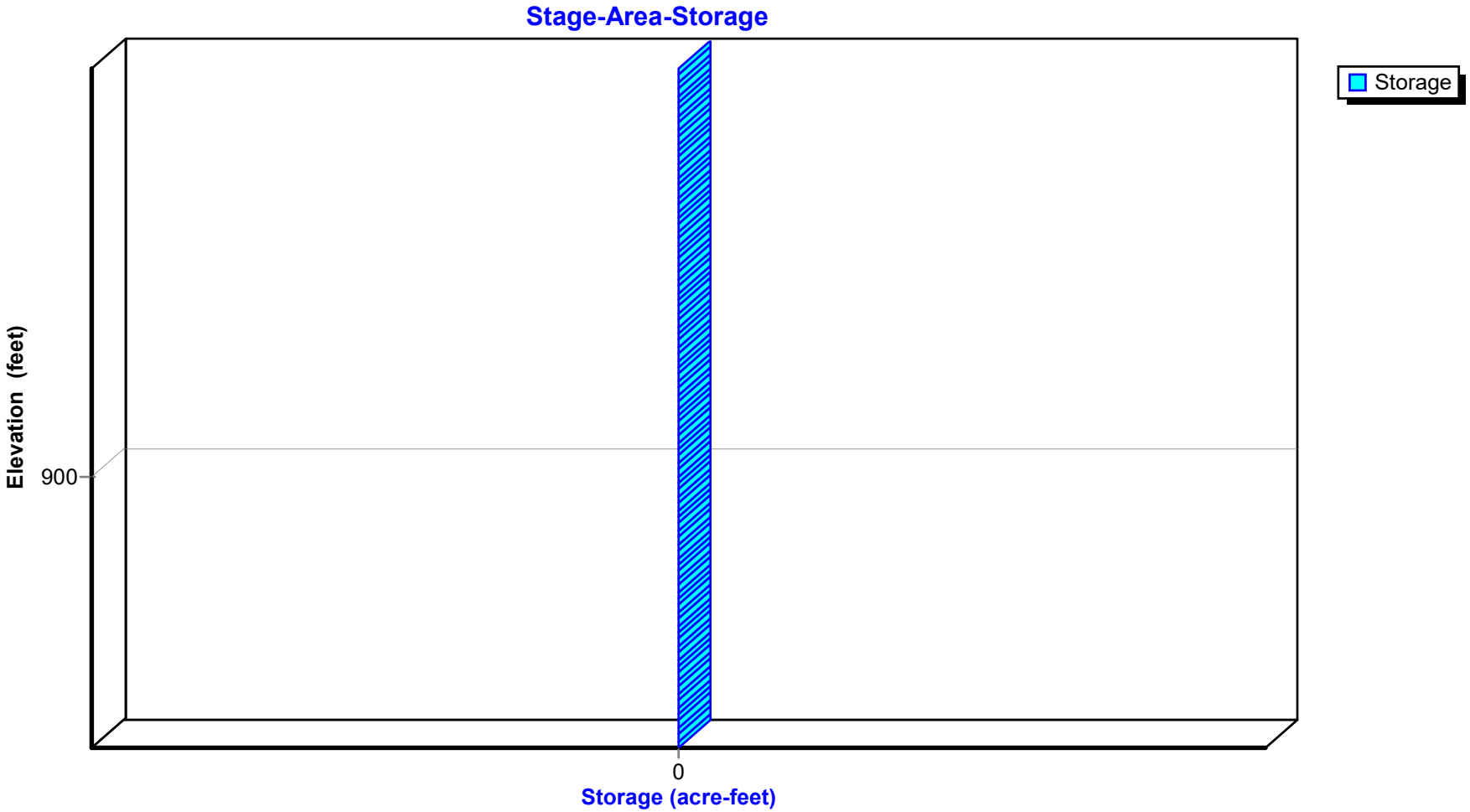
Pond EX RCVR: EX RCVR



Pond EX RCVR: EX RCVR



Pond EX RCVR: EX RCVR



Hydrograph for Pond EX RCVR: EX RCVR

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	899.60	0.00	9.00	0.02	899.68	0.02	18.00	0.03	899.71	0.03
0.25	0.00	899.60	0.00	9.25	0.02	899.69	0.02	18.25	0.03	899.71	0.03
0.50	0.00	899.60	0.00	9.50	0.02	899.69	0.02	18.50	0.02	899.70	0.02
0.75	0.00	899.60	0.00	9.75	0.02	899.69	0.02	18.75	0.02	899.70	0.02
1.00	0.00	899.60	0.00	10.00	0.02	899.70	0.02	19.00	0.02	899.70	0.02
1.25	0.00	899.60	0.00	10.25	0.03	899.71	0.03	19.25	0.02	899.70	0.02
1.50	0.00	899.61	0.00	10.50	0.03	899.71	0.03	19.50	0.02	899.70	0.02
1.75	0.00	899.61	0.00	10.75	0.03	899.72	0.03	19.75	0.02	899.70	0.02
2.00	0.00	899.62	0.00	11.00	0.04	899.73	0.04	20.00	0.02	899.70	0.02
2.25	0.00	899.62	0.00	11.25	0.05	899.74	0.05	20.25	0.02	899.70	0.02
2.50	0.00	899.63	0.00	11.50	0.07	899.77	0.07	20.50	0.02	899.69	0.02
2.75	0.00	899.63	0.00	11.75	0.20	899.89	0.20	20.75	0.02	899.69	0.02
3.00	0.00	899.63	0.00	12.00	**0.76**	**900.17**	**0.76**	21.00	0.02	899.69	0.02
3.25	0.00	899.64	0.00	12.25	**0.64**	**900.12**	**0.64**	21.25	0.02	899.69	0.02
3.50	0.00	899.64	0.00	12.50	0.51	900.06	0.51	21.50	0.02	899.69	0.02
3.75	0.00	899.64	0.00	12.75	0.30	899.95	0.30	21.75	0.02	899.69	0.02
4.00	0.00	899.64	0.00	13.00	0.19	899.88	0.19	22.00	0.02	899.69	0.02
4.25	0.00	899.65	0.00	13.25	0.14	899.84	0.14	22.25	0.02	899.69	0.02
4.50	0.00	899.65	0.00	13.50	0.11	899.81	0.11	22.50	0.02	899.69	0.02
4.75	0.00	899.65	0.00	13.75	0.09	899.79	0.09	22.75	0.02	899.69	0.02
5.00	0.01	899.65	0.01	14.00	0.07	899.78	0.07	23.00	0.02	899.69	0.02
5.25	0.01	899.65	0.01	14.25	0.07	899.77	0.07	23.25	0.02	899.68	0.02
5.50	0.01	899.65	0.01	14.50	0.06	899.76	0.06	23.50	0.02	899.68	0.02
5.75	0.01	899.66	0.01	14.75	0.05	899.75	0.05	23.75	0.02	899.68	0.02
6.00	0.01	899.66	0.01	15.00	0.05	899.74	0.05	24.00	0.01	899.68	0.01
6.25	0.01	899.66	0.01	15.25	0.05	899.74	0.05				
6.50	0.01	899.66	0.01	15.50	0.04	899.73	0.04				
6.75	0.01	899.66	0.01	15.75	0.04	899.73	0.04				
7.00	0.01	899.67	0.01	16.00	0.04	899.73	0.04				
7.25	0.01	899.67	0.01	16.25	0.04	899.72	0.04				
7.50	0.01	899.67	0.01	16.50	0.03	899.72	0.03				
7.75	0.01	899.67	0.01	16.75	0.03	899.72	0.03				
8.00	0.01	899.67	0.01	17.00	0.03	899.72	0.03				
8.25	0.01	899.68	0.01	17.25	0.03	899.71	0.03				
8.50	0.01	899.68	0.01	17.50	0.03	899.71	0.03				
8.75	0.01	899.68	0.01	17.75	0.03	899.71	0.03				

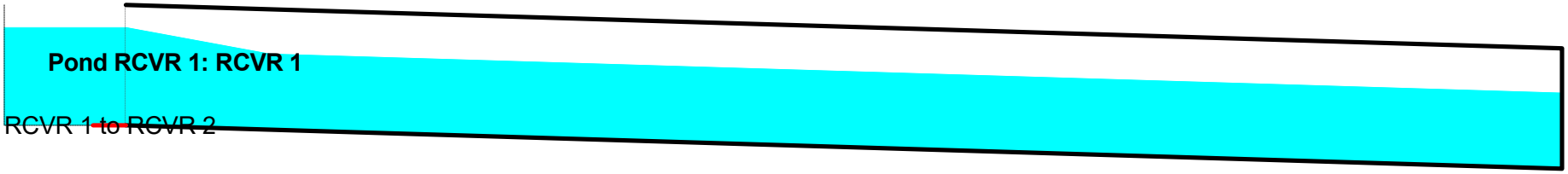
Summary for Pond RCVR 1: RCVR 1

Inflow Area = 0.340 ac, 70.59% Impervious, Inflow Depth > 2.01" for 10-yr event
Inflow = 0.43 cfs @ 12.30 hrs, Volume= 0.057 af
Outflow = 0.43 cfs @ 12.30 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
Primary = 0.43 cfs @ 12.30 hrs, Volume= 0.057 af
Routed to Pond RCVR 2 : RCVR 2

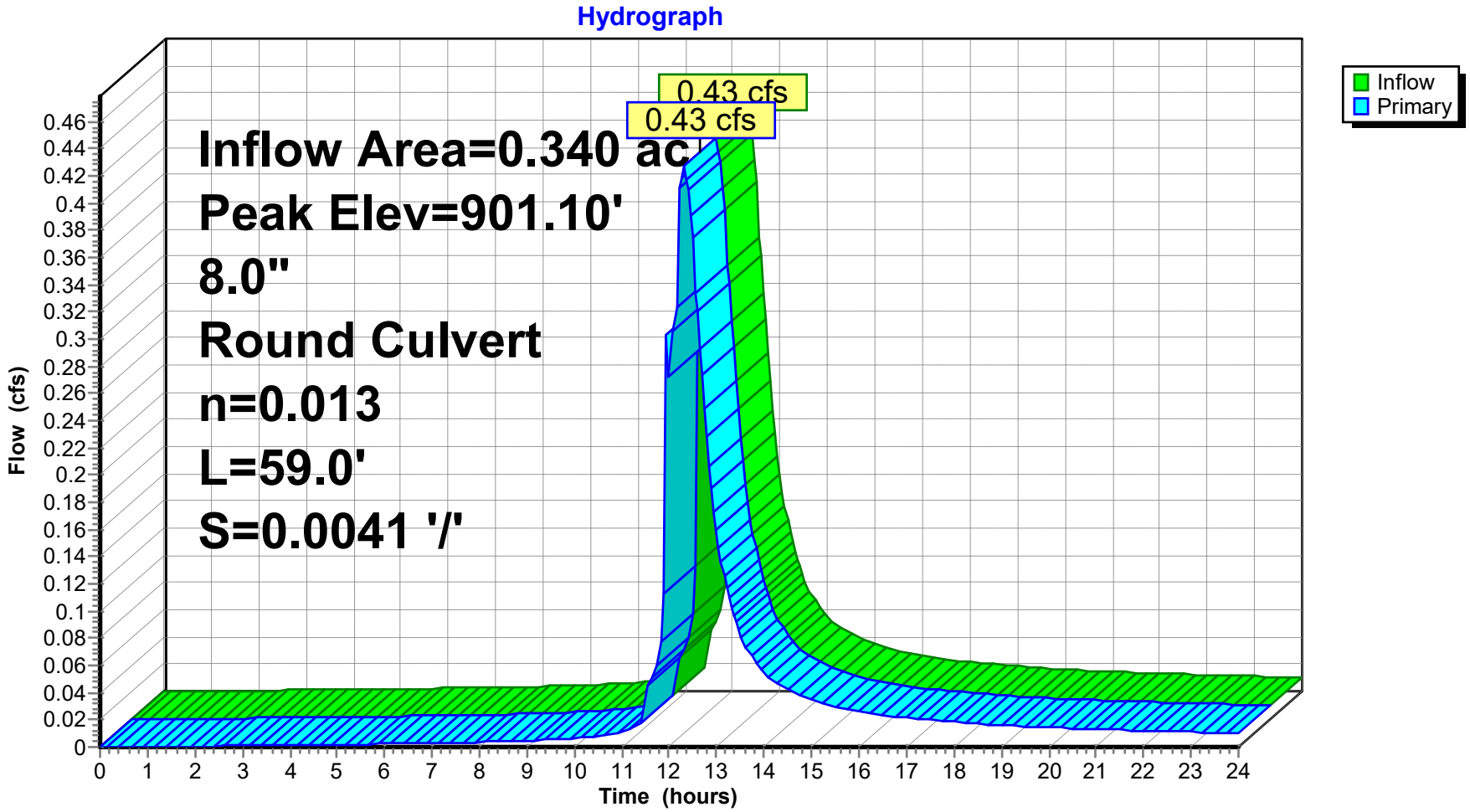
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.10' @ 12.22 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	900.56'	**8.0" Round RCVR 1 to RCVR 2** L= 59.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 900.56' / 900.32' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

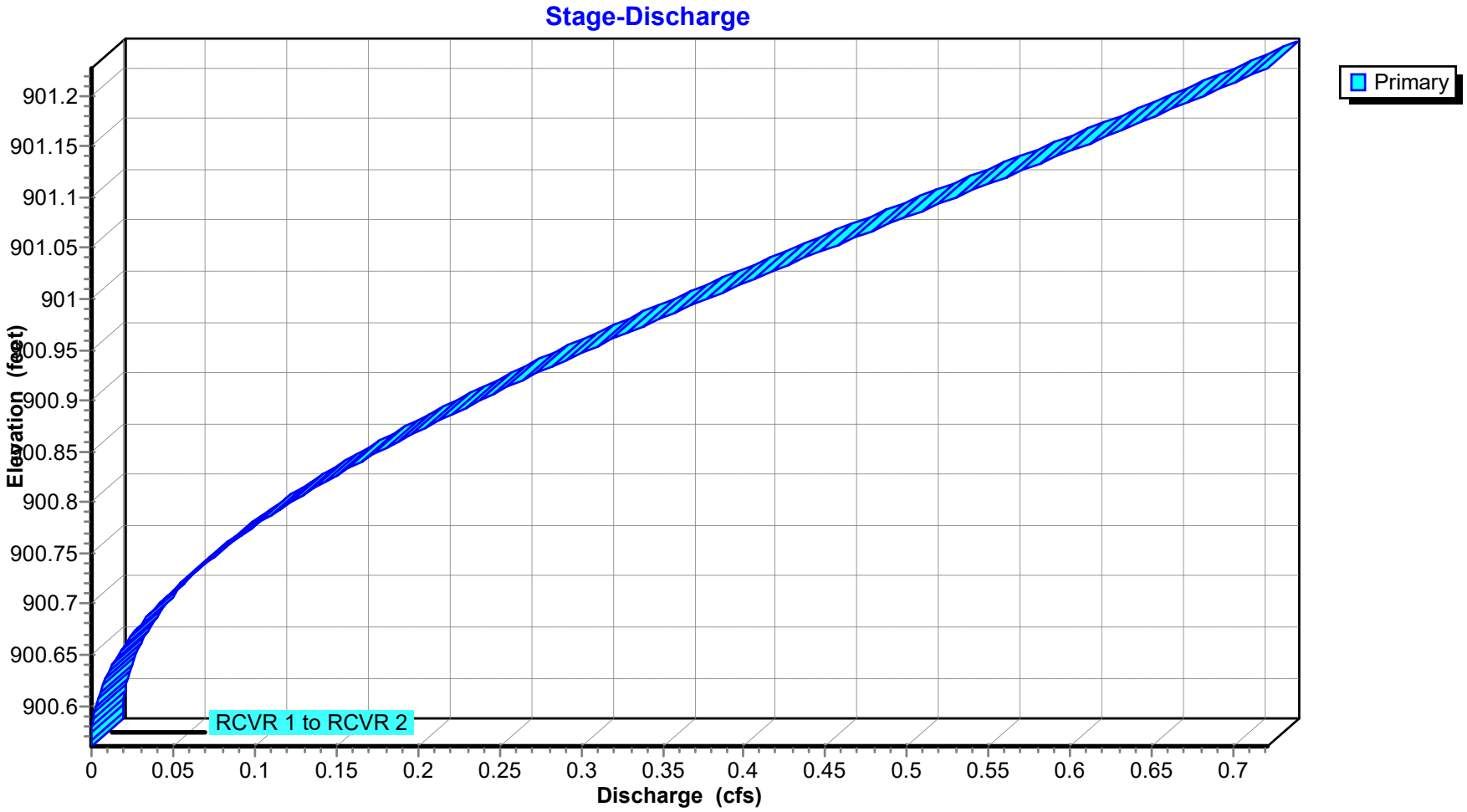
Primary OutFlow Max=0.44 cfs @ 12.30 hrs HW=901.09' TW=900.83' (Dynamic Tailwater)
1=RCVR 1 to RCVR 2 (Outlet Controls 0.44 cfs @ 2.01 fps)



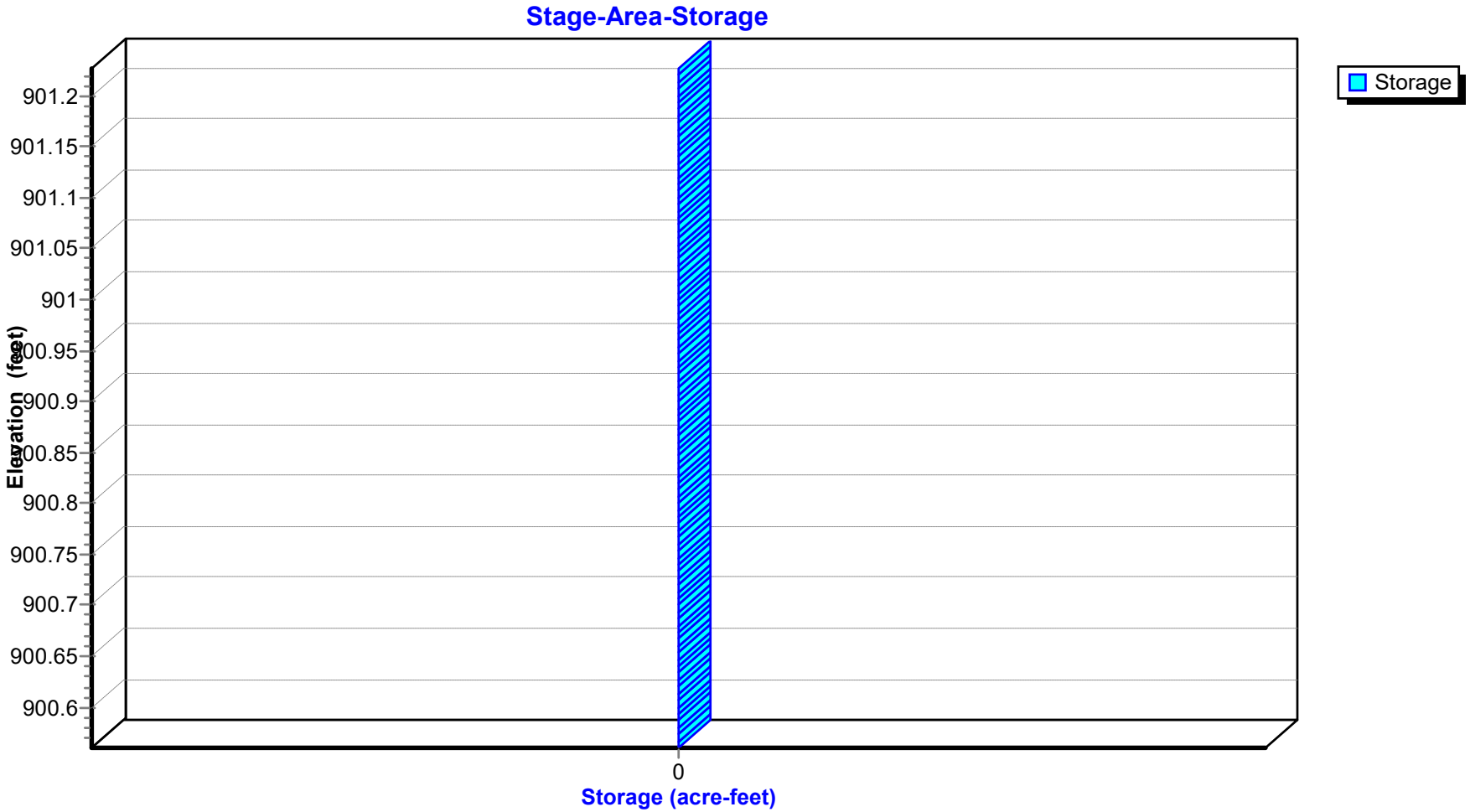
Pond RCVR 1: RCVR 1



Pond RCVR 1: RCVR 1



Pond RCVR 1: RCVR 1



Hydrograph for Pond RCVR 1: RCVR 1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	900.56	0.00	9.00	0.00	900.61	0.00	18.00	0.02	900.66	0.02
0.25	0.00	900.56	0.00	9.25	0.01	900.61	0.01	18.25	0.02	900.65	0.02
0.50	0.00	900.56	0.00	9.50	0.01	900.62	0.01	18.50	0.02	900.65	0.02
0.75	0.00	900.56	0.00	9.75	0.01	900.62	0.01	18.75	0.02	900.65	0.02
1.00	0.00	900.56	0.00	10.00	0.01	900.62	0.01	19.00	0.02	900.65	0.02
1.25	0.00	900.56	0.00	10.25	0.01	900.62	0.01	19.25	0.02	900.65	0.02
1.50	0.00	900.57	0.00	10.50	0.01	900.63	0.01	19.50	0.02	900.65	0.02
1.75	0.00	900.57	0.00	10.75	0.01	900.63	0.01	19.75	0.01	900.65	0.01
2.00	0.00	900.58	0.00	11.00	0.01	900.64	0.01	20.00	0.01	900.65	0.01
2.25	0.00	900.58	0.00	11.25	0.01	900.65	0.01	20.25	0.01	900.64	0.01
2.50	0.00	900.58	0.00	11.50	0.02	900.67	0.02	20.50	0.01	900.64	0.01
2.75	0.00	900.58	0.00	11.75	0.06	900.75	0.06	20.75	0.01	900.64	0.01
3.00	0.00	900.58	0.00	12.00	0.27	**900.99**	0.27	21.00	0.01	900.64	0.01
3.25	0.00	900.58	0.00	12.25	**0.42**	**901.10**	**0.42**	21.25	0.01	900.64	0.01
3.50	0.00	900.59	0.00	12.50	**0.37**	901.04	**0.37**	21.50	0.01	900.64	0.01
3.75	0.00	900.59	0.00	12.75	0.25	900.93	0.25	21.75	0.01	900.64	0.01
4.00	0.00	900.59	0.00	13.00	0.16	900.85	0.16	22.00	0.01	900.64	0.01
4.25	0.00	900.59	0.00	13.25	0.11	900.80	0.11	22.25	0.01	900.64	0.01
4.50	0.00	900.59	0.00	13.50	0.08	900.76	0.08	22.50	0.01	900.64	0.01
4.75	0.00	900.59	0.00	13.75	0.07	900.74	0.07	22.75	0.01	900.64	0.01
5.00	0.00	900.59	0.00	14.00	0.06	900.73	0.06	23.00	0.01	900.64	0.01
5.25	0.00	900.59	0.00	14.25	0.05	900.71	0.05	23.25	0.01	900.63	0.01
5.50	0.00	900.59	0.00	14.50	0.04	900.70	0.04	23.50	0.01	900.63	0.01
5.75	0.00	900.60	0.00	14.75	0.04	900.70	0.04	23.75	0.01	900.63	0.01
6.00	0.00	900.60	0.00	15.00	0.03	900.69	0.03	24.00	0.01	900.63	0.01
6.25	0.00	900.60	0.00	15.25	0.03	900.69	0.03				
6.50	0.00	900.60	0.00	15.50	0.03	900.68	0.03				
6.75	0.00	900.60	0.00	15.75	0.03	900.68	0.03				
7.00	0.00	900.60	0.00	16.00	0.03	900.67	0.03				
7.25	0.00	900.60	0.00	16.25	0.02	900.67	0.02				
7.50	0.00	900.60	0.00	16.50	0.02	900.67	0.02				
7.75	0.00	900.60	0.00	16.75	0.02	900.67	0.02				
8.00	0.00	900.60	0.00	17.00	0.02	900.66	0.02				
8.25	0.00	900.61	0.00	17.25	0.02	900.66	0.02				
8.50	0.00	900.61	0.00	17.50	0.02	900.66	0.02				
8.75	0.00	900.61	0.00	17.75	0.02	900.66	0.02				

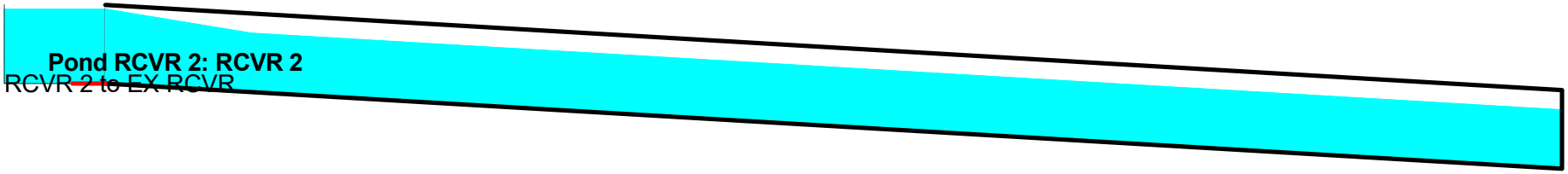
Summary for Pond RCVR 2: RCVR 2

Inflow Area = 0.500 ac, 78.00% Impervious, Inflow Depth > 2.26" for 10-yr event
Inflow = 0.87 cfs @ 12.06 hrs, Volume= 0.094 af
Outflow = 0.87 cfs @ 12.06 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min
Primary = 0.87 cfs @ 12.06 hrs, Volume= 0.094 af
Routed to Pond EX RCVR : EX RCVR

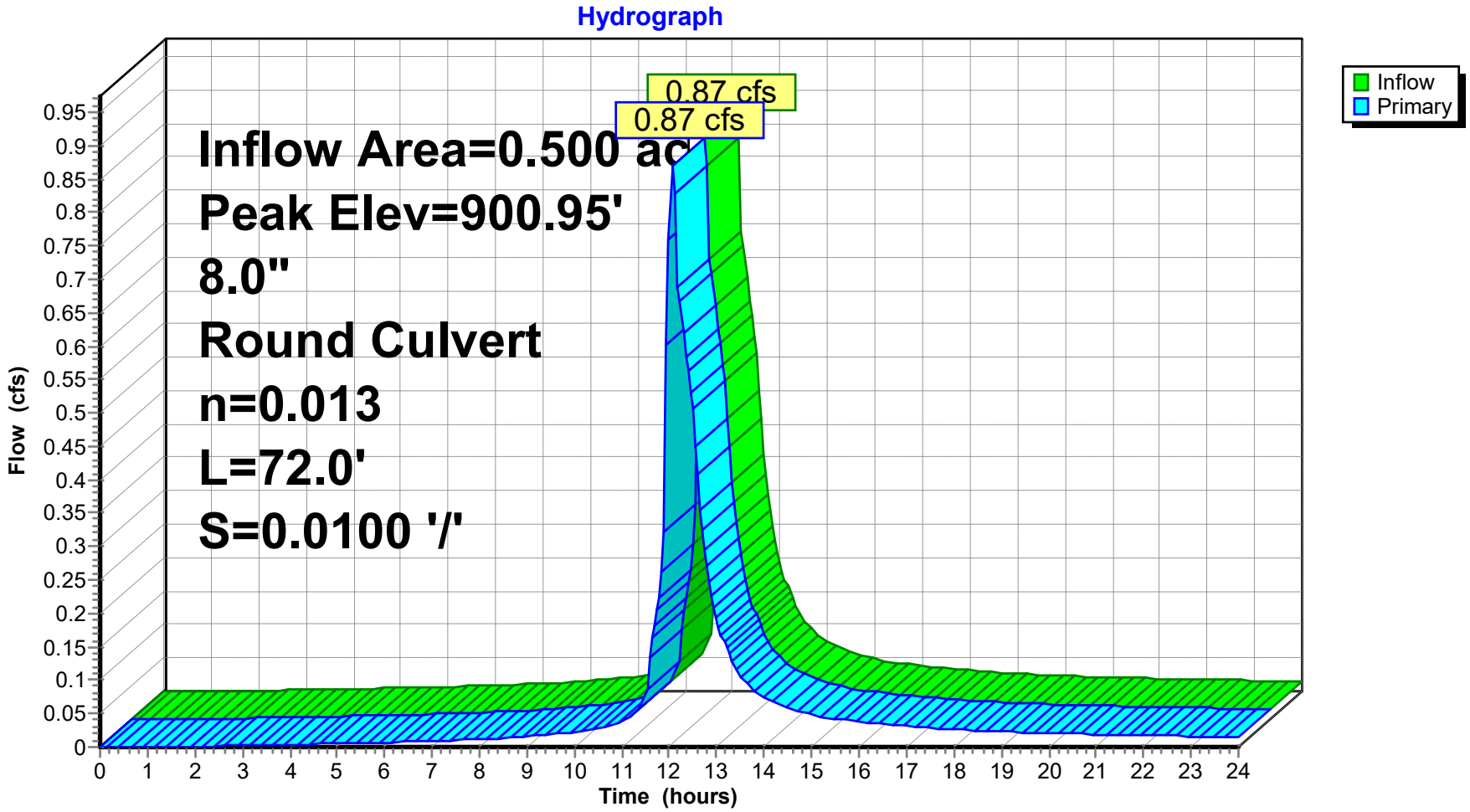
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 900.95' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	900.32'	**8.0" Round RCVR 2 to EX RCVR** L= 72.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 900.32' / 899.60' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

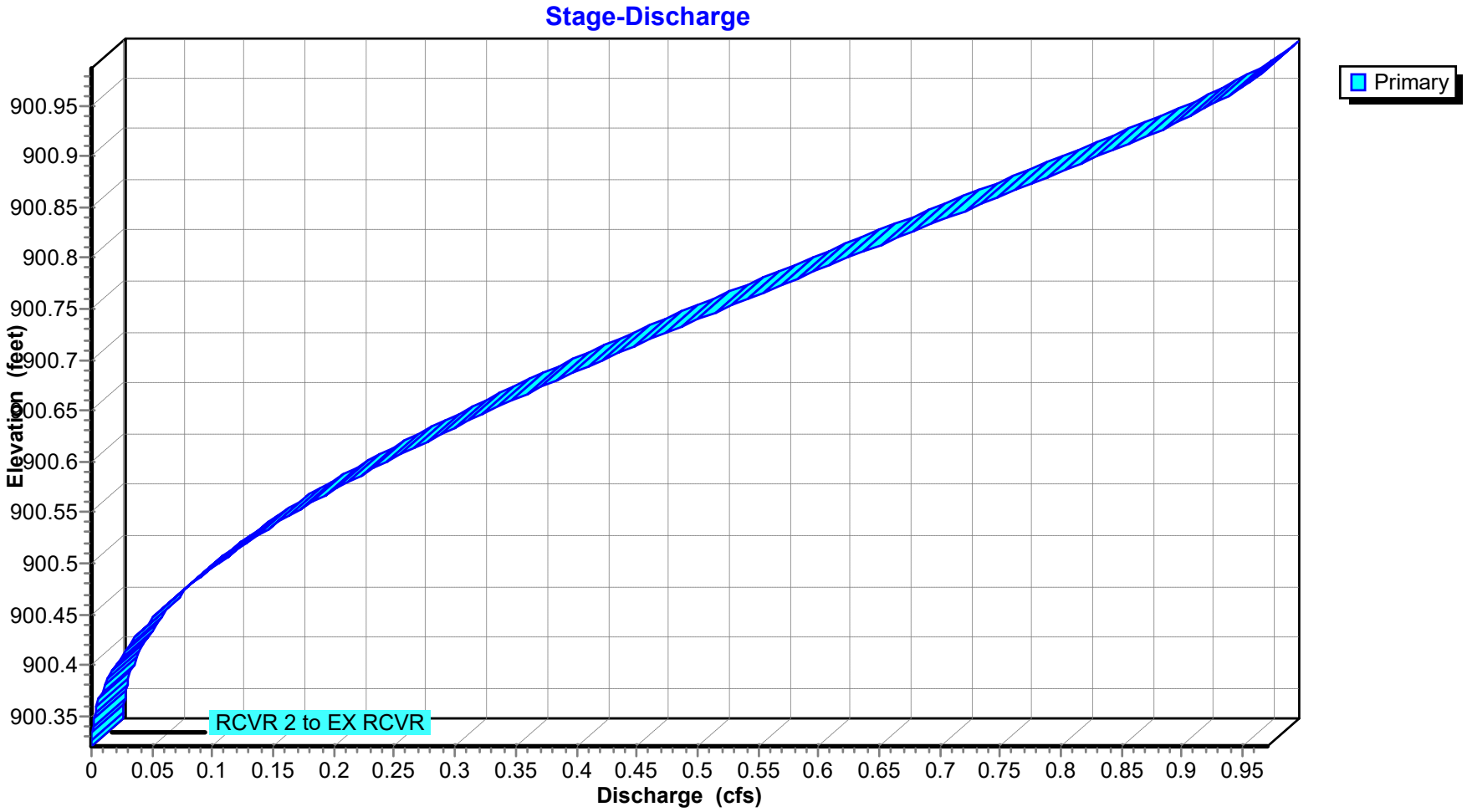
Primary OutFlow Max=0.84 cfs @ 12.06 hrs HW=900.94' TW=900.21' (Dynamic Tailwater)
↳**1=RCVR 2 to EX RCVR** (Outlet Controls 0.84 cfs @ 3.21 fps)



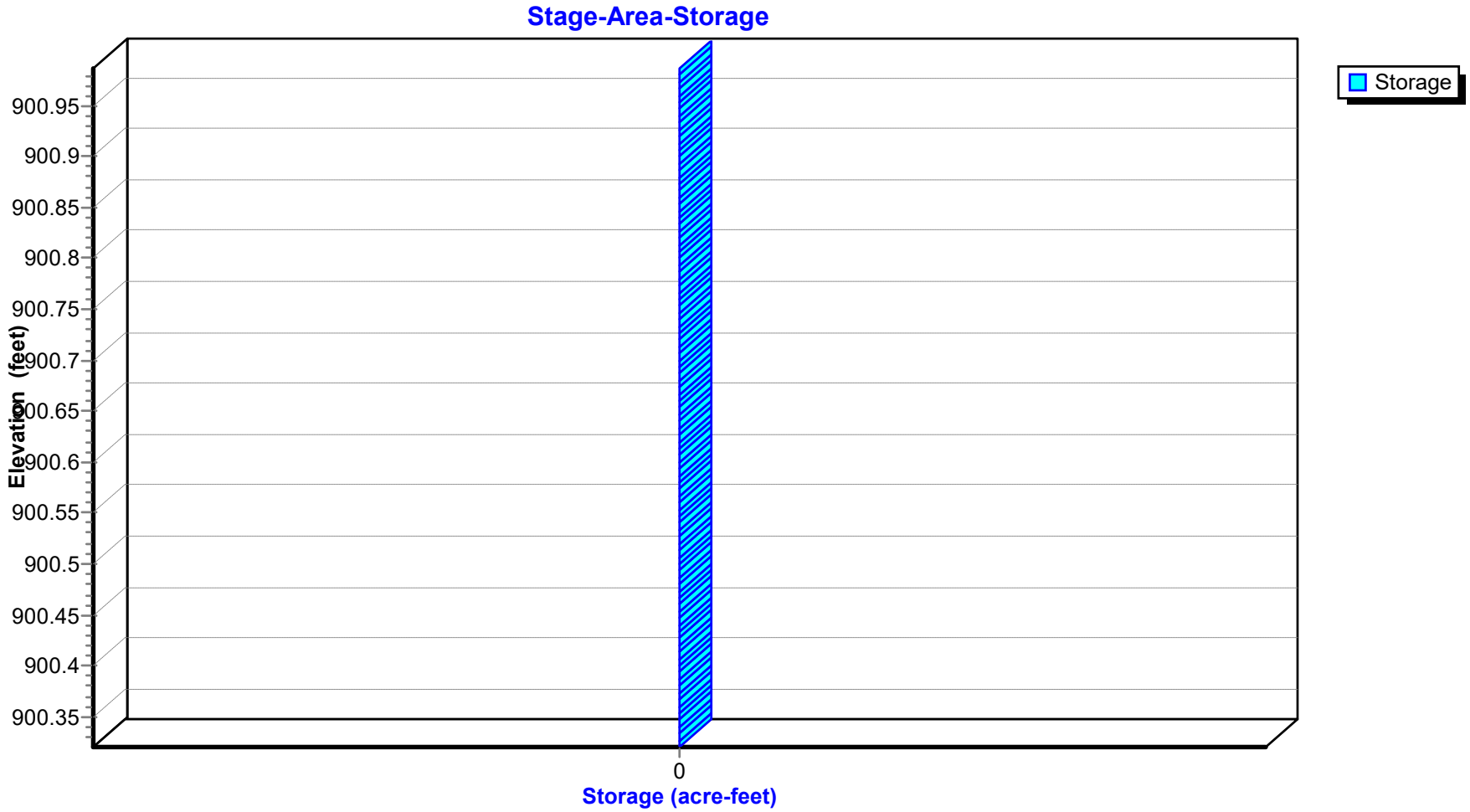
Pond RCVR 2: RCVR 2



Pond RCVR 2: RCVR 2



Pond RCVR 2: RCVR 2



Hydrograph for Pond RCVR 2: RCVR 2

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	900.32	0.00	9.00	0.02	900.39	0.02	18.00	0.03	900.41	0.03
0.25	0.00	900.32	0.00	9.25	0.02	900.39	0.02	18.25	0.03	900.41	0.03
0.50	0.00	900.32	0.00	9.50	0.02	900.40	0.02	18.50	0.02	900.41	0.02
0.75	0.00	900.32	0.00	9.75	0.02	900.40	0.02	18.75	0.02	900.41	0.02
1.00	0.00	900.32	0.00	10.00	0.02	900.41	0.02	19.00	0.02	900.41	0.02
1.25	0.00	900.32	0.00	10.25	0.03	900.41	0.03	19.25	0.02	900.41	0.02
1.50	0.00	900.33	0.00	10.50	0.03	900.42	0.03	19.50	0.02	900.41	0.02
1.75	0.00	900.33	0.00	10.75	0.03	900.42	0.03	19.75	0.02	900.40	0.02
2.00	0.00	900.33	0.00	11.00	0.04	900.43	0.04	20.00	0.02	900.40	0.02
2.25	0.00	900.34	0.00	11.25	0.05	900.45	0.05	20.25	0.02	900.40	0.02
2.50	0.00	900.34	0.00	11.50	0.07	900.47	0.07	20.50	0.02	900.40	0.02
2.75	0.00	900.35	0.00	11.75	0.20	900.58	0.20	20.75	0.02	900.40	0.02
3.00	0.00	900.35	0.00	12.00	**0.76**	**900.88**	**0.76**	21.00	0.02	900.40	0.02
3.25	0.00	900.35	0.00	12.25	**0.64**	**900.84**	**0.64**	21.25	0.02	900.40	0.02
3.50	0.00	900.35	0.00	12.50	0.51	900.77	0.51	21.50	0.02	900.40	0.02
3.75	0.00	900.35	0.00	12.75	0.30	900.65	0.30	21.75	0.02	900.40	0.02
4.00	0.00	900.36	0.00	13.00	0.19	900.58	0.19	22.00	0.02	900.40	0.02
4.25	0.00	900.36	0.00	13.25	0.14	900.53	0.14	22.25	0.02	900.40	0.02
4.50	0.00	900.36	0.00	13.50	0.11	900.51	0.11	22.50	0.02	900.39	0.02
4.75	0.00	900.36	0.00	13.75	0.09	900.49	0.09	22.75	0.02	900.39	0.02
5.00	0.01	900.36	0.01	14.00	0.07	900.48	0.07	23.00	0.02	900.39	0.02
5.25	0.01	900.36	0.01	14.25	0.07	900.47	0.07	23.25	0.02	900.39	0.02
5.50	0.01	900.37	0.01	14.50	0.06	900.46	0.06	23.50	0.02	900.39	0.02
5.75	0.01	900.37	0.01	14.75	0.05	900.45	0.05	23.75	0.02	900.39	0.02
6.00	0.01	900.37	0.01	15.00	0.05	900.45	0.05	24.00	0.01	900.39	0.01
6.25	0.01	900.37	0.01	15.25	0.05	900.44	0.05				
6.50	0.01	900.37	0.01	15.50	0.04	900.44	0.04				
6.75	0.01	900.37	0.01	15.75	0.04	900.43	0.04				
7.00	0.01	900.38	0.01	16.00	0.04	900.43	0.04				
7.25	0.01	900.38	0.01	16.25	0.04	900.43	0.04				
7.50	0.01	900.38	0.01	16.50	0.03	900.42	0.03				
7.75	0.01	900.38	0.01	16.75	0.03	900.42	0.03				
8.00	0.01	900.38	0.01	17.00	0.03	900.42	0.03				
8.25	0.01	900.38	0.01	17.25	0.03	900.42	0.03				
8.50	0.01	900.39	0.01	17.50	0.03	900.42	0.03				
8.75	0.01	900.39	0.01	17.75	0.03	900.41	0.03				

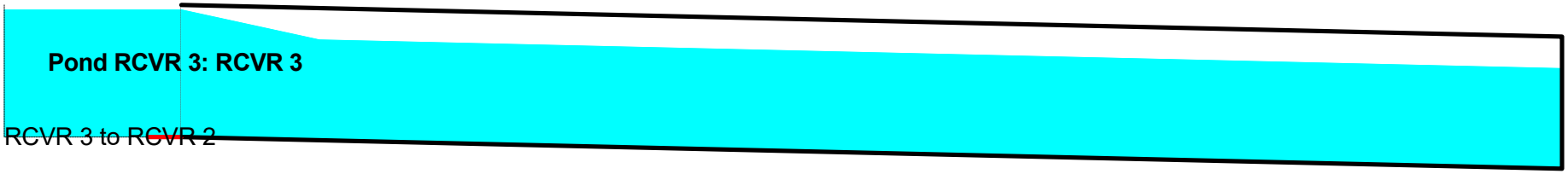
Summary for Pond RCVR 3: RCVR 3

Inflow Area = 0.150 ac, 93.33% Impervious, Inflow Depth > 2.79" for 10-yr event
Inflow = 0.57 cfs @ 12.05 hrs, Volume= 0.035 af
Outflow = 0.57 cfs @ 12.05 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min
Primary = 0.57 cfs @ 12.05 hrs, Volume= 0.035 af
Routed to Pond RCVR 2 : RCVR 2

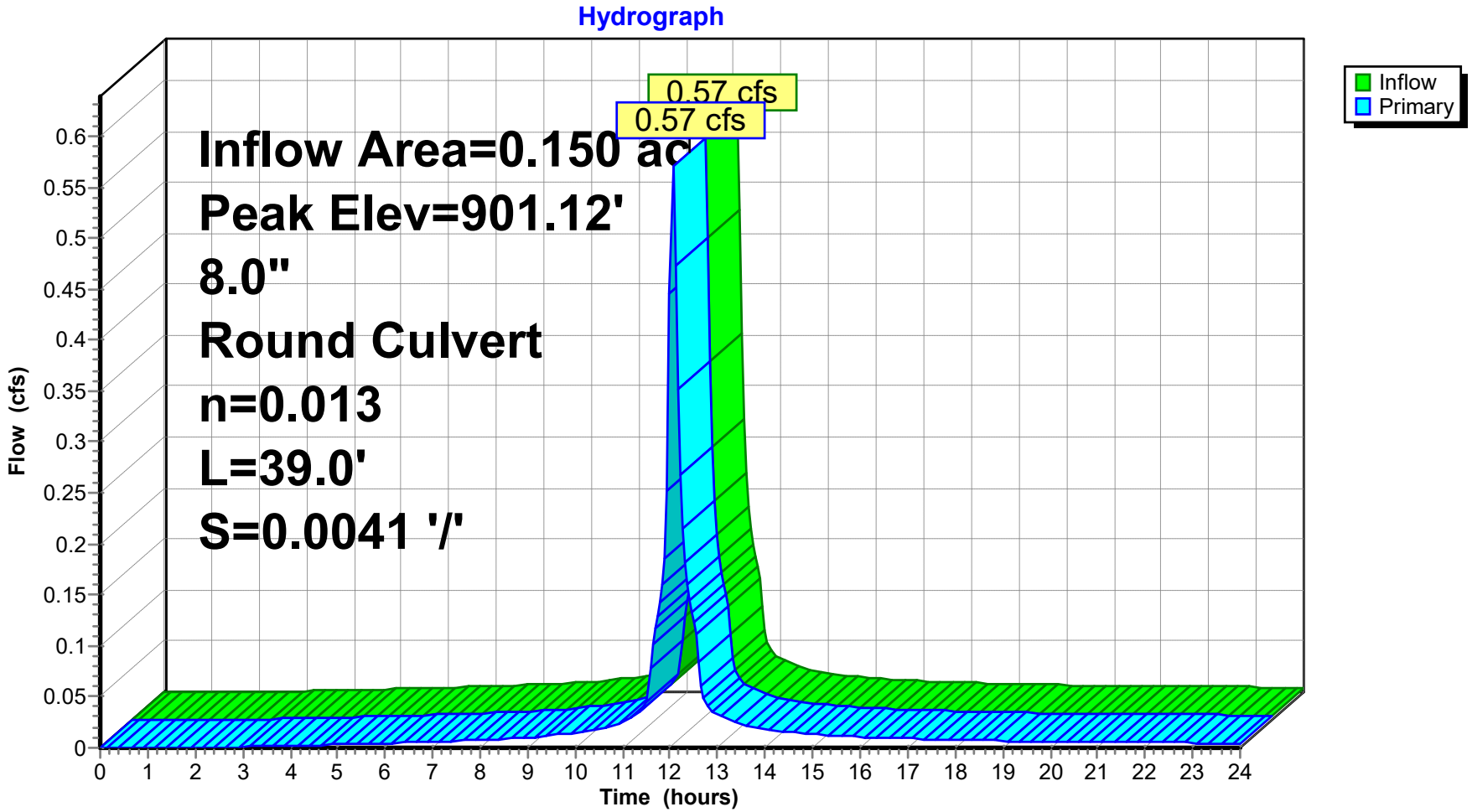
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.12' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	900.48'	**8.0" Round RCVR 3 to RCVR 2** L= 39.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 900.48' / 900.32' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

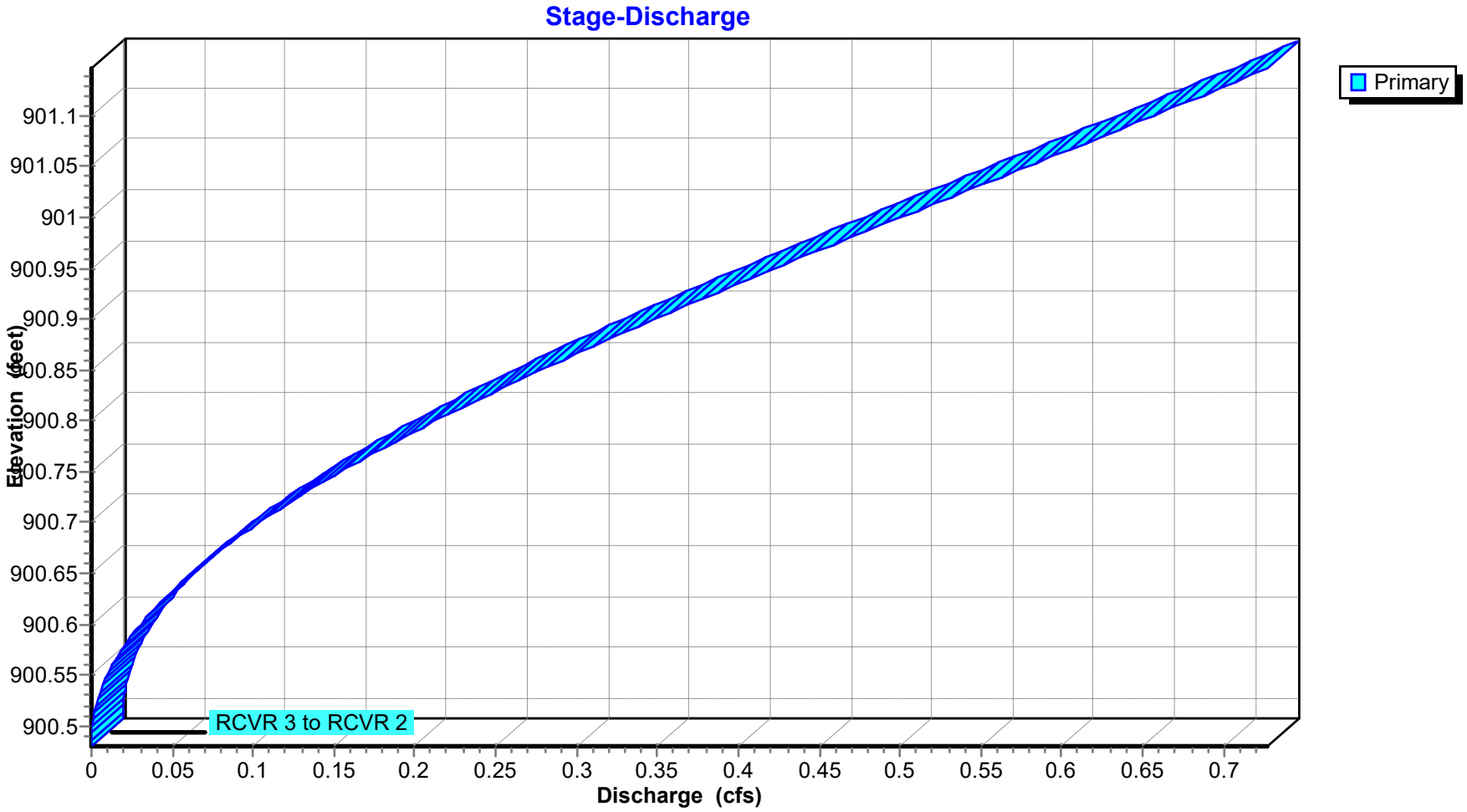
Primary OutFlow Max=0.49 cfs @ 12.05 hrs HW=901.11' TW=900.94' (Dynamic Tailwater)
↑—**1=RCVR 3 to RCVR 2** (Outlet Controls 0.49 cfs @ 1.84 fps)



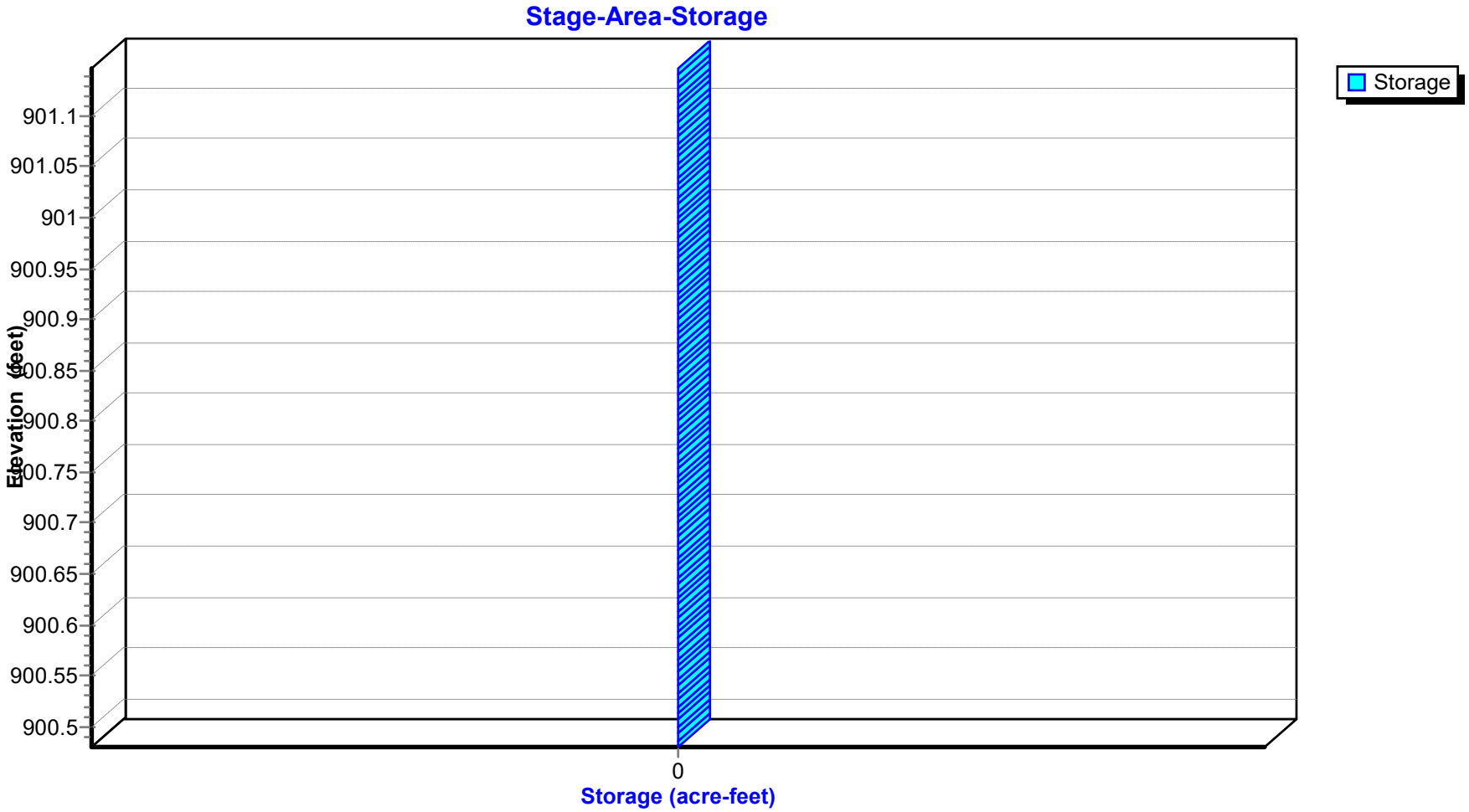
Pond RCVR 3: RCVR 3



Pond RCVR 3: RCVR 3



Pond RCVR 3: RCVR 3



Hydrograph for Pond RCVR 3: RCVR 3

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	900.48	0.00	9.00	0.01	900.55	0.01	18.00	0.01	900.55	0.01
0.25	0.00	900.48	0.00	9.25	0.01	900.56	0.01	18.25	0.01	900.55	0.01
0.50	0.00	900.48	0.00	9.50	0.01	900.56	0.01	18.50	0.01	900.54	0.01
0.75	0.00	900.48	0.00	9.75	0.01	900.56	0.01	18.75	0.01	900.54	0.01
1.00	0.00	900.48	0.00	10.00	0.01	900.57	0.01	19.00	0.01	900.54	0.01
1.25	0.00	900.48	0.00	10.25	0.02	900.57	0.02	19.25	0.01	900.54	0.01
1.50	0.00	900.48	0.00	10.50	0.02	900.58	0.02	19.50	0.01	900.54	0.01
1.75	0.00	900.48	0.00	10.75	0.02	900.58	0.02	19.75	0.01	900.54	0.01
2.00	0.00	900.48	0.00	11.00	0.03	900.59	0.03	20.00	0.01	900.54	0.01
2.25	0.00	900.49	0.00	11.25	0.03	900.61	0.03	20.25	0.01	900.54	0.01
2.50	0.00	900.50	0.00	11.50	0.04	900.63	0.04	20.50	0.01	900.54	0.01
2.75	0.00	900.50	0.00	11.75	0.13	900.74	0.13	20.75	0.01	900.54	0.01
3.00	0.00	900.51	0.00	12.00	**0.45**	**901.01**	**0.45**	21.00	0.01	900.54	0.01
3.25	0.00	900.51	0.00	12.25	**0.21**	**900.94**	**0.21**	21.25	0.01	900.54	0.01
3.50	0.00	900.51	0.00	12.50	0.12	900.84	0.12	21.50	0.01	900.54	0.01
3.75	0.00	900.51	0.00	12.75	0.04	900.70	0.04	21.75	0.01	900.54	0.01
4.00	0.00	900.51	0.00	13.00	0.03	900.65	0.03	22.00	0.01	900.53	0.01
4.25	0.00	900.52	0.00	13.25	0.03	900.62	0.03	22.25	0.01	900.53	0.01
4.50	0.00	900.52	0.00	13.50	0.02	900.61	0.02	22.50	0.01	900.53	0.01
4.75	0.00	900.52	0.00	13.75	0.02	900.60	0.02	22.75	0.00	900.53	0.00
5.00	0.00	900.52	0.00	14.00	0.02	900.59	0.02	23.00	0.00	900.53	0.00
5.25	0.00	900.52	0.00	14.25	0.02	900.58	0.02	23.25	0.00	900.53	0.00
5.50	0.00	900.53	0.00	14.50	0.02	900.58	0.02	23.50	0.00	900.53	0.00
5.75	0.00	900.53	0.00	14.75	0.01	900.57	0.01	23.75	0.00	900.53	0.00
6.00	0.00	900.53	0.00	15.00	0.01	900.57	0.01	24.00	0.00	900.53	0.00
6.25	0.00	900.53	0.00	15.25	0.01	900.57	0.01				
6.50	0.01	900.53	0.01	15.50	0.01	900.56	0.01				
6.75	0.01	900.53	0.01	15.75	0.01	900.56	0.01				
7.00	0.01	900.54	0.01	16.00	0.01	900.56	0.01				
7.25	0.01	900.54	0.01	16.25	0.01	900.56	0.01				
7.50	0.01	900.54	0.01	16.50	0.01	900.56	0.01				
7.75	0.01	900.54	0.01	16.75	0.01	900.55	0.01				
8.00	0.01	900.54	0.01	17.00	0.01	900.55	0.01				
8.25	0.01	900.55	0.01	17.25	0.01	900.55	0.01				
8.50	0.01	900.55	0.01	17.50	0.01	900.55	0.01				
8.75	0.01	900.55	0.01	17.75	0.01	900.55	0.01				

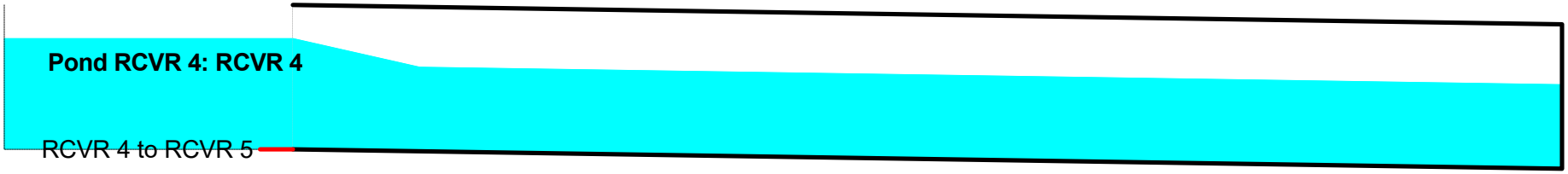
Summary for Pond RCVR 4: RCVR 4

Inflow Area = 0.080 ac, 87.50% Impervious, Inflow Depth > 2.69" for 10-yr event
Inflow = 0.31 cfs @ 12.04 hrs, Volume= 0.018 af
Outflow = 0.31 cfs @ 12.04 hrs, Volume= 0.018 af, Atten= 0%, Lag= 0.0 min
Primary = 0.31 cfs @ 12.04 hrs, Volume= 0.018 af
Routed to Pond RCVR 5 : RCVR 5

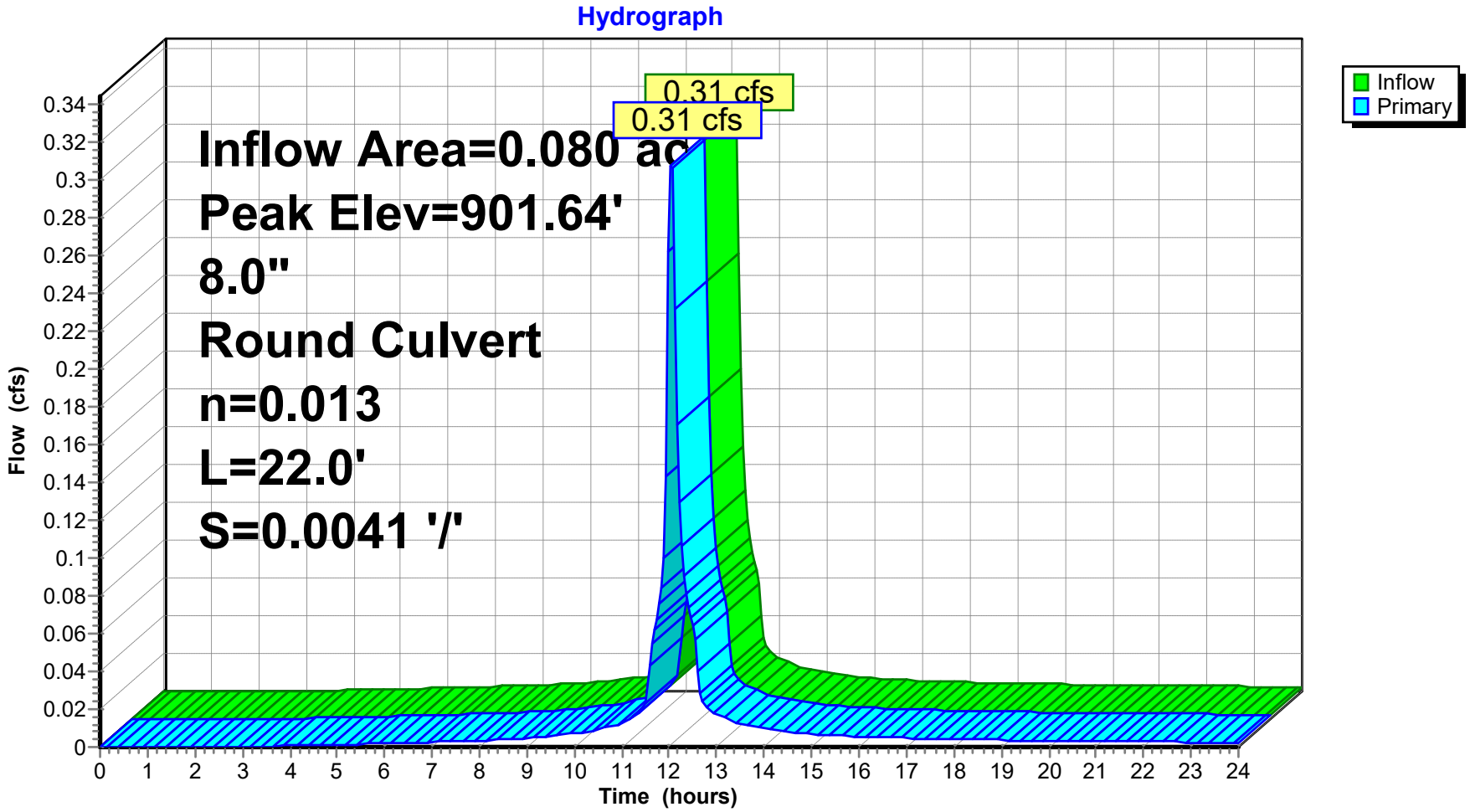
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.64' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	901.13'	**8.0" Round RCVR 4 to RCVR 5** L= 22.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 901.13' / 901.04' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

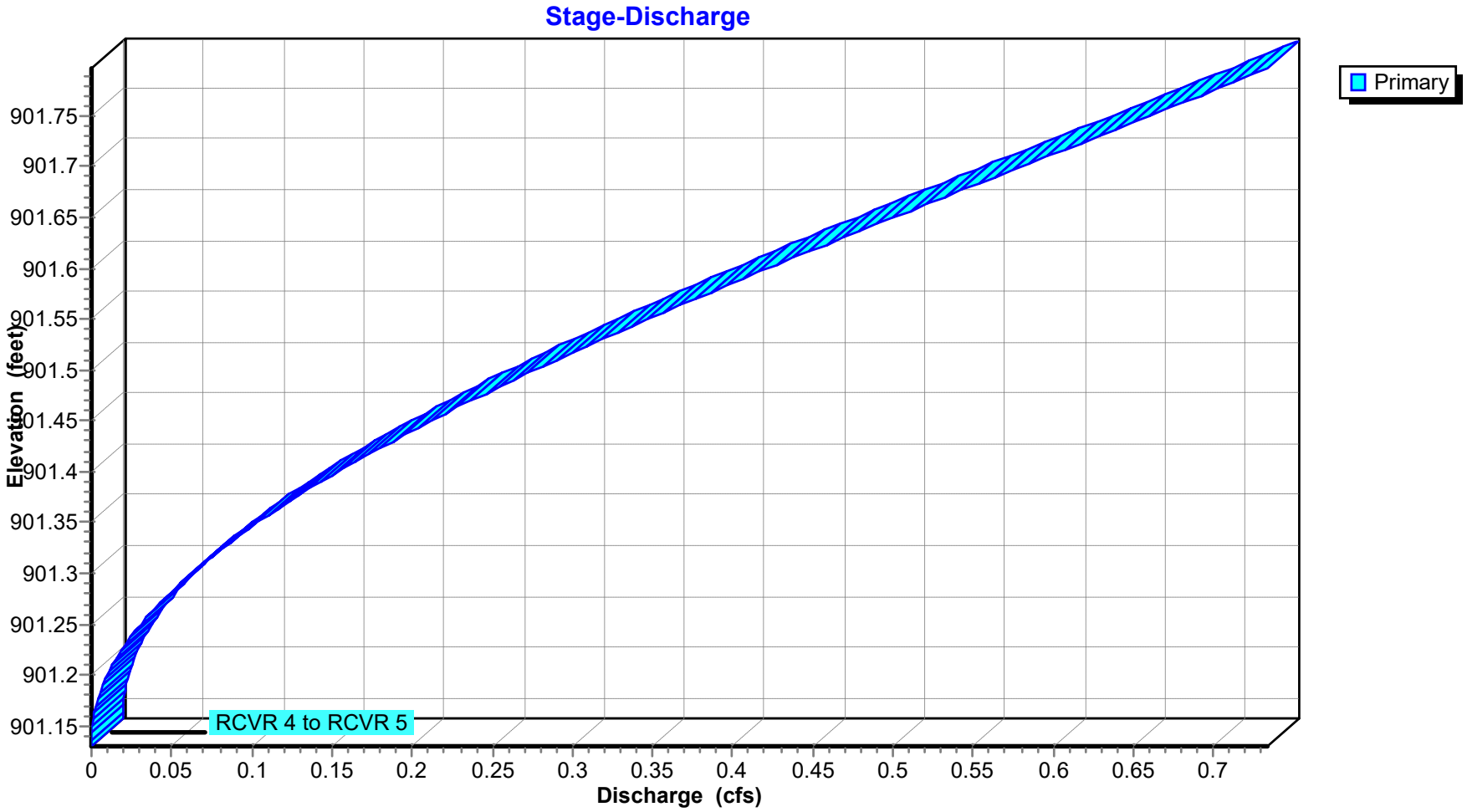
Primary OutFlow Max=0.35 cfs @ 12.04 hrs HW=901.63' TW=901.52' (Dynamic Tailwater)
1=RCVR 4 to RCVR 5 (Outlet Controls 0.35 cfs @ 1.71 fps)



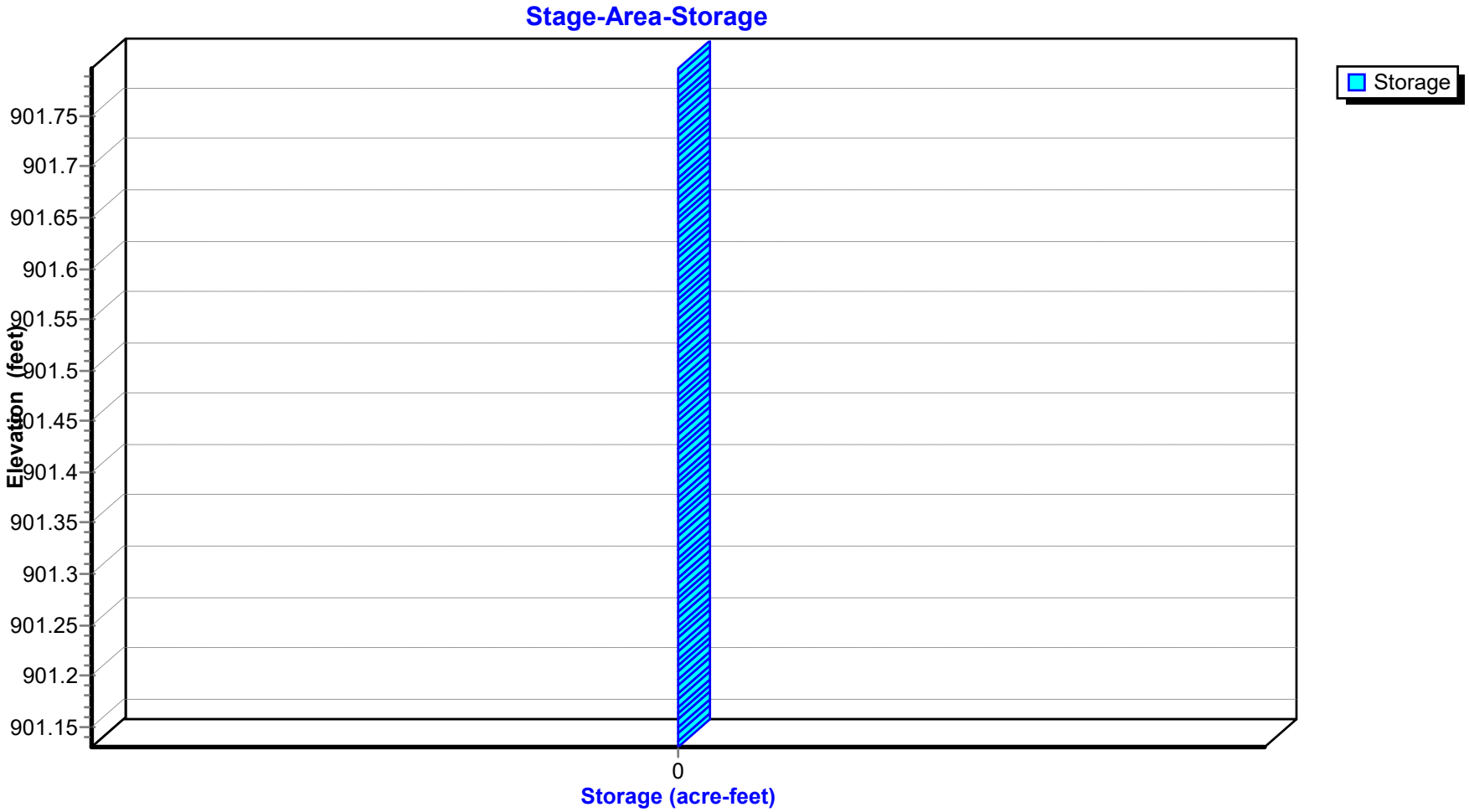
Pond RCVR 4: RCVR 4



Pond RCVR 4: RCVR 4



Pond RCVR 4: RCVR 4



Hydrograph for Pond RCVR 4: RCVR 4

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	901.13	0.00	9.00	0.00	901.18	0.00	18.00	0.00	901.18	0.00
0.25	0.00	901.13	0.00	9.25	0.01	901.19	0.01	18.25	0.00	901.18	0.00
0.50	0.00	901.13	0.00	9.50	0.01	901.19	0.01	18.50	0.00	901.18	0.00
0.75	0.00	901.13	0.00	9.75	0.01	901.19	0.01	18.75	0.00	901.18	0.00
1.00	0.00	901.13	0.00	10.00	0.01	901.19	0.01	19.00	0.00	901.18	0.00
1.25	0.00	901.13	0.00	10.25	0.01	901.20	0.01	19.25	0.00	901.18	0.00
1.50	0.00	901.13	0.00	10.50	0.01	901.20	0.01	19.50	0.00	901.18	0.00
1.75	0.00	901.13	0.00	10.75	0.01	901.21	0.01	19.75	0.00	901.17	0.00
2.00	0.00	901.13	0.00	11.00	0.01	901.22	0.01	20.00	0.00	901.17	0.00
2.25	0.00	901.13	0.00	11.25	0.02	901.23	0.02	20.25	0.00	901.17	0.00
2.50	0.00	901.13	0.00	11.50	0.02	901.25	0.02	20.50	0.00	901.17	0.00
2.75	0.00	901.14	0.00	11.75	0.07	901.34	0.07	20.75	0.00	901.17	0.00
3.00	0.00	901.14	0.00	12.00	**0.26**	**901.57**	**0.26**	21.00	0.00	901.17	0.00
3.25	0.00	901.14	0.00	12.25	**0.11**	**901.45**	**0.11**	21.25	0.00	901.17	0.00
3.50	0.00	901.15	0.00	12.50	0.06	901.38	0.06	21.50	0.00	901.17	0.00
3.75	0.00	901.15	0.00	12.75	0.02	901.27	0.02	21.75	0.00	901.17	0.00
4.00	0.00	901.15	0.00	13.00	0.02	901.24	0.02	22.00	0.00	901.17	0.00
4.25	0.00	901.15	0.00	13.25	0.01	901.23	0.01	22.25	0.00	901.17	0.00
4.50	0.00	901.15	0.00	13.50	0.01	901.22	0.01	22.50	0.00	901.17	0.00
4.75	0.00	901.16	0.00	13.75	0.01	901.21	0.01	22.75	0.00	901.17	0.00
5.00	0.00	901.16	0.00	14.00	0.01	901.21	0.01	23.00	0.00	901.17	0.00
5.25	0.00	901.16	0.00	14.25	0.01	901.20	0.01	23.25	0.00	901.17	0.00
5.50	0.00	901.16	0.00	14.50	0.01	901.20	0.01	23.50	0.00	901.17	0.00
5.75	0.00	901.16	0.00	14.75	0.01	901.20	0.01	23.75	0.00	901.17	0.00
6.00	0.00	901.16	0.00	15.00	0.01	901.19	0.01	24.00	0.00	901.17	0.00
6.25	0.00	901.16	0.00	15.25	0.01	901.19	0.01				
6.50	0.00	901.17	0.00	15.50	0.01	901.19	0.01				
6.75	0.00	901.17	0.00	15.75	0.01	901.19	0.01				
7.00	0.00	901.17	0.00	16.00	0.01	901.19	0.01				
7.25	0.00	901.17	0.00	16.25	0.01	901.19	0.01				
7.50	0.00	901.17	0.00	16.50	0.01	901.19	0.01				
7.75	0.00	901.17	0.00	16.75	0.00	901.18	0.00				
8.00	0.00	901.18	0.00	17.00	0.00	901.18	0.00				
8.25	0.00	901.18	0.00	17.25	0.00	901.18	0.00				
8.50	0.00	901.18	0.00	17.50	0.00	901.18	0.00				
8.75	0.00	901.18	0.00	17.75	0.00	901.18	0.00				

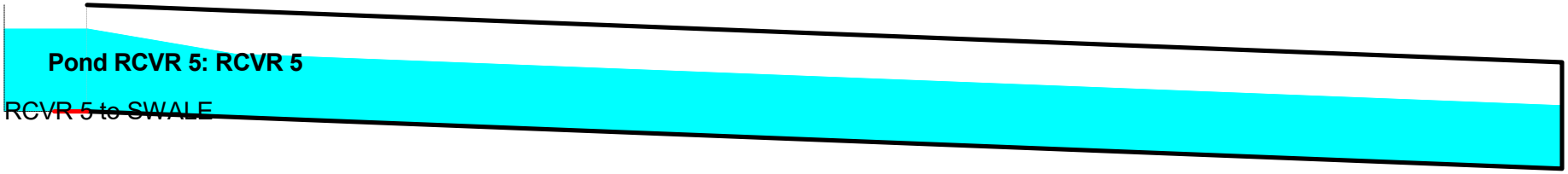
Summary for Pond RCVR 5: RCVR 5

Inflow Area = 0.130 ac, 92.31% Impervious, Inflow Depth > 2.77" for 10-yr event
Inflow = 0.49 cfs @ 12.01 hrs, Volume= 0.030 af
Outflow = 0.49 cfs @ 12.01 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min
Primary = 0.49 cfs @ 12.01 hrs, Volume= 0.030 af
Routed to Pond SWALE : SWALE

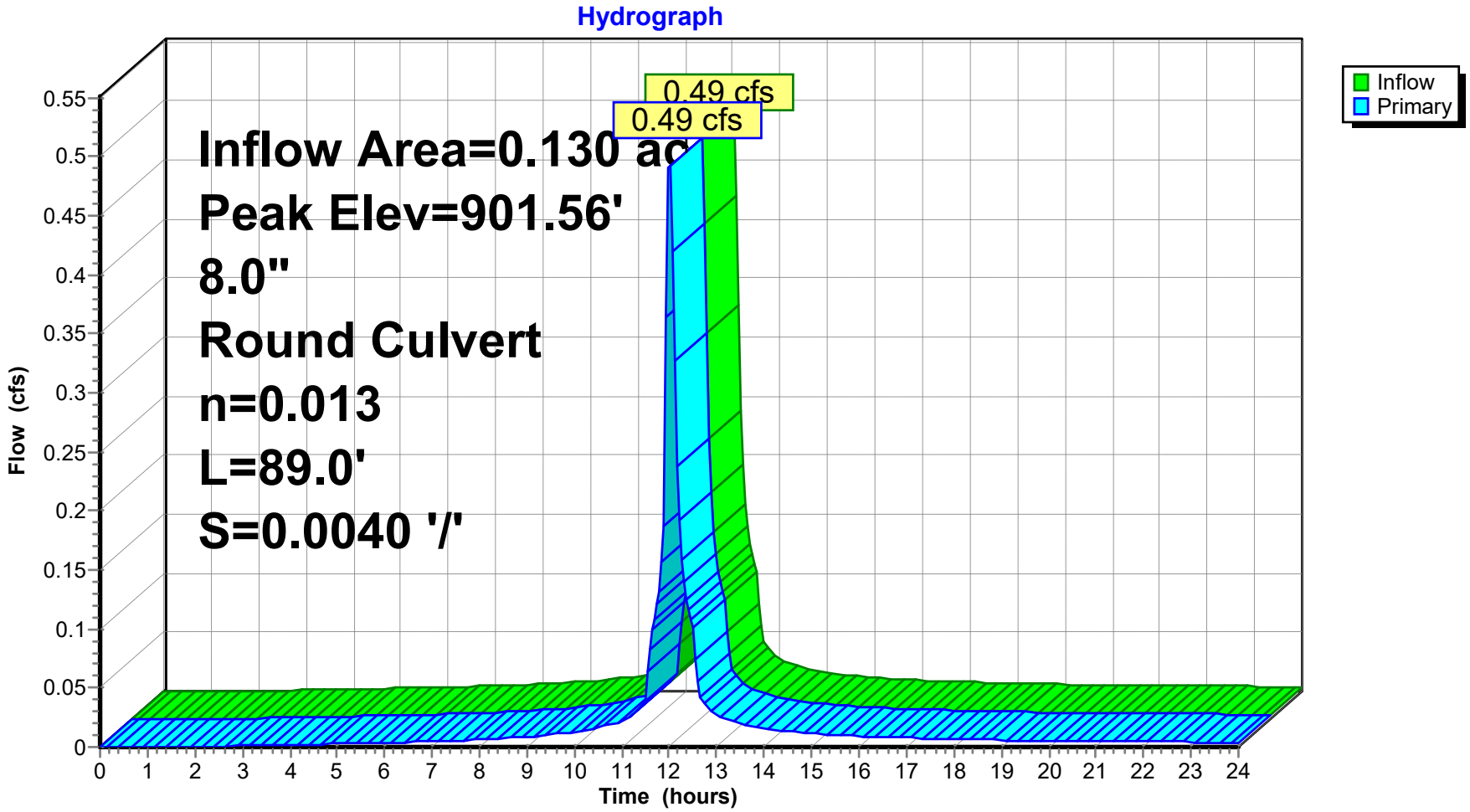
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.56' @ 12.01 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	901.04'	**8.0" Round RCVR 5 to SWALE** L= 89.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 901.04' / 900.68' S= 0.0040 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

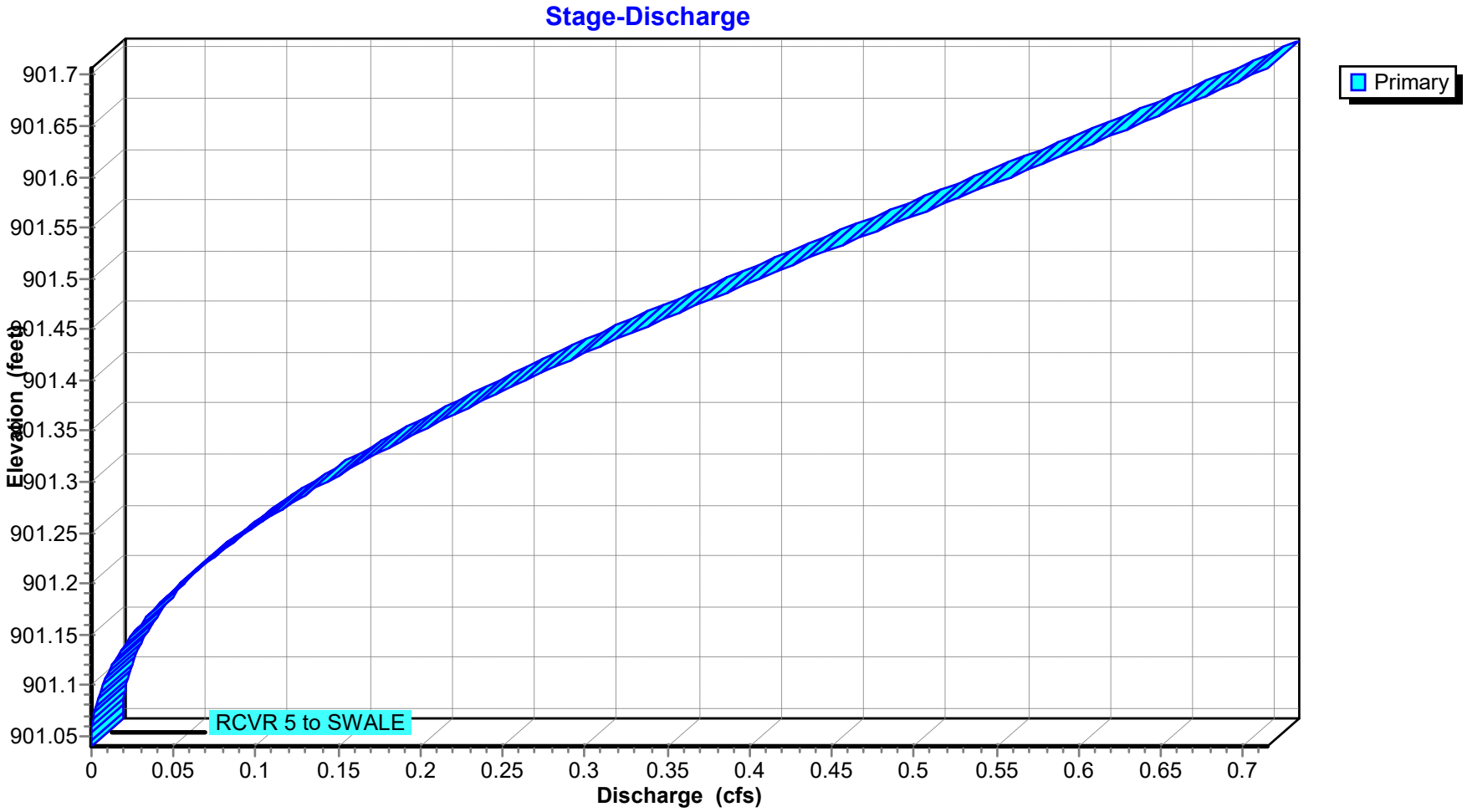
Primary OutFlow Max=0.48 cfs @ 12.01 hrs HW=901.55' TW=900.97' (Dynamic Tailwater)
↑—**1=RCVR 5 to SWALE** (Barrel Controls 0.48 cfs @ 2.32 fps)



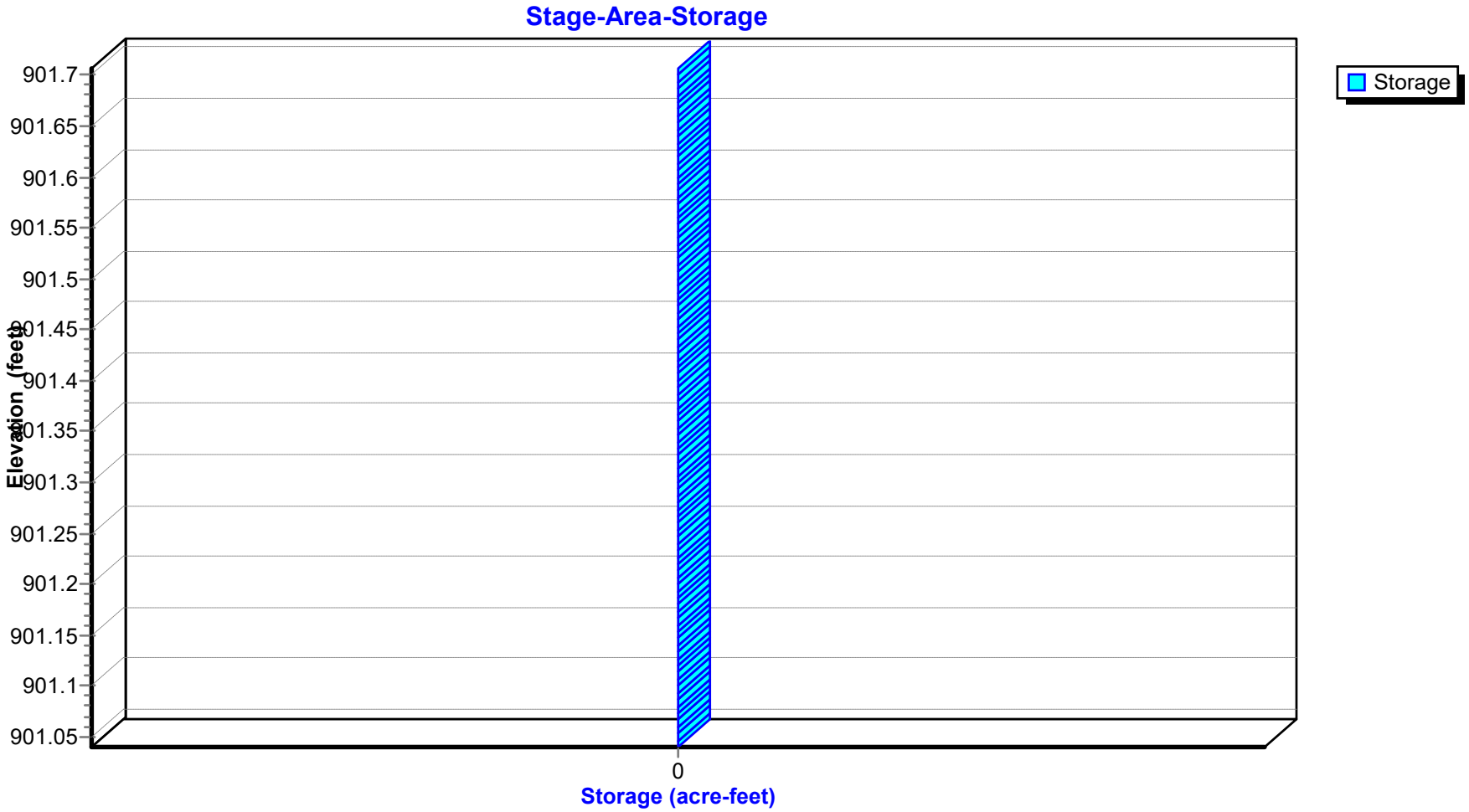
Pond RCVR 5: RCVR 5



Pond RCVR 5: RCVR 5



Pond RCVR 5: RCVR 5



Hydrograph for Pond RCVR 5: RCVR 5

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	901.04	0.00	9.00	0.01	901.11	0.01	18.00	0.01	901.10	0.01
0.25	0.00	901.04	0.00	9.25	0.01	901.11	0.01	18.25	0.01	901.10	0.01
0.50	0.00	901.04	0.00	9.50	0.01	901.11	0.01	18.50	0.01	901.10	0.01
0.75	0.00	901.04	0.00	9.75	0.01	901.12	0.01	18.75	0.01	901.10	0.01
1.00	0.00	901.04	0.00	10.00	0.01	901.12	0.01	19.00	0.01	901.10	0.01
1.25	0.00	901.04	0.00	10.25	0.01	901.12	0.01	19.25	0.01	901.10	0.01
1.50	0.00	901.05	0.00	10.50	0.02	901.13	0.02	19.50	0.01	901.10	0.01
1.75	0.00	901.05	0.00	10.75	0.02	901.14	0.02	19.75	0.01	901.09	0.01
2.00	0.00	901.05	0.00	11.00	0.02	901.14	0.02	20.00	0.01	901.09	0.01
2.25	0.00	901.06	0.00	11.25	0.03	901.16	0.03	20.25	0.01	901.09	0.01
2.50	0.00	901.06	0.00	11.50	0.04	901.18	0.04	20.50	0.01	901.09	0.01
2.75	0.00	901.06	0.00	11.75	0.12	901.28	0.12	20.75	0.01	901.09	0.01
3.00	0.00	901.06	0.00	12.00	**0.49**	**901.56**	**0.49**	21.00	0.00	901.09	0.00
3.25	0.00	901.07	0.00	12.25	0.16	901.39	0.16	21.25	0.00	901.09	0.00
3.50	0.00	901.07	0.00	12.50	0.10	901.33	0.10	21.50	0.00	901.09	0.00
3.75	0.00	901.07	0.00	12.75	0.03	901.22	0.03	21.75	0.00	901.09	0.00
4.00	0.00	901.07	0.00	13.00	0.03	901.18	0.03	22.00	0.00	901.09	0.00
4.25	0.00	901.07	0.00	13.25	0.02	901.16	0.02	22.25	0.00	901.09	0.00
4.50	0.00	901.08	0.00	13.50	0.02	901.15	0.02	22.50	0.00	901.09	0.00
4.75	0.00	901.08	0.00	13.75	0.02	901.14	0.02	22.75	0.00	901.09	0.00
5.00	0.00	901.08	0.00	14.00	0.02	901.13	0.02	23.00	0.00	901.09	0.00
5.25	0.00	901.08	0.00	14.25	0.01	901.13	0.01	23.25	0.00	901.09	0.00
5.50	0.00	901.08	0.00	14.50	0.01	901.13	0.01	23.50	0.00	901.09	0.00
5.75	0.00	901.08	0.00	14.75	0.01	901.12	0.01	23.75	0.00	901.09	0.00
6.00	0.00	901.08	0.00	15.00	0.01	901.12	0.01	24.00	0.00	901.09	0.00
6.25	0.00	901.09	0.00	15.25	0.01	901.12	0.01				
6.50	0.00	901.09	0.00	15.50	0.01	901.11	0.01				
6.75	0.00	901.09	0.00	15.75	0.01	901.11	0.01				
7.00	0.00	901.09	0.00	16.00	0.01	901.11	0.01				
7.25	0.01	901.09	0.01	16.25	0.01	901.11	0.01				
7.50	0.01	901.09	0.01	16.50	0.01	901.11	0.01				
7.75	0.01	901.10	0.01	16.75	0.01	901.11	0.01				
8.00	0.01	901.10	0.01	17.00	0.01	901.10	0.01				
8.25	0.01	901.10	0.01	17.25	0.01	901.10	0.01				
8.50	0.01	901.10	0.01	17.50	0.01	901.10	0.01				
8.75	0.01	901.10	0.01	17.75	0.01	901.10	0.01				

Summary for Pond SWALE: SWALE

Inflow Area = 0.280 ac, 64.29% Impervious, Inflow Depth > 2.28" for 10-yr event
Inflow = 0.64 cfs @ 12.02 hrs, Volume= 0.053 af
Outflow = 0.37 cfs @ 12.31 hrs, Volume= 0.042 af, Atten= 43%, Lag= 17.4 min
Primary = 0.37 cfs @ 12.31 hrs, Volume= 0.042 af
Routed to Pond RCVR 1 : RCVR 1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.23' @ 12.30 hrs Surf.Area= 1,197 sf Storage= 972 cf

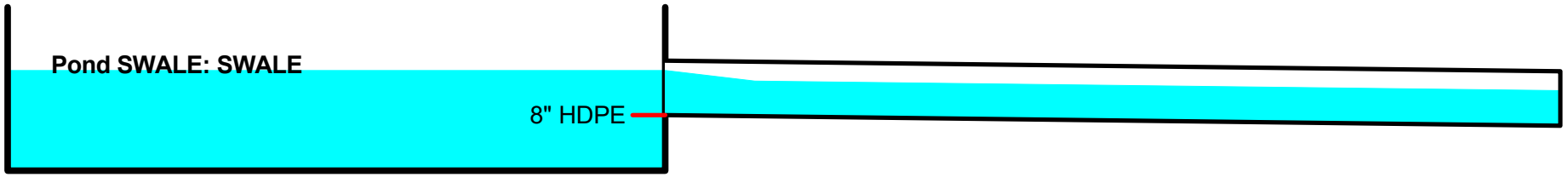
Plug-Flow detention time= 145.5 min calculated for 0.042 af (79% of inflow)
Center-of-Mass det. time= 69.4 min (858.9 - 789.6)

Volume	Invert	Avail.Storage	Storage Description
#1	900.00'	2,104 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
900.00	396	0	0
901.00	1,038	717	717
902.00	1,736	1,387	2,104

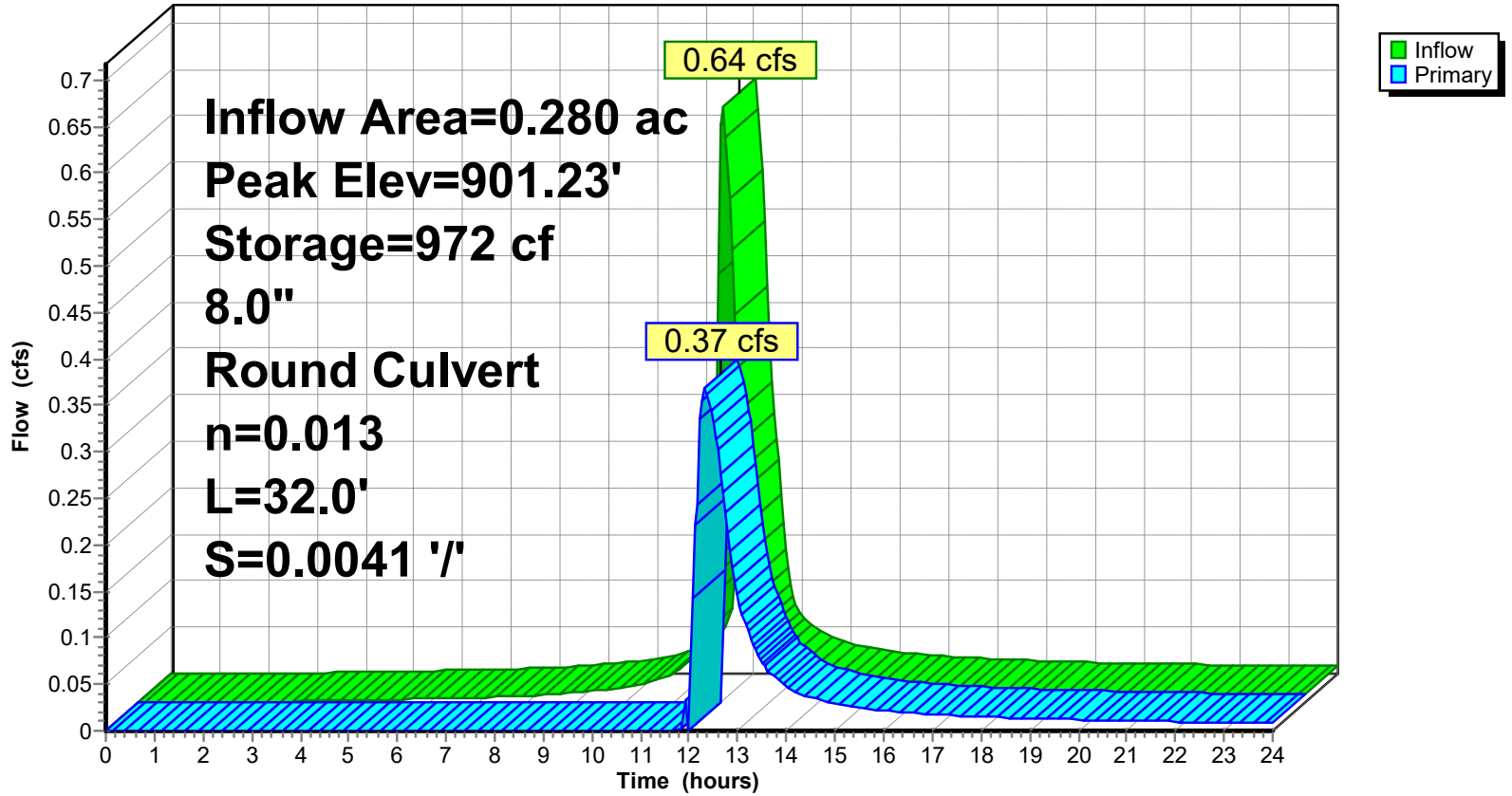
Device	Routing	Invert	Outlet Devices
#1	Primary	900.68'	**8.0" Round 8" HDPE** L= 32.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 900.68' / 900.55' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.38 cfs @ 12.31 hrs HW=901.23' TW=901.09' (Dynamic Tailwater)
↑—**1=8" HDPE** (Outlet Controls 0.38 cfs @ 1.67 fps)

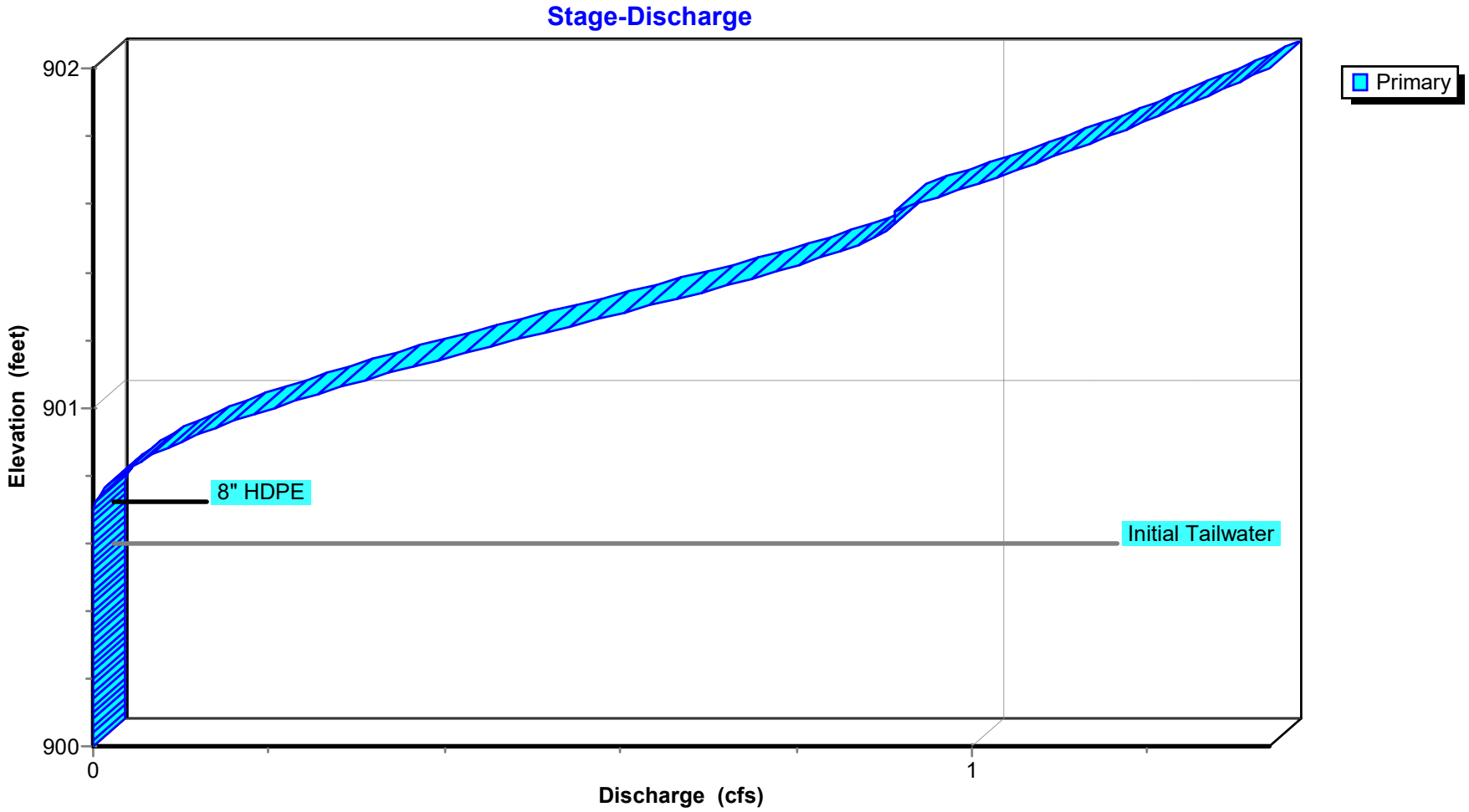


Pond SWALE: SWALE

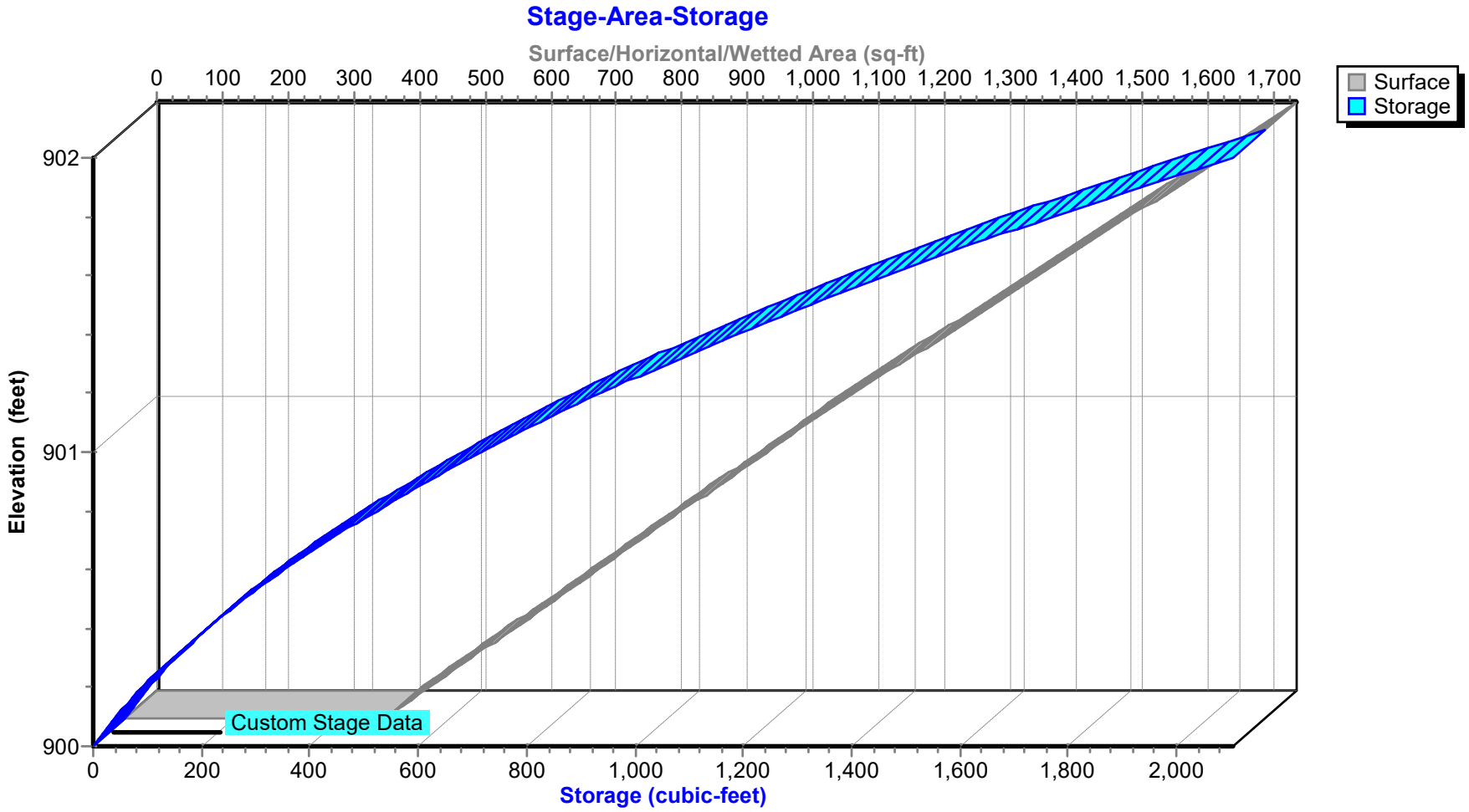
Hydrograph



Pond SWALE: SWALE



Pond SWALE: SWALE



Hydrograph for Pond SWALE: SWALE

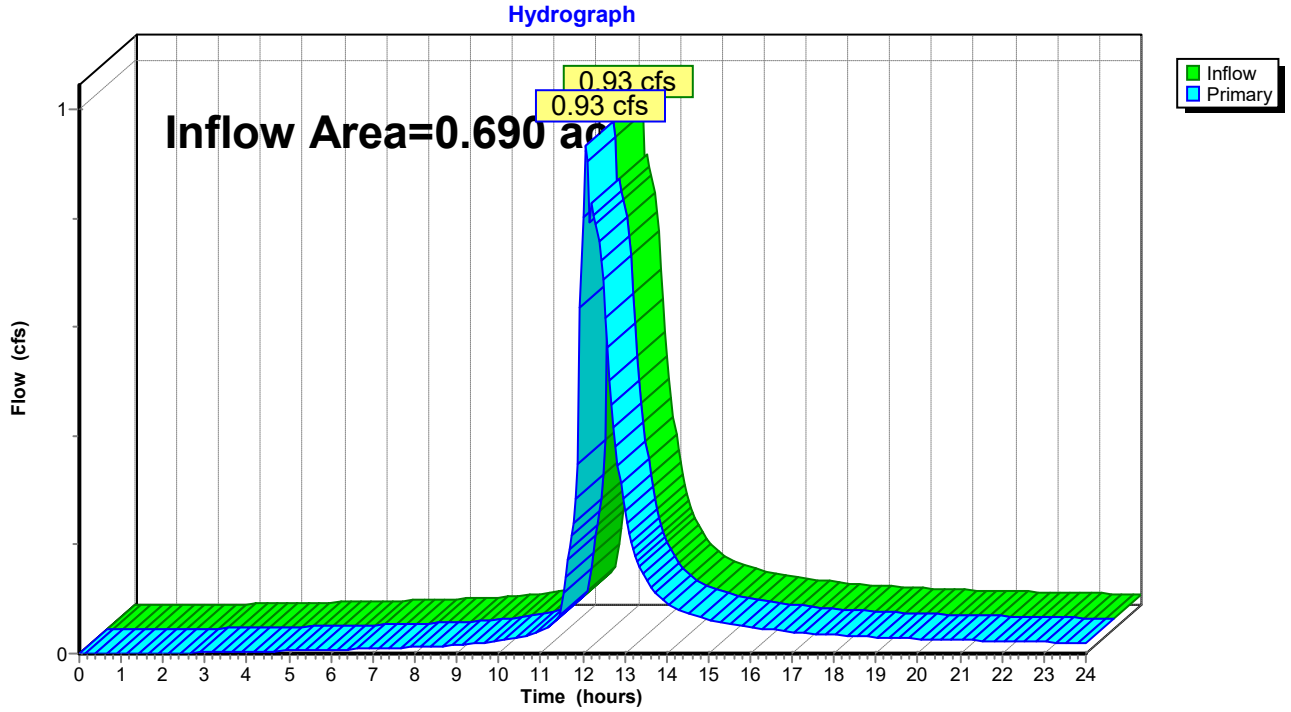
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	900.00	0.00
0.50	0.00	0	900.00	0.00
1.00	0.00	0	900.00	0.00
1.50	0.00	0	900.00	0.00
2.00	0.00	0	900.00	0.00
2.50	0.00	1	900.00	0.00
3.00	0.00	3	900.01	0.00
3.50	0.00	5	900.01	0.00
4.00	0.00	8	900.02	0.00
4.50	0.00	11	900.03	0.00
5.00	0.00	16	900.04	0.00
5.50	0.00	21	900.05	0.00
6.00	0.00	27	900.07	0.00
6.50	0.00	35	900.08	0.00
7.00	0.00	43	900.10	0.00
7.50	0.01	52	900.12	0.00
8.00	0.01	64	900.14	0.00
8.50	0.01	78	900.17	0.00
9.00	0.01	95	900.20	0.00
9.50	0.01	115	900.24	0.00
10.00	0.02	142	900.29	0.00
10.50	0.02	176	900.35	0.00
11.00	0.03	224	900.42	0.00
11.50	0.06	299	900.53	0.00
12.00	**0.62**	**672**	**900.96**	**0.00**
12.50	0.23	**923**	**901.19**	**0.33**
13.00	0.06	702	900.99	0.15
13.50	0.04	605	900.89	0.07
14.00	0.03	564	900.85	0.05
14.50	0.03	543	900.82	0.04
15.00	0.02	530	900.81	0.03
15.50	0.02	521	900.80	0.03
16.00	0.02	514	900.79	0.02
16.50	0.02	509	900.79	0.02
17.00	0.02	504	900.78	0.02
17.50	0.01	501	900.78	0.02
18.00	0.01	497	900.77	0.02
18.50	0.01	495	900.77	0.01
19.00	0.01	492	900.77	0.01
19.50	0.01	490	900.76	0.01
20.00	0.01	488	900.76	0.01
20.50	0.01	486	900.76	0.01
21.00	0.01	485	900.76	0.01
21.50	0.01	483	900.76	0.01
22.00	0.01	482	900.75	0.01
22.50	0.01	480	900.75	0.01
23.00	0.01	479	900.75	0.01
23.50	0.01	478	900.75	0.01
24.00	0.01	477	900.75	0.01

Summary for Link POST: Post Development

Inflow Area = 0.690 ac, 56.52% Impervious, Inflow Depth > 2.01" for 10-yr event
Inflow = 0.93 cfs @ 12.07 hrs, Volume= 0.115 af
Primary = 0.93 cfs @ 12.07 hrs, Volume= 0.115 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Link POST: Post Development



Hydrograph for Link POST: Post Development

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	9.00	0.02	0.00	0.02	18.00	0.03	0.00	0.03
0.25	0.00	0.00	0.00	9.25	0.02	0.00	0.02	18.25	0.03	0.00	0.03
0.50	0.00	0.00	0.00	9.50	0.02	0.00	0.02	18.50	0.03	0.00	0.03
0.75	0.00	0.00	0.00	9.75	0.02	0.00	0.02	18.75	0.03	0.00	0.03
1.00	0.00	0.00	0.00	10.00	0.02	0.00	0.02	19.00	0.03	0.00	0.03
1.25	0.00	0.00	0.00	10.25	0.03	0.00	0.03	19.25	0.03	0.00	0.03
1.50	0.00	0.00	0.00	10.50	0.03	0.00	0.03	19.50	0.03	0.00	0.03
1.75	0.00	0.00	0.00	10.75	0.03	0.00	0.03	19.75	0.03	0.00	0.03
2.00	0.00	0.00	0.00	11.00	0.04	0.00	0.04	20.00	0.03	0.00	0.03
2.25	0.00	0.00	0.00	11.25	0.05	0.00	0.05	20.25	0.03	0.00	0.03
2.50	0.00	0.00	0.00	11.50	0.08	0.00	0.08	20.50	0.03	0.00	0.03
2.75	0.00	0.00	0.00	11.75	0.22	0.00	0.22	20.75	0.03	0.00	0.03
3.00	0.00	0.00	0.00	12.00	**0.80**	0.00	**0.80**	21.00	0.02	0.00	0.02
3.25	0.00	0.00	0.00	12.25	**0.81**	0.00	**0.81**	21.25	0.02	0.00	0.02
3.50	0.00	0.00	0.00	12.50	0.69	0.00	0.69	21.50	0.02	0.00	0.02
3.75	0.00	0.00	0.00	12.75	0.42	0.00	0.42	21.75	0.02	0.00	0.02
4.00	0.00	0.00	0.00	13.00	0.26	0.00	0.26	22.00	0.02	0.00	0.02
4.25	0.00	0.00	0.00	13.25	0.18	0.00	0.18	22.25	0.02	0.00	0.02
4.50	0.00	0.00	0.00	13.50	0.14	0.00	0.14	22.50	0.02	0.00	0.02
4.75	0.00	0.00	0.00	13.75	0.11	0.00	0.11	22.75	0.02	0.00	0.02
5.00	0.01	0.00	0.01	14.00	0.09	0.00	0.09	23.00	0.02	0.00	0.02
5.25	0.01	0.00	0.01	14.25	0.08	0.00	0.08	23.25	0.02	0.00	0.02
5.50	0.01	0.00	0.01	14.50	0.07	0.00	0.07	23.50	0.02	0.00	0.02
5.75	0.01	0.00	0.01	14.75	0.07	0.00	0.07	23.75	0.02	0.00	0.02
6.00	0.01	0.00	0.01	15.00	0.06	0.00	0.06	24.00	0.02	0.00	0.02
6.25	0.01	0.00	0.01	15.25	0.06	0.00	0.06				
6.50	0.01	0.00	0.01	15.50	0.05	0.00	0.05				
6.75	0.01	0.00	0.01	15.75	0.05	0.00	0.05				
7.00	0.01	0.00	0.01	16.00	0.05	0.00	0.05				
7.25	0.01	0.00	0.01	16.25	0.05	0.00	0.05				
7.50	0.01	0.00	0.01	16.50	0.04	0.00	0.04				
7.75	0.01	0.00	0.01	16.75	0.04	0.00	0.04				
8.00	0.01	0.00	0.01	17.00	0.04	0.00	0.04				
8.25	0.01	0.00	0.01	17.25	0.04	0.00	0.04				
8.50	0.01	0.00	0.01	17.50	0.04	0.00	0.04				
8.75	0.01	0.00	0.01	17.75	0.04	0.00	0.04				

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment ATO: Area to Offsite Runoff Area=0.190 ac 0.00% Impervious Runoff Depth>1.91"
Flow Length=60' Slope=0.0050 '/' Tc=30.0 min CN=80 Runoff=0.28 cfs 0.030 af

Subcatchment DA 1: Drainage Area 1 Runoff Area=0.060 ac 100.00% Impervious Runoff Depth>3.62"
Flow Length=80' Slope=0.0100 '/' Tc=1.6 min CN=98 Runoff=0.35 cfs 0.018 af

Subcatchment DA 2: Drainage Area 2 Runoff Area=0.010 ac 100.00% Impervious Runoff Depth>3.62"
Flow Length=35' Slope=0.0100 '/' Tc=0.8 min CN=98 Runoff=0.06 cfs 0.003 af

Subcatchment DA 3: Drainage Area 3 Runoff Area=0.150 ac 93.33% Impervious Runoff Depth>3.50"
Flow Length=75' Slope=0.0100 '/' Tc=7.2 min CN=97 Runoff=0.70 cfs 0.044 af

Subcatchment DA 4: Drainage Area 4 Runoff Area=0.080 ac 87.50% Impervious Runoff Depth>3.39"
Flow Length=20' Slope=0.0100 '/' Tc=6.3 min CN=96 Runoff=0.38 cfs 0.023 af

Subcatchment DA 5: Drainage Area 5 Runoff Area=0.050 ac 100.00% Impervious Runoff Depth>3.62"
Flow Length=60' Slope=0.0050 '/' Tc=1.7 min CN=98 Runoff=0.29 cfs 0.015 af

Subcatchment DA 6: Drainage Area 6 Runoff Area=0.150 ac 40.00% Impervious Runoff Depth>2.49"
Flow Length=40' Slope=0.0045 '/' Tc=15.0 min CN=87 Runoff=0.41 cfs 0.031 af

Pond EX RCVR: EX RCVR Peak Elev=900.32' Inflow=1.14 cfs 0.123 af
12.0" Round Culvert n=0.013 L=121.0' S=0.0031 '/' Outflow=1.14 cfs 0.123 af

Pond RCVR 1: RCVR 1 Peak Elev=901.27' Inflow=0.62 cfs 0.076 af
8.0" Round Culvert n=0.013 L=59.0' S=0.0041 '/' Outflow=0.62 cfs 0.076 af

Pond RCVR 2: RCVR 2 Peak Elev=901.12' Inflow=1.14 cfs 0.123 af
8.0" Round Culvert n=0.013 L=72.0' S=0.0100 '/' Outflow=1.14 cfs 0.123 af

Pond RCVR 3: RCVR 3 Peak Elev=901.28' Inflow=0.70 cfs 0.044 af
8.0" Round Culvert n=0.013 L=39.0' S=0.0041 '/' Outflow=0.70 cfs 0.044 af

Pond RCVR 4: RCVR 4 Peak Elev=901.72' Inflow=0.38 cfs 0.023 af
8.0" Round Culvert n=0.013 L=22.0' S=0.0041 '/' Outflow=0.38 cfs 0.023 af

Pond RCVR 5: RCVR 5 Peak Elev=901.63' Inflow=0.60 cfs 0.038 af
8.0" Round Culvert n=0.013 L=89.0' S=0.0040 '/' Outflow=0.60 cfs 0.038 af

Pond SWALE: SWALE Peak Elev=901.39' Storage=1,170 cf Inflow=0.79 cfs 0.069 af
8.0" Round Culvert n=0.013 L=32.0' S=0.0041 '/' Outflow=0.51 cfs 0.058 af

Link POST: Post Development Inflow=1.24 cfs 0.153 af
Primary=1.24 cfs 0.153 af

Total Runoff Area = 0.690 ac Runoff Volume = 0.164 af Average Runoff Depth = 2.85"
43.48% Pervious = 0.300 ac 56.52% Impervious = 0.390 ac

Summary for Subcatchment ATO: Area to Offsite

Runoff = 0.28 cfs @ 12.39 hrs, Volume= 0.030 af, Depth> 1.91"
Routed to Link POST : Post Development

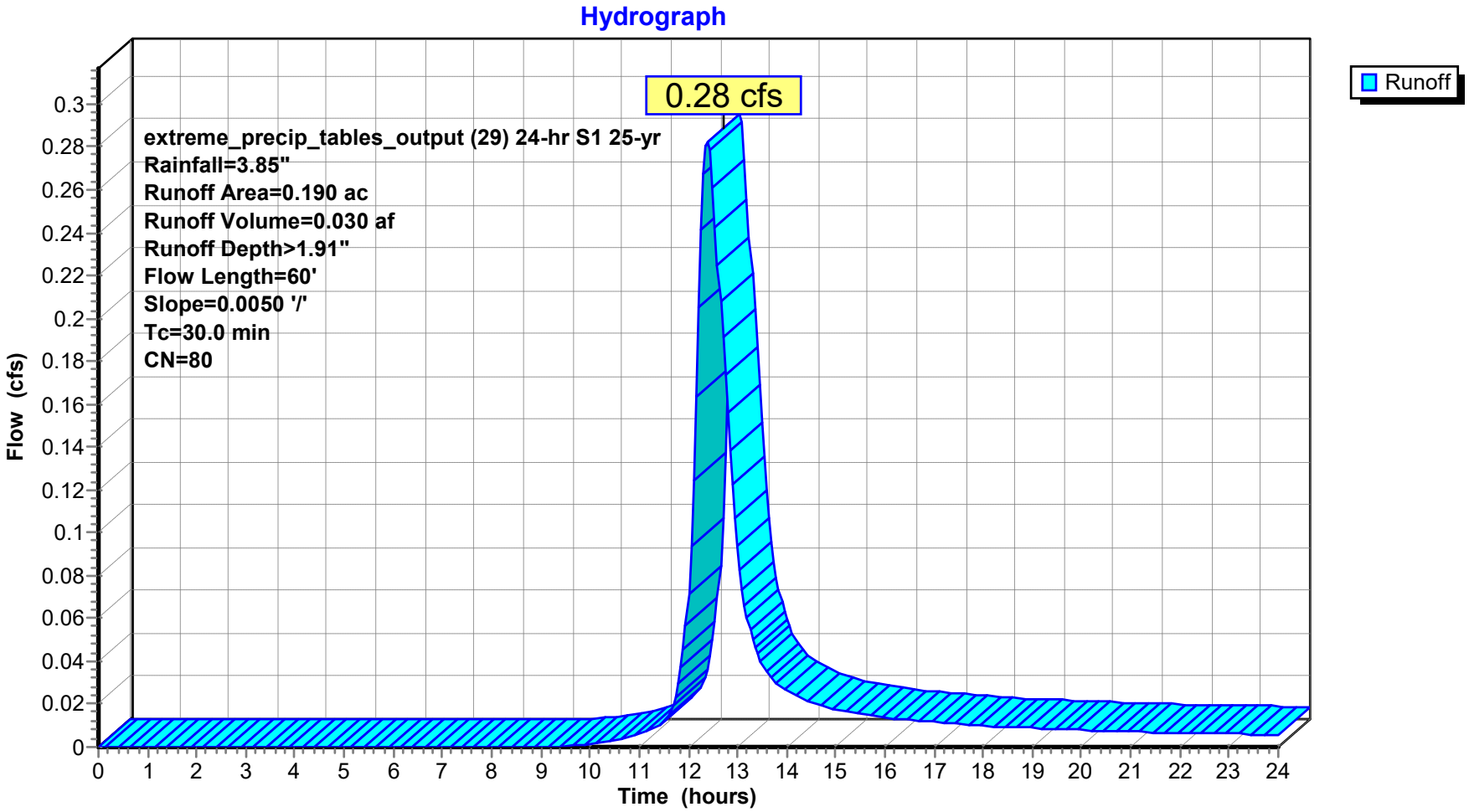
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 25-yr Rainfall=3.85"

Area (ac)	CN	Description
0.190	80	>75% Grass cover, Good, HSG D
0.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.0	60	0.0050	0.03		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.20"



Subcatchment ATO: Area to Offsite



Hydrograph for Subcatchment ATO: Area to Offsite

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.52	0.00	0.00	18.00	3.57	1.70	0.01
0.25	0.01	0.00	0.00	9.25	0.54	0.00	0.00	18.25	3.59	1.71	0.01
0.50	0.02	0.00	0.00	9.50	0.57	0.00	0.00	18.50	3.60	1.72	0.01
0.75	0.03	0.00	0.00	9.75	0.60	0.00	0.00	18.75	3.62	1.73	0.01
1.00	0.04	0.00	0.00	10.00	0.64	0.01	0.00	19.00	3.63	1.74	0.01
1.25	0.05	0.00	0.00	10.25	0.68	0.01	0.00	19.25	3.65	1.75	0.01
1.50	0.06	0.00	0.00	10.50	0.72	0.02	0.00	19.50	3.66	1.76	0.01
1.75	0.07	0.00	0.00	10.75	0.77	0.03	0.00	19.75	3.67	1.77	0.01
2.00	0.08	0.00	0.00	11.00	0.83	0.04	0.01	20.00	3.68	1.78	0.01
2.25	0.09	0.00	0.00	11.25	0.90	0.05	0.01	20.25	3.70	1.79	0.01
2.50	0.10	0.00	0.00	11.50	0.99	0.08	0.01	20.50	3.71	1.80	0.01
2.75	0.11	0.00	0.00	11.75	1.29	0.19	0.02	20.75	3.72	1.81	0.01
3.00	0.12	0.00	0.00	12.00	2.13	0.64	0.07	21.00	3.73	1.82	0.01
3.25	0.13	0.00	0.00	12.25	2.60	0.96	**0.24**	21.25	3.74	1.83	0.01
3.50	0.14	0.00	0.00	12.50	2.88	1.16	**0.26**	21.50	3.75	1.84	0.01
3.75	0.16	0.00	0.00	12.75	2.97	1.22	0.17	21.75	3.76	1.85	0.01
4.00	0.17	0.00	0.00	13.00	3.03	1.28	0.09	22.00	3.77	1.86	0.01
4.25	0.18	0.00	0.00	13.25	3.09	1.32	0.05	22.25	3.78	1.86	0.01
4.50	0.19	0.00	0.00	13.50	3.14	1.35	0.04	22.50	3.79	1.87	0.01
4.75	0.21	0.00	0.00	13.75	3.18	1.39	0.03	22.75	3.80	1.88	0.01
5.00	0.22	0.00	0.00	14.00	3.22	1.41	0.03	23.00	3.81	1.89	0.01
5.25	0.23	0.00	0.00	14.25	3.25	1.44	0.02	23.25	3.82	1.90	0.01
5.50	0.25	0.00	0.00	14.50	3.28	1.47	0.02	23.50	3.83	1.90	0.01
5.75	0.26	0.00	0.00	14.75	3.31	1.49	0.02	23.75	3.84	1.91	0.01
6.00	0.28	0.00	0.00	15.00	3.34	1.51	0.02	24.00	**3.85**	**1.92**	0.01
6.25	0.29	0.00	0.00	15.25	3.36	1.53	0.02				
6.50	0.31	0.00	0.00	15.50	3.39	1.55	0.02				
6.75	0.33	0.00	0.00	15.75	3.41	1.57	0.01				
7.00	0.34	0.00	0.00	16.00	3.43	1.58	0.01				
7.25	0.36	0.00	0.00	16.25	3.45	1.60	0.01				
7.50	0.38	0.00	0.00	16.50	3.47	1.61	0.01				
7.75	0.40	0.00	0.00	16.75	3.49	1.63	0.01				
8.00	0.42	0.00	0.00	17.00	3.51	1.64	0.01				
8.25	0.44	0.00	0.00	17.25	3.53	1.66	0.01				
8.50	0.47	0.00	0.00	17.50	3.54	1.67	0.01				
8.75	0.49	0.00	0.00	17.75	3.56	1.68	0.01				

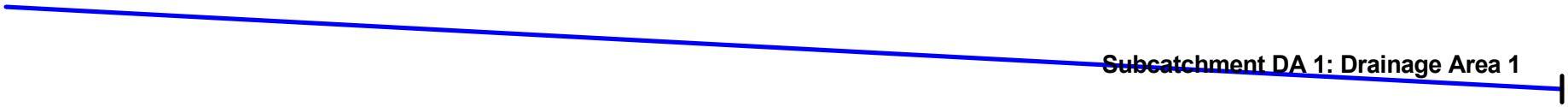
Summary for Subcatchment DA 1: Drainage Area 1

Runoff = 0.35 cfs @ 11.98 hrs, Volume= 0.018 af, Depth> 3.62"
Routed to Pond RCVR 1 : RCVR 1

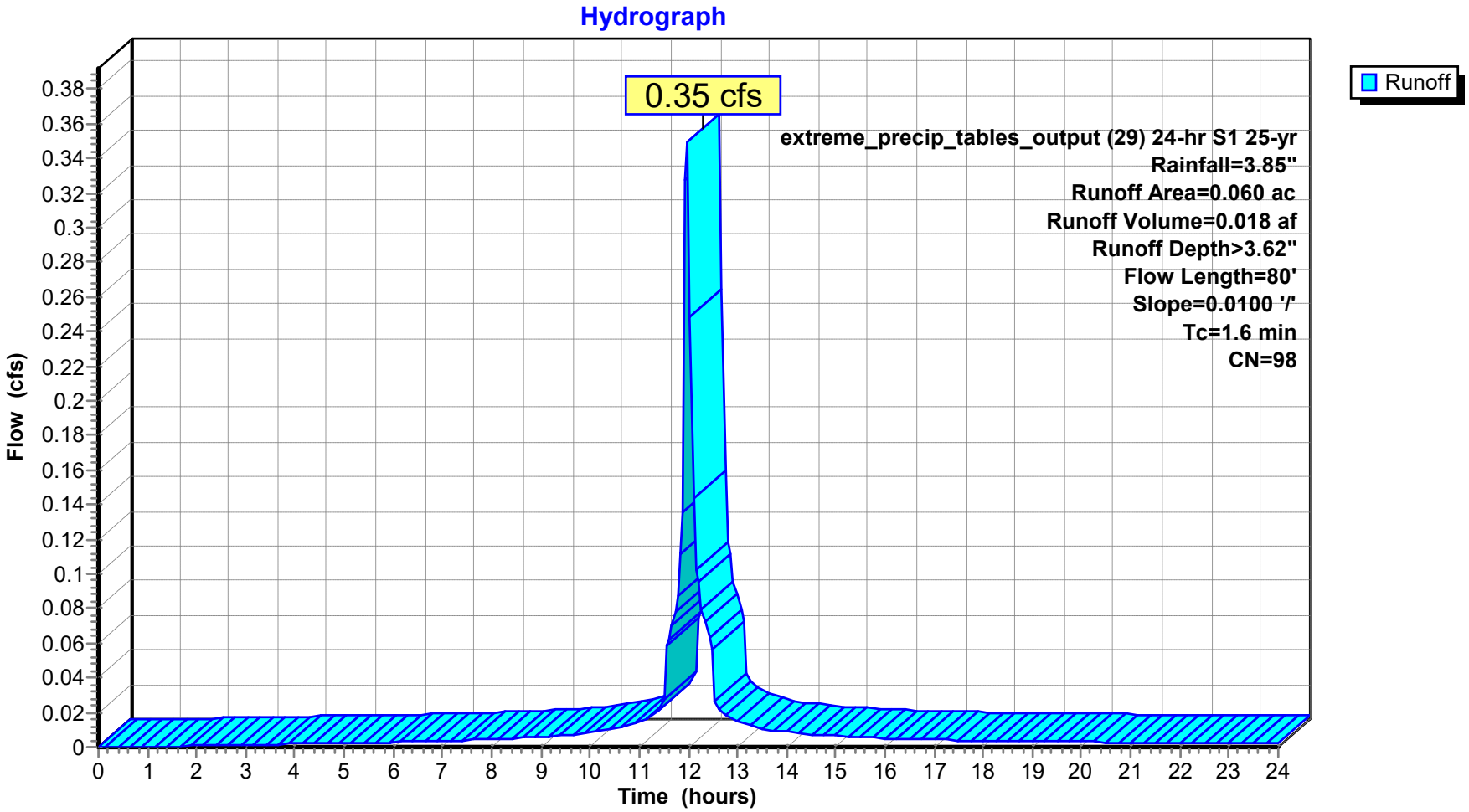
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 25-yr Rainfall=3.85"

Area (ac)	CN	Description
0.060	98	Paved parking, HSG D
0.060		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	80	0.0100	0.83		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"



Subcatchment DA 1: Drainage Area 1



Hydrograph for Subcatchment DA 1: Drainage Area 1

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.52	0.33	0.01	18.00	3.57	3.34	0.00
0.25	0.01	0.00	0.00	9.25	0.54	0.36	0.01	18.25	3.59	3.36	0.00
0.50	0.02	0.00	0.00	9.50	0.57	0.38	0.01	18.50	3.60	3.37	0.00
0.75	0.03	0.00	0.00	9.75	0.60	0.41	0.01	18.75	3.62	3.38	0.00
1.00	0.04	0.00	0.00	10.00	0.64	0.45	0.01	19.00	3.63	3.40	0.00
1.25	0.05	0.00	0.00	10.25	0.68	0.48	0.01	19.25	3.65	3.41	0.00
1.50	0.06	0.00	0.00	10.50	0.72	0.52	0.01	19.50	3.66	3.42	0.00
1.75	0.07	0.00	0.00	10.75	0.77	0.57	0.01	19.75	3.67	3.44	0.00
2.00	0.08	0.01	0.00	11.00	0.83	0.62	0.01	20.00	3.68	3.45	0.00
2.25	0.09	0.01	0.00	11.25	0.90	0.69	0.02	20.25	3.70	3.46	0.00
2.50	0.10	0.01	0.00	11.50	0.99	0.78	0.03	20.50	3.71	3.47	0.00
2.75	0.11	0.02	0.00	11.75	1.29	1.07	0.08	20.75	3.72	3.48	0.00
3.00	0.12	0.02	0.00	12.00	2.13	1.90	**0.33**	21.00	3.73	3.50	0.00
3.25	0.13	0.03	0.00	12.25	2.60	2.37	0.08	21.25	3.74	3.51	0.00
3.50	0.14	0.03	0.00	12.50	2.88	2.65	0.06	21.50	3.75	3.52	0.00
3.75	0.16	0.04	0.00	12.75	2.97	2.73	0.02	21.75	3.76	3.53	0.00
4.00	0.17	0.05	0.00	13.00	3.03	2.80	0.02	22.00	3.77	3.54	0.00
4.25	0.18	0.06	0.00	13.25	3.09	2.86	0.01	22.25	3.78	3.55	0.00
4.50	0.19	0.06	0.00	13.50	3.14	2.90	0.01	22.50	3.79	3.56	0.00
4.75	0.21	0.07	0.00	13.75	3.18	2.95	0.01	22.75	3.80	3.57	0.00
5.00	0.22	0.08	0.00	14.00	3.22	2.98	0.01	23.00	3.81	3.58	0.00
5.25	0.23	0.09	0.00	14.25	3.25	3.02	0.01	23.25	3.82	3.59	0.00
5.50	0.25	0.10	0.00	14.50	3.28	3.05	0.01	23.50	3.83	3.60	0.00
5.75	0.26	0.12	0.00	14.75	3.31	3.08	0.01	23.75	3.84	3.61	0.00
6.00	0.28	0.13	0.00	15.00	3.34	3.11	0.01	24.00	**3.85**	**3.62**	0.00
6.25	0.29	0.14	0.00	15.25	3.36	3.13	0.01				
6.50	0.31	0.15	0.00	15.50	3.39	3.15	0.01				
6.75	0.33	0.17	0.00	15.75	3.41	3.18	0.01				
7.00	0.34	0.18	0.00	16.00	3.43	3.20	0.01				
7.25	0.36	0.20	0.00	16.25	3.45	3.22	0.00				
7.50	0.38	0.21	0.00	16.50	3.47	3.24	0.00				
7.75	0.40	0.23	0.00	16.75	3.49	3.26	0.00				
8.00	0.42	0.25	0.00	17.00	3.51	3.27	0.00				
8.25	0.44	0.27	0.00	17.25	3.53	3.29	0.00				
8.50	0.47	0.29	0.01	17.50	3.54	3.31	0.00				
8.75	0.49	0.31	0.01	17.75	3.56	3.32	0.00				

Summary for Subcatchment DA 2: Drainage Area 2

Runoff = 0.06 cfs @ 11.96 hrs, Volume= 0.003 af, Depth> 3.62"
Routed to Pond RCVR 2 : RCVR 2

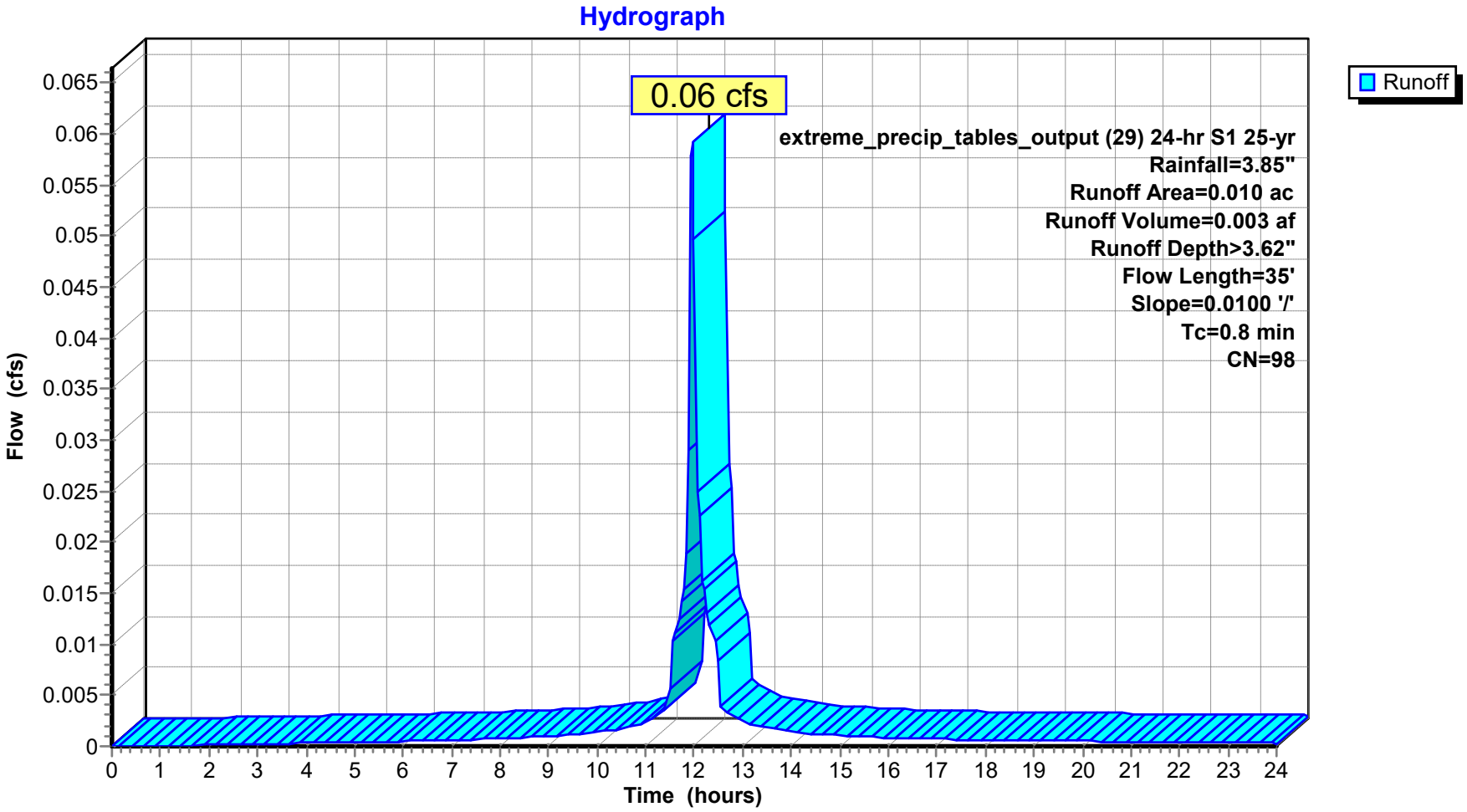
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 25-yr Rainfall=3.85"

Area (ac)	CN	Description
0.010	98	Paved parking, HSG D
0.010		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	35	0.0100	0.70		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"



Subcatchment DA 2: Drainage Area 2



Hydrograph for Subcatchment DA 2: Drainage Area 2

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.52	0.33	0.00	18.00	3.57	3.34	0.00
0.25	0.01	0.00	0.00	9.25	0.54	0.36	0.00	18.25	3.59	3.36	0.00
0.50	0.02	0.00	0.00	9.50	0.57	0.38	0.00	18.50	3.60	3.37	0.00
0.75	0.03	0.00	0.00	9.75	0.60	0.41	0.00	18.75	3.62	3.38	0.00
1.00	0.04	0.00	0.00	10.00	0.64	0.45	0.00	19.00	3.63	3.40	0.00
1.25	0.05	0.00	0.00	10.25	0.68	0.48	0.00	19.25	3.65	3.41	0.00
1.50	0.06	0.00	0.00	10.50	0.72	0.52	0.00	19.50	3.66	3.42	0.00
1.75	0.07	0.00	0.00	10.75	0.77	0.57	0.00	19.75	3.67	3.44	0.00
2.00	0.08	0.01	0.00	11.00	0.83	0.62	0.00	20.00	3.68	3.45	0.00
2.25	0.09	0.01	0.00	11.25	0.90	0.69	0.00	20.25	3.70	3.46	0.00
2.50	0.10	0.01	0.00	11.50	0.99	0.78	0.01	20.50	3.71	3.47	0.00
2.75	0.11	0.02	0.00	11.75	1.29	1.07	**0.01**	20.75	3.72	3.48	0.00
3.00	0.12	0.02	0.00	12.00	2.13	1.90	**0.05**	21.00	3.73	3.50	0.00
3.25	0.13	0.03	0.00	12.25	2.60	2.37	0.01	21.25	3.74	3.51	0.00
3.50	0.14	0.03	0.00	12.50	2.88	2.65	0.01	21.50	3.75	3.52	0.00
3.75	0.16	0.04	0.00	12.75	2.97	2.73	0.00	21.75	3.76	3.53	0.00
4.00	0.17	0.05	0.00	13.00	3.03	2.80	0.00	22.00	3.77	3.54	0.00
4.25	0.18	0.06	0.00	13.25	3.09	2.86	0.00	22.25	3.78	3.55	0.00
4.50	0.19	0.06	0.00	13.50	3.14	2.90	0.00	22.50	3.79	3.56	0.00
4.75	0.21	0.07	0.00	13.75	3.18	2.95	0.00	22.75	3.80	3.57	0.00
5.00	0.22	0.08	0.00	14.00	3.22	2.98	0.00	23.00	3.81	3.58	0.00
5.25	0.23	0.09	0.00	14.25	3.25	3.02	0.00	23.25	3.82	3.59	0.00
5.50	0.25	0.10	0.00	14.50	3.28	3.05	0.00	23.50	3.83	3.60	0.00
5.75	0.26	0.12	0.00	14.75	3.31	3.08	0.00	23.75	3.84	3.61	0.00
6.00	0.28	0.13	0.00	15.00	3.34	3.11	0.00	24.00	**3.85**	**3.62**	0.00
6.25	0.29	0.14	0.00	15.25	3.36	3.13	0.00				
6.50	0.31	0.15	0.00	15.50	3.39	3.15	0.00				
6.75	0.33	0.17	0.00	15.75	3.41	3.18	0.00				
7.00	0.34	0.18	0.00	16.00	3.43	3.20	0.00				
7.25	0.36	0.20	0.00	16.25	3.45	3.22	0.00				
7.50	0.38	0.21	0.00	16.50	3.47	3.24	0.00				
7.75	0.40	0.23	0.00	16.75	3.49	3.26	0.00				
8.00	0.42	0.25	0.00	17.00	3.51	3.27	0.00				
8.25	0.44	0.27	0.00	17.25	3.53	3.29	0.00				
8.50	0.47	0.29	0.00	17.50	3.54	3.31	0.00				
8.75	0.49	0.31	0.00	17.75	3.56	3.32	0.00				

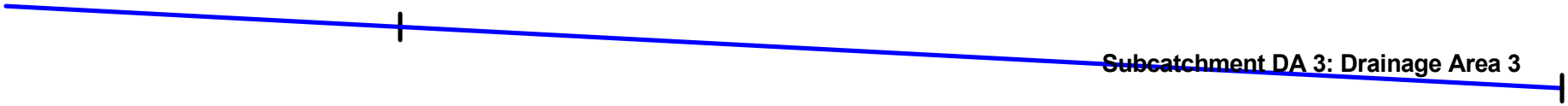
Summary for Subcatchment DA 3: Drainage Area 3

Runoff = 0.70 cfs @ 12.05 hrs, Volume= 0.044 af, Depth> 3.50"
Routed to Pond RCVR 3 : RCVR 3

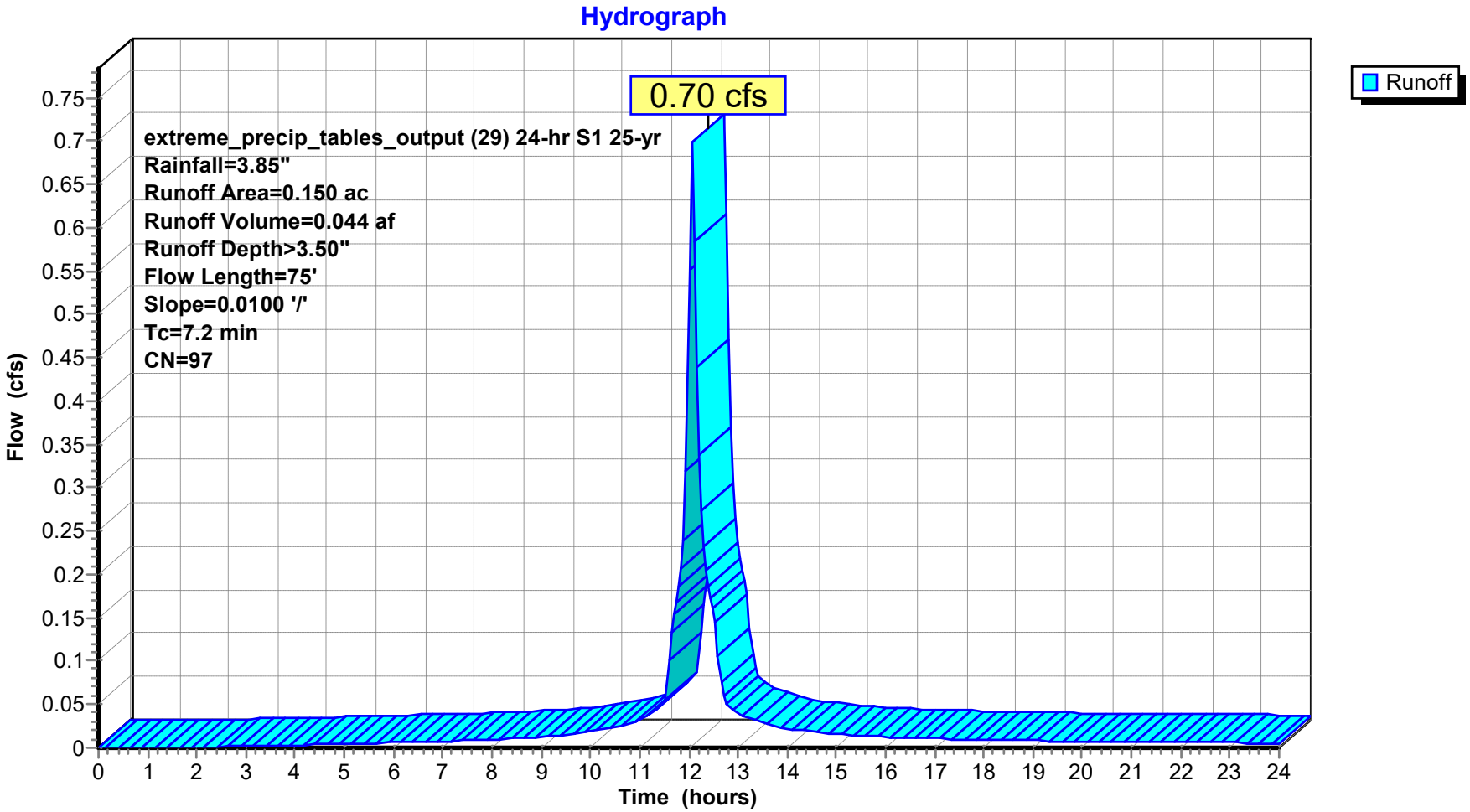
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 25-yr Rainfall=3.85"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.010	80	>75% Grass cover, Good, HSG D
0.150	97	Weighted Average
0.010		6.67% Pervious Area
0.140		93.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	19	0.0100	0.05		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"
1.2	56	0.0100	0.77		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"
7.2	75	Total			



Subcatchment DA 3: Drainage Area 3



Hydrograph for Subcatchment DA 3: Drainage Area 3

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.52	0.27	0.01	18.00	3.57	3.23	0.01
0.25	0.01	0.00	0.00	9.25	0.54	0.29	0.01	18.25	3.59	3.24	0.01
0.50	0.02	0.00	0.00	9.50	0.57	0.32	0.02	18.50	3.60	3.26	0.01
0.75	0.03	0.00	0.00	9.75	0.60	0.35	0.02	18.75	3.62	3.27	0.01
1.00	0.04	0.00	0.00	10.00	0.64	0.38	0.02	19.00	3.63	3.29	0.01
1.25	0.05	0.00	0.00	10.25	0.68	0.41	0.02	19.25	3.65	3.30	0.01
1.50	0.06	0.00	0.00	10.50	0.72	0.45	0.02	19.50	3.66	3.31	0.01
1.75	0.07	0.00	0.00	10.75	0.77	0.49	0.03	19.75	3.67	3.32	0.01
2.00	0.08	0.00	0.00	11.00	0.83	0.54	0.03	20.00	3.68	3.34	0.01
2.25	0.09	0.00	0.00	11.25	0.90	0.61	0.04	20.25	3.70	3.35	0.01
2.50	0.10	0.00	0.00	11.50	0.99	0.70	0.05	20.50	3.71	3.36	0.01
2.75	0.11	0.01	0.00	11.75	1.29	0.98	0.17	20.75	3.72	3.37	0.01
3.00	0.12	0.01	0.00	12.00	2.13	1.80	**0.55**	21.00	3.73	3.38	0.01
3.25	0.13	0.01	0.00	12.25	2.60	2.27	**0.27**	21.25	3.74	3.39	0.01
3.50	0.14	0.02	0.00	12.50	2.88	2.54	0.16	21.50	3.75	3.40	0.01
3.75	0.16	0.02	0.00	12.75	2.97	2.62	0.05	21.75	3.76	3.42	0.01
4.00	0.17	0.03	0.00	13.00	3.03	2.69	0.04	22.00	3.77	3.43	0.01
4.25	0.18	0.03	0.00	13.25	3.09	2.75	0.03	22.25	3.78	3.44	0.01
4.50	0.19	0.04	0.00	13.50	3.14	2.79	0.03	22.50	3.79	3.45	0.01
4.75	0.21	0.05	0.00	13.75	3.18	2.84	0.03	22.75	3.80	3.46	0.01
5.00	0.22	0.05	0.00	14.00	3.22	2.87	0.02	23.00	3.81	3.47	0.01
5.25	0.23	0.06	0.00	14.25	3.25	2.91	0.02	23.25	3.82	3.47	0.01
5.50	0.25	0.07	0.01	14.50	3.28	2.94	0.02	23.50	3.83	3.48	0.01
5.75	0.26	0.08	0.01	14.75	3.31	2.97	0.02	23.75	3.84	3.49	0.01
6.00	0.28	0.09	0.01	15.00	3.34	2.99	0.02	24.00	**3.85**	**3.50**	0.01
6.25	0.29	0.10	0.01	15.25	3.36	3.02	0.02				
6.50	0.31	0.11	0.01	15.50	3.39	3.04	0.01				
6.75	0.33	0.12	0.01	15.75	3.41	3.06	0.01				
7.00	0.34	0.13	0.01	16.00	3.43	3.09	0.01				
7.25	0.36	0.15	0.01	16.25	3.45	3.11	0.01				
7.50	0.38	0.16	0.01	16.50	3.47	3.13	0.01				
7.75	0.40	0.18	0.01	16.75	3.49	3.14	0.01				
8.00	0.42	0.19	0.01	17.00	3.51	3.16	0.01				
8.25	0.44	0.21	0.01	17.25	3.53	3.18	0.01				
8.50	0.47	0.23	0.01	17.50	3.54	3.20	0.01				
8.75	0.49	0.25	0.01	17.75	3.56	3.21	0.01				

Summary for Subcatchment DA 4: Drainage Area 4

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.023 af, Depth> 3.39"
Routed to Pond RCVR 4 : RCVR 4

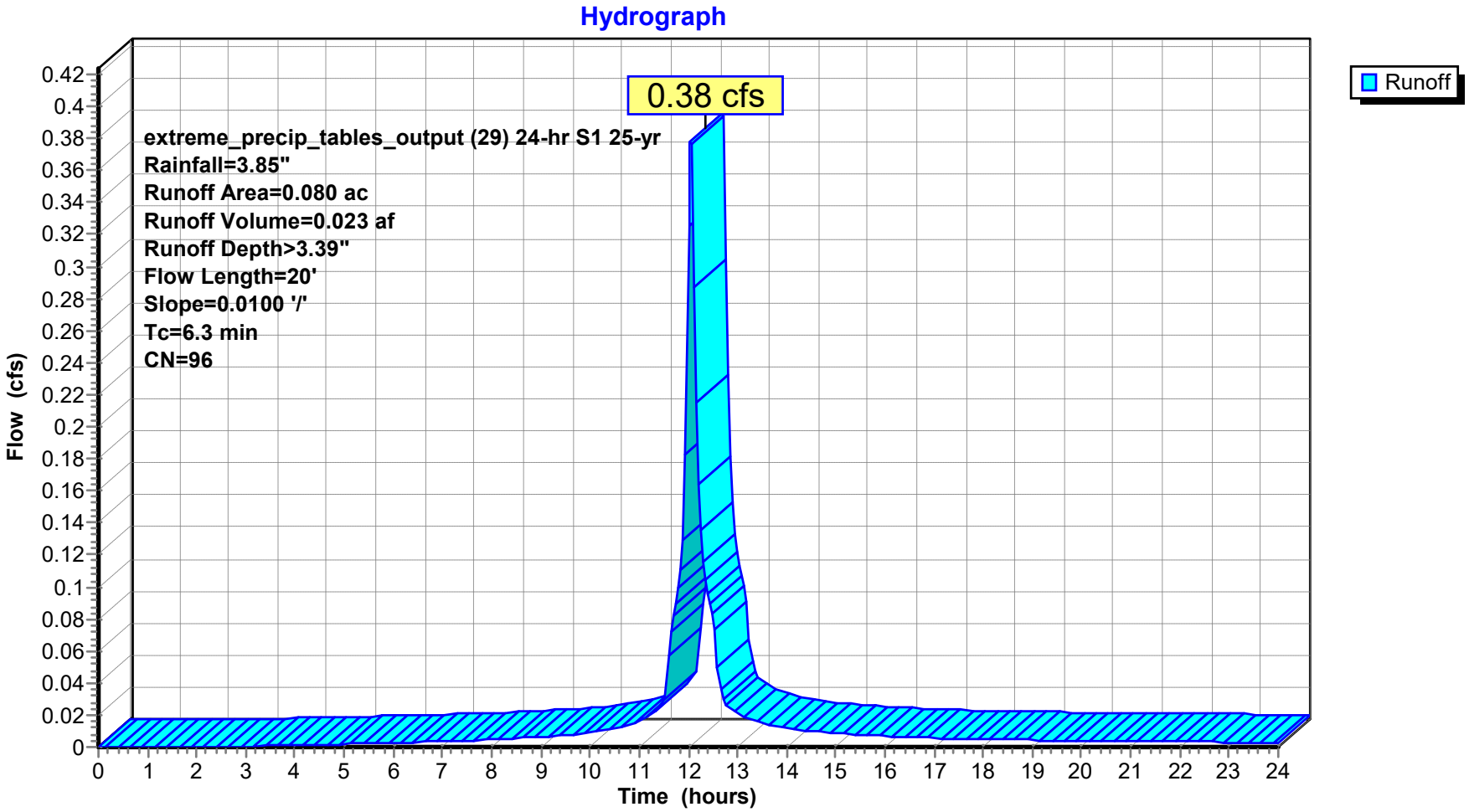
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 25-yr Rainfall=3.85"

Area (ac)	CN	Description
0.070	98	Paved parking, HSG D
0.010	80	>75% Grass cover, Good, HSG D
0.080	96	Weighted Average
0.010		12.50% Pervious Area
0.070		87.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	20	0.0100	0.05		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment DA 4: Drainage Area 4



Hydrograph for Subcatchment DA 4: Drainage Area 4

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.52	0.22	0.01	18.00	3.57	3.12	0.00
0.25	0.01	0.00	0.00	9.25	0.54	0.24	0.01	18.25	3.59	3.13	0.00
0.50	0.02	0.00	0.00	9.50	0.57	0.26	0.01	18.50	3.60	3.15	0.00
0.75	0.03	0.00	0.00	9.75	0.60	0.29	0.01	18.75	3.62	3.16	0.00
1.00	0.04	0.00	0.00	10.00	0.64	0.32	0.01	19.00	3.63	3.18	0.00
1.25	0.05	0.00	0.00	10.25	0.68	0.35	0.01	19.25	3.65	3.19	0.00
1.50	0.06	0.00	0.00	10.50	0.72	0.38	0.01	19.50	3.66	3.20	0.00
1.75	0.07	0.00	0.00	10.75	0.77	0.43	0.01	19.75	3.67	3.21	0.00
2.00	0.08	0.00	0.00	11.00	0.83	0.48	0.02	20.00	3.68	3.23	0.00
2.25	0.09	0.00	0.00	11.25	0.90	0.54	0.02	20.25	3.70	3.24	0.00
2.50	0.10	0.00	0.00	11.50	0.99	0.62	0.03	20.50	3.71	3.25	0.00
2.75	0.11	0.00	0.00	11.75	1.29	0.89	0.09	20.75	3.72	3.26	0.00
3.00	0.12	0.00	0.00	12.00	2.13	1.70	**0.33**	21.00	3.73	3.27	0.00
3.25	0.13	0.01	0.00	12.25	2.60	2.16	**0.14**	21.25	3.74	3.28	0.00
3.50	0.14	0.01	0.00	12.50	2.88	2.43	0.08	21.50	3.75	3.29	0.00
3.75	0.16	0.01	0.00	12.75	2.97	2.52	0.03	21.75	3.76	3.31	0.00
4.00	0.17	0.01	0.00	13.00	3.03	2.59	0.02	22.00	3.77	3.32	0.00
4.25	0.18	0.02	0.00	13.25	3.09	2.64	0.02	22.25	3.78	3.33	0.00
4.50	0.19	0.02	0.00	13.50	3.14	2.69	0.01	22.50	3.79	3.34	0.00
4.75	0.21	0.03	0.00	13.75	3.18	2.73	0.01	22.75	3.80	3.35	0.00
5.00	0.22	0.03	0.00	14.00	3.22	2.77	0.01	23.00	3.81	3.35	0.00
5.25	0.23	0.04	0.00	14.25	3.25	2.80	0.01	23.25	3.82	3.36	0.00
5.50	0.25	0.05	0.00	14.50	3.28	2.83	0.01	23.50	3.83	3.37	0.00
5.75	0.26	0.05	0.00	14.75	3.31	2.86	0.01	23.75	3.84	3.38	0.00
6.00	0.28	0.06	0.00	15.00	3.34	2.89	0.01	24.00	**3.85**	**3.39**	0.00
6.25	0.29	0.07	0.00	15.25	3.36	2.91	0.01				
6.50	0.31	0.08	0.00	15.50	3.39	2.93	0.01				
6.75	0.33	0.09	0.00	15.75	3.41	2.96	0.01				
7.00	0.34	0.10	0.00	16.00	3.43	2.98	0.01				
7.25	0.36	0.11	0.00	16.25	3.45	3.00	0.01				
7.50	0.38	0.12	0.00	16.50	3.47	3.02	0.01				
7.75	0.40	0.14	0.00	16.75	3.49	3.04	0.01				
8.00	0.42	0.15	0.00	17.00	3.51	3.05	0.01				
8.25	0.44	0.17	0.00	17.25	3.53	3.07	0.01				
8.50	0.47	0.18	0.01	17.50	3.54	3.09	0.01				
8.75	0.49	0.20	0.01	17.75	3.56	3.10	0.01				

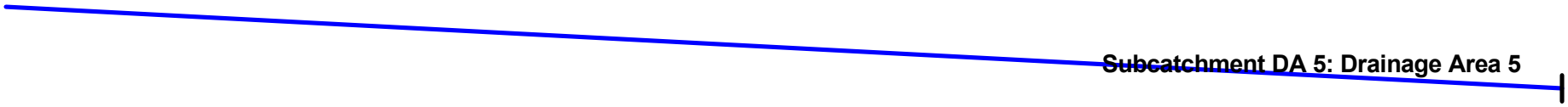
Summary for Subcatchment DA 5: Drainage Area 5

Runoff = 0.29 cfs @ 11.98 hrs, Volume= 0.015 af, Depth> 3.62"
Routed to Pond RCVR 5 : RCVR 5

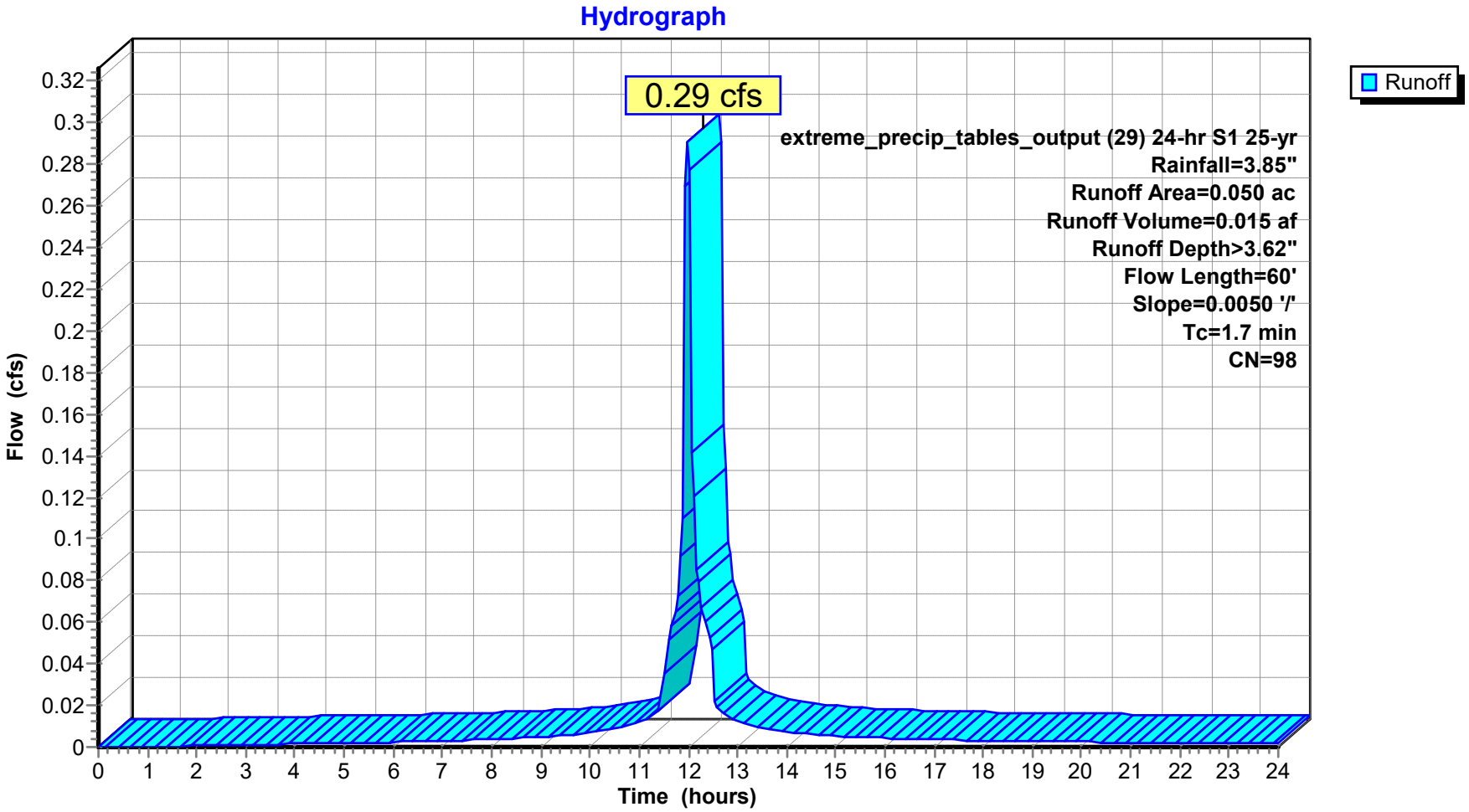
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 25-yr Rainfall=3.85"

Area (ac)	CN	Description
0.050	98	Paved parking, HSG D
0.050		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	60	0.0050	0.59		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"



Subcatchment DA 5: Drainage Area 5



Hydrograph for Subcatchment DA 5: Drainage Area 5

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.52	0.33	0.00	18.00	3.57	3.34	0.00
0.25	0.01	0.00	0.00	9.25	0.54	0.36	0.01	18.25	3.59	3.36	0.00
0.50	0.02	0.00	0.00	9.50	0.57	0.38	0.01	18.50	3.60	3.37	0.00
0.75	0.03	0.00	0.00	9.75	0.60	0.41	0.01	18.75	3.62	3.38	0.00
1.00	0.04	0.00	0.00	10.00	0.64	0.45	0.01	19.00	3.63	3.40	0.00
1.25	0.05	0.00	0.00	10.25	0.68	0.48	0.01	19.25	3.65	3.41	0.00
1.50	0.06	0.00	0.00	10.50	0.72	0.52	0.01	19.50	3.66	3.42	0.00
1.75	0.07	0.00	0.00	10.75	0.77	0.57	0.01	19.75	3.67	3.44	0.00
2.00	0.08	0.01	0.00	11.00	0.83	0.62	0.01	20.00	3.68	3.45	0.00
2.25	0.09	0.01	0.00	11.25	0.90	0.69	0.02	20.25	3.70	3.46	0.00
2.50	0.10	0.01	0.00	11.50	0.99	0.78	0.02	20.50	3.71	3.47	0.00
2.75	0.11	0.02	0.00	11.75	1.29	1.07	0.07	20.75	3.72	3.48	0.00
3.00	0.12	0.02	0.00	12.00	2.13	1.90	**0.28**	21.00	3.73	3.50	0.00
3.25	0.13	0.03	0.00	12.25	2.60	2.37	0.07	21.25	3.74	3.51	0.00
3.50	0.14	0.03	0.00	12.50	2.88	2.65	0.05	21.50	3.75	3.52	0.00
3.75	0.16	0.04	0.00	12.75	2.97	2.73	0.02	21.75	3.76	3.53	0.00
4.00	0.17	0.05	0.00	13.00	3.03	2.80	0.01	22.00	3.77	3.54	0.00
4.25	0.18	0.06	0.00	13.25	3.09	2.86	0.01	22.25	3.78	3.55	0.00
4.50	0.19	0.06	0.00	13.50	3.14	2.90	0.01	22.50	3.79	3.56	0.00
4.75	0.21	0.07	0.00	13.75	3.18	2.95	0.01	22.75	3.80	3.57	0.00
5.00	0.22	0.08	0.00	14.00	3.22	2.98	0.01	23.00	3.81	3.58	0.00
5.25	0.23	0.09	0.00	14.25	3.25	3.02	0.01	23.25	3.82	3.59	0.00
5.50	0.25	0.10	0.00	14.50	3.28	3.05	0.01	23.50	3.83	3.60	0.00
5.75	0.26	0.12	0.00	14.75	3.31	3.08	0.01	23.75	3.84	3.61	0.00
6.00	0.28	0.13	0.00	15.00	3.34	3.11	0.01	24.00	**3.85**	**3.62**	0.00
6.25	0.29	0.14	0.00	15.25	3.36	3.13	0.00				
6.50	0.31	0.15	0.00	15.50	3.39	3.15	0.00				
6.75	0.33	0.17	0.00	15.75	3.41	3.18	0.00				
7.00	0.34	0.18	0.00	16.00	3.43	3.20	0.00				
7.25	0.36	0.20	0.00	16.25	3.45	3.22	0.00				
7.50	0.38	0.21	0.00	16.50	3.47	3.24	0.00				
7.75	0.40	0.23	0.00	16.75	3.49	3.26	0.00				
8.00	0.42	0.25	0.00	17.00	3.51	3.27	0.00				
8.25	0.44	0.27	0.00	17.25	3.53	3.29	0.00				
8.50	0.47	0.29	0.00	17.50	3.54	3.31	0.00				
8.75	0.49	0.31	0.00	17.75	3.56	3.32	0.00				

Summary for Subcatchment DA 6: Drainage Area 6

Runoff = 0.41 cfs @ 12.16 hrs, Volume= 0.031 af, Depth> 2.49"
Routed to Pond SWALE : SWALE

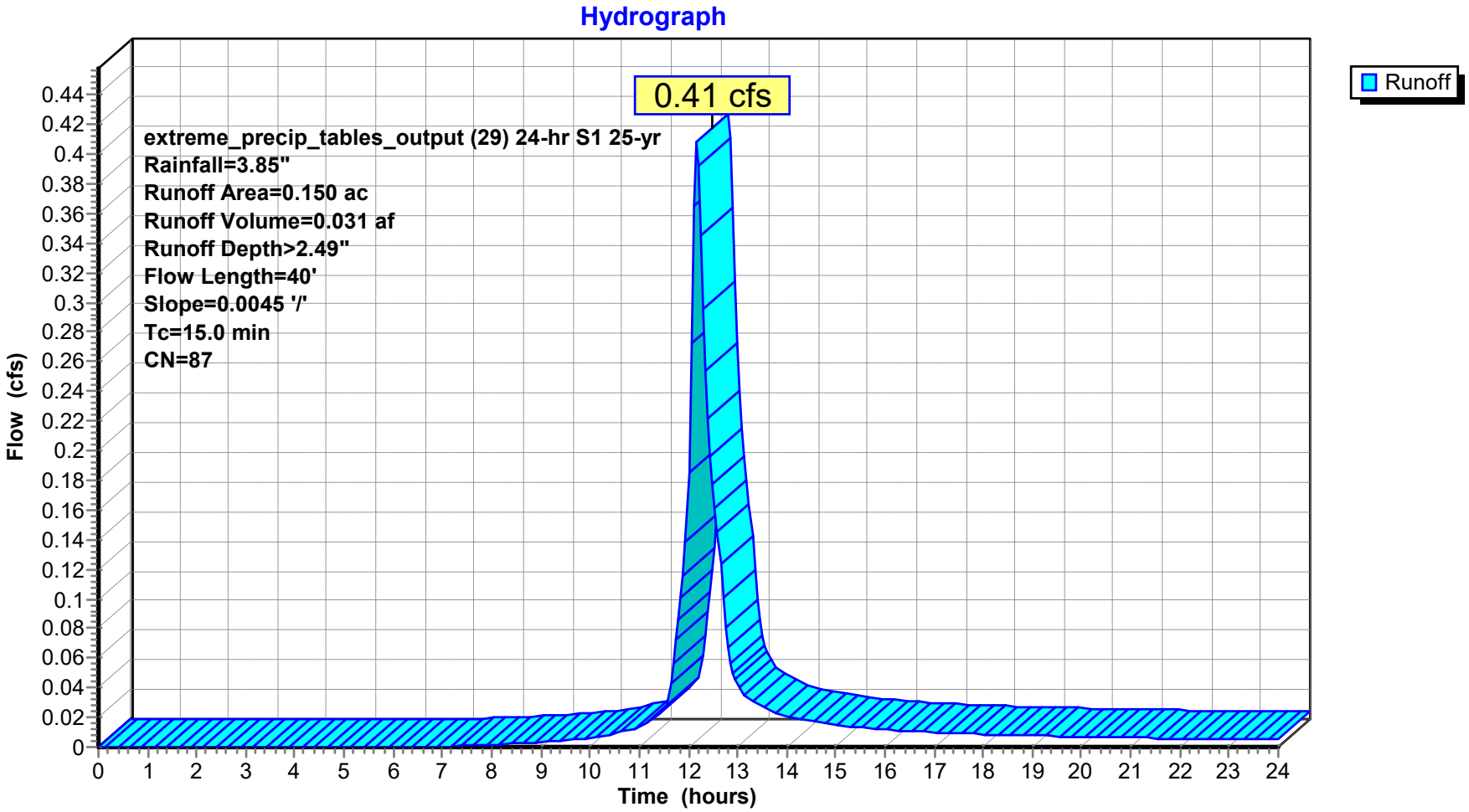
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 25-yr Rainfall=3.85"

Area (ac)	CN	Description
0.060	98	Paved parking, HSG D
0.090	80	>75% Grass cover, Good, HSG D
0.150	87	Weighted Average
0.090		60.00% Pervious Area
0.060		40.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0	40	0.0045	0.04		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment DA 6: Drainage Area 6



Hydrograph for Subcatchment DA 6: Drainage Area 6

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.52	0.03	0.00	18.00	3.57	2.25	0.01
0.25	0.01	0.00	0.00	9.25	0.54	0.03	0.00	18.25	3.59	2.26	0.01
0.50	0.02	0.00	0.00	9.50	0.57	0.04	0.00	18.50	3.60	2.28	0.01
0.75	0.03	0.00	0.00	9.75	0.60	0.05	0.01	18.75	3.62	2.29	0.01
1.00	0.04	0.00	0.00	10.00	0.64	0.06	0.01	19.00	3.63	2.30	0.01
1.25	0.05	0.00	0.00	10.25	0.68	0.08	0.01	19.25	3.65	2.31	0.01
1.50	0.06	0.00	0.00	10.50	0.72	0.09	0.01	19.50	3.66	2.33	0.01
1.75	0.07	0.00	0.00	10.75	0.77	0.11	0.01	19.75	3.67	2.34	0.01
2.00	0.08	0.00	0.00	11.00	0.83	0.14	0.01	20.00	3.68	2.35	0.01
2.25	0.09	0.00	0.00	11.25	0.90	0.17	0.02	20.25	3.70	2.36	0.01
2.50	0.10	0.00	0.00	11.50	0.99	0.22	0.02	20.50	3.71	2.37	0.01
2.75	0.11	0.00	0.00	11.75	1.29	0.39	0.07	20.75	3.72	2.38	0.01
3.00	0.12	0.00	0.00	12.00	2.13	1.01	**0.19**	21.00	3.73	2.39	0.01
3.25	0.13	0.00	0.00	12.25	2.60	1.40	**0.34**	21.25	3.74	2.40	0.01
3.50	0.14	0.00	0.00	12.50	2.88	1.63	0.18	21.50	3.75	2.41	0.01
3.75	0.16	0.00	0.00	12.75	2.97	1.71	0.08	21.75	3.76	2.42	0.01
4.00	0.17	0.00	0.00	13.00	3.03	1.77	0.04	22.00	3.77	2.43	0.01
4.25	0.18	0.00	0.00	13.25	3.09	1.82	0.03	22.25	3.78	2.44	0.01
4.50	0.19	0.00	0.00	13.50	3.14	1.86	0.03	22.50	3.79	2.45	0.01
4.75	0.21	0.00	0.00	13.75	3.18	1.90	0.02	22.75	3.80	2.46	0.01
5.00	0.22	0.00	0.00	14.00	3.22	1.93	0.02	23.00	3.81	2.47	0.01
5.25	0.23	0.00	0.00	14.25	3.25	1.96	0.02	23.25	3.82	2.47	0.01
5.50	0.25	0.00	0.00	14.50	3.28	1.99	0.02	23.50	3.83	2.48	0.01
5.75	0.26	0.00	0.00	14.75	3.31	2.01	0.02	23.75	3.84	2.49	0.01
6.00	0.28	0.00	0.00	15.00	3.34	2.04	0.02	24.00	**3.85**	**2.50**	0.01
6.25	0.29	0.00	0.00	15.25	3.36	2.06	0.01				
6.50	0.31	0.00	0.00	15.50	3.39	2.08	0.01				
6.75	0.33	0.00	0.00	15.75	3.41	2.10	0.01				
7.00	0.34	0.00	0.00	16.00	3.43	2.12	0.01				
7.25	0.36	0.00	0.00	16.25	3.45	2.14	0.01				
7.50	0.38	0.00	0.00	16.50	3.47	2.16	0.01				
7.75	0.40	0.01	0.00	16.75	3.49	2.17	0.01				
8.00	0.42	0.01	0.00	17.00	3.51	2.19	0.01				
8.25	0.44	0.01	0.00	17.25	3.53	2.21	0.01				
8.50	0.47	0.02	0.00	17.50	3.54	2.22	0.01				
8.75	0.49	0.02	0.00	17.75	3.56	2.23	0.01				

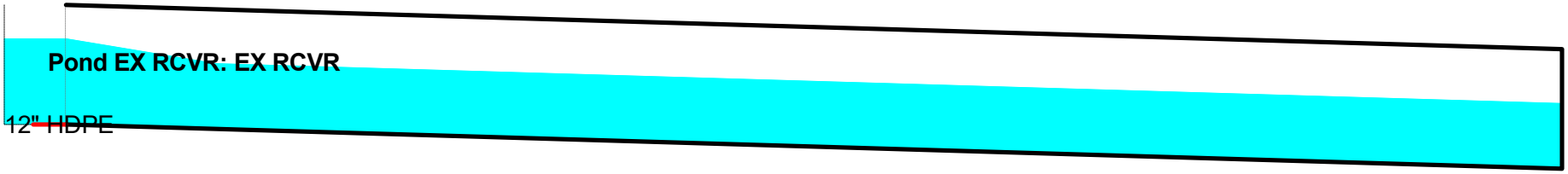
Summary for Pond EX RCVR: EX RCVR

Inflow Area = 0.500 ac, 78.00% Impervious, Inflow Depth > 2.94" for 25-yr event
Inflow = 1.14 cfs @ 12.06 hrs, Volume= 0.123 af
Outflow = 1.14 cfs @ 12.06 hrs, Volume= 0.123 af, Atten= 0%, Lag= 0.0 min
Primary = 1.14 cfs @ 12.06 hrs, Volume= 0.123 af
Routed to Link POST : Post Development

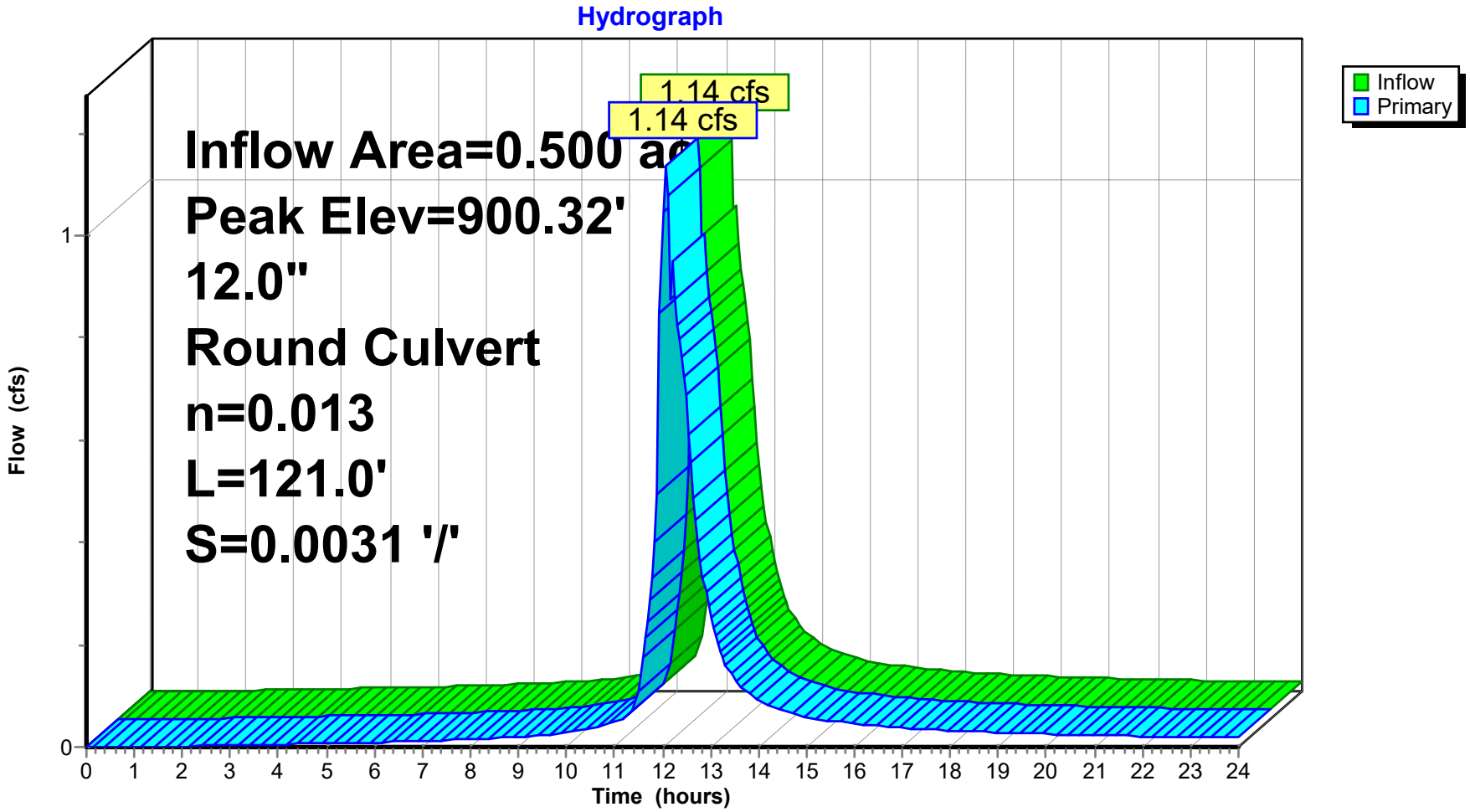
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 900.32' @ 12.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	899.60'	**12.0" Round 12" HDPE** L= 121.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 899.60' / 899.23' S= 0.0031 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

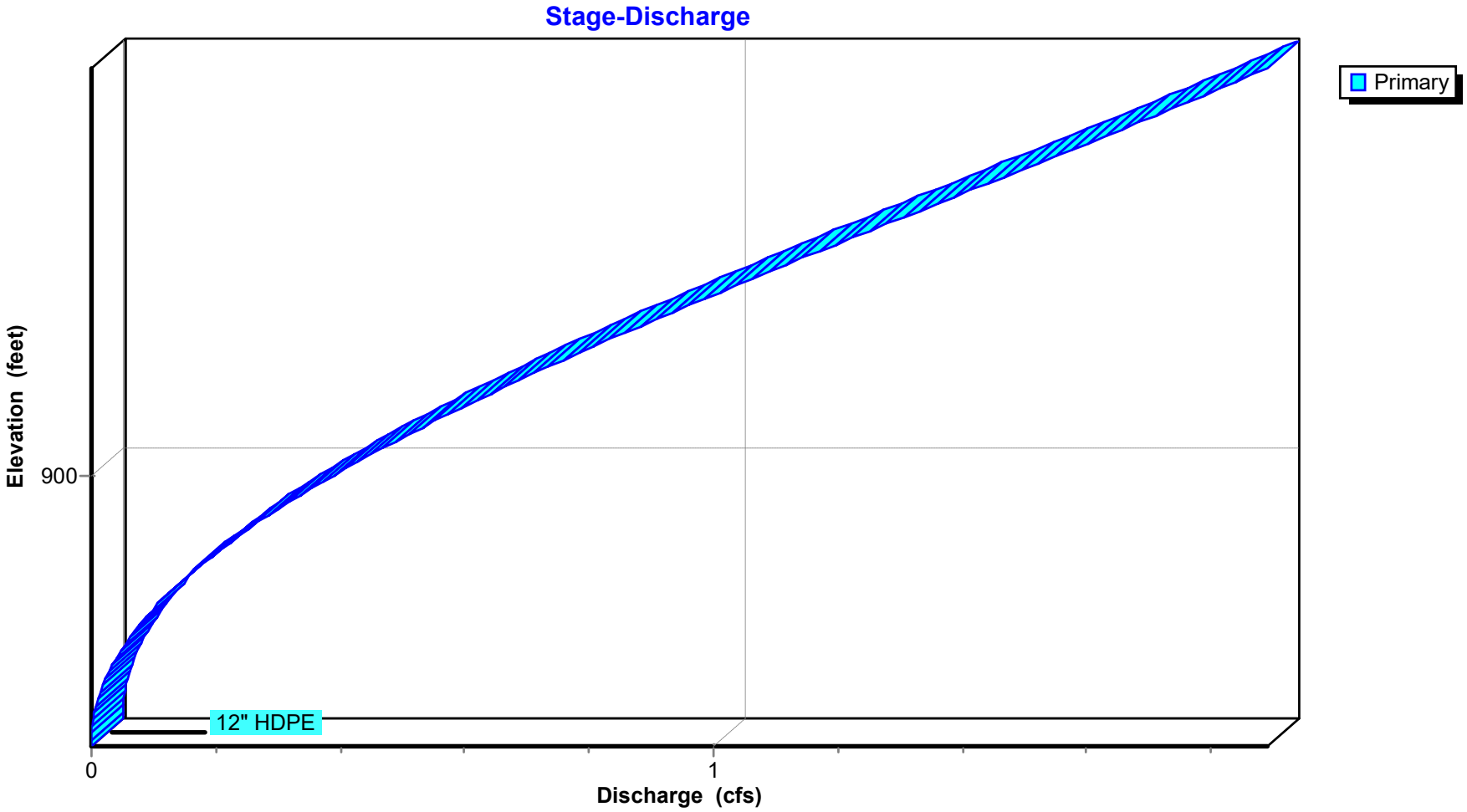
Primary OutFlow Max=1.13 cfs @ 12.06 hrs HW=900.31' TW=0.00' (Dynamic Tailwater)
└**1=12" HDPE** (Barrel Controls 1.13 cfs @ 2.64 fps)



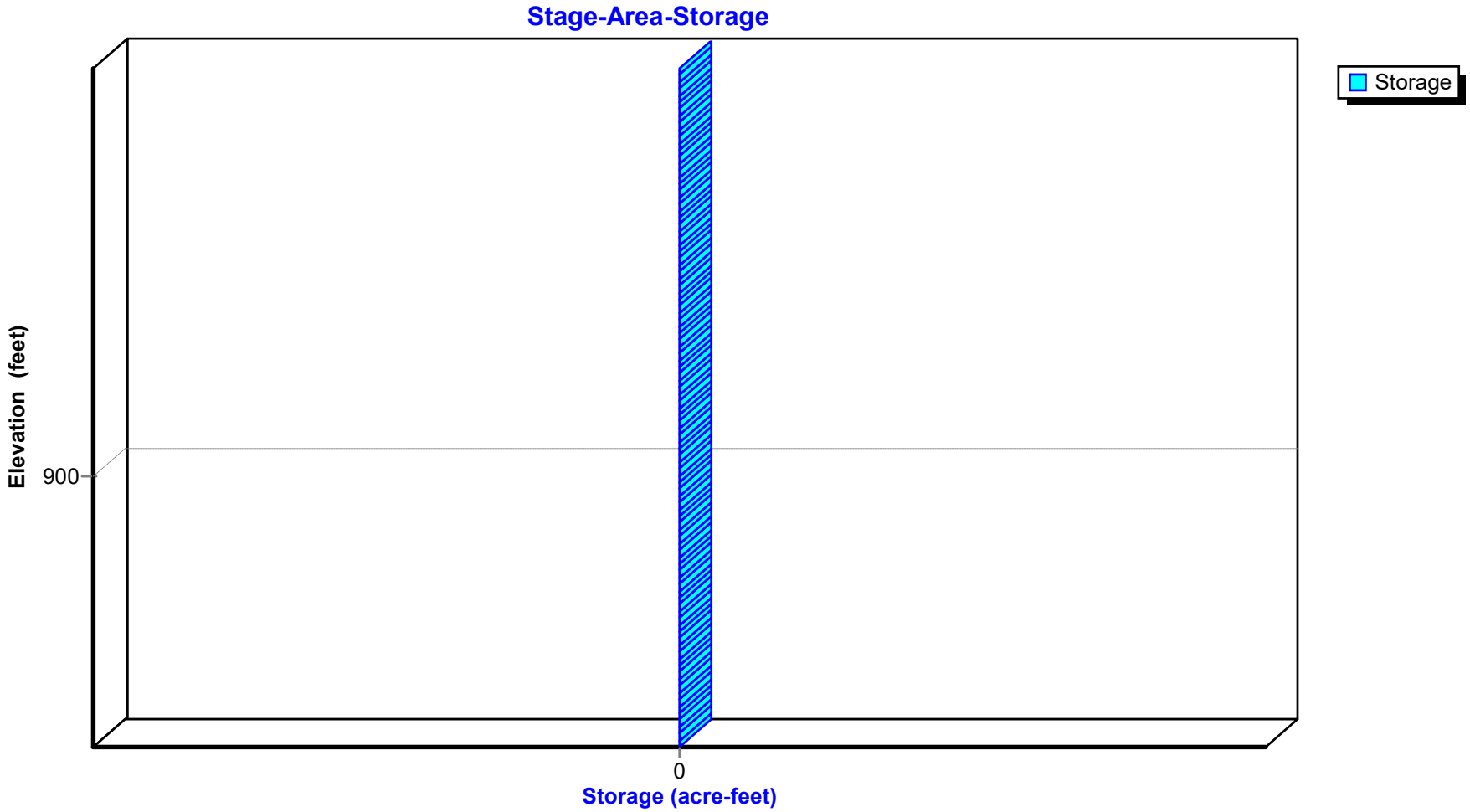
Pond EX RCVR: EX RCVR



Pond EX RCVR: EX RCVR



Pond EX RCVR: EX RCVR



Hydrograph for Pond EX RCVR: EX RCVR

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	899.60	0.00	9.00	0.02	899.69	0.02	18.00	0.03	899.72	0.03
0.25	0.00	899.60	0.00	9.25	0.02	899.70	0.02	18.25	0.03	899.72	0.03
0.50	0.00	899.60	0.00	9.50	0.02	899.70	0.02	18.50	0.03	899.71	0.03
0.75	0.00	899.60	0.00	9.75	0.03	899.71	0.03	18.75	0.03	899.71	0.03
1.00	0.00	899.60	0.00	10.00	0.03	899.71	0.03	19.00	0.03	899.71	0.03
1.25	0.00	899.61	0.00	10.25	0.03	899.72	0.03	19.25	0.03	899.71	0.03
1.50	0.00	899.61	0.00	10.50	0.04	899.72	0.04	19.50	0.03	899.71	0.03
1.75	0.00	899.62	0.00	10.75	0.04	899.73	0.04	19.75	0.03	899.71	0.03
2.00	0.00	899.63	0.00	11.00	0.05	899.74	0.05	20.00	0.03	899.71	0.03
2.25	0.00	899.63	0.00	11.25	0.06	899.76	0.06	20.25	0.02	899.70	0.02
2.50	0.00	899.63	0.00	11.50	0.09	899.79	0.09	20.50	0.02	899.70	0.02
2.75	0.00	899.64	0.00	11.75	0.29	899.94	0.29	20.75	0.02	899.70	0.02
3.00	0.00	899.64	0.00	12.00	**1.05**	**900.28**	**1.05**	21.00	0.02	899.70	0.02
3.25	0.00	899.64	0.00	12.25	**0.87**	**900.22**	**0.87**	21.25	0.02	899.70	0.02
3.50	0.00	899.65	0.00	12.50	0.69	900.14	0.69	21.50	0.02	899.70	0.02
3.75	0.00	899.65	0.00	12.75	0.40	900.01	0.40	21.75	0.02	899.70	0.02
4.00	0.01	899.65	0.01	13.00	0.25	899.92	0.25	22.00	0.02	899.70	0.02
4.25	0.01	899.65	0.01	13.25	0.18	899.87	0.18	22.25	0.02	899.70	0.02
4.50	0.01	899.65	0.01	13.50	0.13	899.83	0.13	22.50	0.02	899.70	0.02
4.75	0.01	899.66	0.01	13.75	0.11	899.81	0.11	22.75	0.02	899.69	0.02
5.00	0.01	899.66	0.01	14.00	0.09	899.79	0.09	23.00	0.02	899.69	0.02
5.25	0.01	899.66	0.01	14.25	0.08	899.78	0.08	23.25	0.02	899.69	0.02
5.50	0.01	899.66	0.01	14.50	0.07	899.77	0.07	23.50	0.02	899.69	0.02
5.75	0.01	899.66	0.01	14.75	0.06	899.76	0.06	23.75	0.02	899.69	0.02
6.00	0.01	899.67	0.01	15.00	0.06	899.76	0.06	24.00	0.02	899.69	0.02
6.25	0.01	899.67	0.01	15.25	0.05	899.75	0.05				
6.50	0.01	899.67	0.01	15.50	0.05	899.75	0.05				
6.75	0.01	899.67	0.01	15.75	0.05	899.74	0.05				
7.00	0.01	899.67	0.01	16.00	0.05	899.74	0.05				
7.25	0.01	899.68	0.01	16.25	0.04	899.74	0.04				
7.50	0.01	899.68	0.01	16.50	0.04	899.73	0.04				
7.75	0.01	899.68	0.01	16.75	0.04	899.73	0.04				
8.00	0.01	899.68	0.01	17.00	0.04	899.73	0.04				
8.25	0.02	899.68	0.02	17.25	0.04	899.72	0.04				
8.50	0.02	899.69	0.02	17.50	0.03	899.72	0.03				
8.75	0.02	899.69	0.02	17.75	0.03	899.72	0.03				

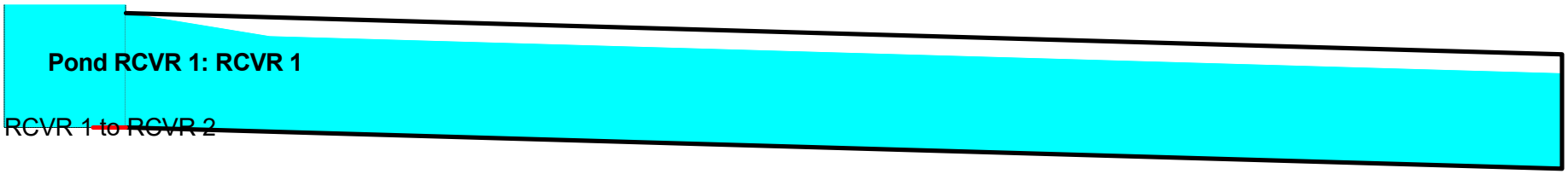
Summary for Pond RCVR 1: RCVR 1

Inflow Area = 0.340 ac, 70.59% Impervious, Inflow Depth > 2.68" for 25-yr event
Inflow = 0.62 cfs @ 12.22 hrs, Volume= 0.076 af
Outflow = 0.62 cfs @ 12.22 hrs, Volume= 0.076 af, Atten= 0%, Lag= 0.0 min
Primary = 0.62 cfs @ 12.22 hrs, Volume= 0.076 af
Routed to Pond RCVR 2 : RCVR 2

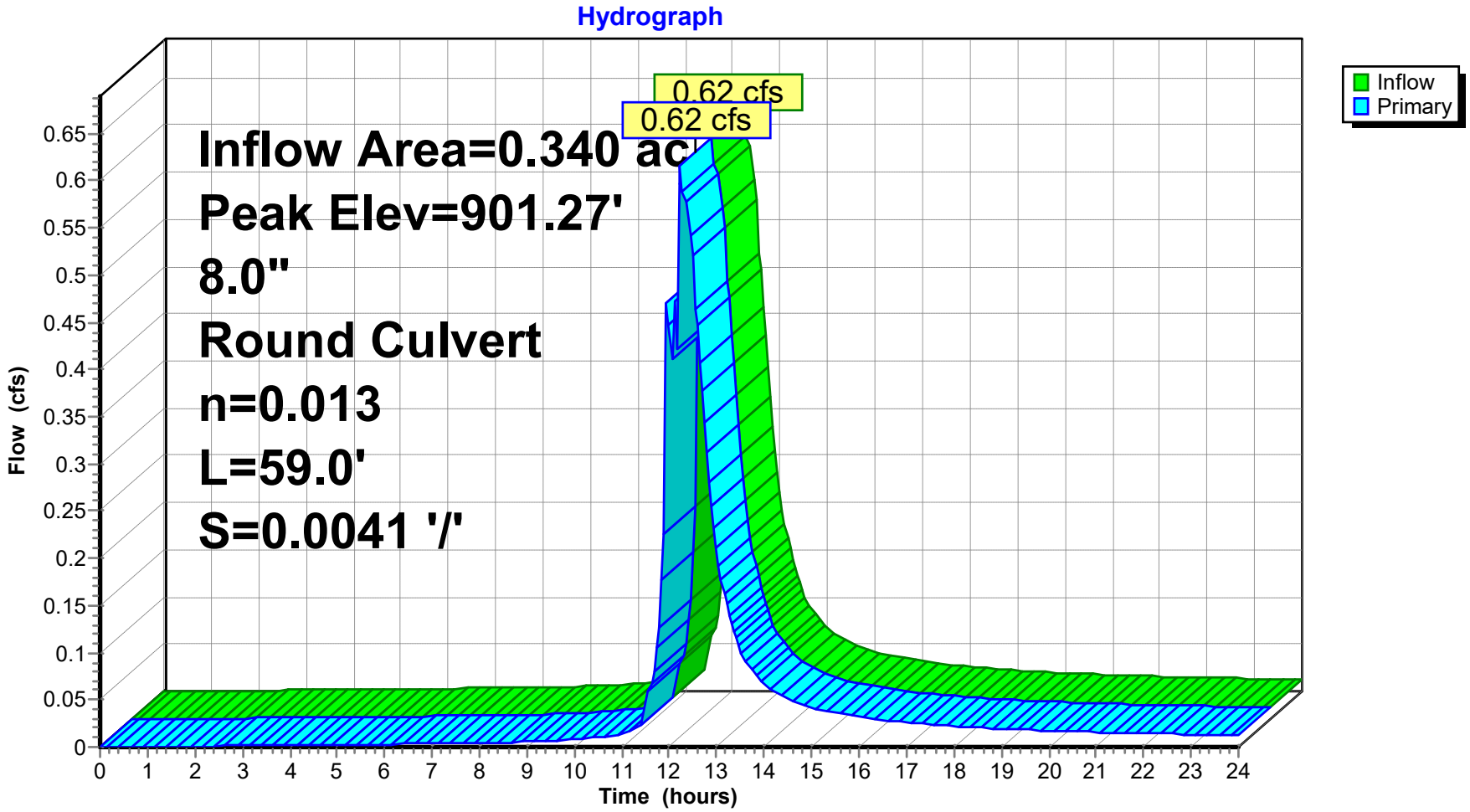
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.27' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	900.56'	**8.0" Round RCVR 1 to RCVR 2** L= 59.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 900.56' / 900.32' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

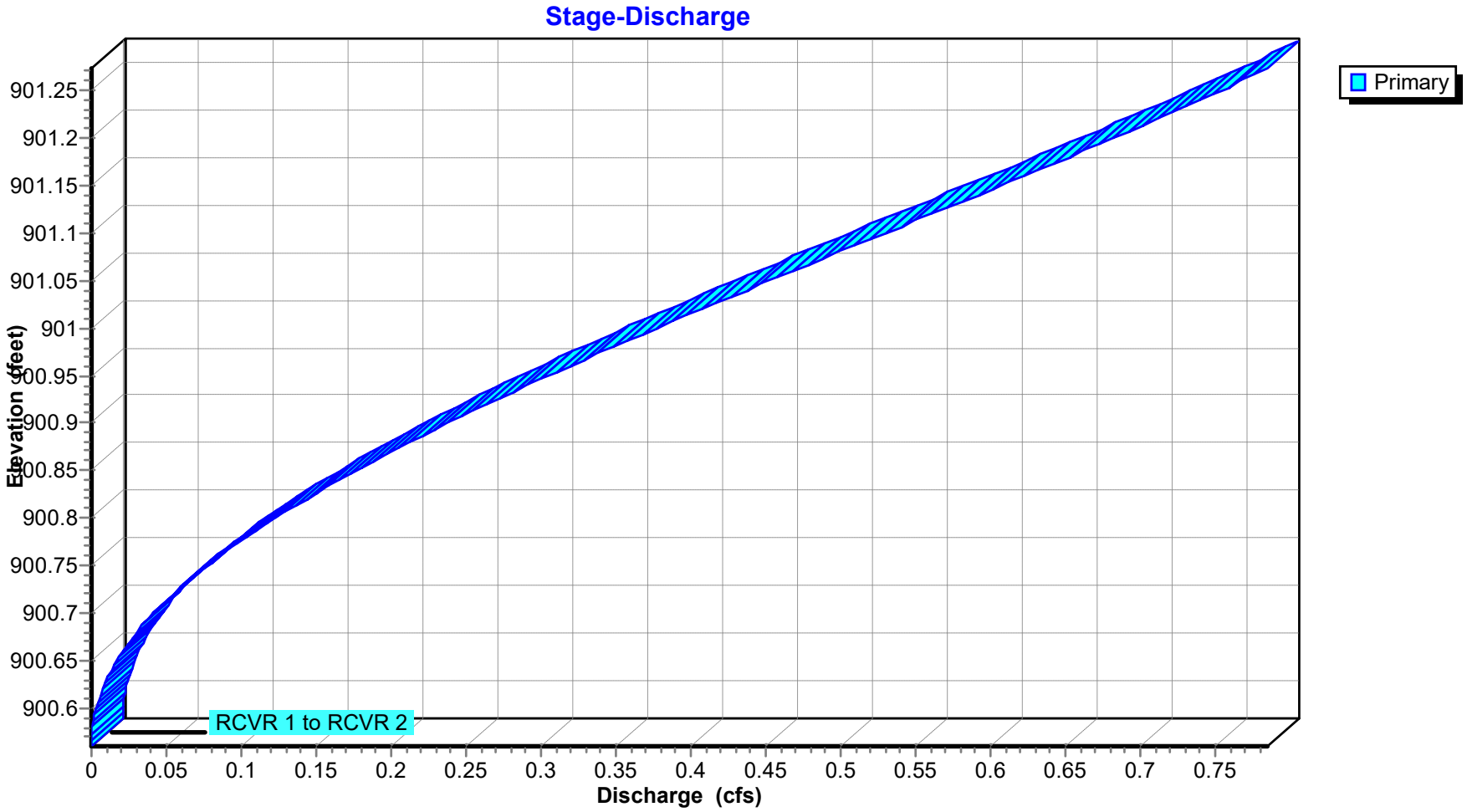
Primary OutFlow Max=0.60 cfs @ 12.22 hrs HW=901.25' TW=900.98' (Dynamic Tailwater)
↑**1=RCVR 1 to RCVR 2** (Outlet Controls 0.60 cfs @ 2.07 fps)



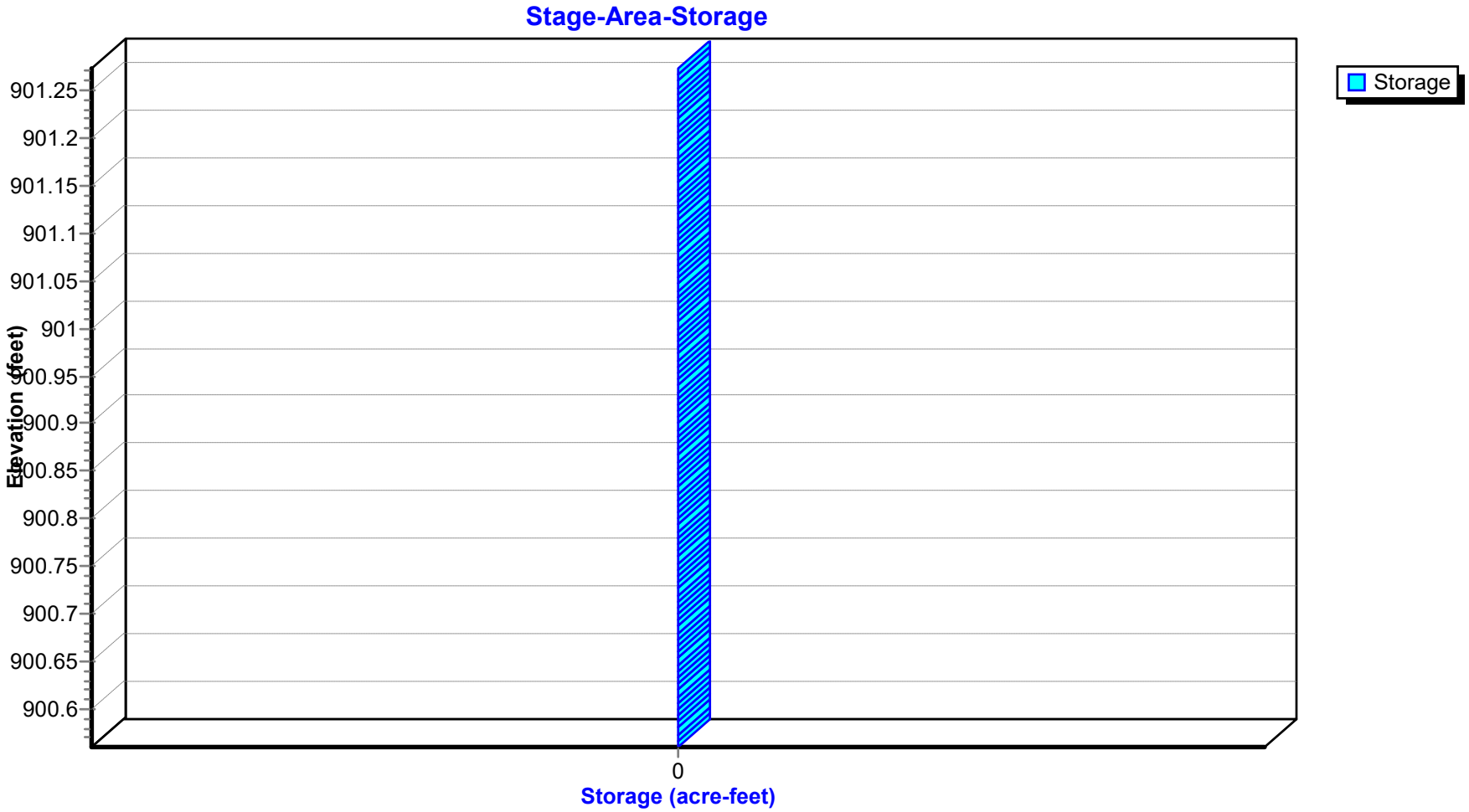
Pond RCVR 1: RCVR 1



Pond RCVR 1: RCVR 1



Pond RCVR 1: RCVR 1



Hydrograph for Pond RCVR 1: RCVR 1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	900.56	0.00	9.00	0.01	900.62	0.01	18.00	0.02	900.67	0.02
0.25	0.00	900.56	0.00	9.25	0.01	900.62	0.01	18.25	0.02	900.66	0.02
0.50	0.00	900.56	0.00	9.50	0.01	900.62	0.01	18.50	0.02	900.66	0.02
0.75	0.00	900.56	0.00	9.75	0.01	900.62	0.01	18.75	0.02	900.66	0.02
1.00	0.00	900.56	0.00	10.00	0.01	900.63	0.01	19.00	0.02	900.66	0.02
1.25	0.00	900.57	0.00	10.25	0.01	900.63	0.01	19.25	0.02	900.66	0.02
1.50	0.00	900.57	0.00	10.50	0.01	900.64	0.01	19.50	0.02	900.66	0.02
1.75	0.00	900.58	0.00	10.75	0.01	900.64	0.01	19.75	0.02	900.66	0.02
2.00	0.00	900.58	0.00	11.00	0.01	900.65	0.01	20.00	0.02	900.65	0.02
2.25	0.00	900.58	0.00	11.25	0.02	900.66	0.02	20.25	0.02	900.65	0.02
2.50	0.00	900.58	0.00	11.50	0.03	900.68	0.03	20.50	0.02	900.65	0.02
2.75	0.00	900.59	0.00	11.75	0.11	900.81	0.11	20.75	0.02	900.65	0.02
3.00	0.00	900.59	0.00	12.00	**0.45**	**901.14**	**0.45**	21.00	0.02	900.65	0.02
3.25	0.00	900.59	0.00	12.25	**0.59**	**901.25**	**0.59**	21.25	0.02	900.65	0.02
3.50	0.00	900.59	0.00	12.50	0.52	901.16	0.52	21.50	0.02	900.65	0.02
3.75	0.00	900.59	0.00	12.75	0.34	901.01	0.34	21.75	0.01	900.65	0.01
4.00	0.00	900.59	0.00	13.00	0.21	900.90	0.21	22.00	0.01	900.65	0.01
4.25	0.00	900.59	0.00	13.25	0.14	900.83	0.14	22.25	0.01	900.65	0.01
4.50	0.00	900.59	0.00	13.50	0.10	900.79	0.10	22.50	0.01	900.64	0.01
4.75	0.00	900.60	0.00	13.75	0.08	900.76	0.08	22.75	0.01	900.64	0.01
5.00	0.00	900.60	0.00	14.00	0.07	900.74	0.07	23.00	0.01	900.64	0.01
5.25	0.00	900.60	0.00	14.25	0.06	900.73	0.06	23.25	0.01	900.64	0.01
5.50	0.00	900.60	0.00	14.50	0.05	900.72	0.05	23.50	0.01	900.64	0.01
5.75	0.00	900.60	0.00	14.75	0.05	900.71	0.05	23.75	0.01	900.64	0.01
6.00	0.00	900.60	0.00	15.00	0.04	900.70	0.04	24.00	0.01	900.64	0.01
6.25	0.00	900.60	0.00	15.25	0.04	900.70	0.04				
6.50	0.00	900.60	0.00	15.50	0.04	900.69	0.04				
6.75	0.00	900.60	0.00	15.75	0.03	900.69	0.03				
7.00	0.00	900.60	0.00	16.00	0.03	900.69	0.03				
7.25	0.00	900.61	0.00	16.25	0.03	900.68	0.03				
7.50	0.00	900.61	0.00	16.50	0.03	900.68	0.03				
7.75	0.00	900.61	0.00	16.75	0.03	900.68	0.03				
8.00	0.00	900.61	0.00	17.00	0.03	900.67	0.03				
8.25	0.00	900.61	0.00	17.25	0.02	900.67	0.02				
8.50	0.01	900.61	0.01	17.50	0.02	900.67	0.02				
8.75	0.01	900.61	0.01	17.75	0.02	900.67	0.02				

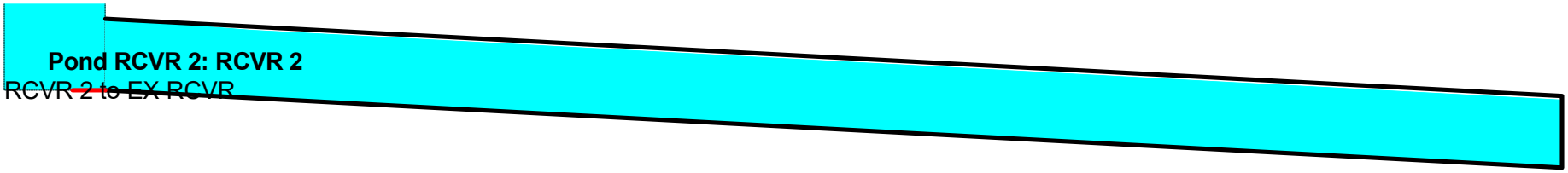
Summary for Pond RCVR 2: RCVR 2

Inflow Area = 0.500 ac, 78.00% Impervious, Inflow Depth > 2.94" for 25-yr event
Inflow = 1.14 cfs @ 12.06 hrs, Volume= 0.123 af
Outflow = 1.14 cfs @ 12.06 hrs, Volume= 0.123 af, Atten= 0%, Lag= 0.0 min
Primary = 1.14 cfs @ 12.06 hrs, Volume= 0.123 af
Routed to Pond EX RCVR : EX RCVR

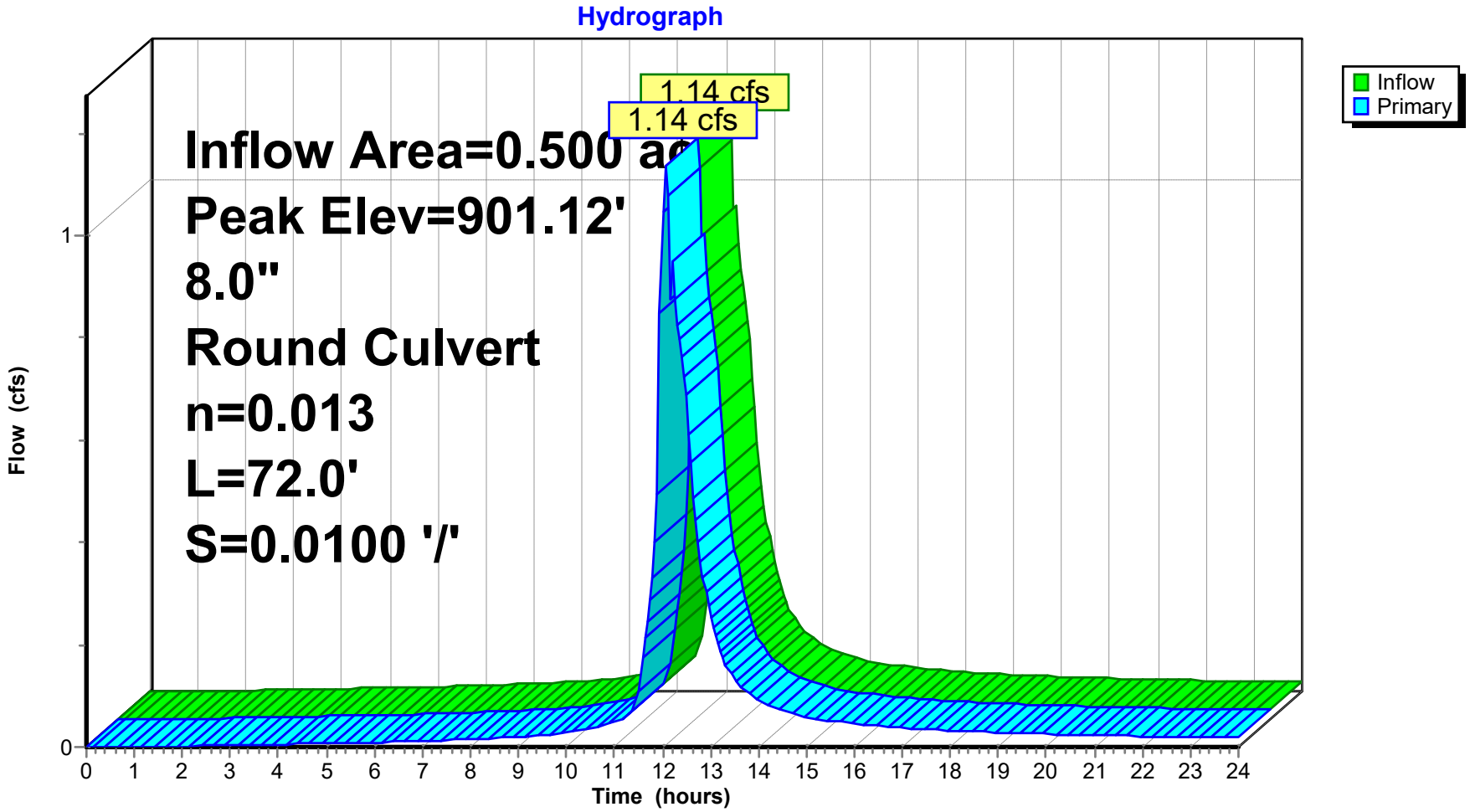
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.12' @ 12.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	900.32'	**8.0" Round RCVR 2 to EX RCVR** L= 72.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 900.32' / 899.60' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

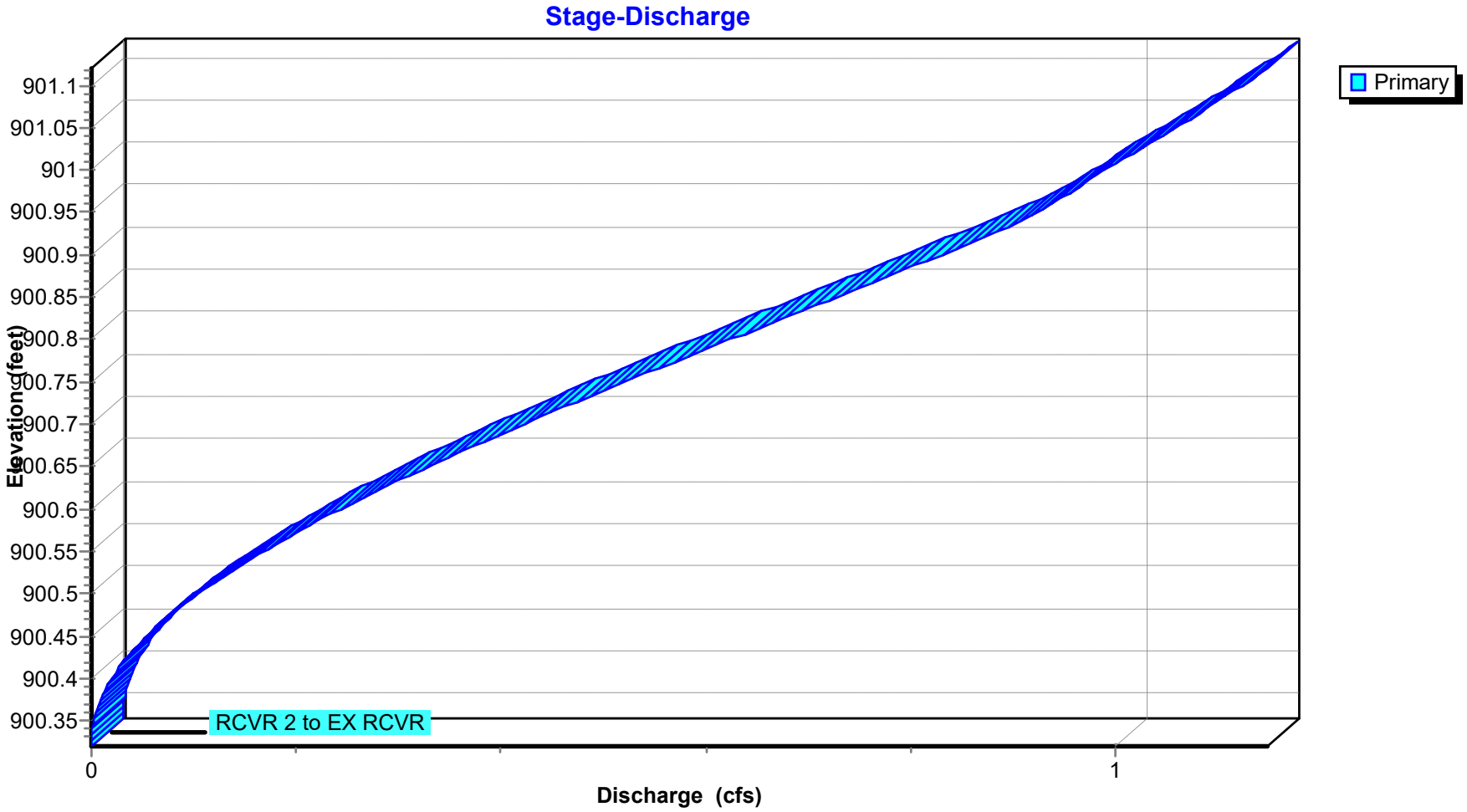
Primary OutFlow Max=1.11 cfs @ 12.06 hrs HW=901.12' TW=900.31' (Dynamic Tailwater)
↑**1=RCVR 2 to EX RCVR** (Outlet Controls 1.11 cfs @ 3.37 fps)



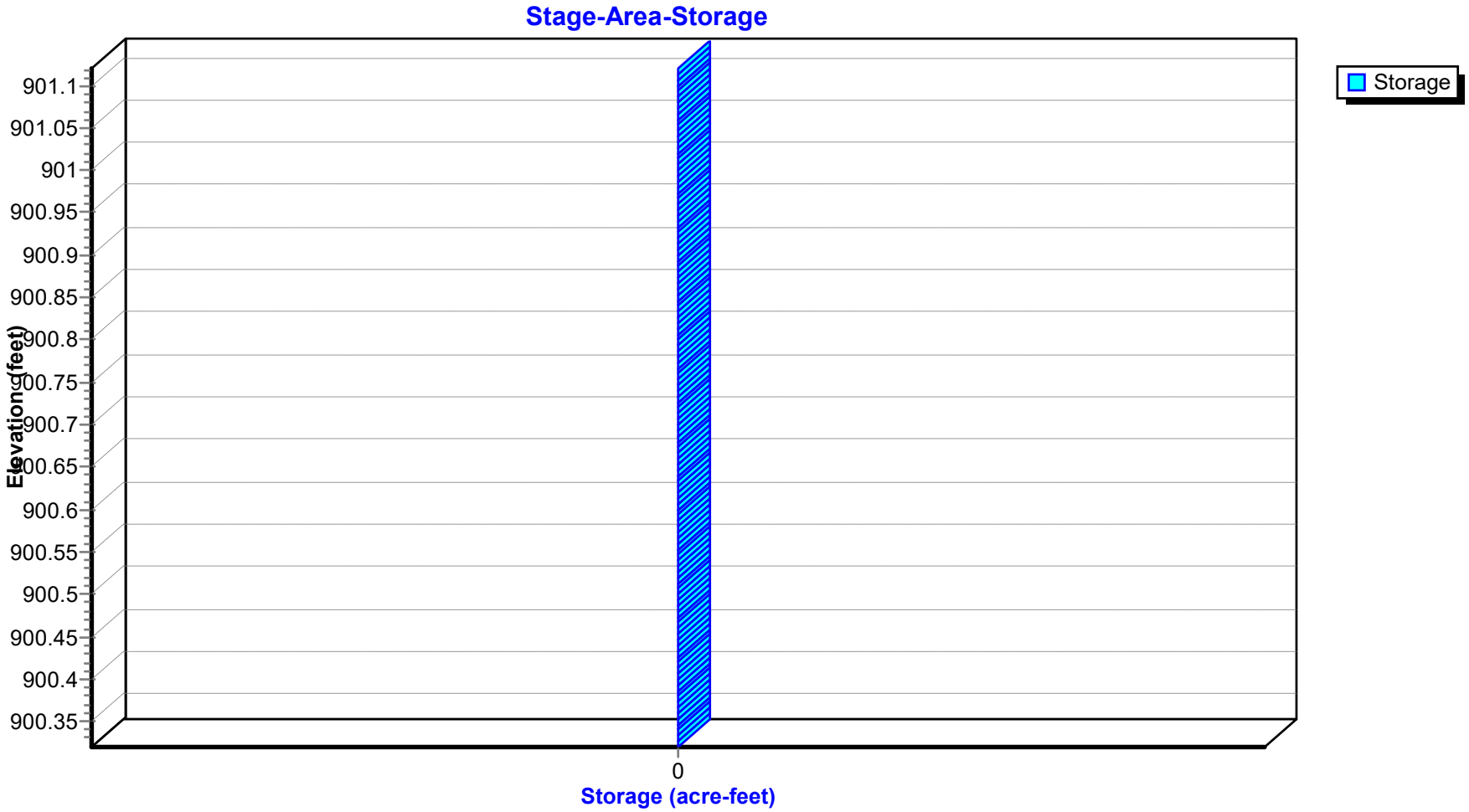
Pond RCVR 2: RCVR 2



Pond RCVR 2: RCVR 2



Pond RCVR 2: RCVR 2



Hydrograph for Pond RCVR 2: RCVR 2

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	900.32	0.00	9.00	0.02	900.40	0.02	18.00	0.03	900.42	0.03
0.25	0.00	900.32	0.00	9.25	0.02	900.40	0.02	18.25	0.03	900.42	0.03
0.50	0.00	900.32	0.00	9.50	0.02	900.41	0.02	18.50	0.03	900.42	0.03
0.75	0.00	900.32	0.00	9.75	0.03	900.41	0.03	18.75	0.03	900.42	0.03
1.00	0.00	900.32	0.00	10.00	0.03	900.42	0.03	19.00	0.03	900.42	0.03
1.25	0.00	900.33	0.00	10.25	0.03	900.42	0.03	19.25	0.03	900.41	0.03
1.50	0.00	900.33	0.00	10.50	0.04	900.43	0.04	19.50	0.03	900.41	0.03
1.75	0.00	900.34	0.00	10.75	0.04	900.44	0.04	19.75	0.03	900.41	0.03
2.00	0.00	900.34	0.00	11.00	0.05	900.45	0.05	20.00	0.03	900.41	0.03
2.25	0.00	900.35	0.00	11.25	0.06	900.46	0.06	20.25	0.02	900.41	0.02
2.50	0.00	900.35	0.00	11.50	0.09	900.49	0.09	20.50	0.02	900.41	0.02
2.75	0.00	900.35	0.00	11.75	0.29	900.64	0.29	20.75	0.02	900.41	0.02
3.00	0.00	900.35	0.00	12.00	**1.05**	**901.04**	**1.05**	21.00	0.02	900.41	0.02
3.25	0.00	900.36	0.00	12.25	**0.87**	**900.97**	**0.87**	21.25	0.02	900.41	0.02
3.50	0.00	900.36	0.00	12.50	0.69	900.86	0.69	21.50	0.02	900.41	0.02
3.75	0.00	900.36	0.00	12.75	0.40	900.71	0.40	21.75	0.02	900.40	0.02
4.00	0.01	900.36	0.01	13.00	0.25	900.62	0.25	22.00	0.02	900.40	0.02
4.25	0.01	900.36	0.01	13.25	0.18	900.56	0.18	22.25	0.02	900.40	0.02
4.50	0.01	900.37	0.01	13.50	0.13	900.53	0.13	22.50	0.02	900.40	0.02
4.75	0.01	900.37	0.01	13.75	0.11	900.51	0.11	22.75	0.02	900.40	0.02
5.00	0.01	900.37	0.01	14.00	0.09	900.49	0.09	23.00	0.02	900.40	0.02
5.25	0.01	900.37	0.01	14.25	0.08	900.48	0.08	23.25	0.02	900.40	0.02
5.50	0.01	900.37	0.01	14.50	0.07	900.47	0.07	23.50	0.02	900.40	0.02
5.75	0.01	900.37	0.01	14.75	0.06	900.46	0.06	23.75	0.02	900.40	0.02
6.00	0.01	900.38	0.01	15.00	0.06	900.46	0.06	24.00	0.02	900.40	0.02
6.25	0.01	900.38	0.01	15.25	0.05	900.45	0.05				
6.50	0.01	900.38	0.01	15.50	0.05	900.45	0.05				
6.75	0.01	900.38	0.01	15.75	0.05	900.44	0.05				
7.00	0.01	900.38	0.01	16.00	0.05	900.44	0.05				
7.25	0.01	900.38	0.01	16.25	0.04	900.44	0.04				
7.50	0.01	900.39	0.01	16.50	0.04	900.44	0.04				
7.75	0.01	900.39	0.01	16.75	0.04	900.43	0.04				
8.00	0.01	900.39	0.01	17.00	0.04	900.43	0.04				
8.25	0.02	900.39	0.02	17.25	0.04	900.43	0.04				
8.50	0.02	900.40	0.02	17.50	0.03	900.43	0.03				
8.75	0.02	900.40	0.02	17.75	0.03	900.42	0.03				

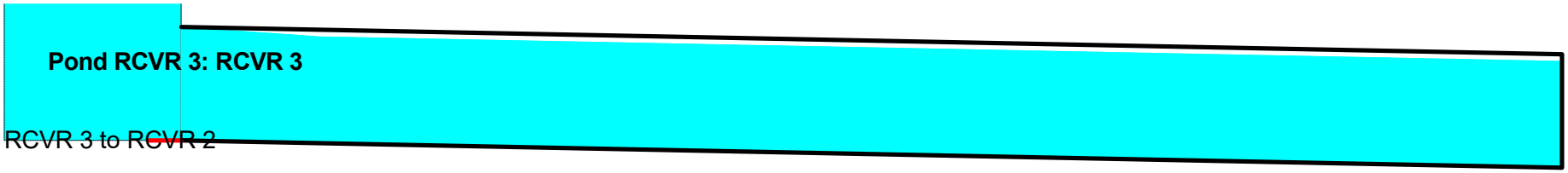
Summary for Pond RCVR 3: RCVR 3

Inflow Area = 0.150 ac, 93.33% Impervious, Inflow Depth > 3.50" for 25-yr event
Inflow = 0.70 cfs @ 12.05 hrs, Volume= 0.044 af
Outflow = 0.70 cfs @ 12.05 hrs, Volume= 0.044 af, Atten= 0%, Lag= 0.0 min
Primary = 0.70 cfs @ 12.05 hrs, Volume= 0.044 af
Routed to Pond RCVR 2 : RCVR 2

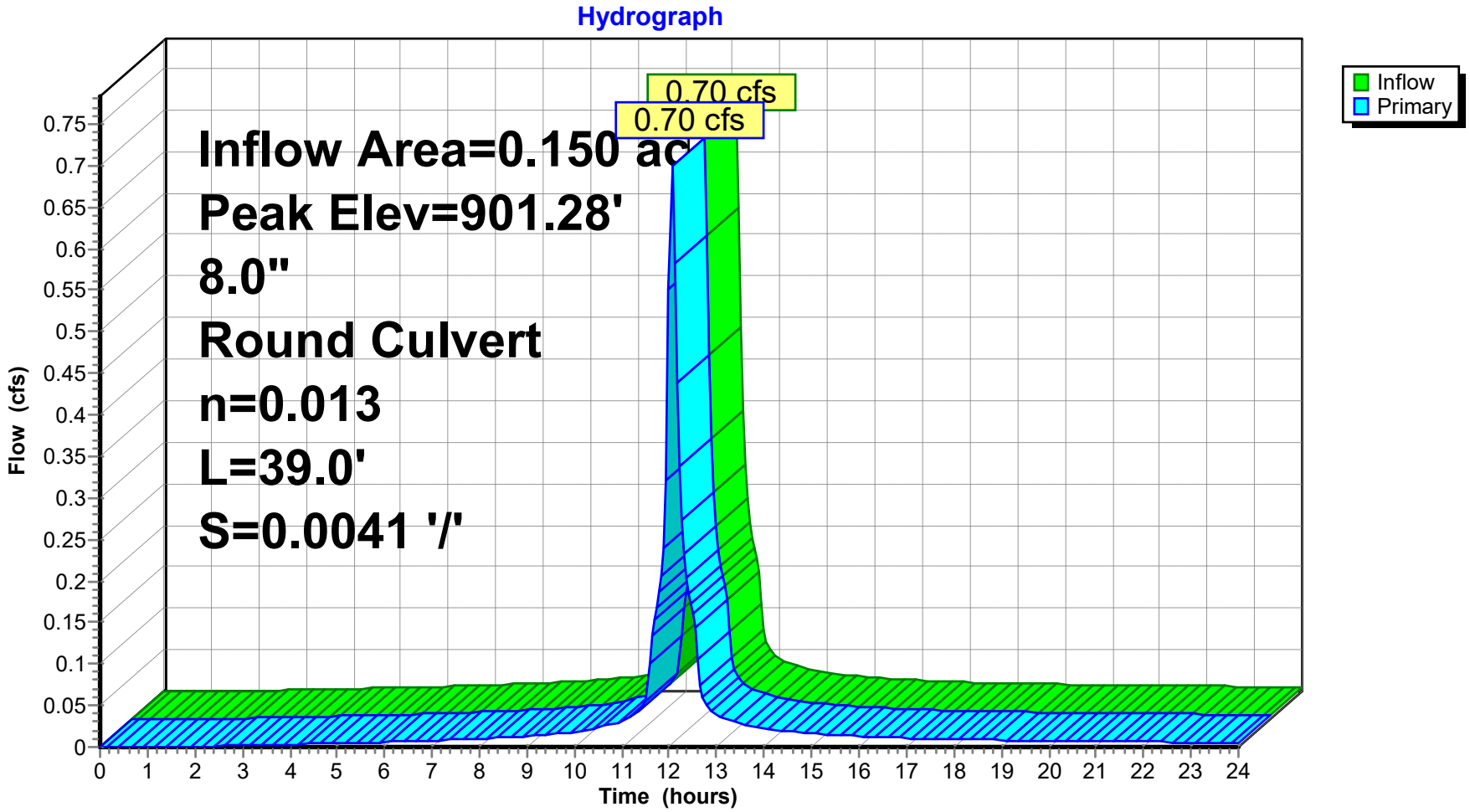
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.28' @ 12.08 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	900.48'	**8.0" Round RCVR 3 to RCVR 2** L= 39.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 900.48' / 900.32' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

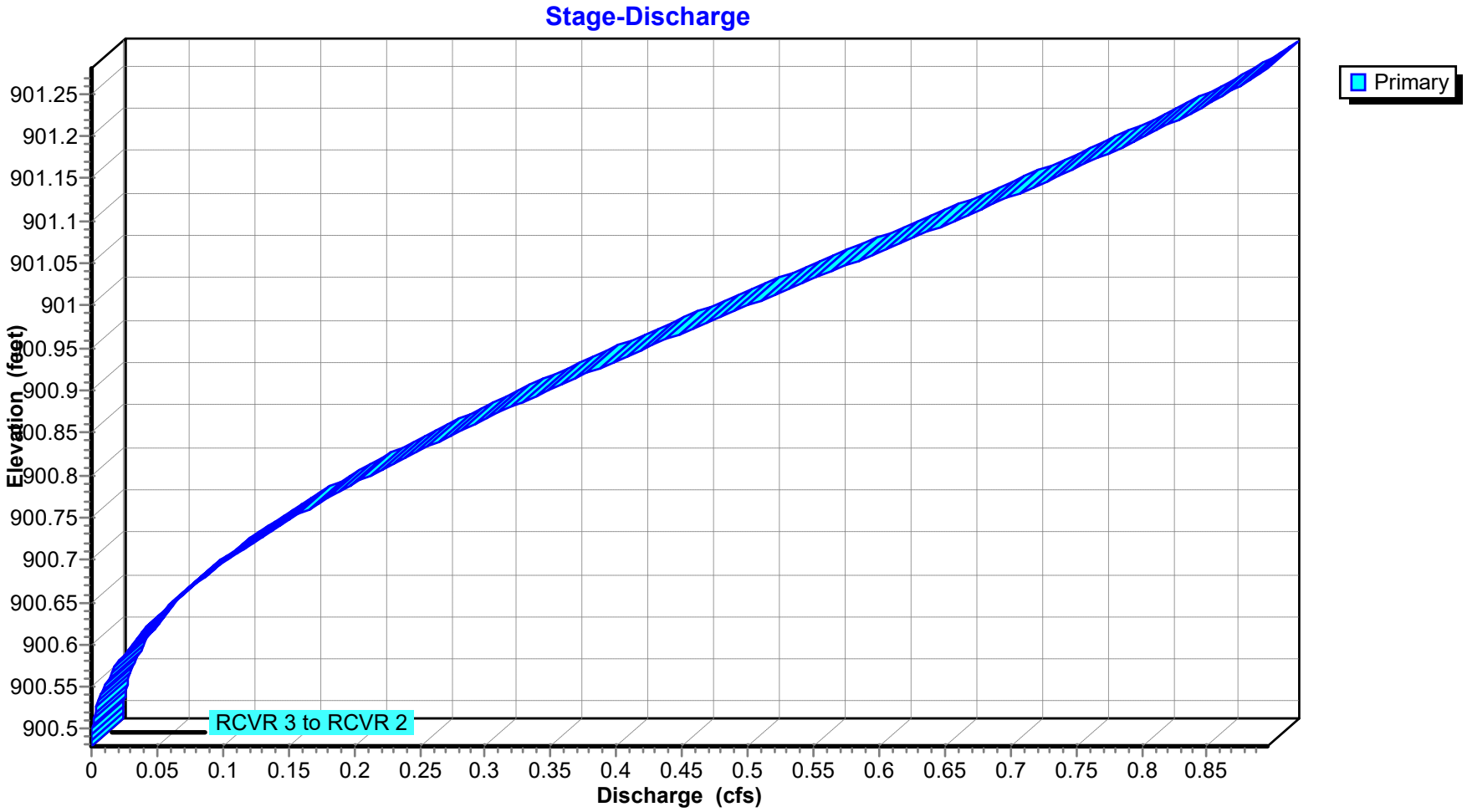
Primary OutFlow Max=0.57 cfs @ 12.05 hrs HW=901.27' TW=901.12' (Dynamic Tailwater)
↑—**1=RCVR 3 to RCVR 2** (Outlet Controls 0.57 cfs @ 1.74 fps)



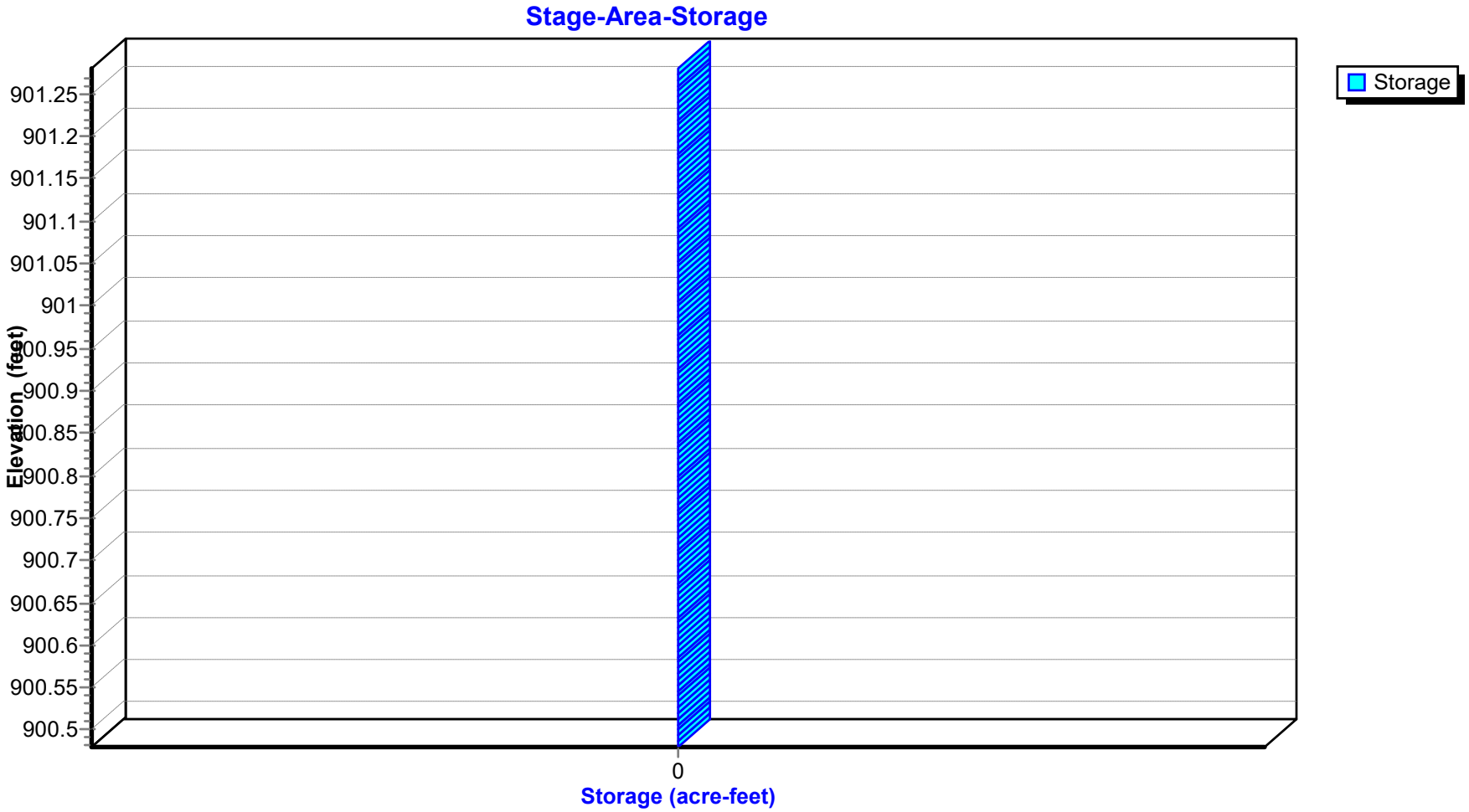
Pond RCVR 3: RCVR 3



Pond RCVR 3: RCVR 3



Pond RCVR 3: RCVR 3



Hydrograph for Pond RCVR 3: RCVR 3

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	900.48	0.00	9.00	0.01	900.56	0.01	18.00	0.01	900.55	0.01
0.25	0.00	900.48	0.00	9.25	0.01	900.56	0.01	18.25	0.01	900.55	0.01
0.50	0.00	900.48	0.00	9.50	0.02	900.57	0.02	18.50	0.01	900.55	0.01
0.75	0.00	900.48	0.00	9.75	0.02	900.57	0.02	18.75	0.01	900.55	0.01
1.00	0.00	900.48	0.00	10.00	0.02	900.58	0.02	19.00	0.01	900.55	0.01
1.25	0.00	900.48	0.00	10.25	0.02	900.58	0.02	19.25	0.01	900.55	0.01
1.50	0.00	900.48	0.00	10.50	0.02	900.59	0.02	19.50	0.01	900.55	0.01
1.75	0.00	900.49	0.00	10.75	0.03	900.60	0.03	19.75	0.01	900.55	0.01
2.00	0.00	900.50	0.00	11.00	0.03	900.61	0.03	20.00	0.01	900.55	0.01
2.25	0.00	900.50	0.00	11.25	0.04	900.62	0.04	20.25	0.01	900.54	0.01
2.50	0.00	900.51	0.00	11.50	0.05	900.65	0.05	20.50	0.01	900.54	0.01
2.75	0.00	900.51	0.00	11.75	0.17	900.79	0.17	20.75	0.01	900.54	0.01
3.00	0.00	900.51	0.00	12.00	**0.55**	**901.12**	**0.55**	21.00	0.01	900.54	0.01
3.25	0.00	900.51	0.00	12.25	**0.27**	**901.06**	**0.27**	21.25	0.01	900.54	0.01
3.50	0.00	900.52	0.00	12.50	0.16	900.93	0.16	21.50	0.01	900.54	0.01
3.75	0.00	900.52	0.00	12.75	0.05	900.76	0.05	21.75	0.01	900.54	0.01
4.00	0.00	900.52	0.00	13.00	0.04	900.68	0.04	22.00	0.01	900.54	0.01
4.25	0.00	900.52	0.00	13.25	0.03	900.64	0.03	22.25	0.01	900.54	0.01
4.50	0.00	900.53	0.00	13.50	0.03	900.62	0.03	22.50	0.01	900.54	0.01
4.75	0.00	900.53	0.00	13.75	0.03	900.61	0.03	22.75	0.01	900.54	0.01
5.00	0.00	900.53	0.00	14.00	0.02	900.60	0.02	23.00	0.01	900.54	0.01
5.25	0.00	900.53	0.00	14.25	0.02	900.59	0.02	23.25	0.01	900.54	0.01
5.50	0.01	900.53	0.01	14.50	0.02	900.59	0.02	23.50	0.01	900.54	0.01
5.75	0.01	900.53	0.01	14.75	0.02	900.58	0.02	23.75	0.01	900.54	0.01
6.00	0.01	900.54	0.01	15.00	0.02	900.58	0.02	24.00	0.01	900.54	0.01
6.25	0.01	900.54	0.01	15.25	0.02	900.57	0.02				
6.50	0.01	900.54	0.01	15.50	0.01	900.57	0.01				
6.75	0.01	900.54	0.01	15.75	0.01	900.57	0.01				
7.00	0.01	900.54	0.01	16.00	0.01	900.57	0.01				
7.25	0.01	900.55	0.01	16.25	0.01	900.56	0.01				
7.50	0.01	900.55	0.01	16.50	0.01	900.56	0.01				
7.75	0.01	900.55	0.01	16.75	0.01	900.56	0.01				
8.00	0.01	900.55	0.01	17.00	0.01	900.56	0.01				
8.25	0.01	900.55	0.01	17.25	0.01	900.56	0.01				
8.50	0.01	900.56	0.01	17.50	0.01	900.56	0.01				
8.75	0.01	900.56	0.01	17.75	0.01	900.55	0.01				

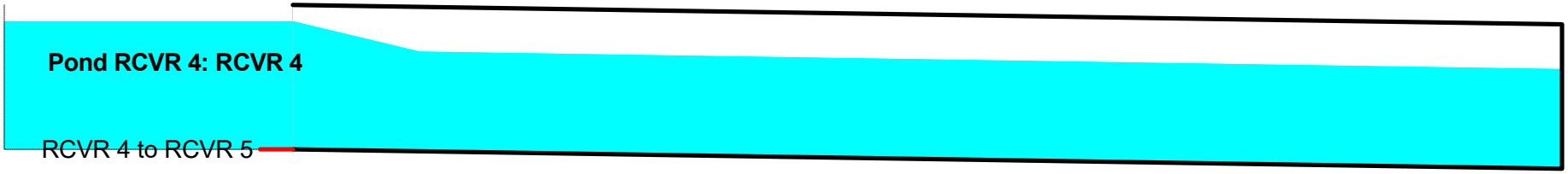
Summary for Pond RCVR 4: RCVR 4

Inflow Area = 0.080 ac, 87.50% Impervious, Inflow Depth > 3.39" for 25-yr event
Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.023 af
Outflow = 0.38 cfs @ 12.04 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.38 cfs @ 12.04 hrs, Volume= 0.023 af
Routed to Pond RCVR 5 : RCVR 5

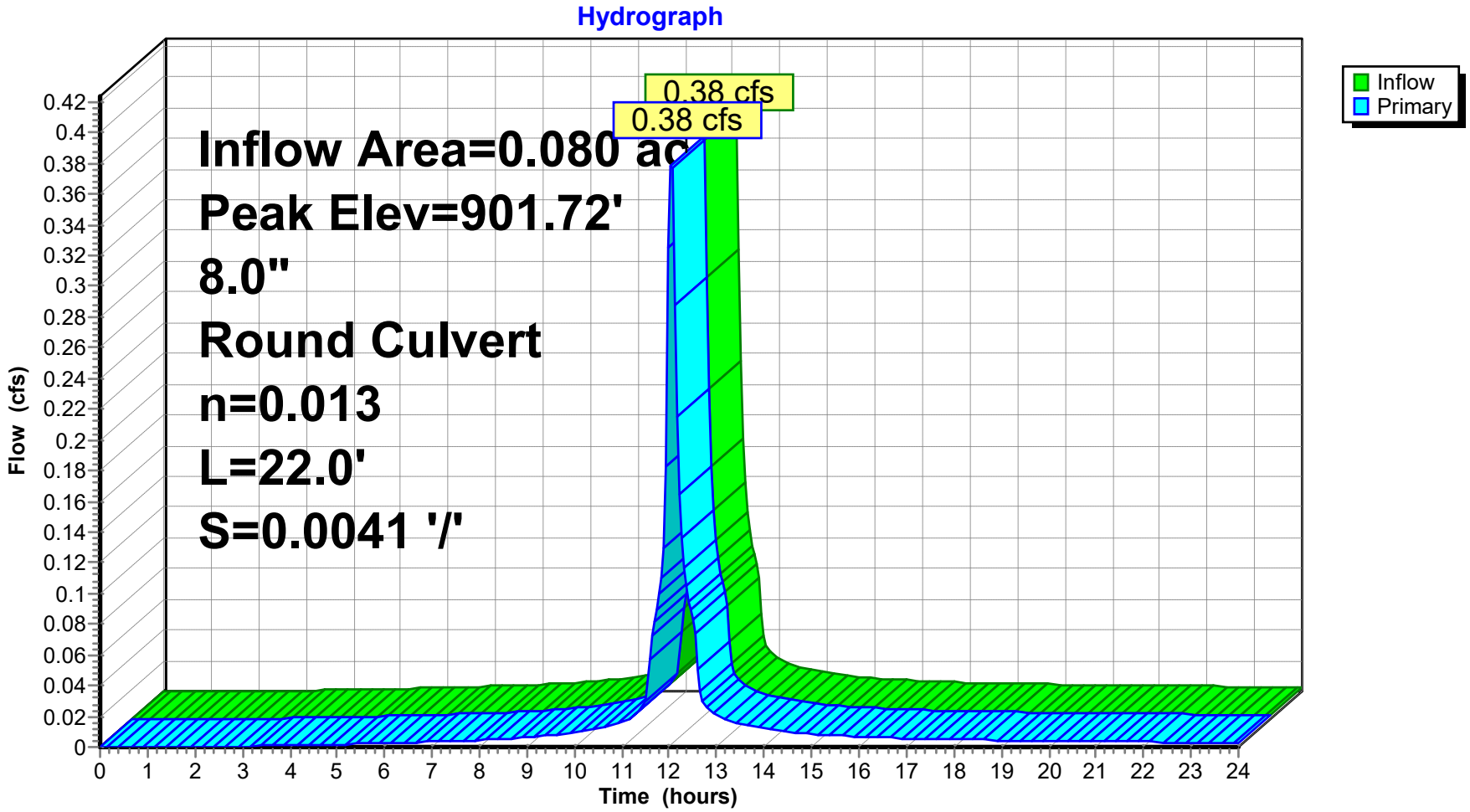
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.72' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	901.13'	**8.0" Round RCVR 4 to RCVR 5** L= 22.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 901.13' / 901.04' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

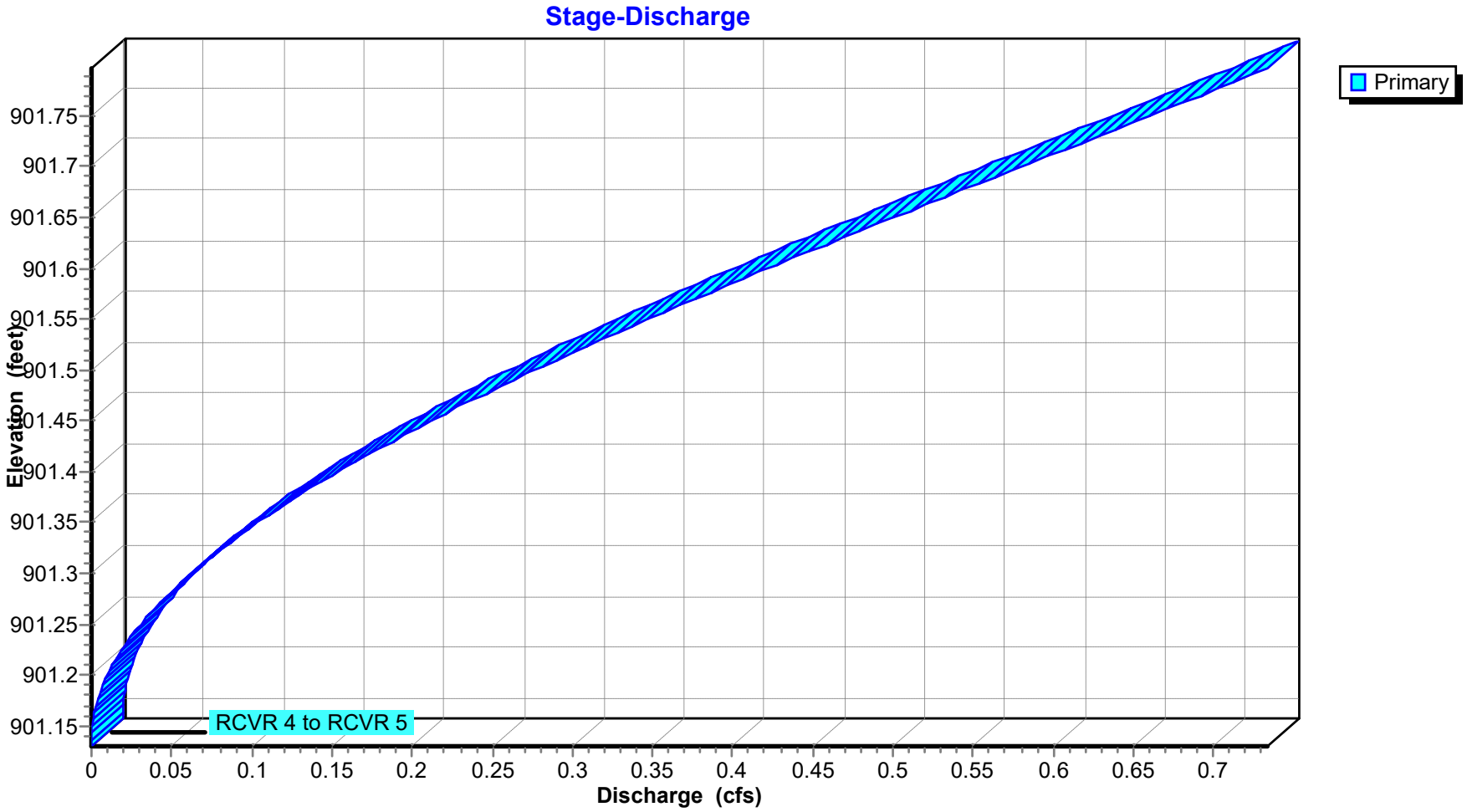
Primary OutFlow Max=0.42 cfs @ 12.04 hrs HW=901.71' TW=901.59' (Dynamic Tailwater)
↑—**1=RCVR 4 to RCVR 5** (Outlet Controls 0.42 cfs @ 1.77 fps)



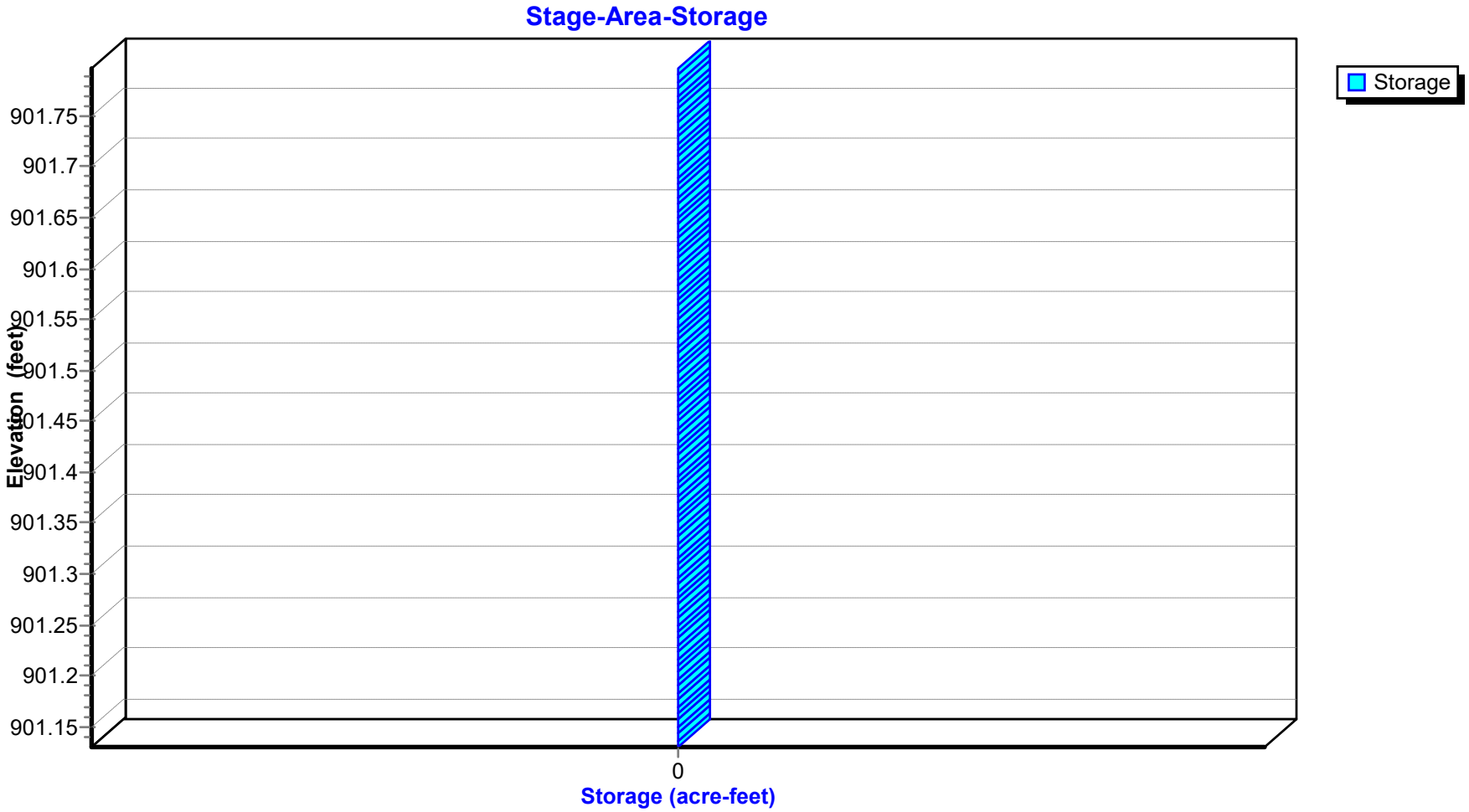
Pond RCVR 4: RCVR 4



Pond RCVR 4: RCVR 4



Pond RCVR 4: RCVR 4



Hydrograph for Pond RCVR 4: RCVR 4

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	901.13	0.00	9.00	0.01	901.19	0.01	18.00	0.00	901.18	0.00
0.25	0.00	901.13	0.00	9.25	0.01	901.19	0.01	18.25	0.00	901.18	0.00
0.50	0.00	901.13	0.00	9.50	0.01	901.20	0.01	18.50	0.00	901.18	0.00
0.75	0.00	901.13	0.00	9.75	0.01	901.20	0.01	18.75	0.00	901.18	0.00
1.00	0.00	901.13	0.00	10.00	0.01	901.20	0.01	19.00	0.00	901.18	0.00
1.25	0.00	901.13	0.00	10.25	0.01	901.21	0.01	19.25	0.00	901.18	0.00
1.50	0.00	901.13	0.00	10.50	0.01	901.21	0.01	19.50	0.00	901.18	0.00
1.75	0.00	901.13	0.00	10.75	0.01	901.22	0.01	19.75	0.00	901.18	0.00
2.00	0.00	901.13	0.00	11.00	0.02	901.23	0.02	20.00	0.00	901.18	0.00
2.25	0.00	901.13	0.00	11.25	0.02	901.24	0.02	20.25	0.00	901.18	0.00
2.50	0.00	901.14	0.00	11.50	0.03	901.26	0.03	20.50	0.00	901.18	0.00
2.75	0.00	901.15	0.00	11.75	0.09	901.37	0.09	20.75	0.00	901.18	0.00
3.00	0.00	901.15	0.00	12.00	**0.33**	**901.63**	**0.33**	21.00	0.00	901.18	0.00
3.25	0.00	901.15	0.00	12.25	**0.14**	**901.54**	**0.14**	21.25	0.00	901.18	0.00
3.50	0.00	901.15	0.00	12.50	0.08	901.47	0.08	21.50	0.00	901.18	0.00
3.75	0.00	901.16	0.00	12.75	0.03	901.31	0.03	21.75	0.00	901.17	0.00
4.00	0.00	901.16	0.00	13.00	0.02	901.26	0.02	22.00	0.00	901.17	0.00
4.25	0.00	901.16	0.00	13.25	0.02	901.24	0.02	22.25	0.00	901.17	0.00
4.50	0.00	901.16	0.00	13.50	0.01	901.23	0.01	22.50	0.00	901.17	0.00
4.75	0.00	901.16	0.00	13.75	0.01	901.22	0.01	22.75	0.00	901.17	0.00
5.00	0.00	901.16	0.00	14.00	0.01	901.22	0.01	23.00	0.00	901.17	0.00
5.25	0.00	901.16	0.00	14.25	0.01	901.21	0.01	23.25	0.00	901.17	0.00
5.50	0.00	901.17	0.00	14.50	0.01	901.21	0.01	23.50	0.00	901.17	0.00
5.75	0.00	901.17	0.00	14.75	0.01	901.20	0.01	23.75	0.00	901.17	0.00
6.00	0.00	901.17	0.00	15.00	0.01	901.20	0.01	24.00	0.00	901.17	0.00
6.25	0.00	901.17	0.00	15.25	0.01	901.20	0.01				
6.50	0.00	901.17	0.00	15.50	0.01	901.20	0.01				
6.75	0.00	901.17	0.00	15.75	0.01	901.20	0.01				
7.00	0.00	901.18	0.00	16.00	0.01	901.19	0.01				
7.25	0.00	901.18	0.00	16.25	0.01	901.19	0.01				
7.50	0.00	901.18	0.00	16.50	0.01	901.19	0.01				
7.75	0.00	901.18	0.00	16.75	0.01	901.19	0.01				
8.00	0.00	901.18	0.00	17.00	0.01	901.19	0.01				
8.25	0.00	901.18	0.00	17.25	0.01	901.19	0.01				
8.50	0.01	901.19	0.01	17.50	0.01	901.19	0.01				
8.75	0.01	901.19	0.01	17.75	0.01	901.18	0.01				

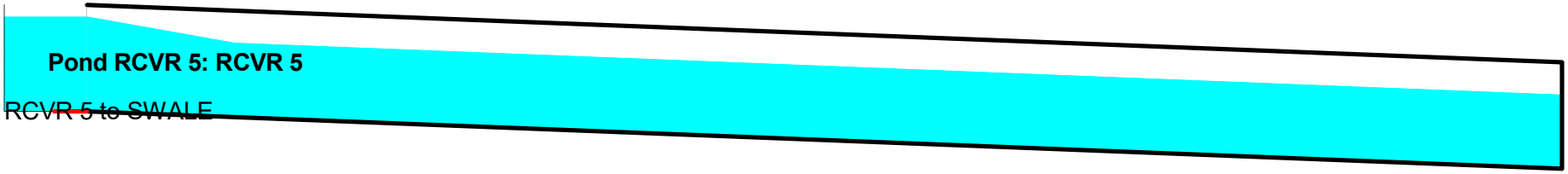
Summary for Pond RCVR 5: RCVR 5

Inflow Area = 0.130 ac, 92.31% Impervious, Inflow Depth > 3.48" for 25-yr event
Inflow = 0.60 cfs @ 12.01 hrs, Volume= 0.038 af
Outflow = 0.60 cfs @ 12.01 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
Primary = 0.60 cfs @ 12.01 hrs, Volume= 0.038 af
Routed to Pond SWALE : SWALE

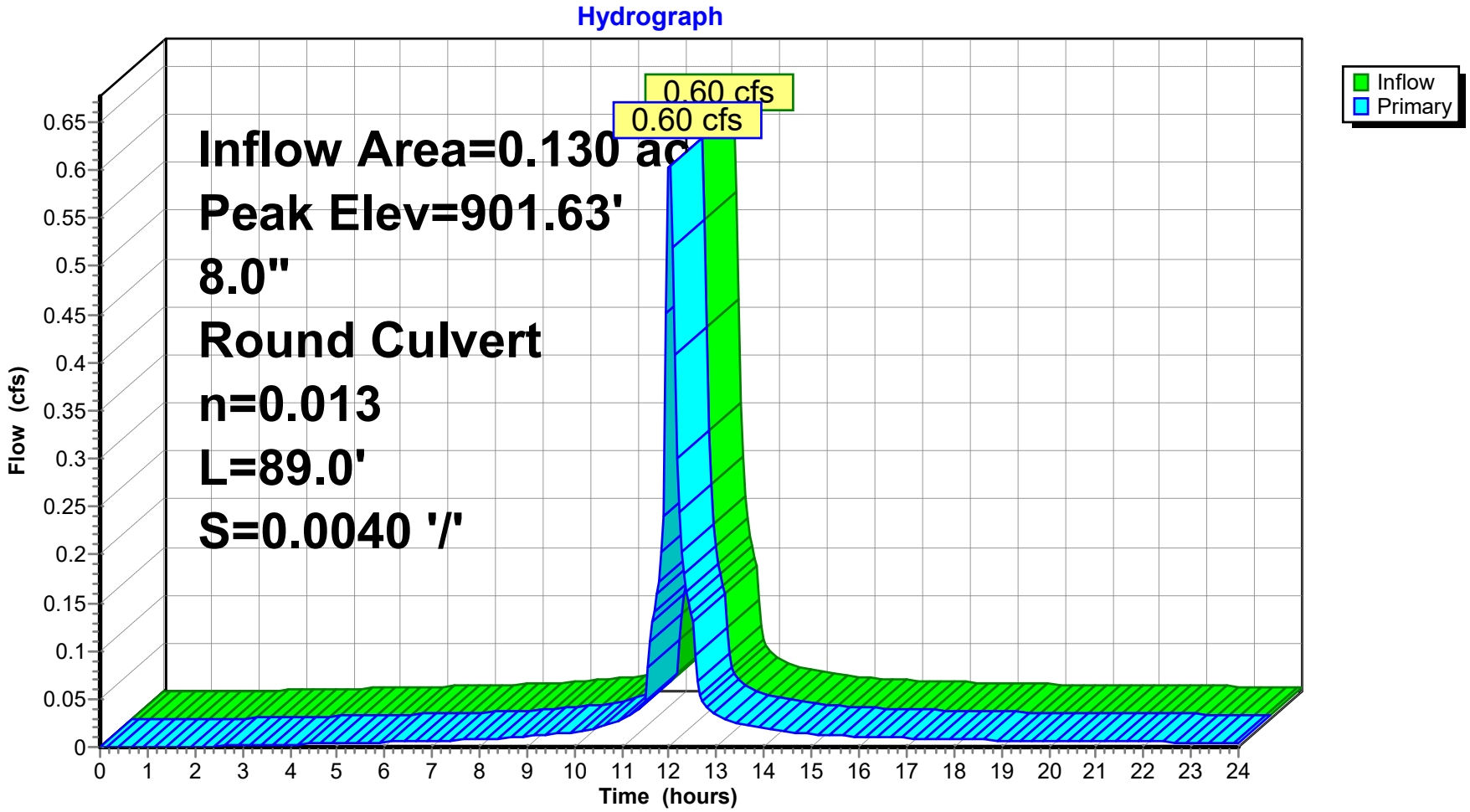
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.63' @ 12.01 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	901.04'	**8.0" Round RCVR 5 to SWALE** L= 89.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 901.04' / 900.68' S= 0.0040 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

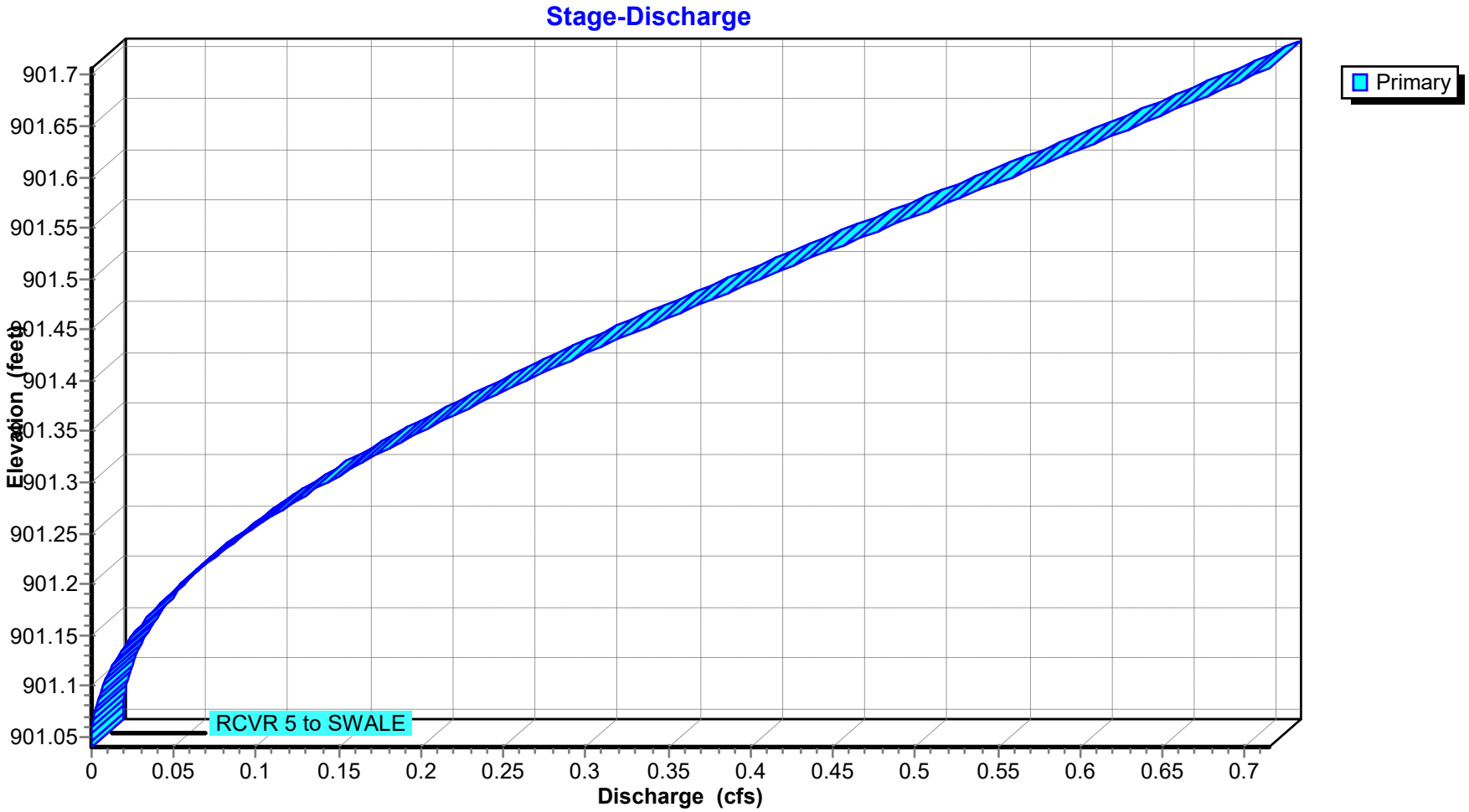
Primary OutFlow Max=0.59 cfs @ 12.01 hrs HW=901.62' TW=901.12' (Dynamic Tailwater)
↳**1=RCVR 5 to SWALE** (Outlet Controls 0.59 cfs @ 2.43 fps)



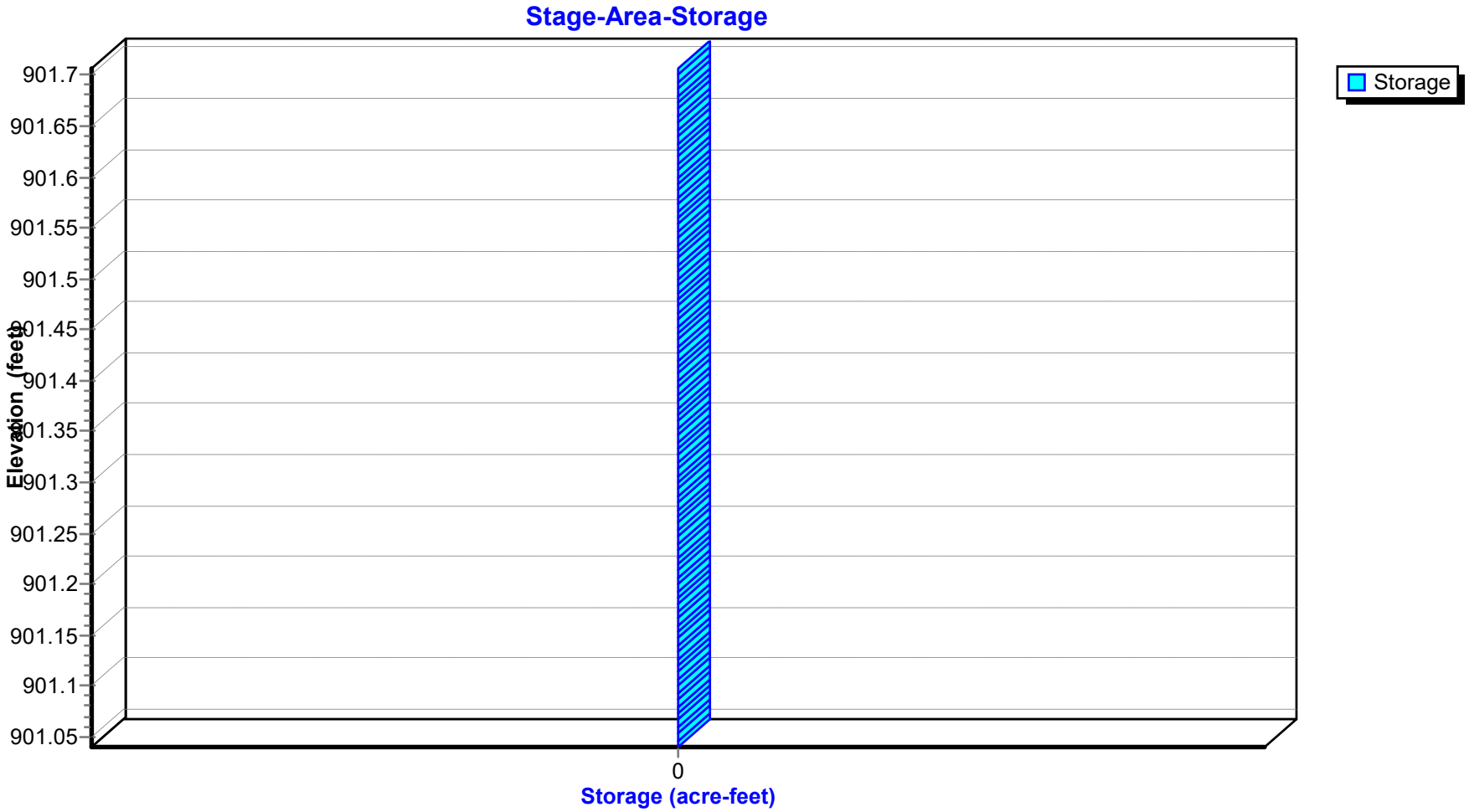
Pond RCVR 5: RCVR 5



Pond RCVR 5: RCVR 5



Pond RCVR 5: RCVR 5



Hydrograph for Pond RCVR 5: RCVR 5

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	901.04	0.00	9.00	0.01	901.11	0.01	18.00	0.01	901.11	0.01
0.25	0.00	901.04	0.00	9.25	0.01	901.12	0.01	18.25	0.01	901.11	0.01
0.50	0.00	901.04	0.00	9.50	0.01	901.12	0.01	18.50	0.01	901.10	0.01
0.75	0.00	901.04	0.00	9.75	0.01	901.12	0.01	18.75	0.01	901.10	0.01
1.00	0.00	901.04	0.00	10.00	0.02	901.13	0.02	19.00	0.01	901.10	0.01
1.25	0.00	901.05	0.00	10.25	0.02	901.13	0.02	19.25	0.01	901.10	0.01
1.50	0.00	901.05	0.00	10.50	0.02	901.14	0.02	19.50	0.01	901.10	0.01
1.75	0.00	901.06	0.00	10.75	0.02	901.15	0.02	19.75	0.01	901.10	0.01
2.00	0.00	901.06	0.00	11.00	0.03	901.16	0.03	20.00	0.01	901.10	0.01
2.25	0.00	901.06	0.00	11.25	0.04	901.17	0.04	20.25	0.01	901.10	0.01
2.50	0.00	901.06	0.00	11.50	0.05	901.19	0.05	20.50	0.01	901.10	0.01
2.75	0.00	901.07	0.00	11.75	0.16	901.31	0.16	20.75	0.01	901.10	0.01
3.00	0.00	901.07	0.00	12.00	**0.60**	**901.63**	**0.60**	21.00	0.01	901.10	0.01
3.25	0.00	901.07	0.00	12.25	0.20	901.49	0.20	21.25	0.01	901.10	0.01
3.50	0.00	901.07	0.00	12.50	0.13	901.43	0.13	21.50	0.01	901.10	0.01
3.75	0.00	901.08	0.00	12.75	0.04	901.27	0.04	21.75	0.01	901.10	0.01
4.00	0.00	901.08	0.00	13.00	0.03	901.20	0.03	22.00	0.01	901.09	0.01
4.25	0.00	901.08	0.00	13.25	0.03	901.18	0.03	22.25	0.01	901.09	0.01
4.50	0.00	901.08	0.00	13.50	0.02	901.16	0.02	22.50	0.01	901.09	0.01
4.75	0.00	901.08	0.00	13.75	0.02	901.15	0.02	22.75	0.01	901.09	0.01
5.00	0.00	901.08	0.00	14.00	0.02	901.14	0.02	23.00	0.01	901.09	0.01
5.25	0.00	901.09	0.00	14.25	0.02	901.14	0.02	23.25	0.00	901.09	0.00
5.50	0.00	901.09	0.00	14.50	0.02	901.13	0.02	23.50	0.00	901.09	0.00
5.75	0.00	901.09	0.00	14.75	0.01	901.13	0.01	23.75	0.00	901.09	0.00
6.00	0.01	901.09	0.01	15.00	0.01	901.13	0.01	24.00	0.00	901.09	0.00
6.25	0.01	901.09	0.01	15.25	0.01	901.12	0.01				
6.50	0.01	901.09	0.01	15.50	0.01	901.12	0.01				
6.75	0.01	901.10	0.01	15.75	0.01	901.12	0.01				
7.00	0.01	901.10	0.01	16.00	0.01	901.12	0.01				
7.25	0.01	901.10	0.01	16.25	0.01	901.12	0.01				
7.50	0.01	901.10	0.01	16.50	0.01	901.11	0.01				
7.75	0.01	901.10	0.01	16.75	0.01	901.11	0.01				
8.00	0.01	901.11	0.01	17.00	0.01	901.11	0.01				
8.25	0.01	901.11	0.01	17.25	0.01	901.11	0.01				
8.50	0.01	901.11	0.01	17.50	0.01	901.11	0.01				
8.75	0.01	901.11	0.01	17.75	0.01	901.11	0.01				

Summary for Pond SWALE: SWALE

Inflow Area = 0.280 ac, 64.29% Impervious, Inflow Depth > 2.95" for 25-yr event
Inflow = 0.79 cfs @ 12.03 hrs, Volume= 0.069 af
Outflow = 0.51 cfs @ 12.35 hrs, Volume= 0.058 af, Atten= 35%, Lag= 18.6 min
Primary = 0.51 cfs @ 12.35 hrs, Volume= 0.058 af
Routed to Pond RCVR 1 : RCVR 1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.39' @ 12.28 hrs Surf.Area= 1,307 sf Storage= 1,170 cf

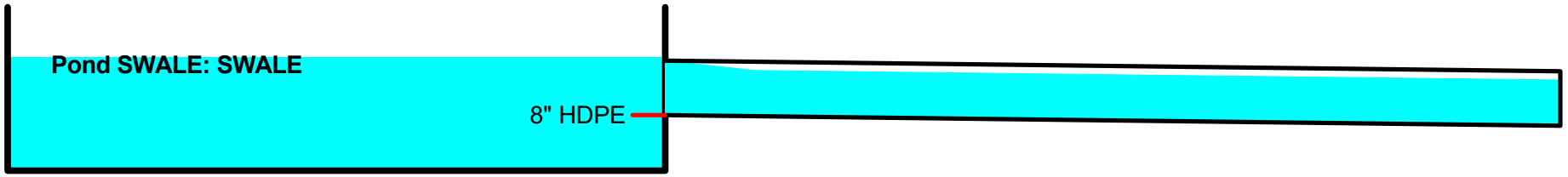
Plug-Flow detention time= 128.3 min calculated for 0.058 af (84% of inflow)
Center-of-Mass det. time= 62.0 min (845.6 - 783.6)

Volume	Invert	Avail.Storage	Storage Description
#1	900.00'	2,104 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
900.00	396	0	0
901.00	1,038	717	717
902.00	1,736	1,387	2,104

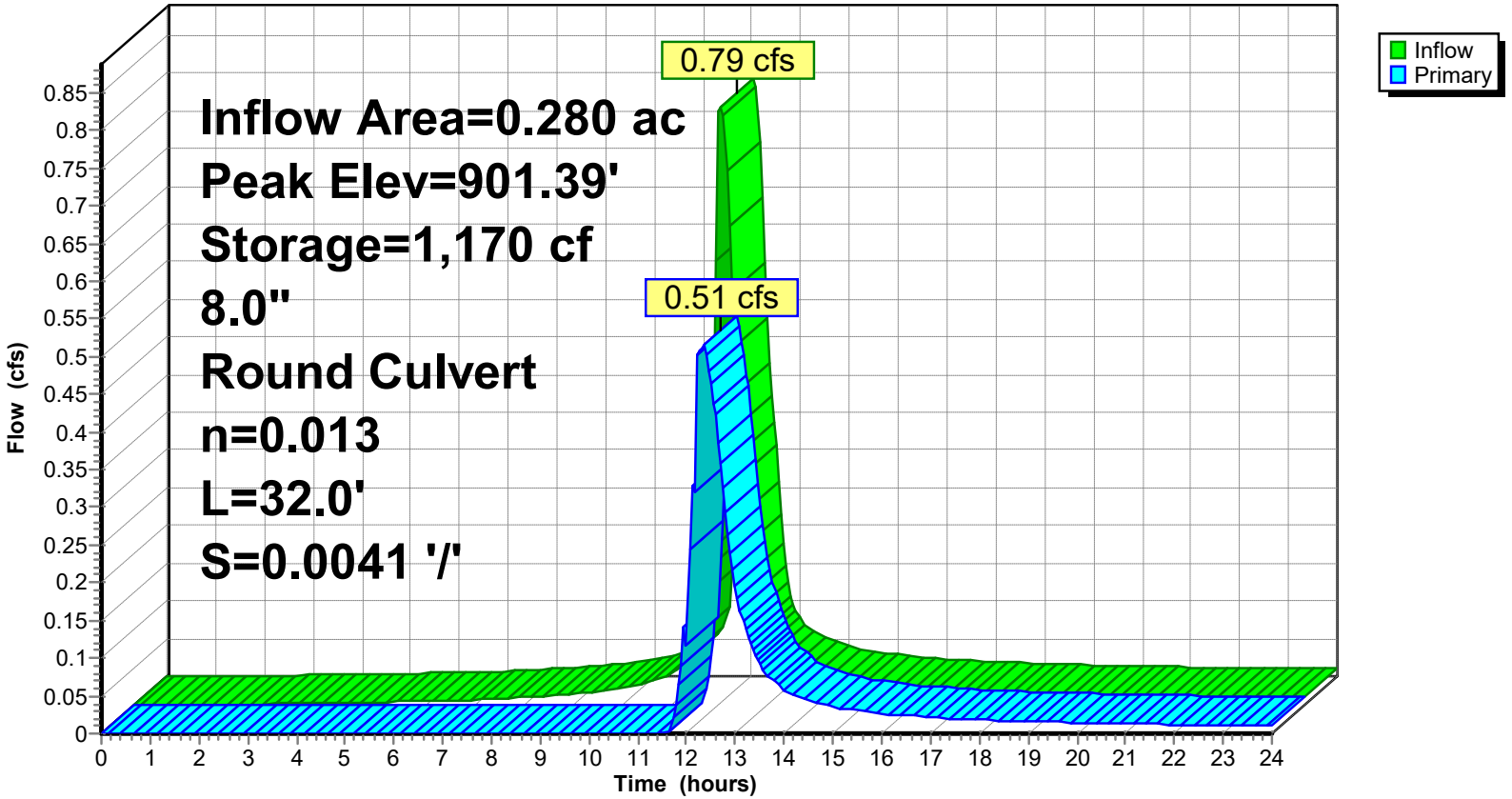
Device	Routing	Invert	Outlet Devices
#1	Primary	900.68'	**8.0" Round 8" HDPE** L= 32.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 900.68' / 900.55' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.54 cfs @ 12.35 hrs HW=901.38' TW=901.22' (Dynamic Tailwater)
↑**1=8" HDPE** (Outlet Controls 0.54 cfs @ 1.84 fps)

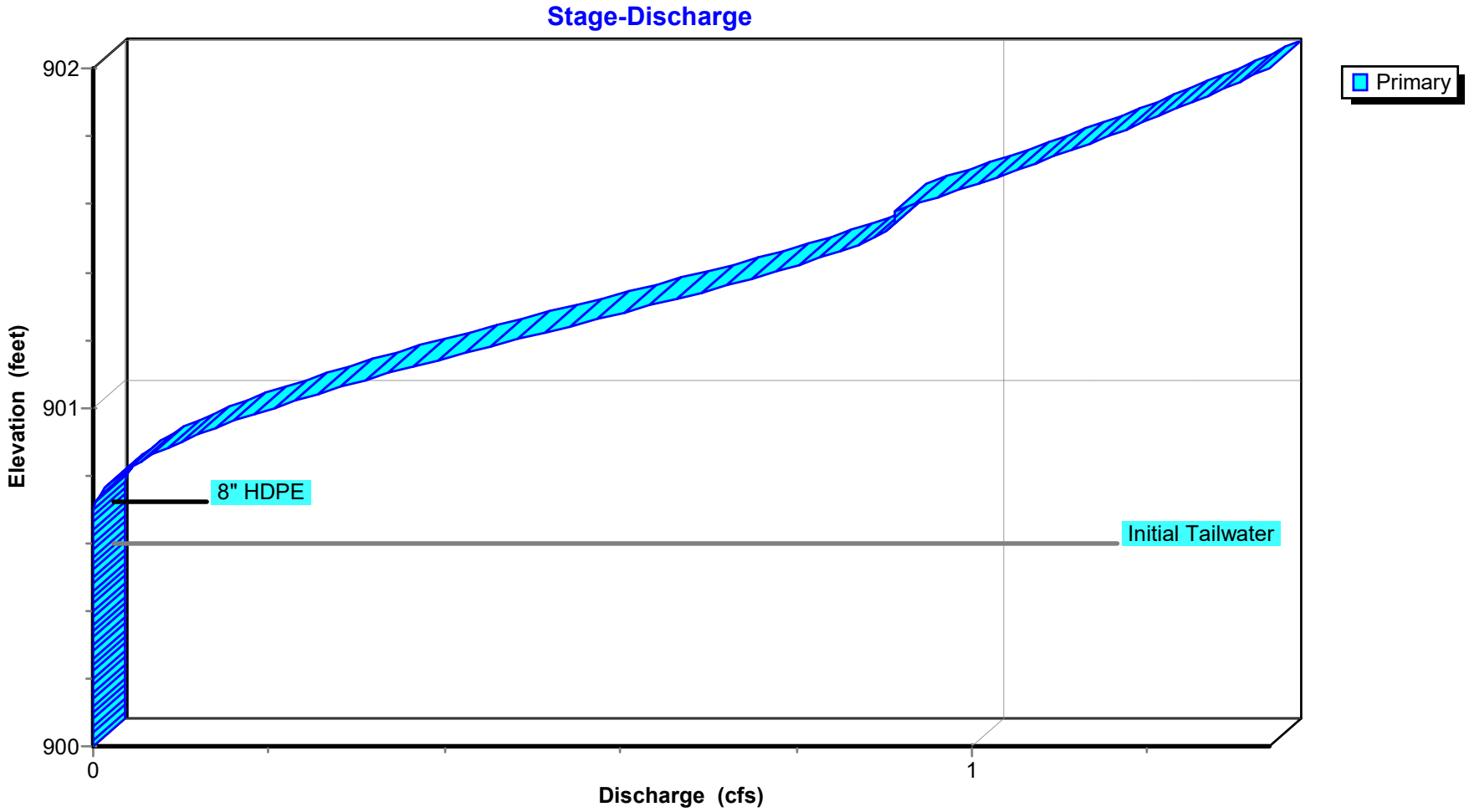


Pond SWALE: SWALE

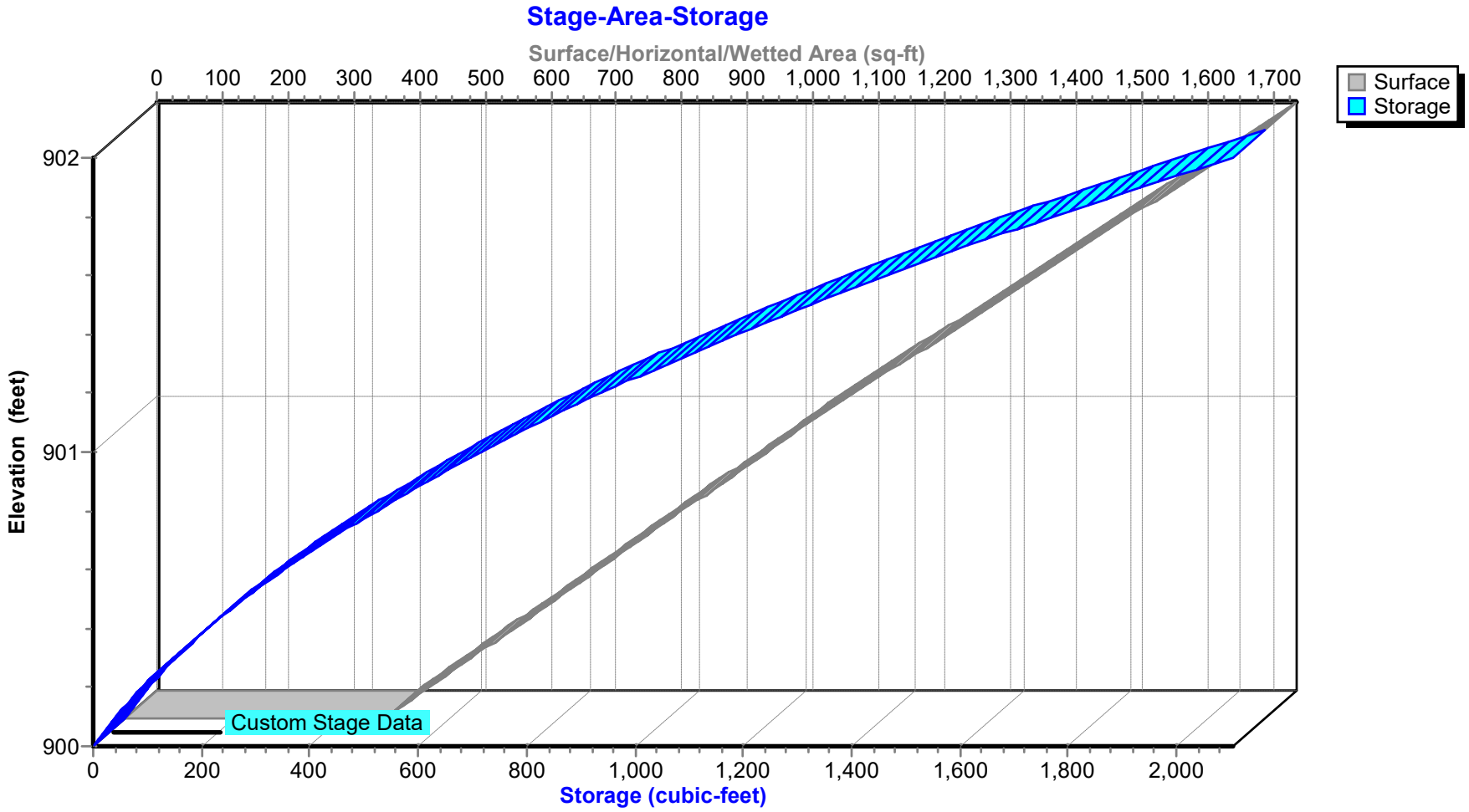
Hydrograph



Pond SWALE: SWALE



Pond SWALE: SWALE



Hydrograph for Pond SWALE: SWALE

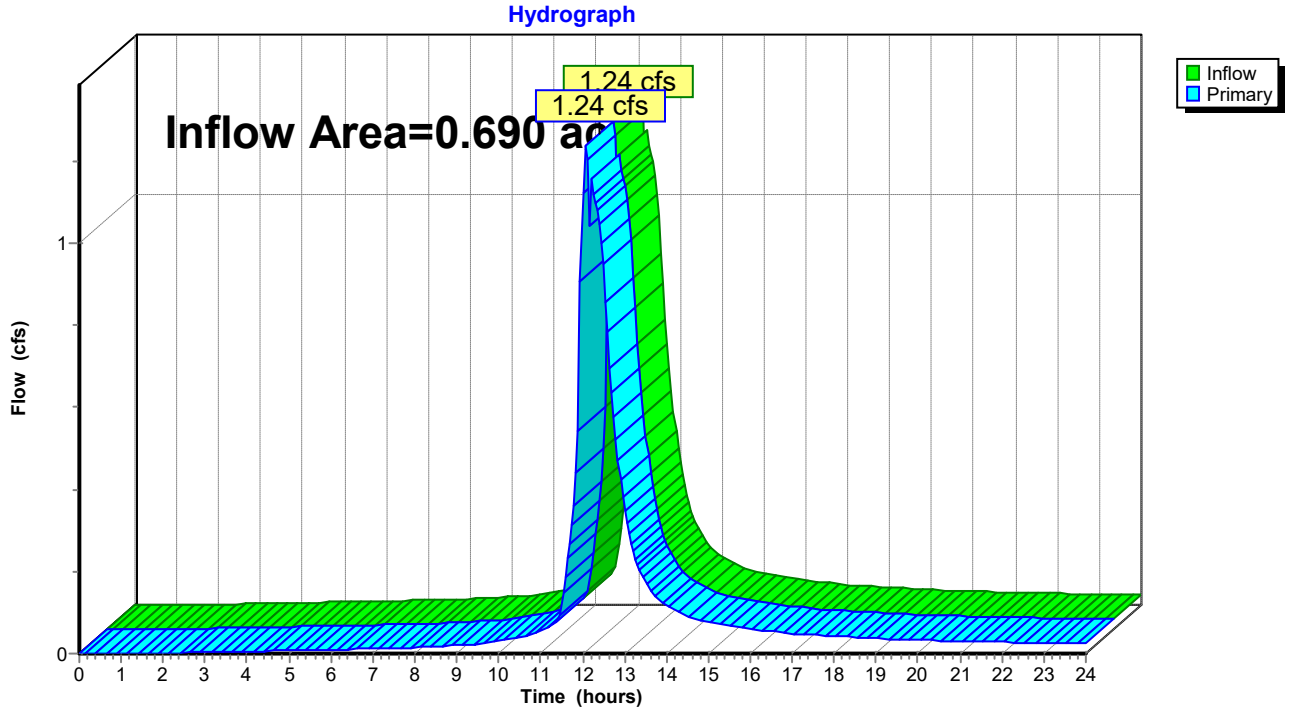
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	900.00	0.00
0.50	0.00	0	900.00	0.00
1.00	0.00	0	900.00	0.00
1.50	0.00	0	900.00	0.00
2.00	0.00	1	900.00	0.00
2.50	0.00	2	900.01	0.00
3.00	0.00	5	900.01	0.00
3.50	0.00	8	900.02	0.00
4.00	0.00	12	900.03	0.00
4.50	0.00	18	900.04	0.00
5.00	0.00	24	900.06	0.00
5.50	0.00	31	900.07	0.00
6.00	0.01	40	900.09	0.00
6.50	0.01	49	900.11	0.00
7.00	0.01	61	900.14	0.00
7.50	0.01	74	900.17	0.00
8.00	0.01	90	900.20	0.00
8.50	0.01	110	900.23	0.00
9.00	0.01	133	900.28	0.00
9.50	0.02	162	900.32	0.00
10.00	0.02	198	900.38	0.00
10.50	0.03	244	900.45	0.00
11.00	0.04	307	900.54	0.00
11.50	0.07	406	900.67	0.00
12.00	**0.79**	**832**	**901.11**	**0.12**
12.50	**0.31**	**1,084**	**901.32**	**0.46**
13.00	0.08	761	901.04	0.20
13.50	0.05	631	900.91	0.09
14.00	0.04	582	900.86	0.06
14.50	0.03	557	900.84	0.04
15.00	0.03	542	900.82	0.04
15.50	0.03	532	900.81	0.03
16.00	0.02	525	900.80	0.03
16.50	0.02	519	900.80	0.02
17.00	0.02	514	900.79	0.02
17.50	0.02	509	900.79	0.02
18.00	0.02	506	900.78	0.02
18.50	0.02	503	900.78	0.02
19.00	0.01	500	900.78	0.02
19.50	0.01	498	900.77	0.02
20.00	0.01	495	900.77	0.01
20.50	0.01	493	900.77	0.01
21.00	0.01	491	900.77	0.01
21.50	0.01	490	900.76	0.01
22.00	0.01	488	900.76	0.01
22.50	0.01	487	900.76	0.01
23.00	0.01	485	900.76	0.01
23.50	0.01	484	900.76	0.01
24.00	0.01	483	900.76	0.01

Summary for Link POST: Post Development

Inflow Area = 0.690 ac, 56.52% Impervious, Inflow Depth > 2.66" for 25-yr event
Inflow = 1.24 cfs @ 12.07 hrs, Volume= 0.153 af
Primary = 1.24 cfs @ 12.07 hrs, Volume= 0.153 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Link POST: Post Development



Hydrograph for Link POST: Post Development

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	9.00	0.02	0.00	0.02	18.00	0.04	0.00	0.04
0.25	0.00	0.00	0.00	9.25	0.02	0.00	0.02	18.25	0.04	0.00	0.04
0.50	0.00	0.00	0.00	9.50	0.02	0.00	0.02	18.50	0.04	0.00	0.04
0.75	0.00	0.00	0.00	9.75	0.03	0.00	0.03	18.75	0.04	0.00	0.04
1.00	0.00	0.00	0.00	10.00	0.03	0.00	0.03	19.00	0.04	0.00	0.04
1.25	0.00	0.00	0.00	10.25	0.03	0.00	0.03	19.25	0.04	0.00	0.04
1.50	0.00	0.00	0.00	10.50	0.04	0.00	0.04	19.50	0.04	0.00	0.04
1.75	0.00	0.00	0.00	10.75	0.05	0.00	0.05	19.75	0.03	0.00	0.03
2.00	0.00	0.00	0.00	11.00	0.05	0.00	0.05	20.00	0.03	0.00	0.03
2.25	0.00	0.00	0.00	11.25	0.07	0.00	0.07	20.25	0.03	0.00	0.03
2.50	0.00	0.00	0.00	11.50	0.10	0.00	0.10	20.50	0.03	0.00	0.03
2.75	0.00	0.00	0.00	11.75	0.31	0.00	0.31	20.75	0.03	0.00	0.03
3.00	0.00	0.00	0.00	12.00	**1.12**	0.00	**1.12**	21.00	0.03	0.00	0.03
3.25	0.00	0.00	0.00	12.25	**1.12**	0.00	**1.12**	21.25	0.03	0.00	0.03
3.50	0.00	0.00	0.00	12.50	0.95	0.00	0.95	21.50	0.03	0.00	0.03
3.75	0.00	0.00	0.00	12.75	0.57	0.00	0.57	21.75	0.03	0.00	0.03
4.00	0.01	0.00	0.01	13.00	0.35	0.00	0.35	22.00	0.03	0.00	0.03
4.25	0.01	0.00	0.01	13.25	0.23	0.00	0.23	22.25	0.03	0.00	0.03
4.50	0.01	0.00	0.01	13.50	0.17	0.00	0.17	22.50	0.03	0.00	0.03
4.75	0.01	0.00	0.01	13.75	0.14	0.00	0.14	22.75	0.03	0.00	0.03
5.00	0.01	0.00	0.01	14.00	0.12	0.00	0.12	23.00	0.03	0.00	0.03
5.25	0.01	0.00	0.01	14.25	0.10	0.00	0.10	23.25	0.03	0.00	0.03
5.50	0.01	0.00	0.01	14.50	0.09	0.00	0.09	23.50	0.02	0.00	0.02
5.75	0.01	0.00	0.01	14.75	0.08	0.00	0.08	23.75	0.02	0.00	0.02
6.00	0.01	0.00	0.01	15.00	0.08	0.00	0.08	24.00	0.02	0.00	0.02
6.25	0.01	0.00	0.01	15.25	0.07	0.00	0.07				
6.50	0.01	0.00	0.01	15.50	0.07	0.00	0.07				
6.75	0.01	0.00	0.01	15.75	0.06	0.00	0.06				
7.00	0.01	0.00	0.01	16.00	0.06	0.00	0.06				
7.25	0.01	0.00	0.01	16.25	0.06	0.00	0.06				
7.50	0.01	0.00	0.01	16.50	0.05	0.00	0.05				
7.75	0.01	0.00	0.01	16.75	0.05	0.00	0.05				
8.00	0.01	0.00	0.01	17.00	0.05	0.00	0.05				
8.25	0.02	0.00	0.02	17.25	0.05	0.00	0.05				
8.50	0.02	0.00	0.02	17.50	0.05	0.00	0.05				
8.75	0.02	0.00	0.02	17.75	0.04	0.00	0.04				

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment ATO: Area to Offsite Runoff Area=0.190 ac 0.00% Impervious Runoff Depth>3.09"
Flow Length=60' Slope=0.0050 '/' Tc=30.0 min CN=80 Runoff=0.47 cfs 0.049 af

Subcatchment DA 1: Drainage Area 1 Runoff Area=0.060 ac 100.00% Impervious Runoff Depth>5.01"
Flow Length=80' Slope=0.0100 '/' Tc=1.6 min CN=98 Runoff=0.48 cfs 0.025 af

Subcatchment DA 2: Drainage Area 2 Runoff Area=0.010 ac 100.00% Impervious Runoff Depth>5.01"
Flow Length=35' Slope=0.0100 '/' Tc=0.8 min CN=98 Runoff=0.08 cfs 0.004 af

Subcatchment DA 3: Drainage Area 3 Runoff Area=0.150 ac 93.33% Impervious Runoff Depth>4.89"
Flow Length=75' Slope=0.0100 '/' Tc=7.2 min CN=97 Runoff=0.97 cfs 0.061 af

Subcatchment DA 4: Drainage Area 4 Runoff Area=0.080 ac 87.50% Impervious Runoff Depth>4.78"
Flow Length=20' Slope=0.0100 '/' Tc=6.3 min CN=96 Runoff=0.53 cfs 0.032 af

Subcatchment DA 5: Drainage Area 5 Runoff Area=0.050 ac 100.00% Impervious Runoff Depth>5.01"
Flow Length=60' Slope=0.0050 '/' Tc=1.7 min CN=98 Runoff=0.40 cfs 0.021 af

Subcatchment DA 6: Drainage Area 6 Runoff Area=0.150 ac 40.00% Impervious Runoff Depth>3.79"
Flow Length=40' Slope=0.0045 '/' Tc=15.0 min CN=87 Runoff=0.63 cfs 0.047 af

Pond EX RCVR: EX RCVR Peak Elev=900.50' Inflow=1.64 cfs 0.179 af
12.0" Round Culvert n=0.013 L=121.0' S=0.0031 '/' Outflow=1.64 cfs 0.179 af

Pond RCVR 1: RCVR 1 Peak Elev=902.22' Inflow=1.35 cfs 0.114 af
8.0" Round Culvert n=0.013 L=59.0' S=0.0041 '/' Outflow=1.35 cfs 0.114 af

Pond RCVR 2: RCVR 2 Peak Elev=902.12' Inflow=1.64 cfs 0.179 af
8.0" Round Culvert n=0.013 L=72.0' S=0.0100 '/' Outflow=1.64 cfs 0.179 af

Pond RCVR 3: RCVR 3 Peak Elev=902.30' Inflow=0.97 cfs 0.061 af
8.0" Round Culvert n=0.013 L=39.0' S=0.0041 '/' Outflow=0.97 cfs 0.061 af

Pond RCVR 4: RCVR 4 Peak Elev=901.97' Inflow=0.53 cfs 0.032 af
8.0" Round Culvert n=0.013 L=22.0' S=0.0041 '/' Outflow=0.53 cfs 0.032 af

Pond RCVR 5: RCVR 5 Peak Elev=901.96' Inflow=0.84 cfs 0.053 af
8.0" Round Culvert n=0.013 L=89.0' S=0.0040 '/' Outflow=0.84 cfs 0.053 af

Pond SWALE: SWALE Peak Elev=901.93' Storage=1,986 cf Inflow=1.15 cfs 0.100 af
8.0" Round Culvert n=0.013 L=32.0' S=0.0041 '/' Outflow=1.27 cfs 0.089 af

Link POST: Post Development Inflow=2.11 cfs 0.228 af
Primary=2.11 cfs 0.228 af

Total Runoff Area = 0.690 ac Runoff Volume = 0.240 af Average Runoff Depth = 4.17"
43.48% Pervious = 0.300 ac 56.52% Impervious = 0.390 ac

Summary for Subcatchment ATO: Area to Offsite

Runoff = 0.47 cfs @ 12.38 hrs, Volume= 0.049 af, Depth> 3.09"
Routed to Link POST : Post Development

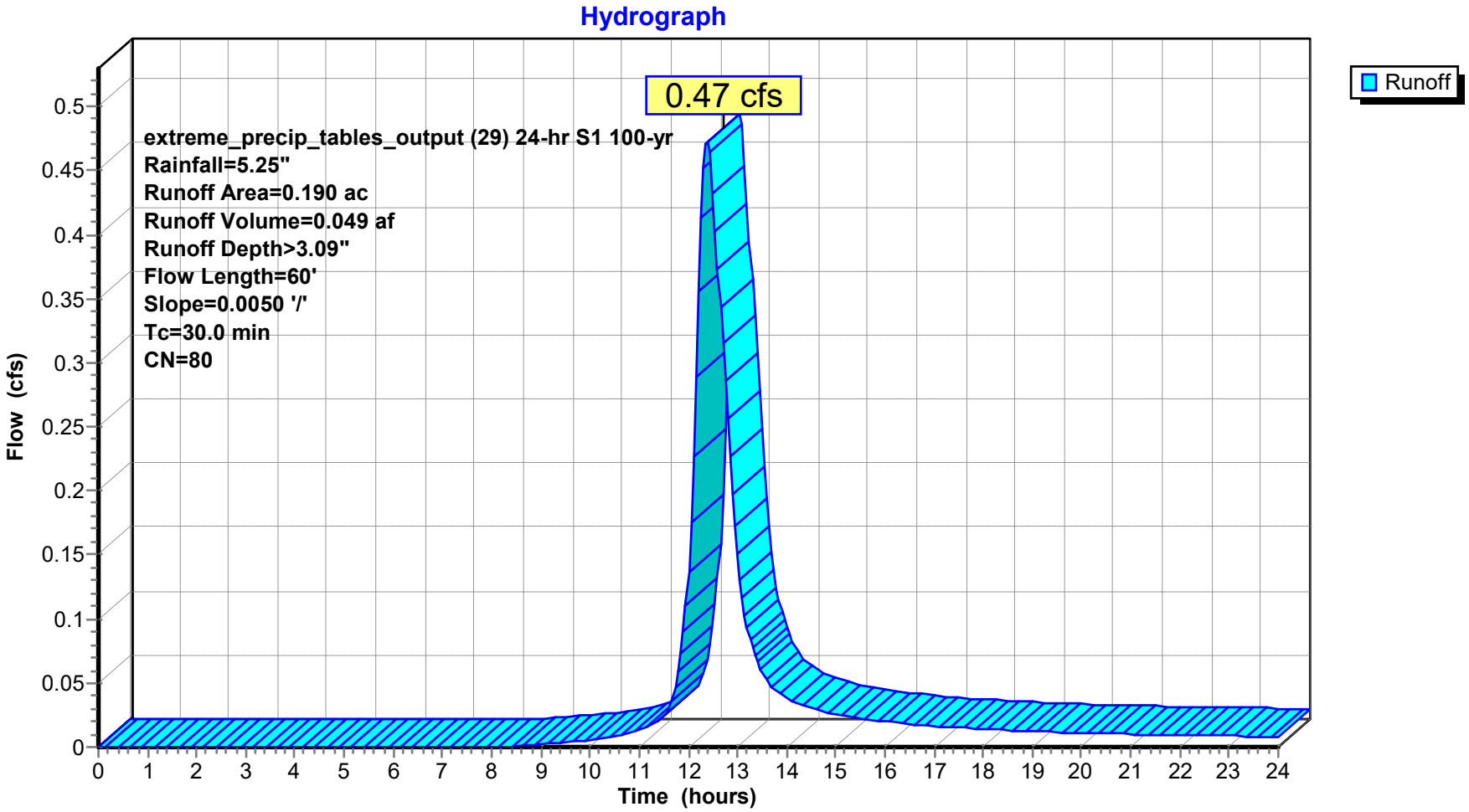
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 100-yr Rainfall=5.25"

Area (ac)	CN	Description
0.190	80	>75% Grass cover, Good, HSG D
0.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.0	60	0.0050	0.03		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.20"



Subcatchment ATO: Area to Offsite



Hydrograph for Subcatchment ATO: Area to Offsite

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.67	0.01	0.00	18.00	4.89	2.80	0.01
0.25	0.01	0.00	0.00	9.25	0.71	0.02	0.00	18.25	4.91	2.82	0.01
0.50	0.02	0.00	0.00	9.50	0.74	0.02	0.00	18.50	4.93	2.83	0.01
0.75	0.04	0.00	0.00	9.75	0.79	0.03	0.00	18.75	4.95	2.85	0.01
1.00	0.05	0.00	0.00	10.00	0.83	0.04	0.01	19.00	4.97	2.86	0.01
1.25	0.06	0.00	0.00	10.25	0.88	0.05	0.01	19.25	4.99	2.88	0.01
1.50	0.07	0.00	0.00	10.50	0.94	0.07	0.01	19.50	5.00	2.89	0.01
1.75	0.09	0.00	0.00	10.75	1.00	0.08	0.01	19.75	5.02	2.91	0.01
2.00	0.10	0.00	0.00	11.00	1.08	0.11	0.01	20.00	5.03	2.92	0.01
2.25	0.11	0.00	0.00	11.25	1.17	0.14	0.02	20.25	5.05	2.94	0.01
2.50	0.13	0.00	0.00	11.50	1.30	0.19	0.02	20.50	5.07	2.95	0.01
2.75	0.14	0.00	0.00	11.75	1.73	0.40	0.05	20.75	5.08	2.96	0.01
3.00	0.16	0.00	0.00	12.00	2.90	1.17	0.14	21.00	5.10	2.98	0.01
3.25	0.17	0.00	0.00	12.25	3.58	1.70	**0.41**	21.25	5.11	2.99	0.01
3.50	0.19	0.00	0.00	12.50	3.98	2.02	**0.43**	21.50	5.12	3.00	0.01
3.75	0.20	0.00	0.00	12.75	4.09	2.12	0.29	21.75	5.14	3.01	0.01
4.00	0.22	0.00	0.00	13.00	4.18	2.19	0.15	22.00	5.15	3.02	0.01
4.25	0.23	0.00	0.00	13.25	4.26	2.26	0.08	22.25	5.16	3.04	0.01
4.50	0.25	0.00	0.00	13.50	4.32	2.31	0.06	22.50	5.18	3.05	0.01
4.75	0.27	0.00	0.00	13.75	4.38	2.36	0.05	22.75	5.19	3.06	0.01
5.00	0.28	0.00	0.00	14.00	4.43	2.40	0.04	23.00	5.20	3.07	0.01
5.25	0.30	0.00	0.00	14.25	4.47	2.44	0.03	23.25	5.21	3.08	0.01
5.50	0.32	0.00	0.00	14.50	4.51	2.47	0.03	23.50	5.23	3.09	0.01
5.75	0.34	0.00	0.00	14.75	4.55	2.50	0.03	23.75	5.24	3.10	0.01
6.00	0.36	0.00	0.00	15.00	4.58	2.53	0.03	24.00	**5.25**	**3.11**	0.01
6.25	0.38	0.00	0.00	15.25	4.62	2.56	0.02				
6.50	0.40	0.00	0.00	15.50	4.65	2.59	0.02				
6.75	0.42	0.00	0.00	15.75	4.68	2.61	0.02				
7.00	0.45	0.00	0.00	16.00	4.71	2.64	0.02				
7.25	0.47	0.00	0.00	16.25	4.73	2.66	0.02				
7.50	0.49	0.00	0.00	16.50	4.76	2.68	0.02				
7.75	0.52	0.00	0.00	16.75	4.78	2.71	0.02				
8.00	0.55	0.00	0.00	17.00	4.81	2.73	0.02				
8.25	0.57	0.00	0.00	17.25	4.83	2.74	0.02				
8.50	0.60	0.00	0.00	17.50	4.85	2.76	0.02				
8.75	0.64	0.01	0.00	17.75	4.87	2.78	0.01				

Summary for Subcatchment DA 1: Drainage Area 1

Runoff = 0.48 cfs @ 11.98 hrs, Volume= 0.025 af, Depth> 5.01"
Routed to Pond RCVR 1 : RCVR 1

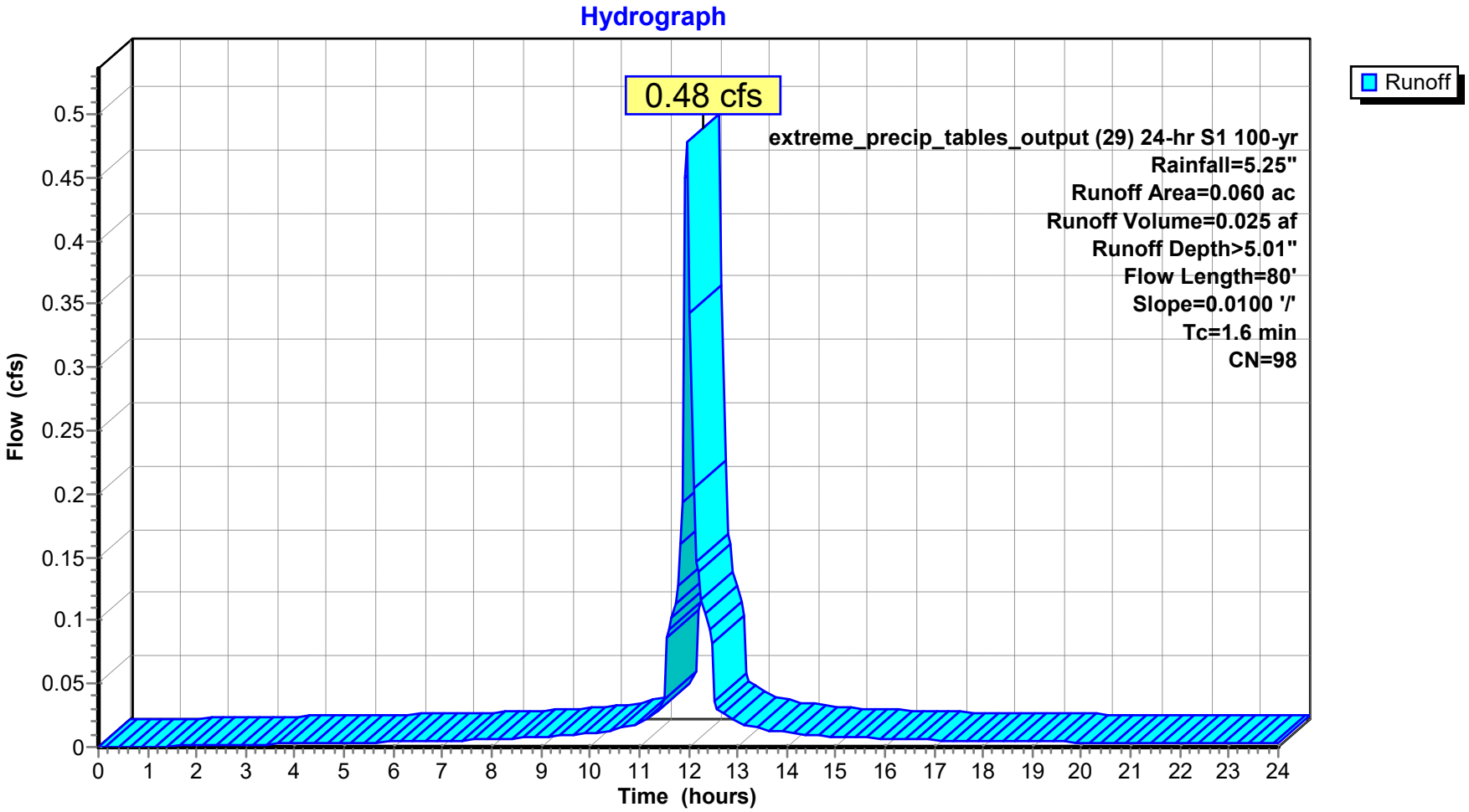
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 100-yr Rainfall=5.25"

Area (ac)	CN	Description
0.060	98	Paved parking, HSG D
0.060		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	80	0.0100	0.83		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"



Subcatchment DA 1: Drainage Area 1



Hydrograph for Subcatchment DA 1: Drainage Area 1

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.67	0.47	0.01	18.00	4.89	4.66	0.00
0.25	0.01	0.00	0.00	9.25	0.71	0.51	0.01	18.25	4.91	4.68	0.00
0.50	0.02	0.00	0.00	9.50	0.74	0.55	0.01	18.50	4.93	4.69	0.00
0.75	0.04	0.00	0.00	9.75	0.79	0.59	0.01	18.75	4.95	4.71	0.00
1.00	0.05	0.00	0.00	10.00	0.83	0.63	0.01	19.00	4.97	4.73	0.00
1.25	0.06	0.00	0.00	10.25	0.88	0.68	0.01	19.25	4.99	4.75	0.00
1.50	0.07	0.00	0.00	10.50	0.94	0.73	0.01	19.50	5.00	4.77	0.00
1.75	0.09	0.01	0.00	10.75	1.00	0.80	0.02	19.75	5.02	4.78	0.00
2.00	0.10	0.01	0.00	11.00	1.08	0.87	0.02	20.00	5.03	4.80	0.00
2.25	0.11	0.02	0.00	11.25	1.17	0.96	0.02	20.25	5.05	4.81	0.00
2.50	0.13	0.03	0.00	11.50	1.30	1.08	0.04	20.50	5.07	4.83	0.00
2.75	0.14	0.03	0.00	11.75	1.73	1.51	0.12	20.75	5.08	4.84	0.00
3.00	0.16	0.04	0.00	12.00	2.90	2.67	**0.45**	21.00	5.10	4.86	0.00
3.25	0.17	0.05	0.00	12.25	3.58	3.34	0.12	21.25	5.11	4.87	0.00
3.50	0.19	0.06	0.00	12.50	3.98	3.74	0.08	21.50	5.12	4.89	0.00
3.75	0.20	0.07	0.00	12.75	4.09	3.86	0.02	21.75	5.14	4.90	0.00
4.00	0.22	0.08	0.00	13.00	4.18	3.95	0.02	22.00	5.15	4.91	0.00
4.25	0.23	0.09	0.00	13.25	4.26	4.02	0.02	22.25	5.16	4.93	0.00
4.50	0.25	0.11	0.00	13.50	4.32	4.08	0.01	22.50	5.18	4.94	0.00
4.75	0.27	0.12	0.00	13.75	4.38	4.14	0.01	22.75	5.19	4.95	0.00
5.00	0.28	0.13	0.00	14.00	4.43	4.19	0.01	23.00	5.20	4.97	0.00
5.25	0.30	0.15	0.00	14.25	4.47	4.23	0.01	23.25	5.21	4.98	0.00
5.50	0.32	0.16	0.00	14.50	4.51	4.28	0.01	23.50	5.23	4.99	0.00
5.75	0.34	0.18	0.00	14.75	4.55	4.31	0.01	23.75	5.24	5.00	0.00
6.00	0.36	0.19	0.00	15.00	4.58	4.35	0.01	24.00	**5.25**	**5.01**	0.00
6.25	0.38	0.21	0.00	15.25	4.62	4.38	0.01				
6.50	0.40	0.23	0.00	15.50	4.65	4.41	0.01				
6.75	0.42	0.25	0.00	15.75	4.68	4.44	0.01				
7.00	0.45	0.27	0.00	16.00	4.71	4.47	0.01				
7.25	0.47	0.29	0.01	16.25	4.73	4.50	0.01				
7.50	0.49	0.31	0.01	16.50	4.76	4.52	0.01				
7.75	0.52	0.34	0.01	16.75	4.78	4.55	0.01				
8.00	0.55	0.36	0.01	17.00	4.81	4.57	0.01				
8.25	0.57	0.39	0.01	17.25	4.83	4.59	0.01				
8.50	0.60	0.41	0.01	17.50	4.85	4.61	0.01				
8.75	0.64	0.44	0.01	17.75	4.87	4.64	0.00				

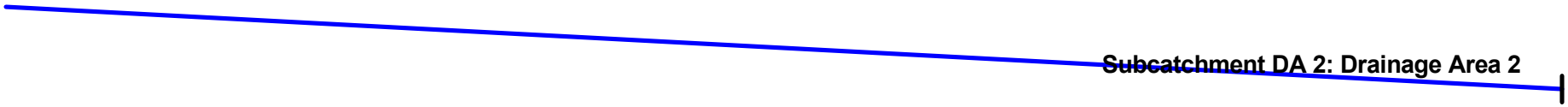
Summary for Subcatchment DA 2: Drainage Area 2

Runoff = 0.08 cfs @ 11.96 hrs, Volume= 0.004 af, Depth> 5.01"
Routed to Pond RCVR 2 : RCVR 2

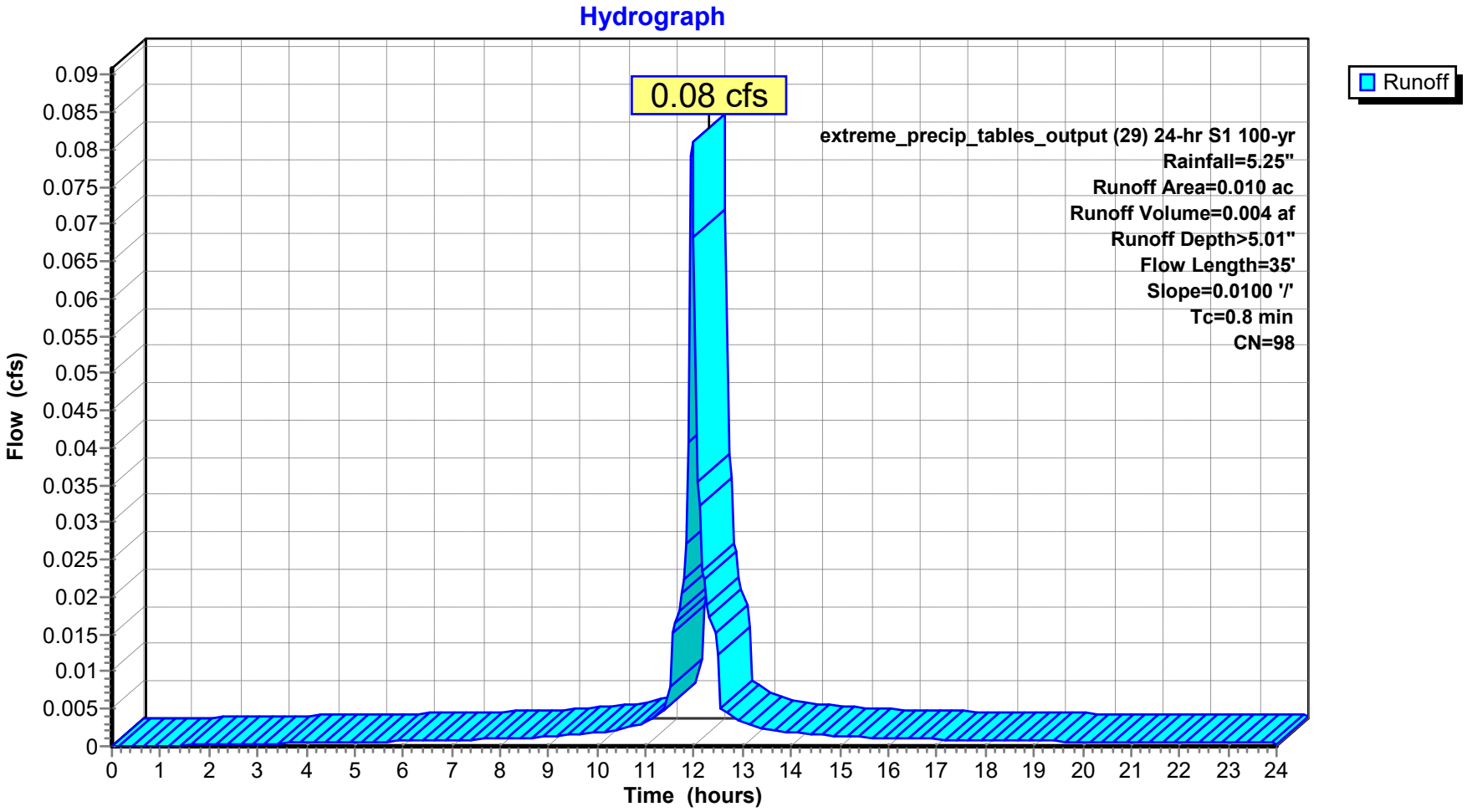
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 100-yr Rainfall=5.25"

Area (ac)	CN	Description
0.010	98	Paved parking, HSG D
0.010		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	35	0.0100	0.70		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"



Subcatchment DA 2: Drainage Area 2



Hydrograph for Subcatchment DA 2: Drainage Area 2

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.67	0.47	0.00	18.00	4.89	4.66	0.00
0.25	0.01	0.00	0.00	9.25	0.71	0.51	0.00	18.25	4.91	4.68	0.00
0.50	0.02	0.00	0.00	9.50	0.74	0.55	0.00	18.50	4.93	4.69	0.00
0.75	0.04	0.00	0.00	9.75	0.79	0.59	0.00	18.75	4.95	4.71	0.00
1.00	0.05	0.00	0.00	10.00	0.83	0.63	0.00	19.00	4.97	4.73	0.00
1.25	0.06	0.00	0.00	10.25	0.88	0.68	0.00	19.25	4.99	4.75	0.00
1.50	0.07	0.00	0.00	10.50	0.94	0.73	0.00	19.50	5.00	4.77	0.00
1.75	0.09	0.01	0.00	10.75	1.00	0.80	0.00	19.75	5.02	4.78	0.00
2.00	0.10	0.01	0.00	11.00	1.08	0.87	0.00	20.00	5.03	4.80	0.00
2.25	0.11	0.02	0.00	11.25	1.17	0.96	0.00	20.25	5.05	4.81	0.00
2.50	0.13	0.03	0.00	11.50	1.30	1.08	0.01	20.50	5.07	4.83	0.00
2.75	0.14	0.03	0.00	11.75	1.73	1.51	**0.02**	20.75	5.08	4.84	0.00
3.00	0.16	0.04	0.00	12.00	2.90	2.67	**0.07**	21.00	5.10	4.86	0.00
3.25	0.17	0.05	0.00	12.25	3.58	3.34	0.02	21.25	5.11	4.87	0.00
3.50	0.19	0.06	0.00	12.50	3.98	3.74	0.01	21.50	5.12	4.89	0.00
3.75	0.20	0.07	0.00	12.75	4.09	3.86	0.00	21.75	5.14	4.90	0.00
4.00	0.22	0.08	0.00	13.00	4.18	3.95	0.00	22.00	5.15	4.91	0.00
4.25	0.23	0.09	0.00	13.25	4.26	4.02	0.00	22.25	5.16	4.93	0.00
4.50	0.25	0.11	0.00	13.50	4.32	4.08	0.00	22.50	5.18	4.94	0.00
4.75	0.27	0.12	0.00	13.75	4.38	4.14	0.00	22.75	5.19	4.95	0.00
5.00	0.28	0.13	0.00	14.00	4.43	4.19	0.00	23.00	5.20	4.97	0.00
5.25	0.30	0.15	0.00	14.25	4.47	4.23	0.00	23.25	5.21	4.98	0.00
5.50	0.32	0.16	0.00	14.50	4.51	4.28	0.00	23.50	5.23	4.99	0.00
5.75	0.34	0.18	0.00	14.75	4.55	4.31	0.00	23.75	5.24	5.00	0.00
6.00	0.36	0.19	0.00	15.00	4.58	4.35	0.00	24.00	**5.25**	**5.01**	0.00
6.25	0.38	0.21	0.00	15.25	4.62	4.38	0.00				
6.50	0.40	0.23	0.00	15.50	4.65	4.41	0.00				
6.75	0.42	0.25	0.00	15.75	4.68	4.44	0.00				
7.00	0.45	0.27	0.00	16.00	4.71	4.47	0.00				
7.25	0.47	0.29	0.00	16.25	4.73	4.50	0.00				
7.50	0.49	0.31	0.00	16.50	4.76	4.52	0.00				
7.75	0.52	0.34	0.00	16.75	4.78	4.55	0.00				
8.00	0.55	0.36	0.00	17.00	4.81	4.57	0.00				
8.25	0.57	0.39	0.00	17.25	4.83	4.59	0.00				
8.50	0.60	0.41	0.00	17.50	4.85	4.61	0.00				
8.75	0.64	0.44	0.00	17.75	4.87	4.64	0.00				

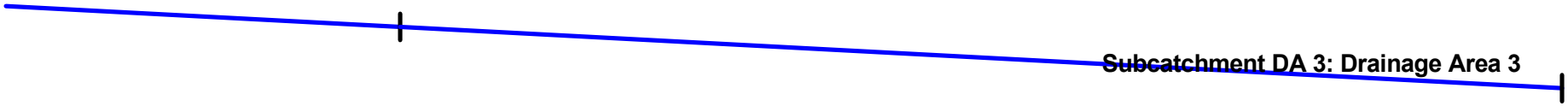
Summary for Subcatchment DA 3: Drainage Area 3

Runoff = 0.97 cfs @ 12.05 hrs, Volume= 0.061 af, Depth> 4.89"
Routed to Pond RCVR 3 : RCVR 3

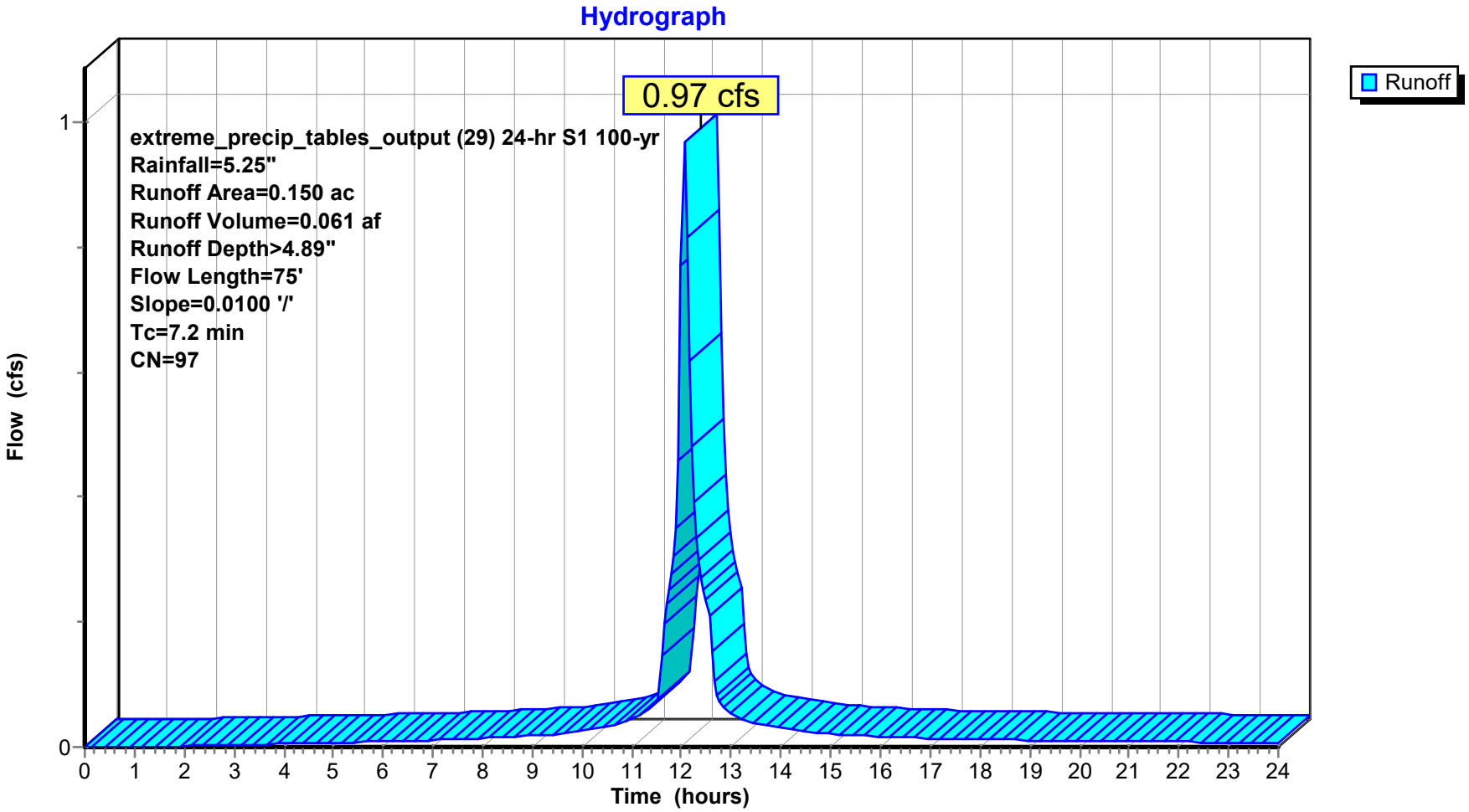
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 100-yr Rainfall=5.25"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.010	80	>75% Grass cover, Good, HSG D
0.150	97	Weighted Average
0.010		6.67% Pervious Area
0.140		93.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	19	0.0100	0.05		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"
1.2	56	0.0100	0.77		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"
7.2	75	Total			



Subcatchment DA 3: Drainage Area 3



Hydrograph for Subcatchment DA 3: Drainage Area 3

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.67	0.40	0.02	18.00	4.89	4.54	0.01
0.25	0.01	0.00	0.00	9.25	0.71	0.43	0.02	18.25	4.91	4.56	0.01
0.50	0.02	0.00	0.00	9.50	0.74	0.47	0.02	18.50	4.93	4.58	0.01
0.75	0.04	0.00	0.00	9.75	0.79	0.51	0.02	18.75	4.95	4.60	0.01
1.00	0.05	0.00	0.00	10.00	0.83	0.55	0.03	19.00	4.97	4.61	0.01
1.25	0.06	0.00	0.00	10.25	0.88	0.60	0.03	19.25	4.99	4.63	0.01
1.50	0.07	0.00	0.00	10.50	0.94	0.65	0.03	19.50	5.00	4.65	0.01
1.75	0.09	0.00	0.00	10.75	1.00	0.71	0.04	19.75	5.02	4.67	0.01
2.00	0.10	0.00	0.00	11.00	1.08	0.78	0.04	20.00	5.03	4.68	0.01
2.25	0.11	0.01	0.00	11.25	1.17	0.87	0.05	20.25	5.05	4.70	0.01
2.50	0.13	0.01	0.00	11.50	1.30	0.99	0.07	20.50	5.07	4.71	0.01
2.75	0.14	0.02	0.00	11.75	1.73	1.41	0.25	20.75	5.08	4.73	0.01
3.00	0.16	0.02	0.00	12.00	2.90	2.56	**0.77**	21.00	5.10	4.74	0.01
3.25	0.17	0.03	0.00	12.25	3.58	3.23	**0.39**	21.25	5.11	4.76	0.01
3.50	0.19	0.04	0.00	12.50	3.98	3.63	0.23	21.50	5.12	4.77	0.01
3.75	0.20	0.04	0.00	12.75	4.09	3.74	0.07	21.75	5.14	4.78	0.01
4.00	0.22	0.05	0.01	13.00	4.18	3.83	0.05	22.00	5.15	4.80	0.01
4.25	0.23	0.06	0.01	13.25	4.26	3.91	0.04	22.25	5.16	4.81	0.01
4.50	0.25	0.07	0.01	13.50	4.32	3.97	0.04	22.50	5.18	4.82	0.01
4.75	0.27	0.08	0.01	13.75	4.38	4.03	0.03	22.75	5.19	4.84	0.01
5.00	0.28	0.09	0.01	14.00	4.43	4.07	0.03	23.00	5.20	4.85	0.01
5.25	0.30	0.10	0.01	14.25	4.47	4.12	0.03	23.25	5.21	4.86	0.01
5.50	0.32	0.12	0.01	14.50	4.51	4.16	0.02	23.50	5.23	4.87	0.01
5.75	0.34	0.13	0.01	14.75	4.55	4.20	0.02	23.75	5.24	4.88	0.01
6.00	0.36	0.15	0.01	15.00	4.58	4.23	0.02	24.00	**5.25**	**4.90**	0.01
6.25	0.38	0.16	0.01	15.25	4.62	4.27	0.02				
6.50	0.40	0.18	0.01	15.50	4.65	4.30	0.02				
6.75	0.42	0.19	0.01	15.75	4.68	4.33	0.02				
7.00	0.45	0.21	0.01	16.00	4.71	4.36	0.02				
7.25	0.47	0.23	0.01	16.25	4.73	4.38	0.02				
7.50	0.49	0.25	0.01	16.50	4.76	4.41	0.02				
7.75	0.52	0.27	0.01	16.75	4.78	4.43	0.01				
8.00	0.55	0.30	0.01	17.00	4.81	4.46	0.01				
8.25	0.57	0.32	0.01	17.25	4.83	4.48	0.01				
8.50	0.60	0.35	0.02	17.50	4.85	4.50	0.01				
8.75	0.64	0.37	0.02	17.75	4.87	4.52	0.01				

Summary for Subcatchment DA 4: Drainage Area 4

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.032 af, Depth> 4.78"
Routed to Pond RCVR 4 : RCVR 4

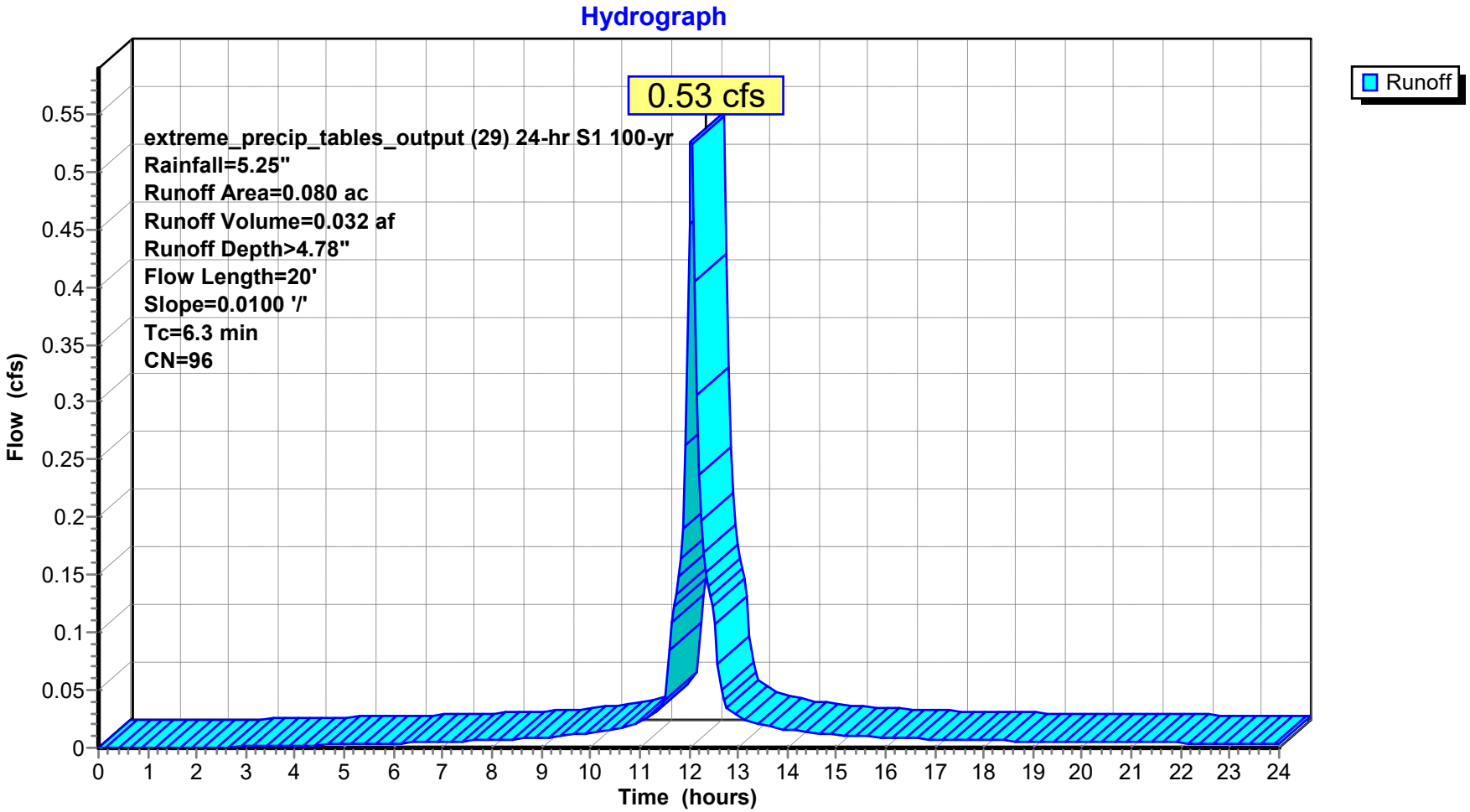
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 100-yr Rainfall=5.25"

Area (ac)	CN	Description
0.070	98	Paved parking, HSG D
0.010	80	>75% Grass cover, Good, HSG D
0.080	96	Weighted Average
0.010		12.50% Pervious Area
0.070		87.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	20	0.0100	0.05		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment DA 4: Drainage Area 4



Hydrograph for Subcatchment DA 4: Drainage Area 4

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.67	0.34	0.01	18.00	4.89	4.43	0.01
0.25	0.01	0.00	0.00	9.25	0.71	0.37	0.01	18.25	4.91	4.45	0.01
0.50	0.02	0.00	0.00	9.50	0.74	0.41	0.01	18.50	4.93	4.46	0.01
0.75	0.04	0.00	0.00	9.75	0.79	0.44	0.01	18.75	4.95	4.48	0.01
1.00	0.05	0.00	0.00	10.00	0.83	0.48	0.01	19.00	4.97	4.50	0.01
1.25	0.06	0.00	0.00	10.25	0.88	0.53	0.01	19.25	4.99	4.52	0.01
1.50	0.07	0.00	0.00	10.50	0.94	0.58	0.02	19.50	5.00	4.53	0.01
1.75	0.09	0.00	0.00	10.75	1.00	0.63	0.02	19.75	5.02	4.55	0.01
2.00	0.10	0.00	0.00	11.00	1.08	0.70	0.02	20.00	5.03	4.57	0.01
2.25	0.11	0.00	0.00	11.25	1.17	0.79	0.03	20.25	5.05	4.58	0.01
2.50	0.13	0.00	0.00	11.50	1.30	0.90	0.04	20.50	5.07	4.60	0.00
2.75	0.14	0.01	0.00	11.75	1.73	1.31	0.13	20.75	5.08	4.61	0.00
3.00	0.16	0.01	0.00	12.00	2.90	2.45	**0.46**	21.00	5.10	4.63	0.00
3.25	0.17	0.01	0.00	12.25	3.58	3.12	**0.20**	21.25	5.11	4.64	0.00
3.50	0.19	0.02	0.00	12.50	3.98	3.52	0.12	21.50	5.12	4.66	0.00
3.75	0.20	0.03	0.00	12.75	4.09	3.63	0.04	21.75	5.14	4.67	0.00
4.00	0.22	0.03	0.00	13.00	4.18	3.72	0.03	22.00	5.15	4.68	0.00
4.25	0.23	0.04	0.00	13.25	4.26	3.80	0.02	22.25	5.16	4.70	0.00
4.50	0.25	0.05	0.00	13.50	4.32	3.86	0.02	22.50	5.18	4.71	0.00
4.75	0.27	0.06	0.00	13.75	4.38	3.91	0.02	22.75	5.19	4.72	0.00
5.00	0.28	0.06	0.00	14.00	4.43	3.96	0.02	23.00	5.20	4.73	0.00
5.25	0.30	0.08	0.00	14.25	4.47	4.01	0.01	23.25	5.21	4.75	0.00
5.50	0.32	0.09	0.00	14.50	4.51	4.05	0.01	23.50	5.23	4.76	0.00
5.75	0.34	0.10	0.00	14.75	4.55	4.09	0.01	23.75	5.24	4.77	0.00
6.00	0.36	0.11	0.00	15.00	4.58	4.12	0.01	24.00	**5.25**	**4.78**	0.00
6.25	0.38	0.12	0.00	15.25	4.62	4.15	0.01				
6.50	0.40	0.14	0.00	15.50	4.65	4.18	0.01				
6.75	0.42	0.15	0.00	15.75	4.68	4.21	0.01				
7.00	0.45	0.17	0.01	16.00	4.71	4.24	0.01				
7.25	0.47	0.19	0.01	16.25	4.73	4.27	0.01				
7.50	0.49	0.20	0.01	16.50	4.76	4.29	0.01				
7.75	0.52	0.22	0.01	16.75	4.78	4.32	0.01				
8.00	0.55	0.24	0.01	17.00	4.81	4.34	0.01				
8.25	0.57	0.27	0.01	17.25	4.83	4.36	0.01				
8.50	0.60	0.29	0.01	17.50	4.85	4.39	0.01				
8.75	0.64	0.32	0.01	17.75	4.87	4.41	0.01				

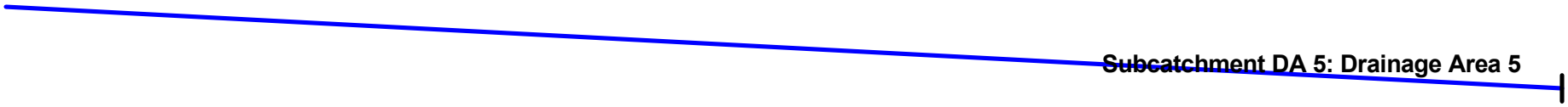
Summary for Subcatchment DA 5: Drainage Area 5

Runoff = 0.40 cfs @ 11.98 hrs, Volume= 0.021 af, Depth> 5.01"
Routed to Pond RCVR 5 : RCVR 5

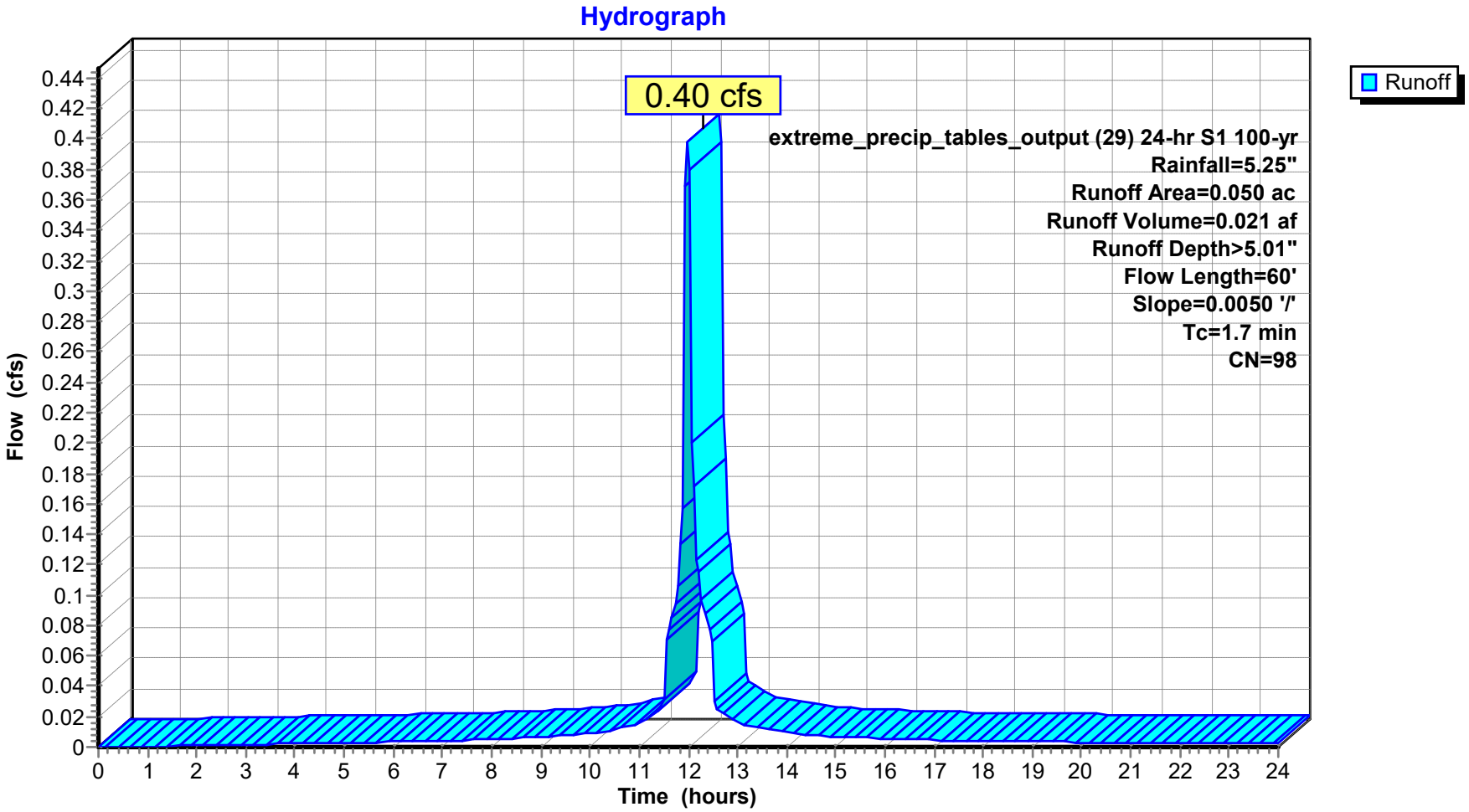
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 100-yr Rainfall=5.25"

Area (ac)	CN	Description
0.050	98	Paved parking, HSG D
0.050		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	60	0.0050	0.59		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.20"



Subcatchment DA 5: Drainage Area 5



Hydrograph for Subcatchment DA 5: Drainage Area 5

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.67	0.47	0.01	18.00	4.89	4.66	0.00
0.25	0.01	0.00	0.00	9.25	0.71	0.51	0.01	18.25	4.91	4.68	0.00
0.50	0.02	0.00	0.00	9.50	0.74	0.55	0.01	18.50	4.93	4.69	0.00
0.75	0.04	0.00	0.00	9.75	0.79	0.59	0.01	18.75	4.95	4.71	0.00
1.00	0.05	0.00	0.00	10.00	0.83	0.63	0.01	19.00	4.97	4.73	0.00
1.25	0.06	0.00	0.00	10.25	0.88	0.68	0.01	19.25	4.99	4.75	0.00
1.50	0.07	0.00	0.00	10.50	0.94	0.73	0.01	19.50	5.00	4.77	0.00
1.75	0.09	0.01	0.00	10.75	1.00	0.80	0.01	19.75	5.02	4.78	0.00
2.00	0.10	0.01	0.00	11.00	1.08	0.87	0.02	20.00	5.03	4.80	0.00
2.25	0.11	0.02	0.00	11.25	1.17	0.96	0.02	20.25	5.05	4.81	0.00
2.50	0.13	0.03	0.00	11.50	1.30	1.08	0.03	20.50	5.07	4.83	0.00
2.75	0.14	0.03	0.00	11.75	1.73	1.51	0.10	20.75	5.08	4.84	0.00
3.00	0.16	0.04	0.00	12.00	2.90	2.67	**0.38**	21.00	5.10	4.86	0.00
3.25	0.17	0.05	0.00	12.25	3.58	3.34	0.10	21.25	5.11	4.87	0.00
3.50	0.19	0.06	0.00	12.50	3.98	3.74	0.07	21.50	5.12	4.89	0.00
3.75	0.20	0.07	0.00	12.75	4.09	3.86	0.02	21.75	5.14	4.90	0.00
4.00	0.22	0.08	0.00	13.00	4.18	3.95	0.02	22.00	5.15	4.91	0.00
4.25	0.23	0.09	0.00	13.25	4.26	4.02	0.01	22.25	5.16	4.93	0.00
4.50	0.25	0.11	0.00	13.50	4.32	4.08	0.01	22.50	5.18	4.94	0.00
4.75	0.27	0.12	0.00	13.75	4.38	4.14	0.01	22.75	5.19	4.95	0.00
5.00	0.28	0.13	0.00	14.00	4.43	4.19	0.01	23.00	5.20	4.97	0.00
5.25	0.30	0.15	0.00	14.25	4.47	4.23	0.01	23.25	5.21	4.98	0.00
5.50	0.32	0.16	0.00	14.50	4.51	4.28	0.01	23.50	5.23	4.99	0.00
5.75	0.34	0.18	0.00	14.75	4.55	4.31	0.01	23.75	5.24	5.00	0.00
6.00	0.36	0.19	0.00	15.00	4.58	4.35	0.01	24.00	**5.25**	**5.01**	0.00
6.25	0.38	0.21	0.00	15.25	4.62	4.38	0.01				
6.50	0.40	0.23	0.00	15.50	4.65	4.41	0.01				
6.75	0.42	0.25	0.00	15.75	4.68	4.44	0.01				
7.00	0.45	0.27	0.00	16.00	4.71	4.47	0.01				
7.25	0.47	0.29	0.00	16.25	4.73	4.50	0.01				
7.50	0.49	0.31	0.00	16.50	4.76	4.52	0.01				
7.75	0.52	0.34	0.00	16.75	4.78	4.55	0.00				
8.00	0.55	0.36	0.01	17.00	4.81	4.57	0.00				
8.25	0.57	0.39	0.01	17.25	4.83	4.59	0.00				
8.50	0.60	0.41	0.01	17.50	4.85	4.61	0.00				
8.75	0.64	0.44	0.01	17.75	4.87	4.64	0.00				

Summary for Subcatchment DA 6: Drainage Area 6

Runoff = 0.63 cfs @ 12.16 hrs, Volume= 0.047 af, Depth> 3.79"
Routed to Pond SWALE : SWALE

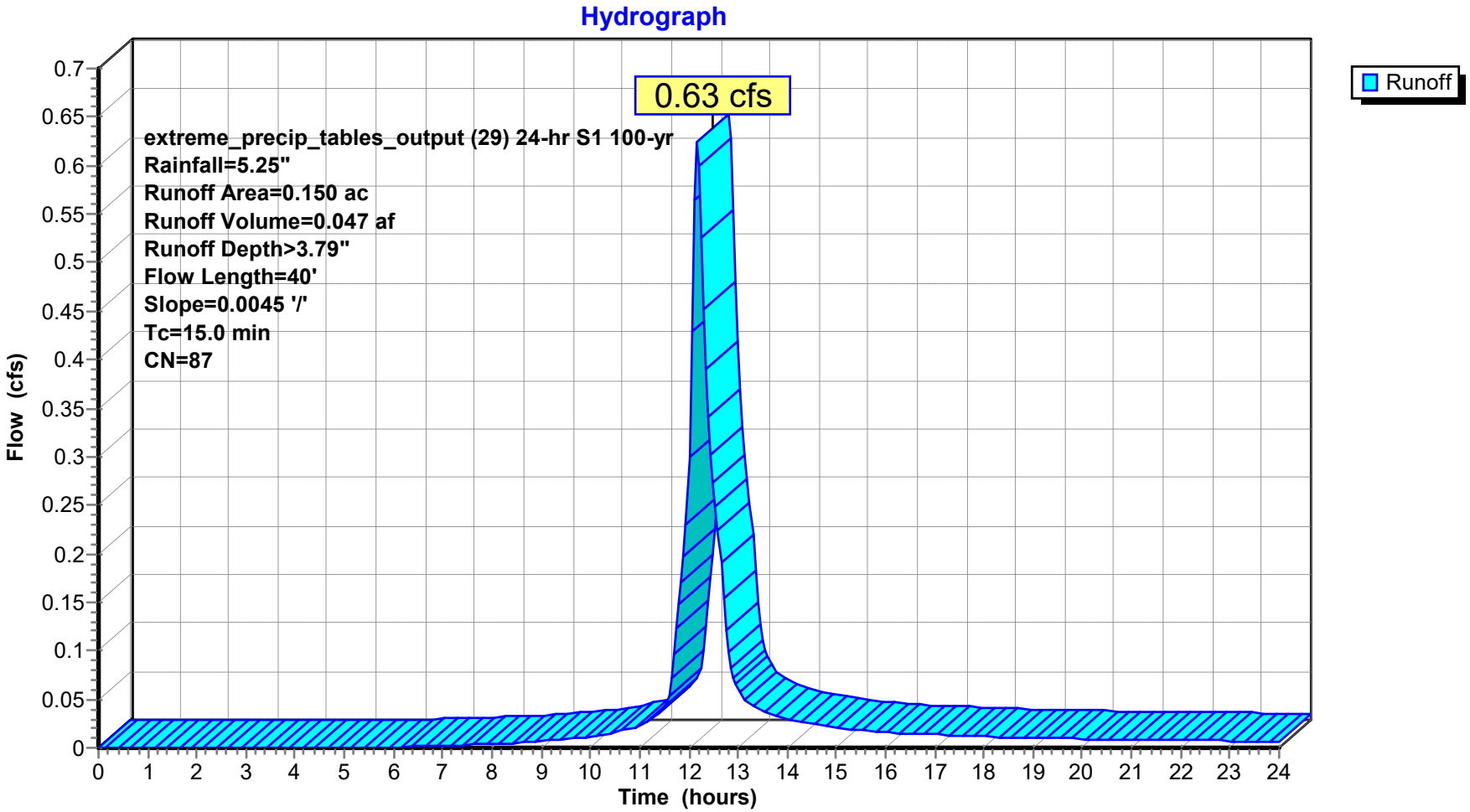
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
extreme_precip_tables_output (29) 24-hr S1 100-yr Rainfall=5.25"

Area (ac)	CN	Description
0.060	98	Paved parking, HSG D
0.090	80	>75% Grass cover, Good, HSG D
0.150	87	Weighted Average
0.090		60.00% Pervious Area
0.060		40.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0	40	0.0045	0.04		**Sheet Flow,** Grass: Dense n= 0.240 P2= 2.20"



Subcatchment DA 6: Drainage Area 6



Hydrograph for Subcatchment DA 6: Drainage Area 6

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	9.00	0.67	0.07	0.01	18.00	4.89	3.47	0.01
0.25	0.01	0.00	0.00	9.25	0.71	0.09	0.01	18.25	4.91	3.48	0.01
0.50	0.02	0.00	0.00	9.50	0.74	0.10	0.01	18.50	4.93	3.50	0.01
0.75	0.04	0.00	0.00	9.75	0.79	0.12	0.01	18.75	4.95	3.52	0.01
1.00	0.05	0.00	0.00	10.00	0.83	0.14	0.01	19.00	4.97	3.54	0.01
1.25	0.06	0.00	0.00	10.25	0.88	0.16	0.01	19.25	4.99	3.55	0.01
1.50	0.07	0.00	0.00	10.50	0.94	0.19	0.02	19.50	5.00	3.57	0.01
1.75	0.09	0.00	0.00	10.75	1.00	0.23	0.02	19.75	5.02	3.58	0.01
2.00	0.10	0.00	0.00	11.00	1.08	0.27	0.02	20.00	5.03	3.60	0.01
2.25	0.11	0.00	0.00	11.25	1.17	0.32	0.03	20.25	5.05	3.61	0.01
2.50	0.13	0.00	0.00	11.50	1.30	0.40	0.04	20.50	5.07	3.63	0.01
2.75	0.14	0.00	0.00	11.75	1.73	0.70	0.12	20.75	5.08	3.64	0.01
3.00	0.16	0.00	0.00	12.00	2.90	1.65	**0.30**	21.00	5.10	3.66	0.01
3.25	0.17	0.00	0.00	12.25	3.58	2.25	**0.53**	21.25	5.11	3.67	0.01
3.50	0.19	0.00	0.00	12.50	3.98	2.62	0.27	21.50	5.12	3.68	0.01
3.75	0.20	0.00	0.00	12.75	4.09	2.72	0.12	21.75	5.14	3.70	0.01
4.00	0.22	0.00	0.00	13.00	4.18	2.81	0.06	22.00	5.15	3.71	0.01
4.25	0.23	0.00	0.00	13.25	4.26	2.87	0.04	22.25	5.16	3.72	0.01
4.50	0.25	0.00	0.00	13.50	4.32	2.93	0.04	22.50	5.18	3.73	0.01
4.75	0.27	0.00	0.00	13.75	4.38	2.98	0.03	22.75	5.19	3.75	0.01
5.00	0.28	0.00	0.00	14.00	4.43	3.03	0.03	23.00	5.20	3.76	0.01
5.25	0.30	0.00	0.00	14.25	4.47	3.07	0.03	23.25	5.21	3.77	0.01
5.50	0.32	0.00	0.00	14.50	4.51	3.11	0.02	23.50	5.23	3.78	0.01
5.75	0.34	0.00	0.00	14.75	4.55	3.15	0.02	23.75	5.24	3.79	0.01
6.00	0.36	0.00	0.00	15.00	4.58	3.18	0.02	24.00	**5.25**	**3.80**	0.01
6.25	0.38	0.00	0.00	15.25	4.62	3.21	0.02				
6.50	0.40	0.01	0.00	15.50	4.65	3.24	0.02				
6.75	0.42	0.01	0.00	15.75	4.68	3.27	0.02				
7.00	0.45	0.01	0.00	16.00	4.71	3.29	0.02				
7.25	0.47	0.02	0.00	16.25	4.73	3.32	0.02				
7.50	0.49	0.02	0.00	16.50	4.76	3.34	0.01				
7.75	0.52	0.03	0.00	16.75	4.78	3.36	0.01				
8.00	0.55	0.04	0.00	17.00	4.81	3.39	0.01				
8.25	0.57	0.04	0.00	17.25	4.83	3.41	0.01				
8.50	0.60	0.05	0.01	17.50	4.85	3.43	0.01				
8.75	0.64	0.06	0.01	17.75	4.87	3.45	0.01				

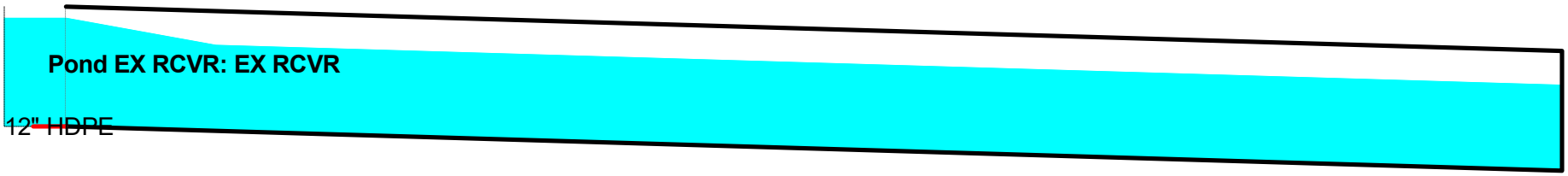
Summary for Pond EX RCVR: EX RCVR

Inflow Area = 0.500 ac, 78.00% Impervious, Inflow Depth > 4.30" for 100-yr event
Inflow = 1.64 cfs @ 12.35 hrs, Volume= 0.179 af
Outflow = 1.64 cfs @ 12.35 hrs, Volume= 0.179 af, Atten= 0%, Lag= 0.0 min
Primary = 1.64 cfs @ 12.35 hrs, Volume= 0.179 af
Routed to Link POST : Post Development

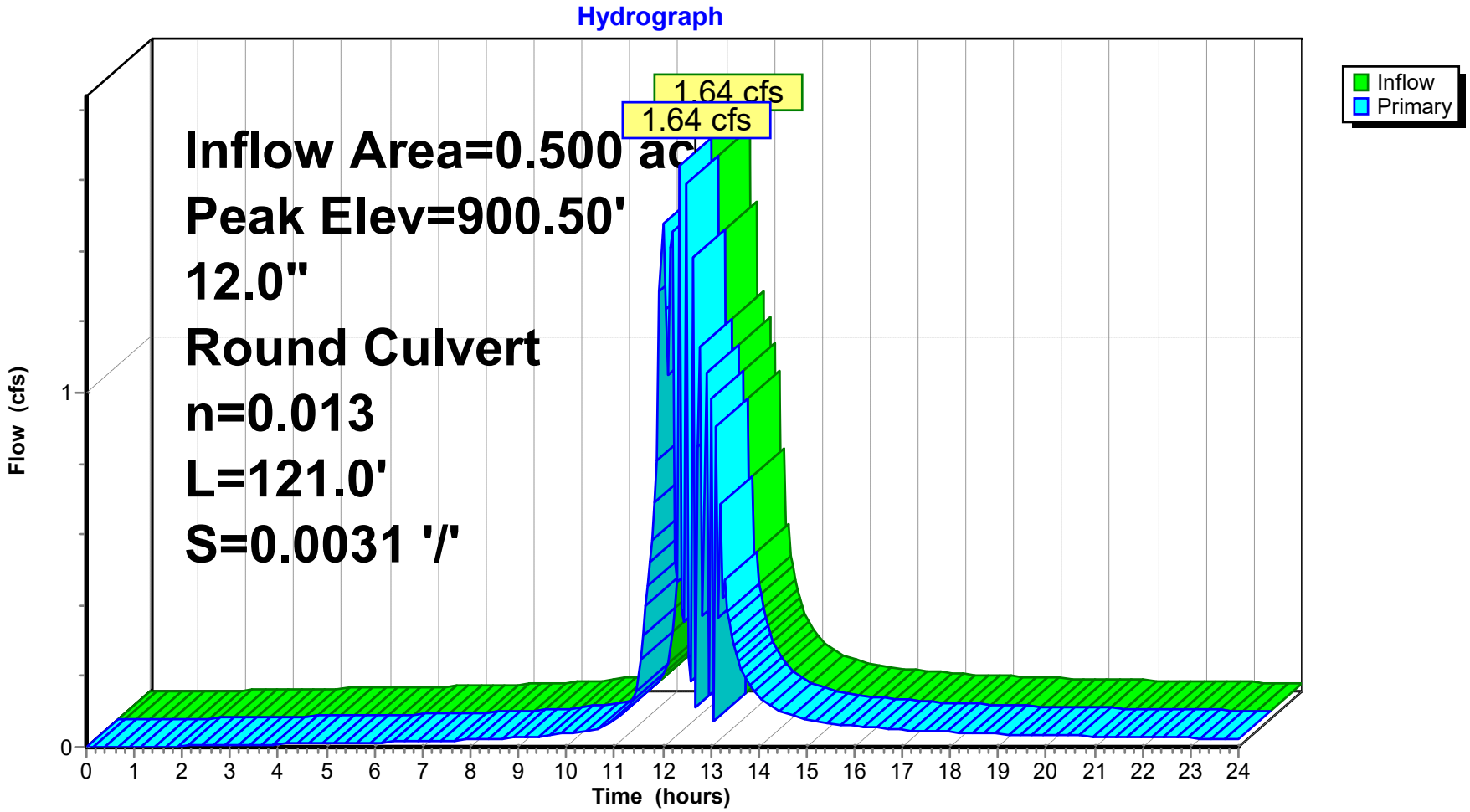
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 900.50' @ 12.35 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	899.60'	**12.0" Round 12" HDPE** L= 121.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 899.60' / 899.23' S= 0.0031 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

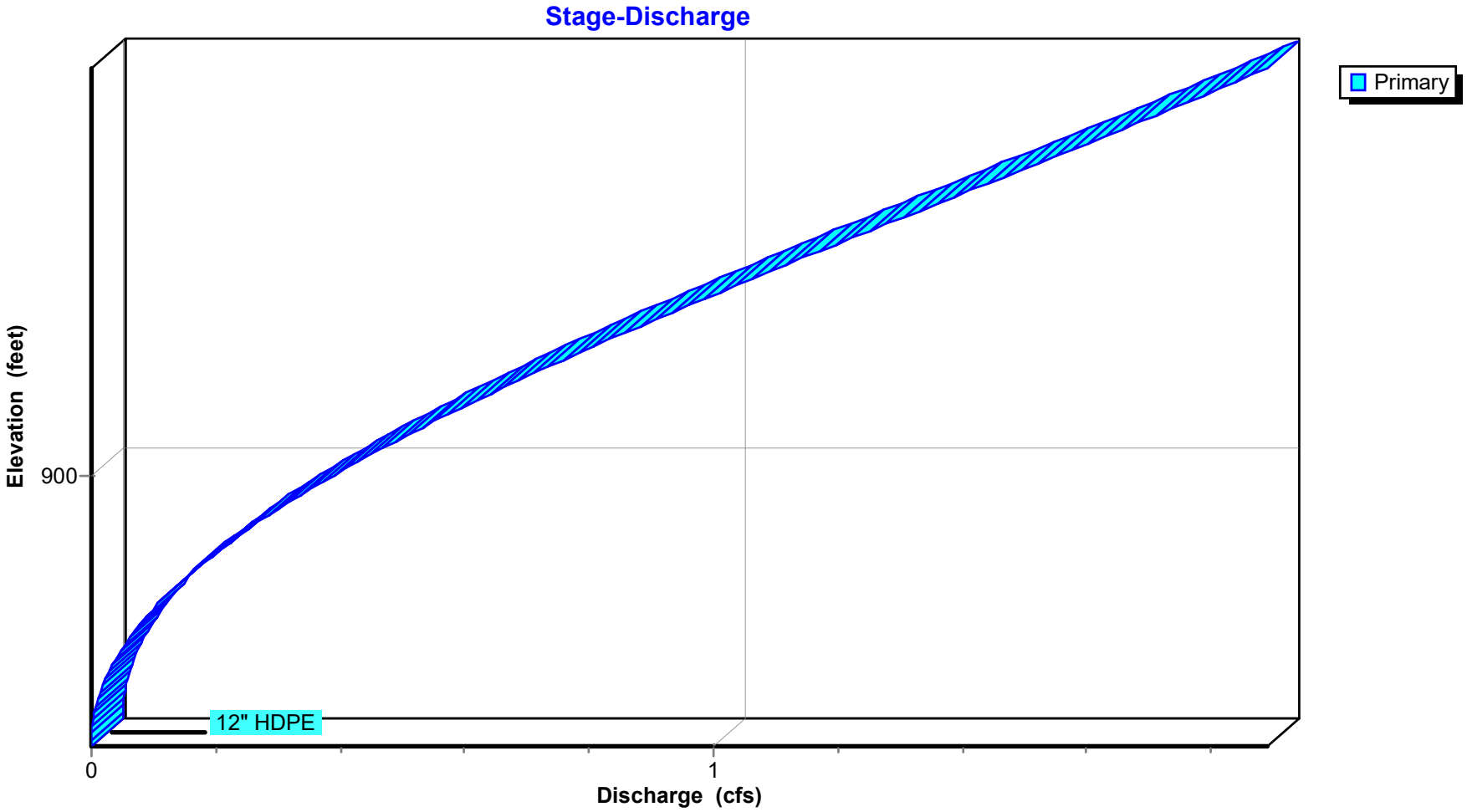
Primary OutFlow Max=1.62 cfs @ 12.35 hrs HW=900.50' TW=0.00' (Dynamic Tailwater)
└**1=12" HDPE** (Barrel Controls 1.62 cfs @ 2.89 fps)



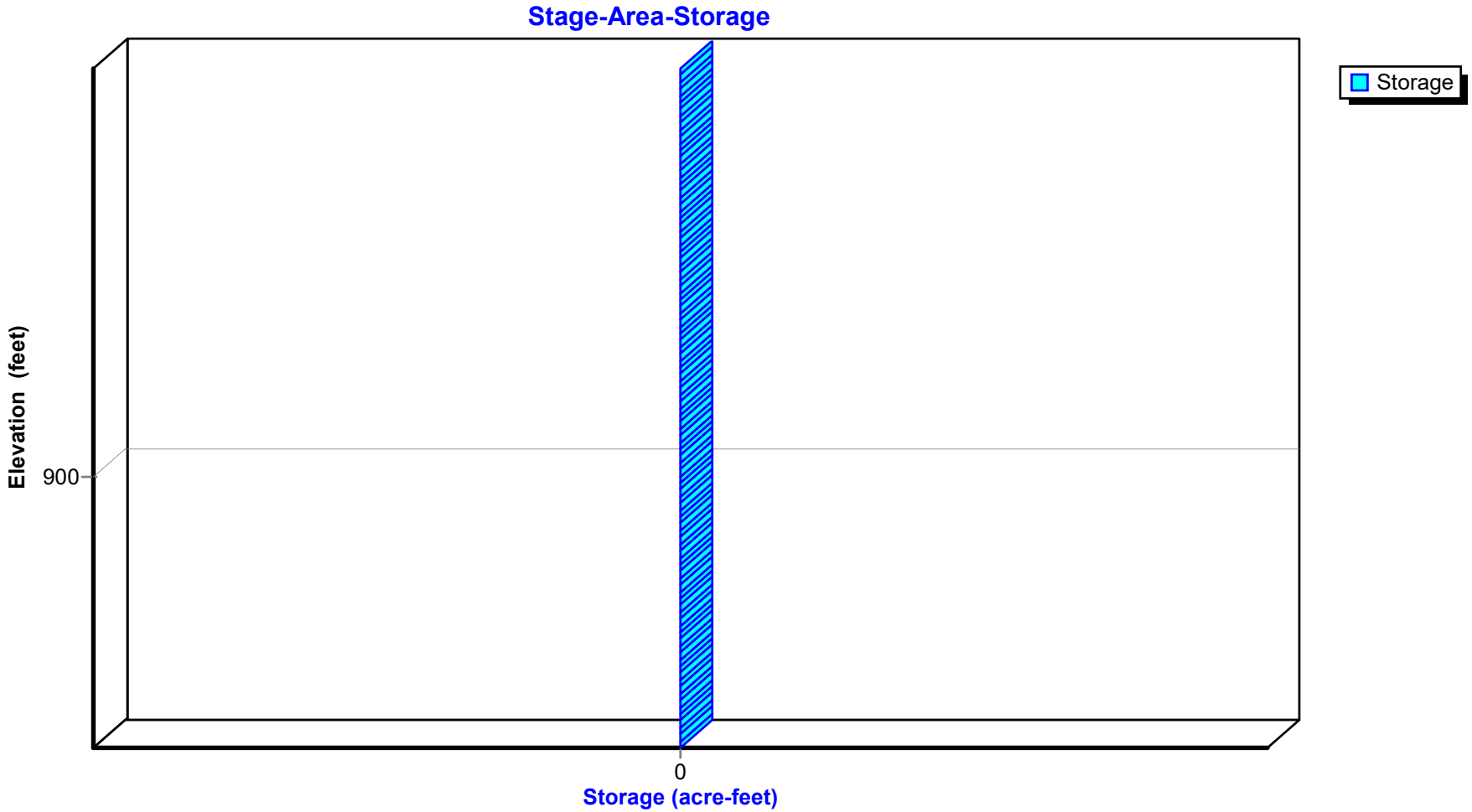
Pond EX RCVR: EX RCVR



Pond EX RCVR: EX RCVR



Pond EX RCVR: EX RCVR



Hydrograph for Pond EX RCVR: EX RCVR

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	899.60	0.00	9.00	0.03	899.71	0.03	18.00	0.04	899.73	0.04
0.25	0.00	899.60	0.00	9.25	0.03	899.71	0.03	18.25	0.04	899.73	0.04
0.50	0.00	899.60	0.00	9.50	0.03	899.72	0.03	18.50	0.04	899.73	0.04
0.75	0.00	899.60	0.00	9.75	0.03	899.72	0.03	18.75	0.04	899.73	0.04
1.00	0.00	899.61	0.00	10.00	0.04	899.73	0.04	19.00	0.04	899.73	0.04
1.25	0.00	899.62	0.00	10.25	0.04	899.74	0.04	19.25	0.04	899.72	0.04
1.50	0.00	899.63	0.00	10.50	0.05	899.74	0.05	19.50	0.04	899.72	0.04
1.75	0.00	899.63	0.00	10.75	0.06	899.75	0.06	19.75	0.03	899.72	0.03
2.00	0.00	899.64	0.00	11.00	0.07	899.77	0.07	20.00	0.03	899.72	0.03
2.25	0.00	899.64	0.00	11.25	0.11	899.81	0.11	20.25	0.03	899.72	0.03
2.50	0.00	899.65	0.00	11.50	0.17	899.86	0.17	20.50	0.03	899.72	0.03
2.75	0.01	899.65	0.01	11.75	0.53	900.07	0.53	20.75	0.03	899.72	0.03
3.00	0.01	899.65	0.01	12.00	1.48	900.44	1.48	21.00	0.03	899.71	0.03
3.25	0.01	899.66	0.01	12.25	**0.53**	**900.07**	**0.53**	21.25	0.03	899.71	0.03
3.50	0.01	899.66	0.01	12.50	**1.59**	**900.49**	**1.59**	21.50	0.03	899.71	0.03
3.75	0.01	899.66	0.01	12.75	0.85	900.21	0.85	21.75	0.03	899.71	0.03
4.00	0.01	899.66	0.01	13.00	0.99	900.26	0.99	22.00	0.03	899.71	0.03
4.25	0.01	899.66	0.01	13.25	0.42	900.02	0.42	22.25	0.03	899.71	0.03
4.50	0.01	899.67	0.01	13.50	0.29	899.94	0.29	22.50	0.03	899.71	0.03
4.75	0.01	899.67	0.01	13.75	0.19	899.88	0.19	22.75	0.03	899.71	0.03
5.00	0.01	899.67	0.01	14.00	0.14	899.84	0.14	23.00	0.03	899.71	0.03
5.25	0.01	899.67	0.01	14.25	0.12	899.82	0.12	23.25	0.03	899.70	0.03
5.50	0.01	899.67	0.01	14.50	0.10	899.80	0.10	23.50	0.02	899.70	0.02
5.75	0.01	899.68	0.01	14.75	0.09	899.79	0.09	23.75	0.02	899.70	0.02
6.00	0.01	899.68	0.01	15.00	0.08	899.78	0.08	24.00	0.02	899.70	0.02
6.25	0.01	899.68	0.01	15.25	0.07	899.77	0.07				
6.50	0.02	899.68	0.02	15.50	0.07	899.77	0.07				
6.75	0.02	899.68	0.02	15.75	0.06	899.76	0.06				
7.00	0.02	899.69	0.02	16.00	0.06	899.76	0.06				
7.25	0.02	899.69	0.02	16.25	0.06	899.75	0.06				
7.50	0.02	899.69	0.02	16.50	0.05	899.75	0.05				
7.75	0.02	899.69	0.02	16.75	0.05	899.75	0.05				
8.00	0.02	899.70	0.02	17.00	0.05	899.74	0.05				
8.25	0.02	899.70	0.02	17.25	0.05	899.74	0.05				
8.50	0.02	899.70	0.02	17.50	0.05	899.74	0.05				
8.75	0.03	899.71	0.03	17.75	0.04	899.74	0.04				

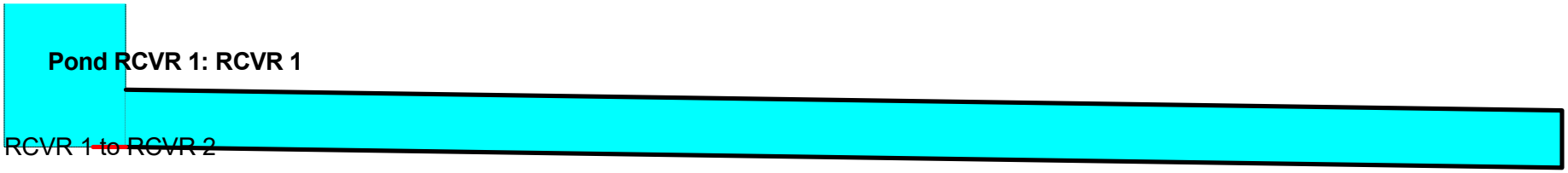
Summary for Pond RCVR 1: RCVR 1

Inflow Area = 0.340 ac, 70.59% Impervious, Inflow Depth > 4.02" for 100-yr event
Inflow = 1.35 cfs @ 12.50 hrs, Volume= 0.114 af
Outflow = 1.35 cfs @ 12.50 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min
Primary = 1.35 cfs @ 12.50 hrs, Volume= 0.114 af
Routed to Pond RCVR 2 : RCVR 2

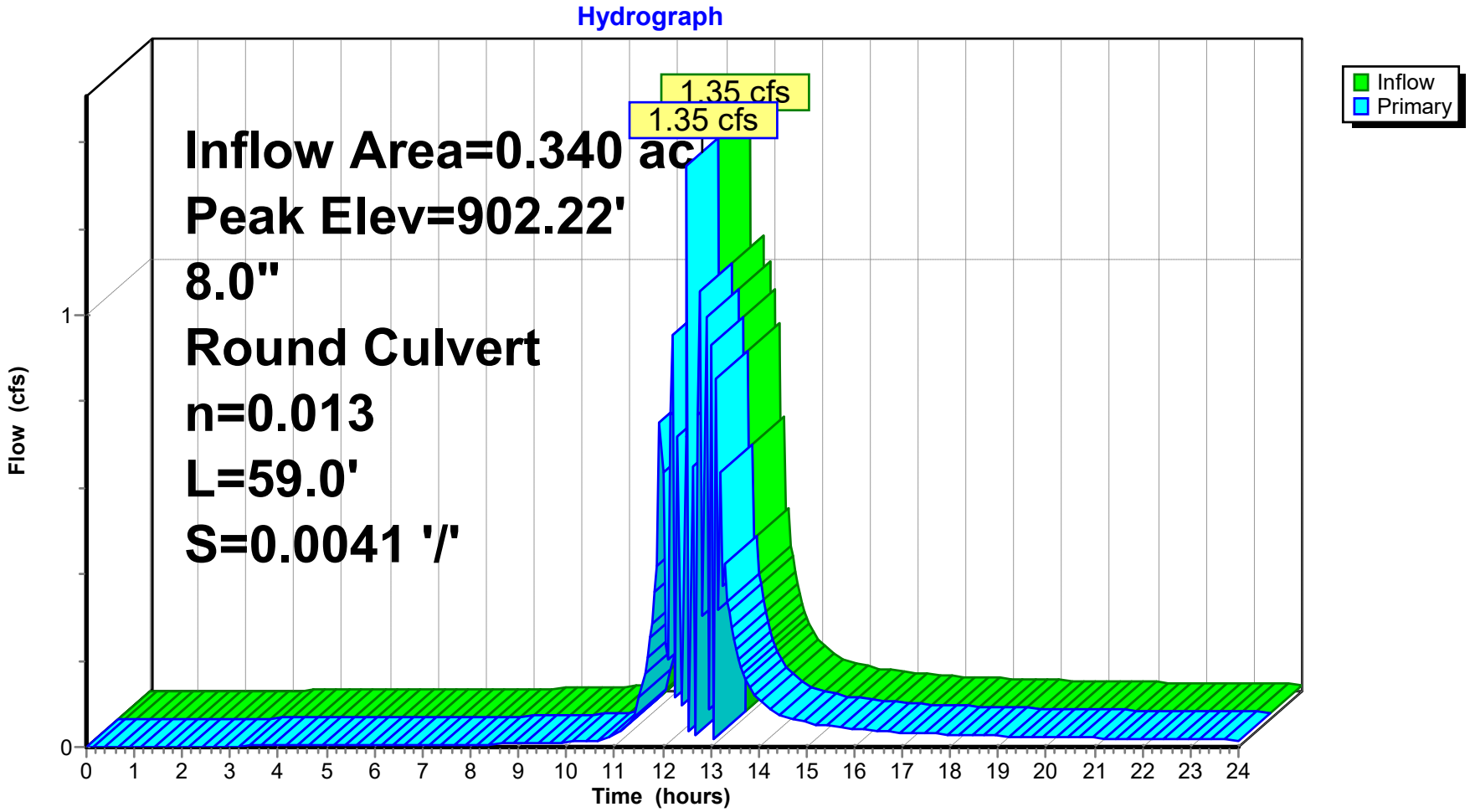
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 902.22' @ 12.21 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	900.56'	**8.0" Round RCVR 1 to RCVR 2** L= 59.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 900.56' / 900.32' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

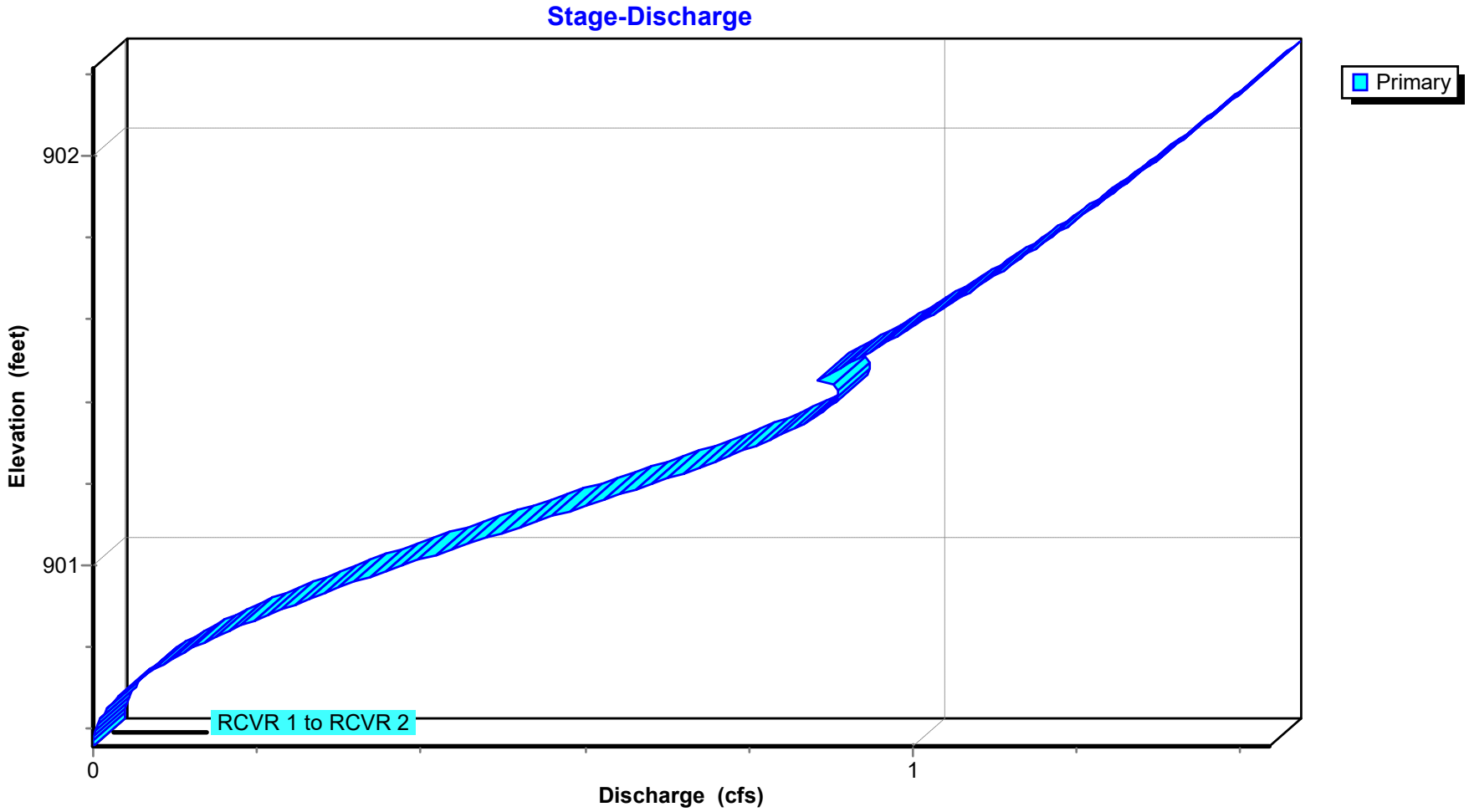
Primary OutFlow Max=0.32 cfs @ 12.50 hrs HW=902.06' TW=902.00' (Dynamic Tailwater)
↑—**1=RCVR 1 to RCVR 2** (Outlet Controls 0.32 cfs @ 0.91 fps)



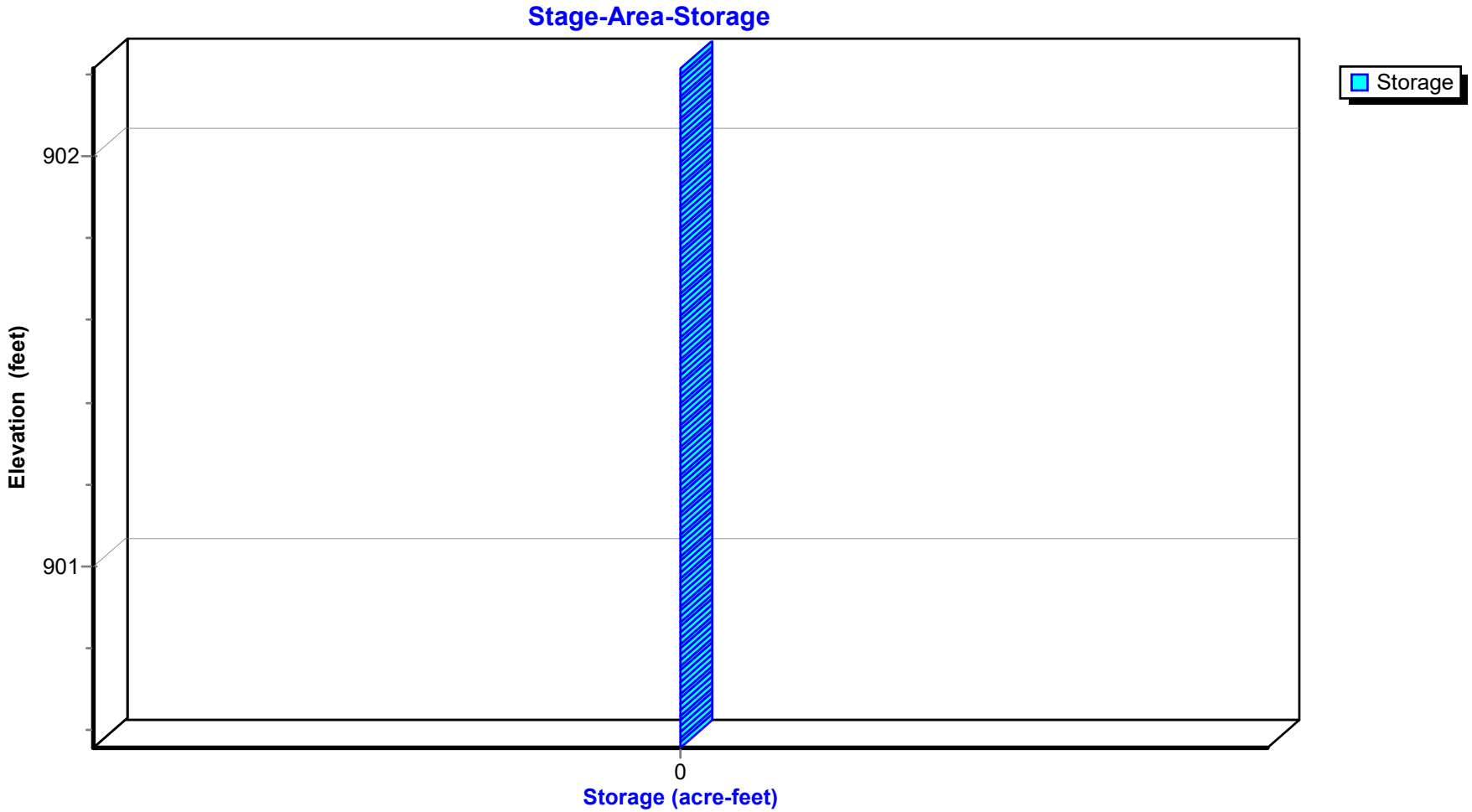
Pond RCVR 1: RCVR 1



Pond RCVR 1: RCVR 1



Pond RCVR 1: RCVR 1



Hydrograph for Pond RCVR 1: RCVR 1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	900.56	0.00	9.00	0.01	900.63	0.01	18.00	0.03	900.68	0.03
0.25	0.00	900.56	0.00	9.25	0.01	900.63	0.01	18.25	0.03	900.68	0.03
0.50	0.00	900.56	0.00	9.50	0.01	900.63	0.01	18.50	0.03	900.68	0.03
0.75	0.00	900.56	0.00	9.75	0.01	900.63	0.01	18.75	0.03	900.68	0.03
1.00	0.00	900.57	0.00	10.00	0.01	900.64	0.01	19.00	0.03	900.67	0.03
1.25	0.00	900.58	0.00	10.25	0.01	900.64	0.01	19.25	0.02	900.67	0.02
1.50	0.00	900.58	0.00	10.50	0.01	900.65	0.01	19.50	0.02	900.67	0.02
1.75	0.00	900.58	0.00	10.75	0.02	900.66	0.02	19.75	0.02	900.67	0.02
2.00	0.00	900.59	0.00	11.00	0.03	900.68	0.03	20.00	0.02	900.67	0.02
2.25	0.00	900.59	0.00	11.25	0.05	900.72	0.05	20.25	0.02	900.67	0.02
2.50	0.00	900.59	0.00	11.50	0.09	900.77	0.09	20.50	0.02	900.66	0.02
2.75	0.00	900.59	0.00	11.75	0.25	900.96	0.25	20.75	0.02	900.66	0.02
3.00	0.00	900.59	0.00	12.00	0.64	**901.65**	0.64	21.00	0.02	900.66	0.02
3.25	0.00	900.60	0.00	12.25	0.12	**901.88**	0.12	21.25	0.02	900.66	0.02
3.50	0.00	900.60	0.00	12.50	**1.35**	902.07	**1.35**	21.50	0.02	900.66	0.02
3.75	0.00	900.60	0.00	12.75	0.77	901.26	0.77	21.75	0.02	900.66	0.02
4.00	0.00	900.60	0.00	13.00	0.93	901.50	0.93	22.00	0.02	900.66	0.02
4.25	0.00	900.60	0.00	13.25	0.37	901.06	0.37	22.25	0.02	900.66	0.02
4.50	0.00	900.60	0.00	13.50	0.25	900.93	0.25	22.50	0.02	900.66	0.02
4.75	0.00	900.60	0.00	13.75	0.16	900.85	0.16	22.75	0.02	900.66	0.02
5.00	0.00	900.60	0.00	14.00	0.11	900.80	0.11	23.00	0.02	900.65	0.02
5.25	0.00	900.60	0.00	14.25	0.09	900.77	0.09	23.25	0.02	900.65	0.02
5.50	0.00	900.61	0.00	14.50	0.07	900.75	0.07	23.50	0.02	900.65	0.02
5.75	0.00	900.61	0.00	14.75	0.06	900.74	0.06	23.75	0.02	900.65	0.02
6.00	0.00	900.61	0.00	15.00	0.06	900.73	0.06	24.00	0.02	900.65	0.02
6.25	0.00	900.61	0.00	15.25	0.05	900.72	0.05				
6.50	0.00	900.61	0.00	15.50	0.05	900.71	0.05				
6.75	0.00	900.61	0.00	15.75	0.04	900.71	0.04				
7.00	0.00	900.61	0.00	16.00	0.04	900.70	0.04				
7.25	0.01	900.61	0.01	16.25	0.04	900.70	0.04				
7.50	0.01	900.62	0.01	16.50	0.04	900.70	0.04				
7.75	0.01	900.62	0.01	16.75	0.04	900.69	0.04				
8.00	0.01	900.62	0.01	17.00	0.03	900.69	0.03				
8.25	0.01	900.62	0.01	17.25	0.03	900.69	0.03				
8.50	0.01	900.62	0.01	17.50	0.03	900.69	0.03				
8.75	0.01	900.62	0.01	17.75	0.03	900.68	0.03				

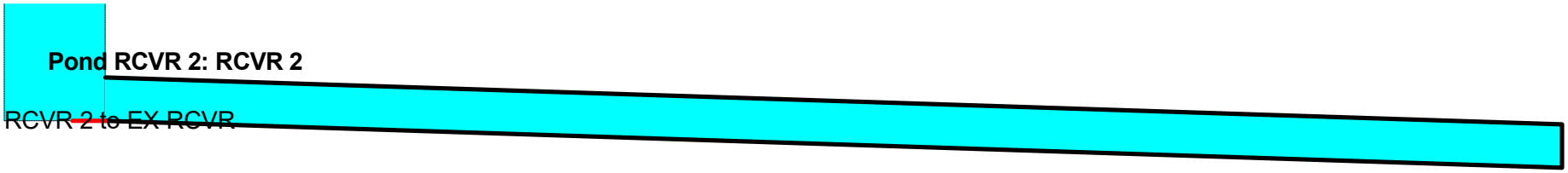
Summary for Pond RCVR 2: RCVR 2

Inflow Area = 0.500 ac, 78.00% Impervious, Inflow Depth > 4.30" for 100-yr event
Inflow = 1.64 cfs @ 12.35 hrs, Volume= 0.179 af
Outflow = 1.64 cfs @ 12.35 hrs, Volume= 0.179 af, Atten= 0%, Lag= 0.0 min
Primary = 1.64 cfs @ 12.35 hrs, Volume= 0.179 af
Routed to Pond EX RCVR : EX RCVR

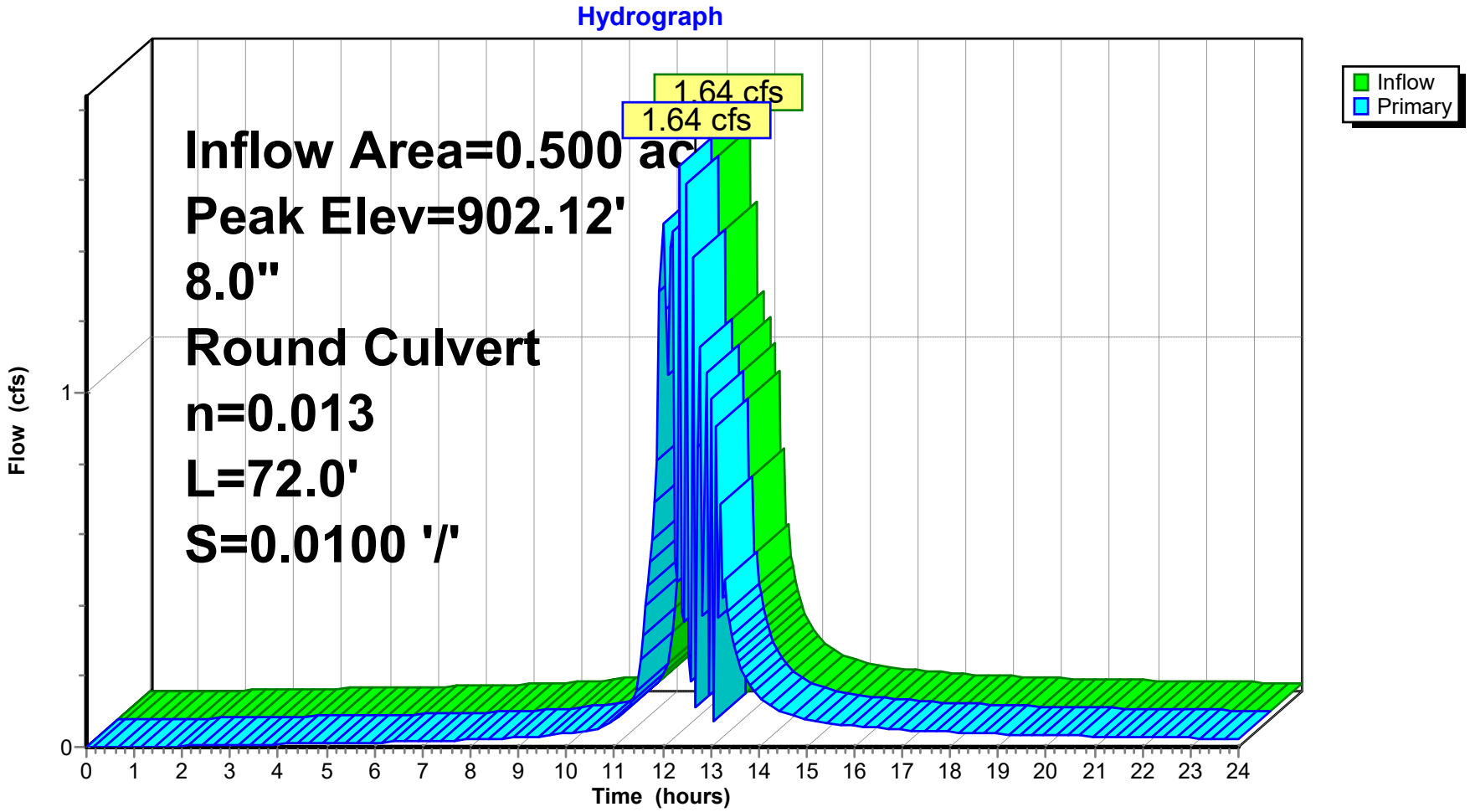
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 902.12' @ 12.35 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	900.32'	**8.0" Round RCVR 2 to EX RCVR** L= 72.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 900.32' / 899.60' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

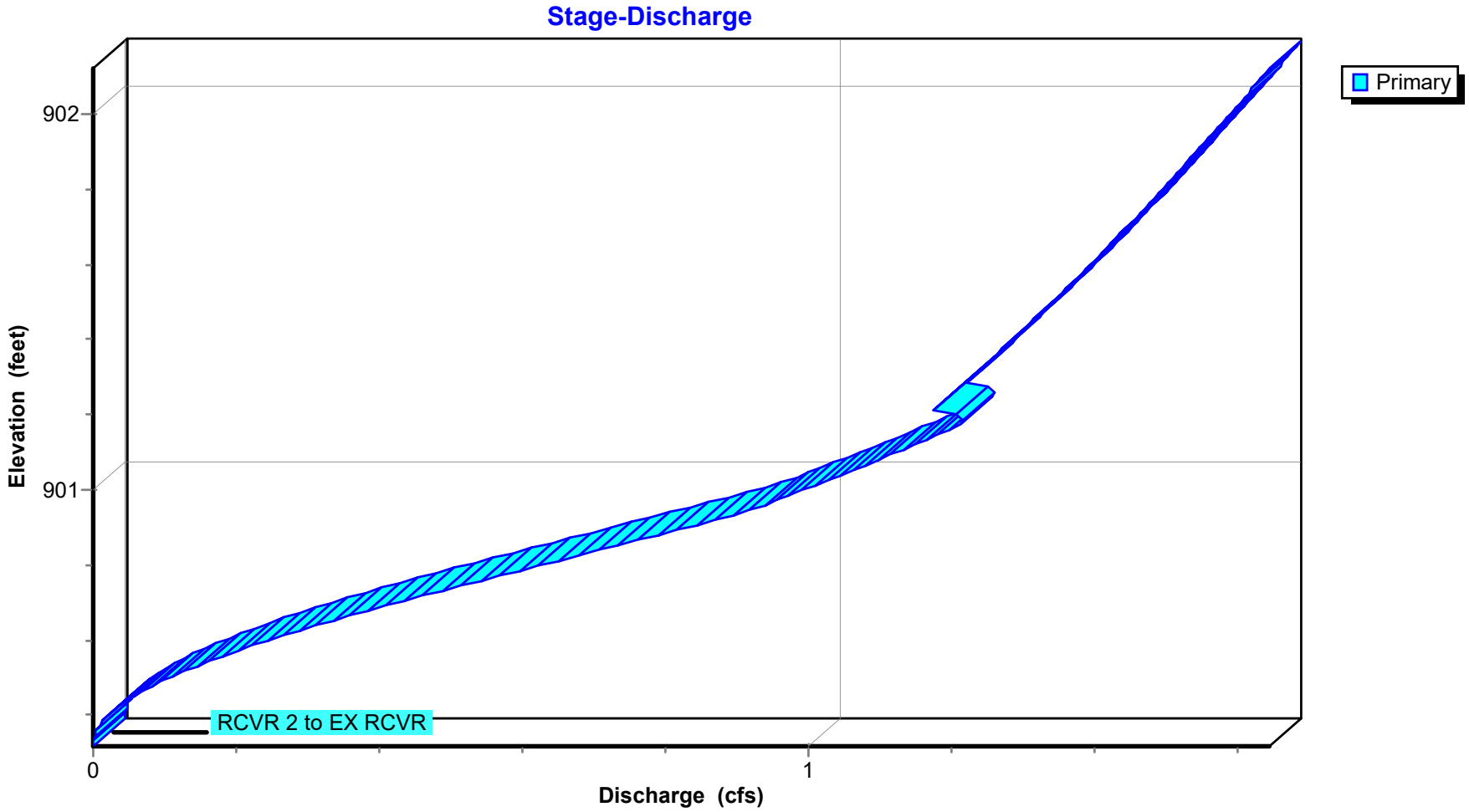
Primary OutFlow Max=1.53 cfs @ 12.35 hrs HW=902.09' TW=900.50' (Dynamic Tailwater)
↑—**1=RCVR 2 to EX RCVR** (Outlet Controls 1.53 cfs @ 4.37 fps)



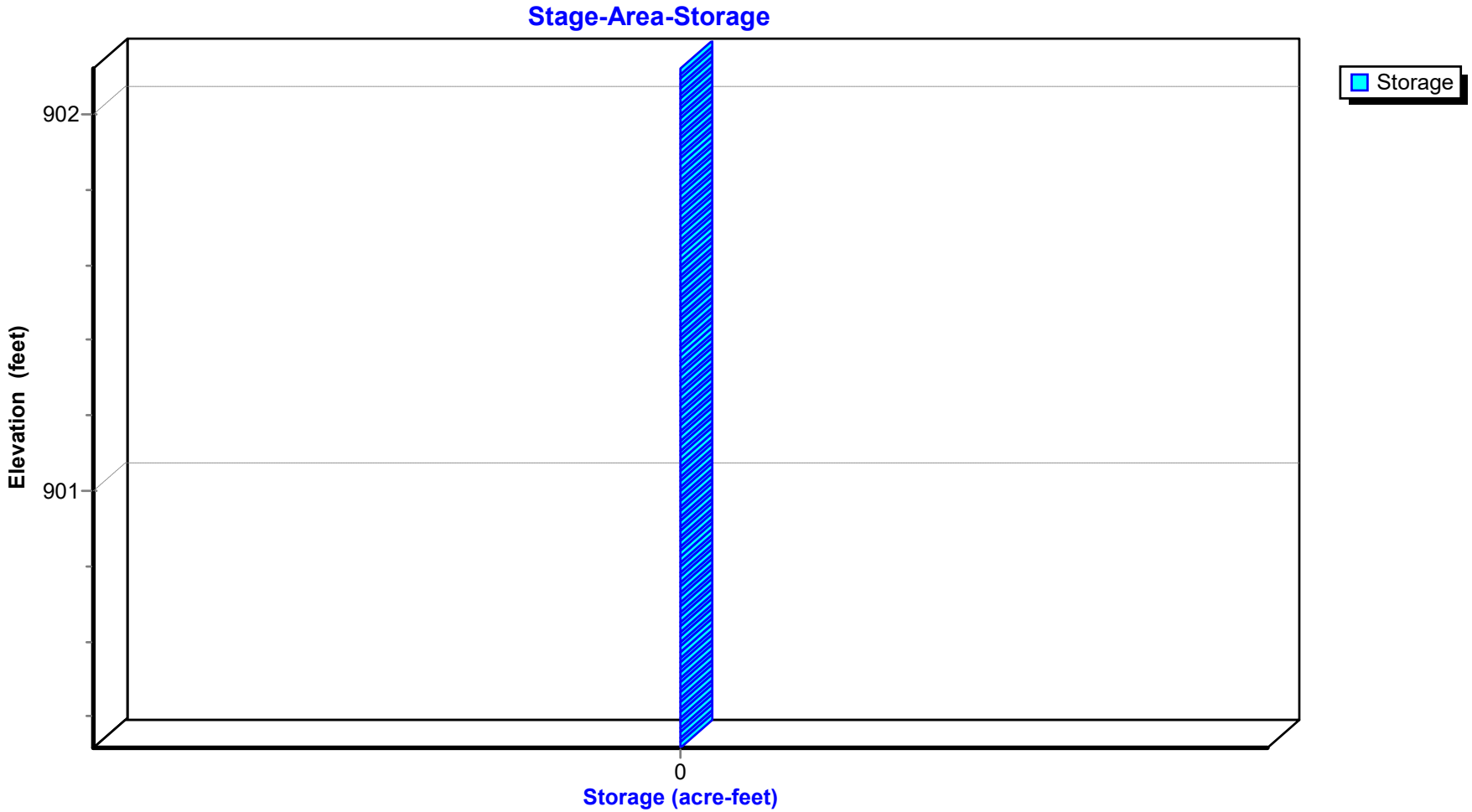
Pond RCVR 2: RCVR 2



Pond RCVR 2: RCVR 2



Pond RCVR 2: RCVR 2



Hydrograph for Pond RCVR 2: RCVR 2

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	900.32	0.00	9.00	0.03	900.41	0.03	18.00	0.04	900.44	0.04
0.25	0.00	900.32	0.00	9.25	0.03	900.42	0.03	18.25	0.04	900.43	0.04
0.50	0.00	900.32	0.00	9.50	0.03	900.42	0.03	18.50	0.04	900.43	0.04
0.75	0.00	900.32	0.00	9.75	0.03	900.43	0.03	18.75	0.04	900.43	0.04
1.00	0.00	900.33	0.00	10.00	0.04	900.43	0.04	19.00	0.04	900.43	0.04
1.25	0.00	900.34	0.00	10.25	0.04	900.44	0.04	19.25	0.04	900.43	0.04
1.50	0.00	900.34	0.00	10.50	0.05	900.44	0.05	19.50	0.04	900.43	0.04
1.75	0.00	900.35	0.00	10.75	0.06	900.45	0.06	19.75	0.03	900.43	0.03
2.00	0.00	900.35	0.00	11.00	0.07	900.47	0.07	20.00	0.03	900.42	0.03
2.25	0.00	900.36	0.00	11.25	0.11	900.51	0.11	20.25	0.03	900.42	0.03
2.50	0.00	900.36	0.00	11.50	0.17	900.56	0.17	20.50	0.03	900.42	0.03
2.75	0.01	900.36	0.01	11.75	0.53	900.77	0.53	20.75	0.03	900.42	0.03
3.00	0.01	900.36	0.01	12.00	1.48	901.87	1.48	21.00	0.03	900.42	0.03
3.25	0.01	900.37	0.01	12.25	**0.53**	**900.86**	**0.53**	21.25	0.03	900.42	0.03
3.50	0.01	900.37	0.01	12.50	**1.59**	**902.01**	**1.59**	21.50	0.03	900.42	0.03
3.75	0.01	900.37	0.01	12.75	0.85	900.91	0.85	21.75	0.03	900.42	0.03
4.00	0.01	900.37	0.01	13.00	0.99	901.00	0.99	22.00	0.03	900.41	0.03
4.25	0.01	900.38	0.01	13.25	0.42	900.74	0.42	22.25	0.03	900.41	0.03
4.50	0.01	900.38	0.01	13.50	0.29	900.64	0.29	22.50	0.03	900.41	0.03
4.75	0.01	900.38	0.01	13.75	0.19	900.58	0.19	22.75	0.03	900.41	0.03
5.00	0.01	900.38	0.01	14.00	0.14	900.54	0.14	23.00	0.03	900.41	0.03
5.25	0.01	900.38	0.01	14.25	0.12	900.52	0.12	23.25	0.03	900.41	0.03
5.50	0.01	900.38	0.01	14.50	0.10	900.50	0.10	23.50	0.02	900.41	0.02
5.75	0.01	900.39	0.01	14.75	0.09	900.49	0.09	23.75	0.02	900.41	0.02
6.00	0.01	900.39	0.01	15.00	0.08	900.48	0.08	24.00	0.02	900.41	0.02
6.25	0.01	900.39	0.01	15.25	0.07	900.47	0.07				
6.50	0.02	900.39	0.02	15.50	0.07	900.47	0.07				
6.75	0.02	900.39	0.02	15.75	0.06	900.46	0.06				
7.00	0.02	900.39	0.02	16.00	0.06	900.46	0.06				
7.25	0.02	900.40	0.02	16.25	0.06	900.46	0.06				
7.50	0.02	900.40	0.02	16.50	0.05	900.45	0.05				
7.75	0.02	900.40	0.02	16.75	0.05	900.45	0.05				
8.00	0.02	900.40	0.02	17.00	0.05	900.45	0.05				
8.25	0.02	900.41	0.02	17.25	0.05	900.44	0.05				
8.50	0.02	900.41	0.02	17.50	0.05	900.44	0.05				
8.75	0.03	900.41	0.03	17.75	0.04	900.44	0.04				

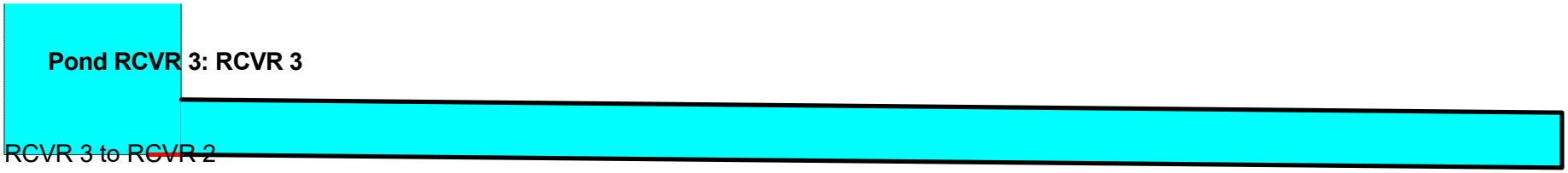
Summary for Pond RCVR 3: RCVR 3

Inflow Area = 0.150 ac, 93.33% Impervious, Inflow Depth > 4.89" for 100-yr event
Inflow = 0.97 cfs @ 12.05 hrs, Volume= 0.061 af
Outflow = 0.97 cfs @ 12.05 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
Primary = 0.97 cfs @ 12.05 hrs, Volume= 0.061 af
Routed to Pond RCVR 2 : RCVR 2

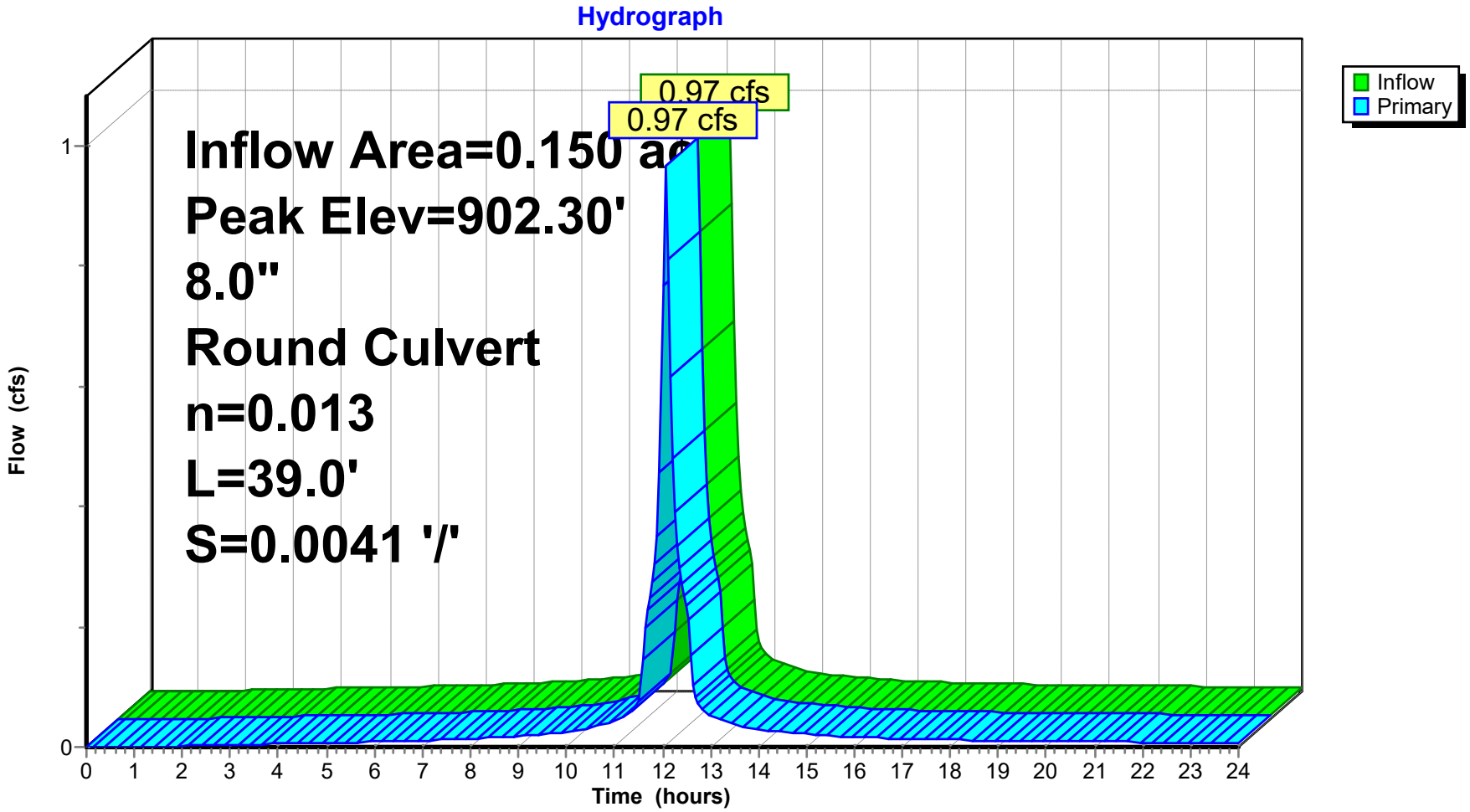
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 902.30' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	900.48'	**8.0" Round RCVR 3 to RCVR 2** L= 39.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 900.48' / 900.32' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

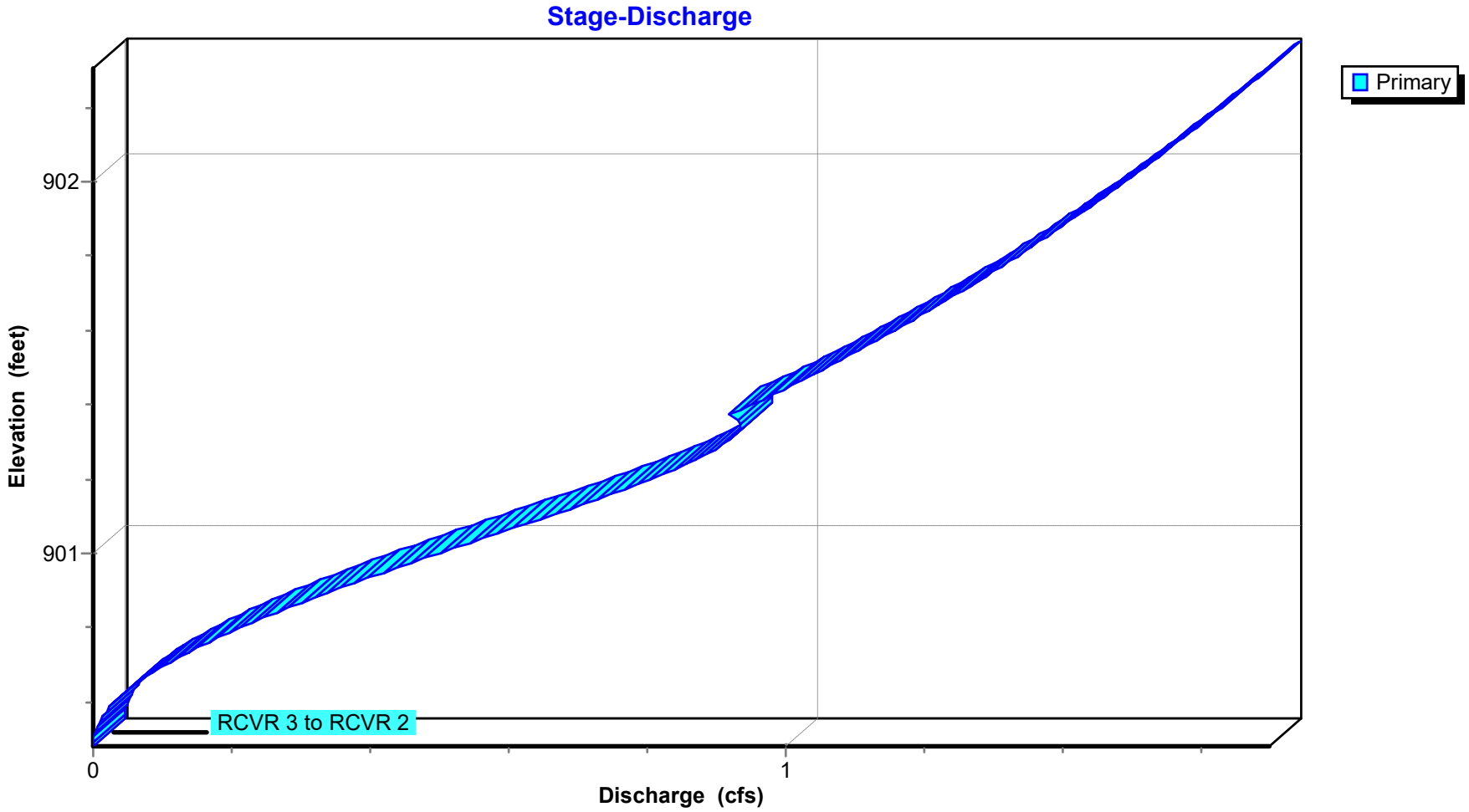
Primary OutFlow Max=1.32 cfs @ 12.05 hrs HW=902.27' TW=901.47' (Dynamic Tailwater)
↑—**1=RCVR 3 to RCVR 2** (Outlet Controls 1.32 cfs @ 3.78 fps)



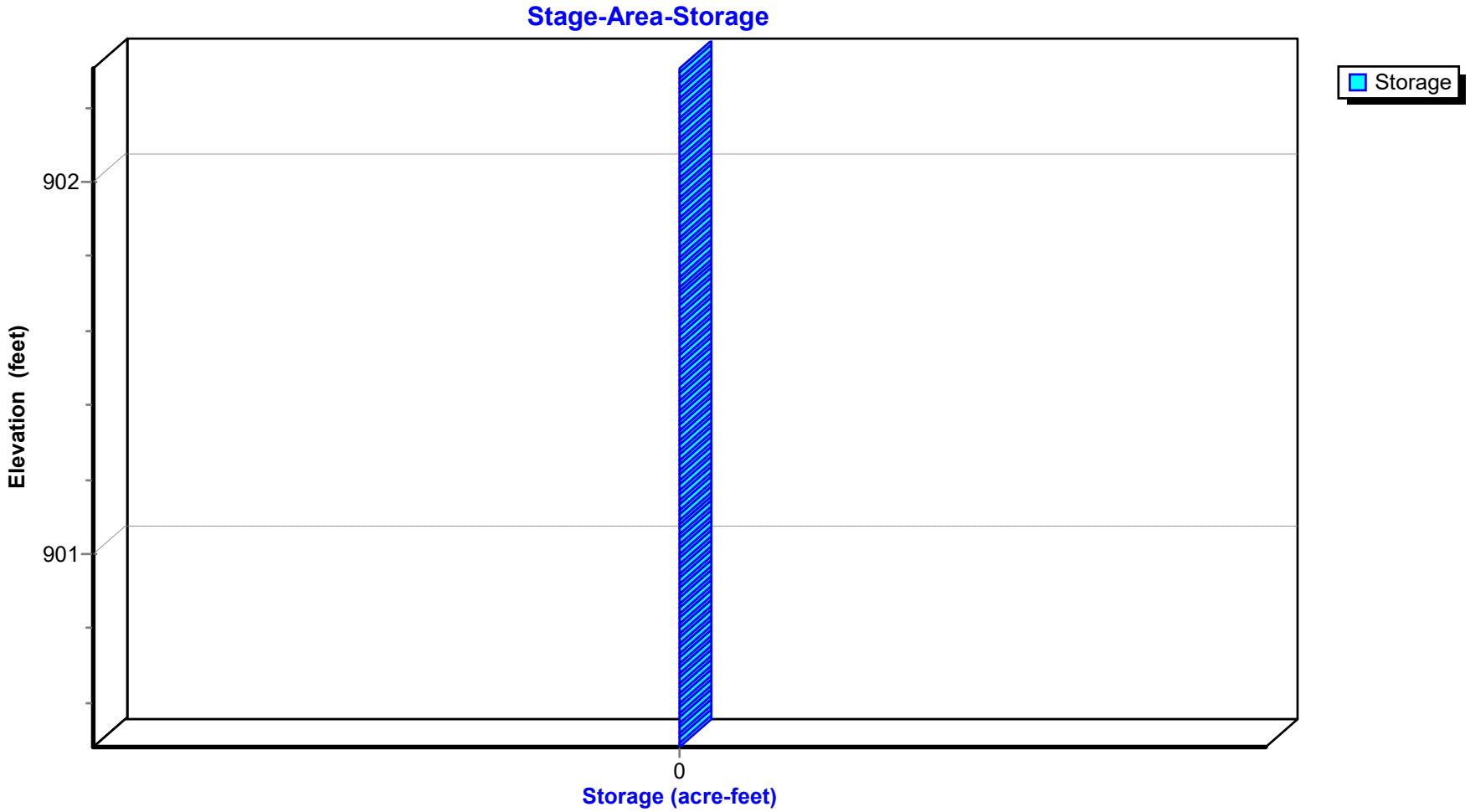
Pond RCVR 3: RCVR 3



Pond RCVR 3: RCVR 3



Pond RCVR 3: RCVR 3



Hydrograph for Pond RCVR 3: RCVR 3

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	900.48	0.00	9.00	0.02	900.58	0.02	18.00	0.01	900.56	0.01
0.25	0.00	900.48	0.00	9.25	0.02	900.58	0.02	18.25	0.01	900.56	0.01
0.50	0.00	900.48	0.00	9.50	0.02	900.58	0.02	18.50	0.01	900.56	0.01
0.75	0.00	900.48	0.00	9.75	0.02	900.59	0.02	18.75	0.01	900.56	0.01
1.00	0.00	900.48	0.00	10.00	0.03	900.59	0.03	19.00	0.01	900.56	0.01
1.25	0.00	900.48	0.00	10.25	0.03	900.60	0.03	19.25	0.01	900.56	0.01
1.50	0.00	900.49	0.00	10.50	0.03	900.61	0.03	19.50	0.01	900.56	0.01
1.75	0.00	900.50	0.00	10.75	0.04	900.62	0.04	19.75	0.01	900.56	0.01
2.00	0.00	900.51	0.00	11.00	0.04	900.63	0.04	20.00	0.01	900.55	0.01
2.25	0.00	900.51	0.00	11.25	0.05	900.65	0.05	20.25	0.01	900.55	0.01
2.50	0.00	900.52	0.00	11.50	0.07	900.68	0.07	20.50	0.01	900.55	0.01
2.75	0.00	900.52	0.00	11.75	0.25	900.88	0.25	20.75	0.01	900.55	0.01
3.00	0.00	900.52	0.00	12.00	**0.77**	**901.68**	**0.77**	21.00	0.01	900.55	0.01
3.25	0.00	900.53	0.00	12.25	**0.39**	**901.95**	**0.39**	21.25	0.01	900.55	0.01
3.50	0.00	900.53	0.00	12.50	0.23	900.85	0.23	21.50	0.01	900.55	0.01
3.75	0.00	900.53	0.00	12.75	0.07	900.70	0.07	21.75	0.01	900.55	0.01
4.00	0.01	900.53	0.01	13.00	0.05	900.68	0.05	22.00	0.01	900.55	0.01
4.25	0.01	900.53	0.01	13.25	0.04	900.84	0.04	22.25	0.01	900.55	0.01
4.50	0.01	900.54	0.01	13.50	0.04	900.69	0.04	22.50	0.01	900.55	0.01
4.75	0.01	900.54	0.01	13.75	0.03	900.65	0.03	22.75	0.01	900.55	0.01
5.00	0.01	900.54	0.01	14.00	0.03	900.63	0.03	23.00	0.01	900.55	0.01
5.25	0.01	900.54	0.01	14.25	0.03	900.61	0.03	23.25	0.01	900.55	0.01
5.50	0.01	900.54	0.01	14.50	0.02	900.61	0.02	23.50	0.01	900.54	0.01
5.75	0.01	900.55	0.01	14.75	0.02	900.60	0.02	23.75	0.01	900.54	0.01
6.00	0.01	900.55	0.01	15.00	0.02	900.59	0.02	24.00	0.01	900.54	0.01
6.25	0.01	900.55	0.01	15.25	0.02	900.59	0.02				
6.50	0.01	900.55	0.01	15.50	0.02	900.59	0.02				
6.75	0.01	900.55	0.01	15.75	0.02	900.58	0.02				
7.00	0.01	900.56	0.01	16.00	0.02	900.58	0.02				
7.25	0.01	900.56	0.01	16.25	0.02	900.58	0.02				
7.50	0.01	900.56	0.01	16.50	0.02	900.58	0.02				
7.75	0.01	900.56	0.01	16.75	0.01	900.57	0.01				
8.00	0.01	900.56	0.01	17.00	0.01	900.57	0.01				
8.25	0.01	900.57	0.01	17.25	0.01	900.57	0.01				
8.50	0.02	900.57	0.02	17.50	0.01	900.57	0.01				
8.75	0.02	900.57	0.02	17.75	0.01	900.57	0.01				

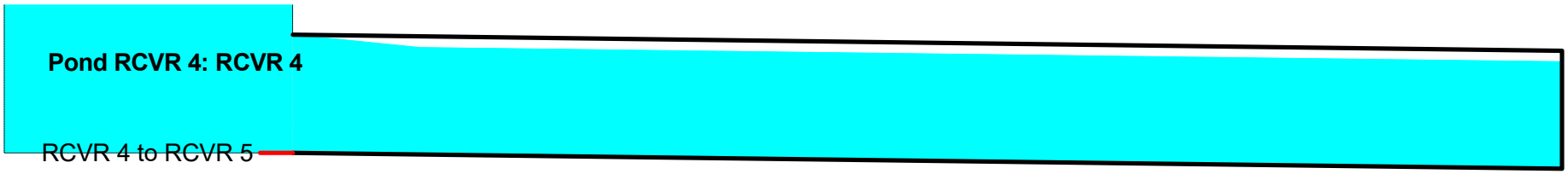
Summary for Pond RCVR 4: RCVR 4

Inflow Area = 0.080 ac, 87.50% Impervious, Inflow Depth > 4.78" for 100-yr event
Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.032 af
Outflow = 0.53 cfs @ 12.04 hrs, Volume= 0.032 af, Atten= 0%, Lag= 0.0 min
Primary = 0.53 cfs @ 12.04 hrs, Volume= 0.032 af
Routed to Pond RCVR 5 : RCVR 5

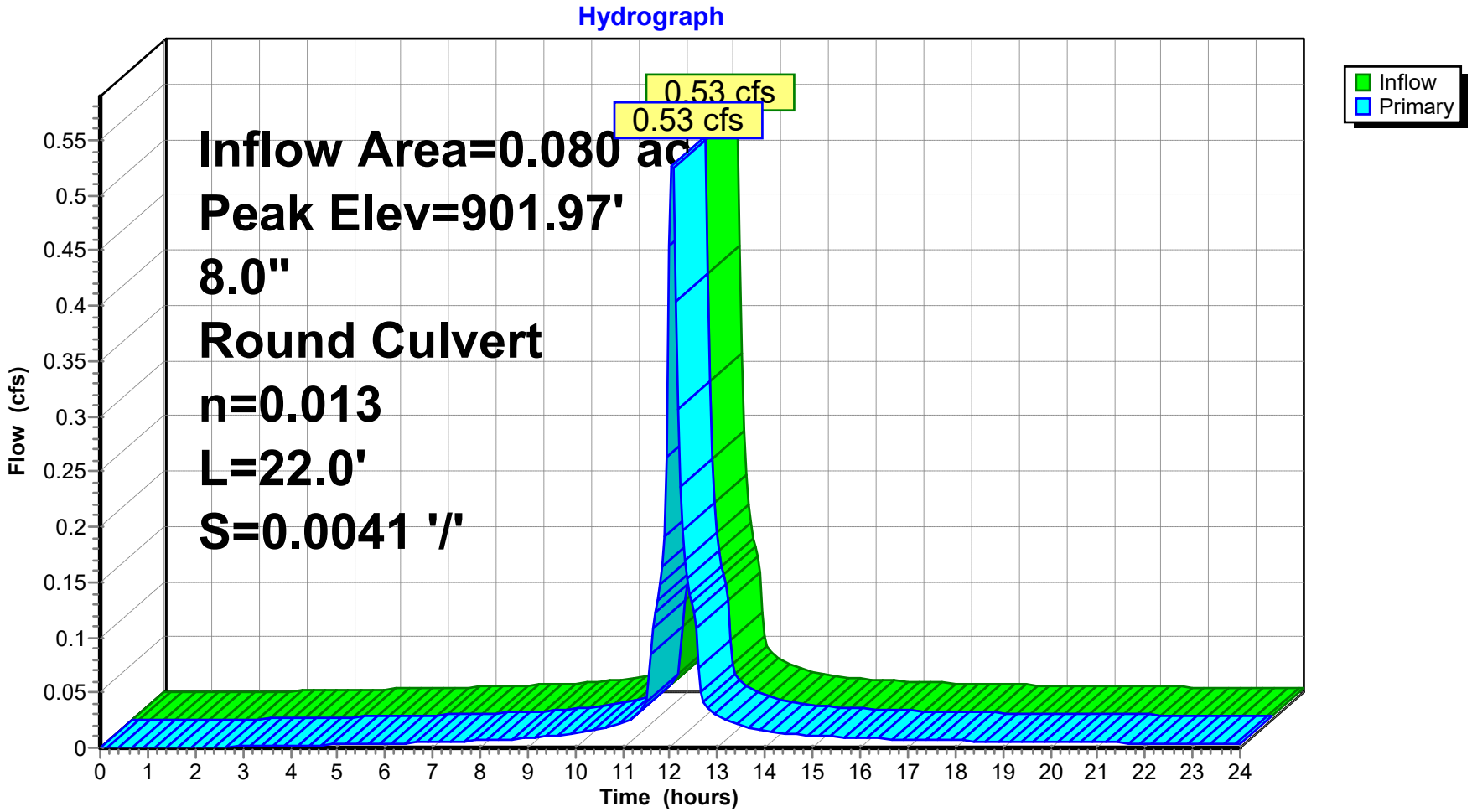
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.97' @ 12.56 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	901.13'	**8.0" Round RCVR 4 to RCVR 5** L= 22.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 901.13' / 901.04' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

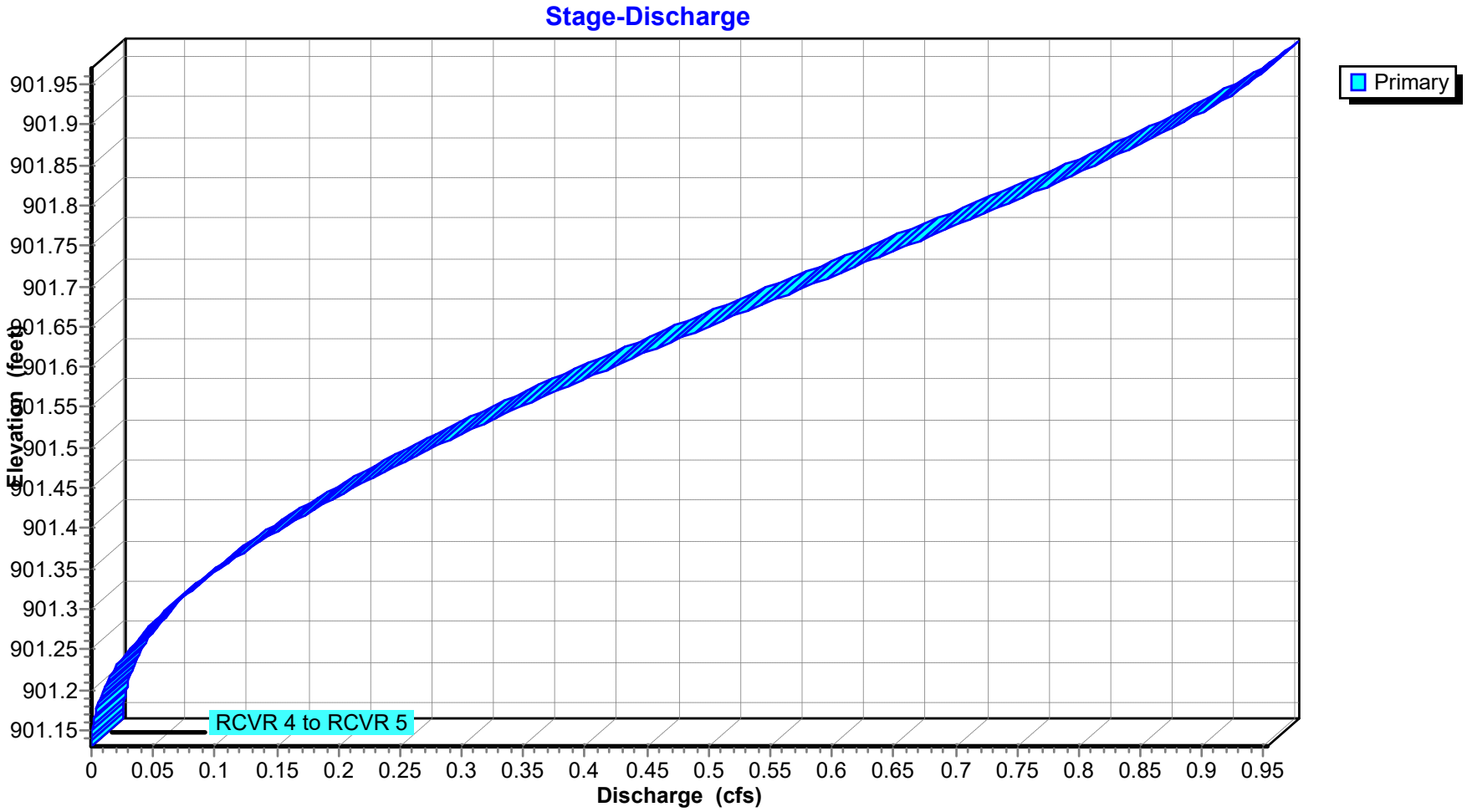
Primary OutFlow Max=0.55 cfs @ 12.04 hrs HW=901.89' TW=901.77' (Dynamic Tailwater)
↑—**1=RCVR 4 to RCVR 5** (Outlet Controls 0.55 cfs @ 1.75 fps)



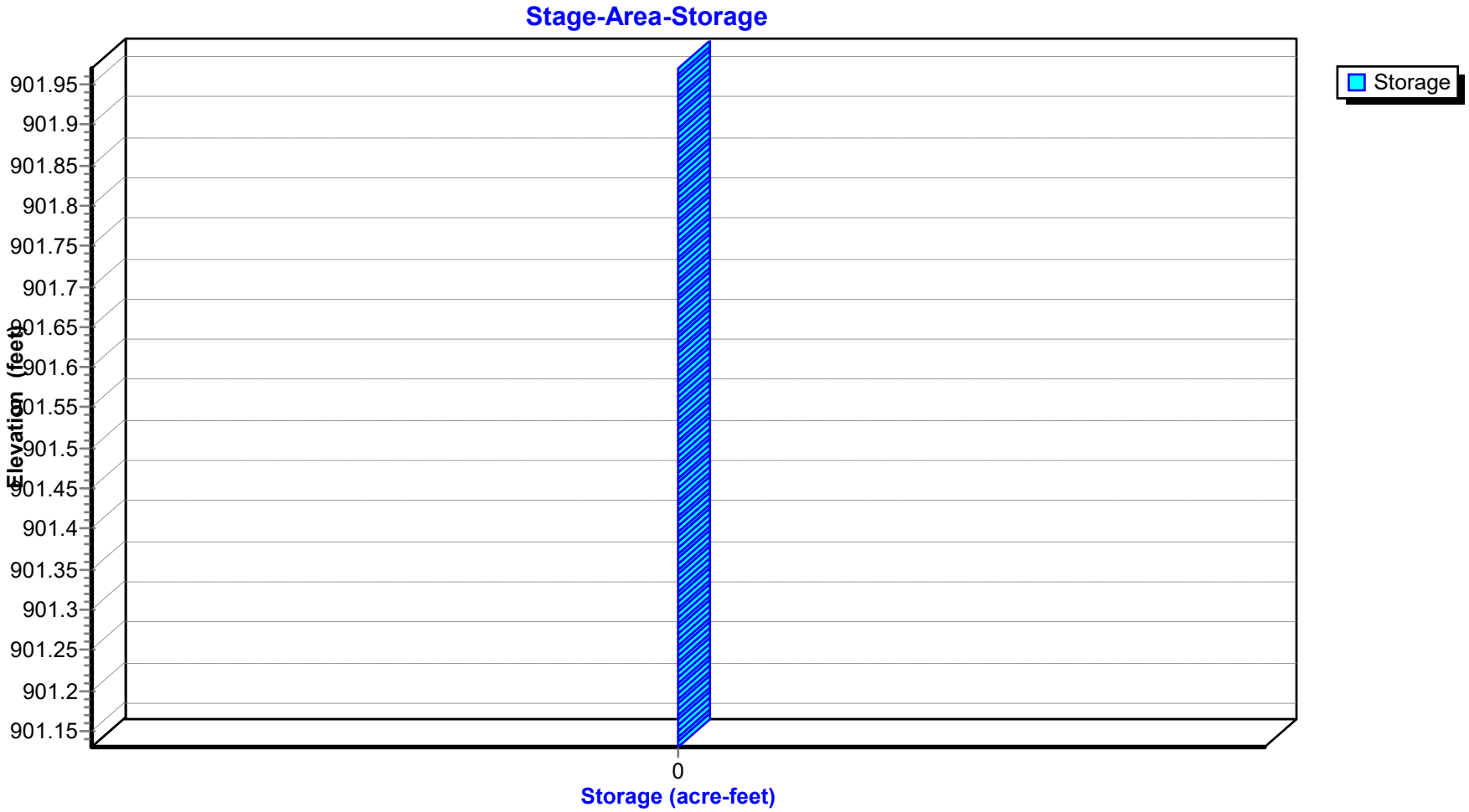
Pond RCVR 4: RCVR 4



Pond RCVR 4: RCVR 4



Pond RCVR 4: RCVR 4



Hydrograph for Pond RCVR 4: RCVR 4

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	901.13	0.00	9.00	0.01	901.20	0.01	18.00	0.01	901.19	0.01
0.25	0.00	901.13	0.00	9.25	0.01	901.21	0.01	18.25	0.01	901.19	0.01
0.50	0.00	901.13	0.00	9.50	0.01	901.21	0.01	18.50	0.01	901.19	0.01
0.75	0.00	901.13	0.00	9.75	0.01	901.21	0.01	18.75	0.01	901.19	0.01
1.00	0.00	901.13	0.00	10.00	0.01	901.22	0.01	19.00	0.01	901.19	0.01
1.25	0.00	901.13	0.00	10.25	0.01	901.22	0.01	19.25	0.01	901.19	0.01
1.50	0.00	901.13	0.00	10.50	0.02	901.23	0.02	19.50	0.01	901.19	0.01
1.75	0.00	901.13	0.00	10.75	0.02	901.24	0.02	19.75	0.01	901.19	0.01
2.00	0.00	901.14	0.00	11.00	0.02	901.25	0.02	20.00	0.01	901.19	0.01
2.25	0.00	901.15	0.00	11.25	0.03	901.26	0.03	20.25	0.01	901.18	0.01
2.50	0.00	901.15	0.00	11.50	0.04	901.29	0.04	20.50	0.00	901.18	0.00
2.75	0.00	901.15	0.00	11.75	0.13	901.44	0.13	20.75	0.00	901.18	0.00
3.00	0.00	901.16	0.00	12.00	**0.46**	901.76	**0.46**	21.00	0.00	901.18	0.00
3.25	0.00	901.16	0.00	12.25	**0.20**	901.81	**0.20**	21.25	0.00	901.18	0.00
3.50	0.00	901.16	0.00	12.50	0.12	**901.91**	0.12	21.50	0.00	901.18	0.00
3.75	0.00	901.16	0.00	12.75	0.04	**901.90**	0.04	21.75	0.00	901.18	0.00
4.00	0.00	901.17	0.00	13.00	0.03	901.64	0.03	22.00	0.00	901.18	0.00
4.25	0.00	901.17	0.00	13.25	0.02	901.40	0.02	22.25	0.00	901.18	0.00
4.50	0.00	901.17	0.00	13.50	0.02	901.26	0.02	22.50	0.00	901.18	0.00
4.75	0.00	901.17	0.00	13.75	0.02	901.24	0.02	22.75	0.00	901.18	0.00
5.00	0.00	901.17	0.00	14.00	0.02	901.23	0.02	23.00	0.00	901.18	0.00
5.25	0.00	901.17	0.00	14.25	0.01	901.22	0.01	23.25	0.00	901.18	0.00
5.50	0.00	901.18	0.00	14.50	0.01	901.22	0.01	23.50	0.00	901.18	0.00
5.75	0.00	901.18	0.00	14.75	0.01	901.22	0.01	23.75	0.00	901.18	0.00
6.00	0.00	901.18	0.00	15.00	0.01	901.21	0.01	24.00	0.00	901.18	0.00
6.25	0.00	901.18	0.00	15.25	0.01	901.21	0.01				
6.50	0.00	901.18	0.00	15.50	0.01	901.21	0.01				
6.75	0.00	901.18	0.00	15.75	0.01	901.21	0.01				
7.00	0.01	901.19	0.01	16.00	0.01	901.20	0.01				
7.25	0.01	901.19	0.01	16.25	0.01	901.20	0.01				
7.50	0.01	901.19	0.01	16.50	0.01	901.20	0.01				
7.75	0.01	901.19	0.01	16.75	0.01	901.20	0.01				
8.00	0.01	901.19	0.01	17.00	0.01	901.20	0.01				
8.25	0.01	901.20	0.01	17.25	0.01	901.20	0.01				
8.50	0.01	901.20	0.01	17.50	0.01	901.19	0.01				
8.75	0.01	901.20	0.01	17.75	0.01	901.19	0.01				

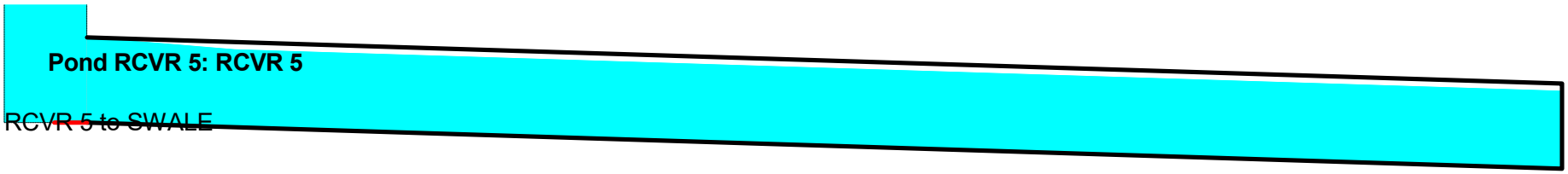
Summary for Pond RCVR 5: RCVR 5

Inflow Area = 0.130 ac, 92.31% Impervious, Inflow Depth > 4.87" for 100-yr event
Inflow = 0.84 cfs @ 12.01 hrs, Volume= 0.053 af
Outflow = 0.84 cfs @ 12.01 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
Primary = 0.84 cfs @ 12.01 hrs, Volume= 0.053 af
Routed to Pond SWALE : SWALE

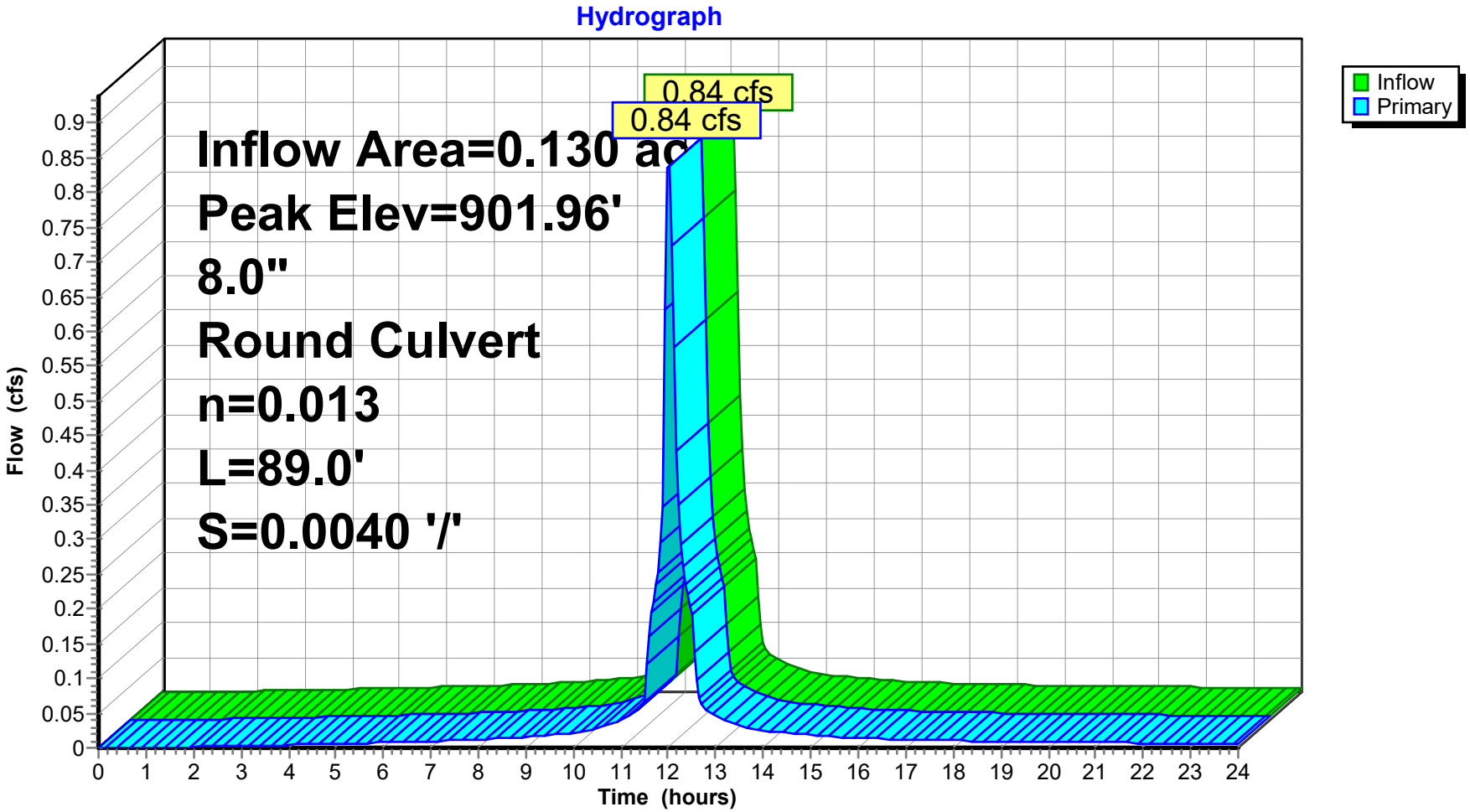
Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.96' @ 12.51 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	901.04'	**8.0" Round RCVR 5 to SWALE** L= 89.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 901.04' / 900.68' S= 0.0040 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

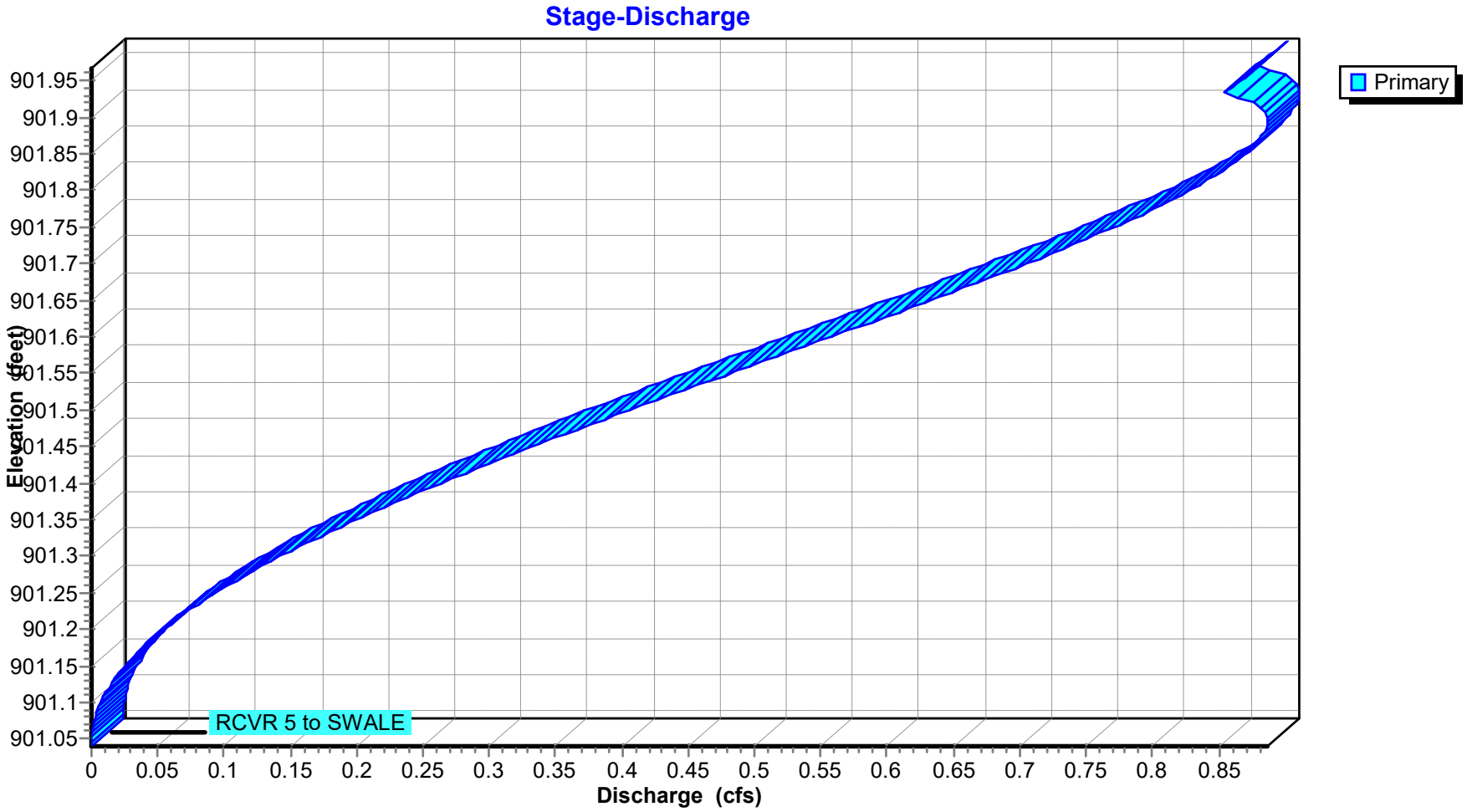
Primary OutFlow Max=0.76 cfs @ 12.01 hrs HW=901.80' TW=901.33' (Dynamic Tailwater)
↑—**1=RCVR 5 to SWALE** (Outlet Controls 0.76 cfs @ 2.41 fps)



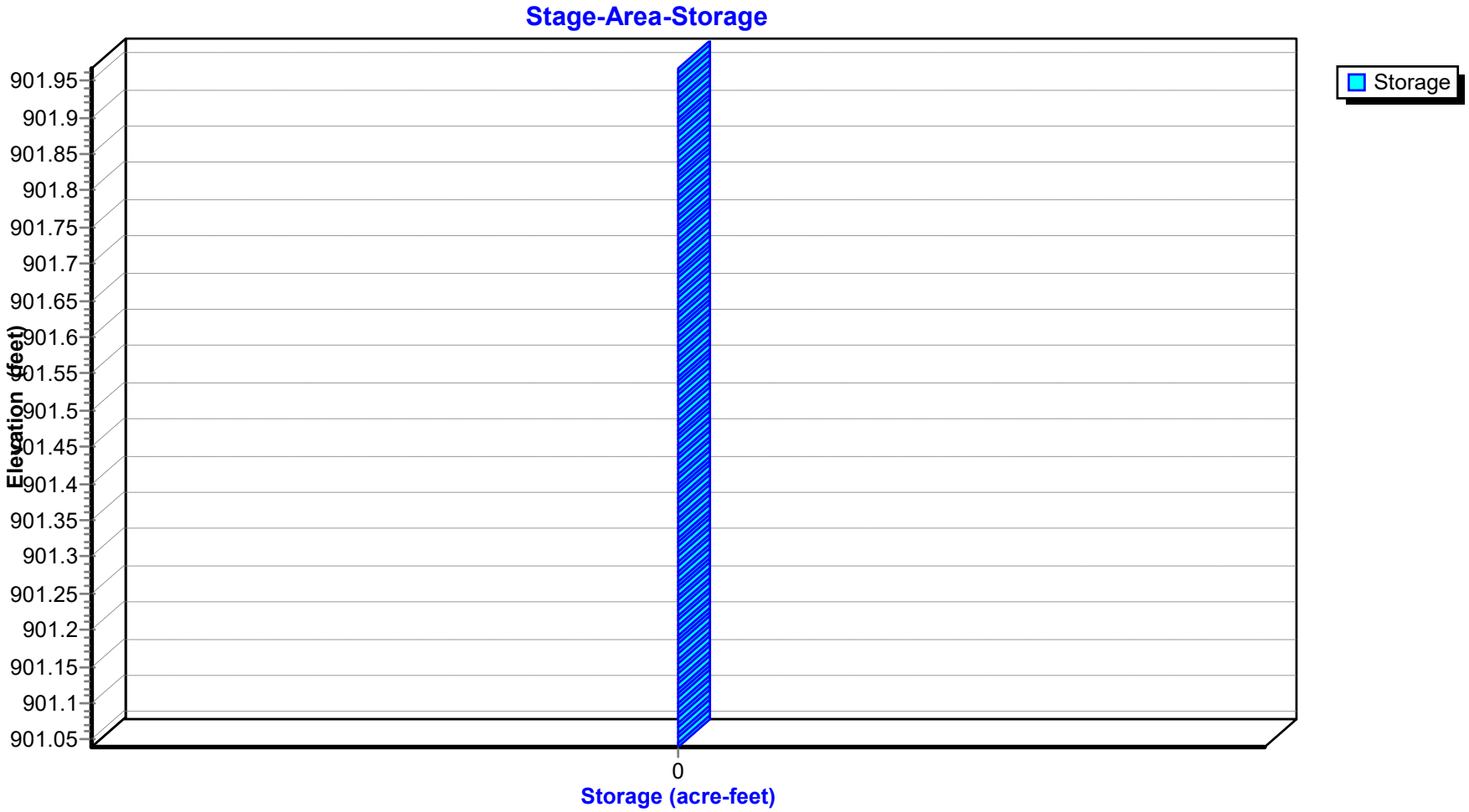
Pond RCVR 5: RCVR 5



Pond RCVR 5: RCVR 5



Pond RCVR 5: RCVR 5



Hydrograph for Pond RCVR 5: RCVR 5

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	901.04	0.00	9.00	0.02	901.13	0.02	18.00	0.01	901.12	0.01
0.25	0.00	901.04	0.00	9.25	0.02	901.13	0.02	18.25	0.01	901.11	0.01
0.50	0.00	901.04	0.00	9.50	0.02	901.13	0.02	18.50	0.01	901.11	0.01
0.75	0.00	901.04	0.00	9.75	0.02	901.14	0.02	18.75	0.01	901.11	0.01
1.00	0.00	901.05	0.00	10.00	0.02	901.14	0.02	19.00	0.01	901.11	0.01
1.25	0.00	901.06	0.00	10.25	0.02	901.15	0.02	19.25	0.01	901.11	0.01
1.50	0.00	901.06	0.00	10.50	0.03	901.16	0.03	19.50	0.01	901.11	0.01
1.75	0.00	901.06	0.00	10.75	0.03	901.16	0.03	19.75	0.01	901.11	0.01
2.00	0.00	901.07	0.00	11.00	0.04	901.18	0.04	20.00	0.01	901.11	0.01
2.25	0.00	901.07	0.00	11.25	0.05	901.19	0.05	20.25	0.01	901.11	0.01
2.50	0.00	901.07	0.00	11.50	0.07	901.22	0.07	20.50	0.01	901.11	0.01
2.75	0.00	901.08	0.00	11.75	0.24	901.38	0.24	20.75	0.01	901.11	0.01
3.00	0.00	901.08	0.00	12.00	**0.83**	901.81	**0.83**	21.00	0.01	901.10	0.01
3.25	0.00	901.08	0.00	12.25	0.29	901.80	0.29	21.25	0.01	901.10	0.01
3.50	0.00	901.08	0.00	12.50	0.19	**901.96**	0.19	21.50	0.01	901.10	0.01
3.75	0.00	901.09	0.00	12.75	0.06	901.86	0.06	21.75	0.01	901.10	0.01
4.00	0.00	901.09	0.00	13.00	0.04	901.59	0.04	22.00	0.01	901.10	0.01
4.25	0.00	901.09	0.00	13.25	0.04	901.34	0.04	22.25	0.01	901.10	0.01
4.50	0.01	901.09	0.01	13.50	0.03	901.21	0.03	22.50	0.01	901.10	0.01
4.75	0.01	901.09	0.01	13.75	0.03	901.18	0.03	22.75	0.01	901.10	0.01
5.00	0.01	901.09	0.01	14.00	0.03	901.17	0.03	23.00	0.01	901.10	0.01
5.25	0.01	901.10	0.01	14.25	0.02	901.16	0.02	23.25	0.01	901.10	0.01
5.50	0.01	901.10	0.01	14.50	0.02	901.15	0.02	23.50	0.01	901.10	0.01
5.75	0.01	901.10	0.01	14.75	0.02	901.14	0.02	23.75	0.01	901.10	0.01
6.00	0.01	901.10	0.01	15.00	0.02	901.14	0.02	24.00	0.01	901.10	0.01
6.25	0.01	901.10	0.01	15.25	0.02	901.14	0.02				
6.50	0.01	901.10	0.01	15.50	0.02	901.13	0.02				
6.75	0.01	901.11	0.01	15.75	0.02	901.13	0.02				
7.00	0.01	901.11	0.01	16.00	0.01	901.13	0.01				
7.25	0.01	901.11	0.01	16.25	0.01	901.13	0.01				
7.50	0.01	901.11	0.01	16.50	0.01	901.12	0.01				
7.75	0.01	901.11	0.01	16.75	0.01	901.12	0.01				
8.00	0.01	901.12	0.01	17.00	0.01	901.12	0.01				
8.25	0.01	901.12	0.01	17.25	0.01	901.12	0.01				
8.50	0.01	901.12	0.01	17.50	0.01	901.12	0.01				
8.75	0.01	901.12	0.01	17.75	0.01	901.12	0.01				

Summary for Pond SWALE: SWALE

Inflow Area = 0.280 ac, 64.29% Impervious, Inflow Depth > 4.29" for 100-yr event
Inflow = 1.15 cfs @ 12.05 hrs, Volume= 0.100 af
Outflow = 1.27 cfs @ 12.50 hrs, Volume= 0.089 af, Atten= 0%, Lag= 26.8 min
Primary = 1.27 cfs @ 12.50 hrs, Volume= 0.089 af
Routed to Pond RCVR 1 : RCVR 1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 901.93' @ 12.60 hrs Surf.Area= 1,688 sf Storage= 1,986 cf

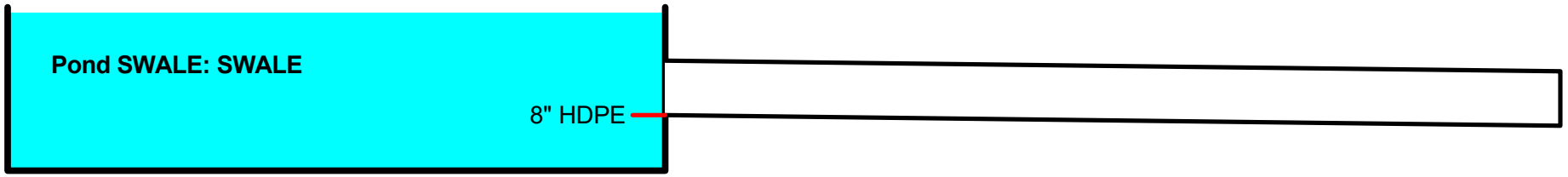
Plug-Flow detention time= 116.0 min calculated for 0.089 af (89% of inflow)
Center-of-Mass det. time= 64.2 min (839.0 - 774.8)

Volume	Invert	Avail.Storage	Storage Description
#1	900.00'	2,104 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
900.00	396	0	0
901.00	1,038	717	717
902.00	1,736	1,387	2,104

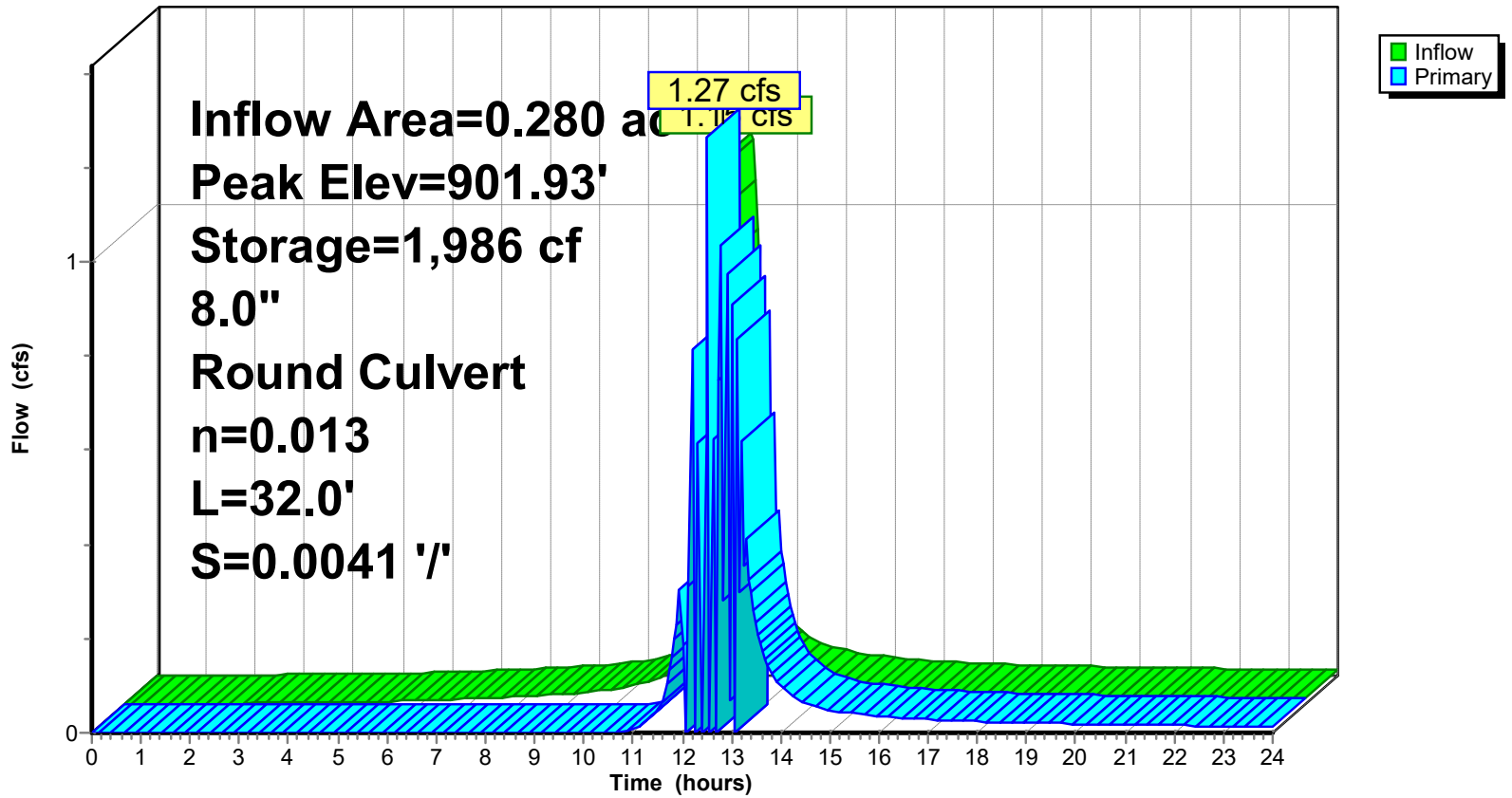
Device	Routing	Invert	Outlet Devices
#1	Primary	900.68'	**8.0" Round 8" HDPE** L= 32.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 900.68' / 900.55' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.00 cfs @ 12.50 hrs HW=901.92' TW=902.07' (Dynamic Tailwater)
1=8" HDPE (Controls 0.00 cfs)

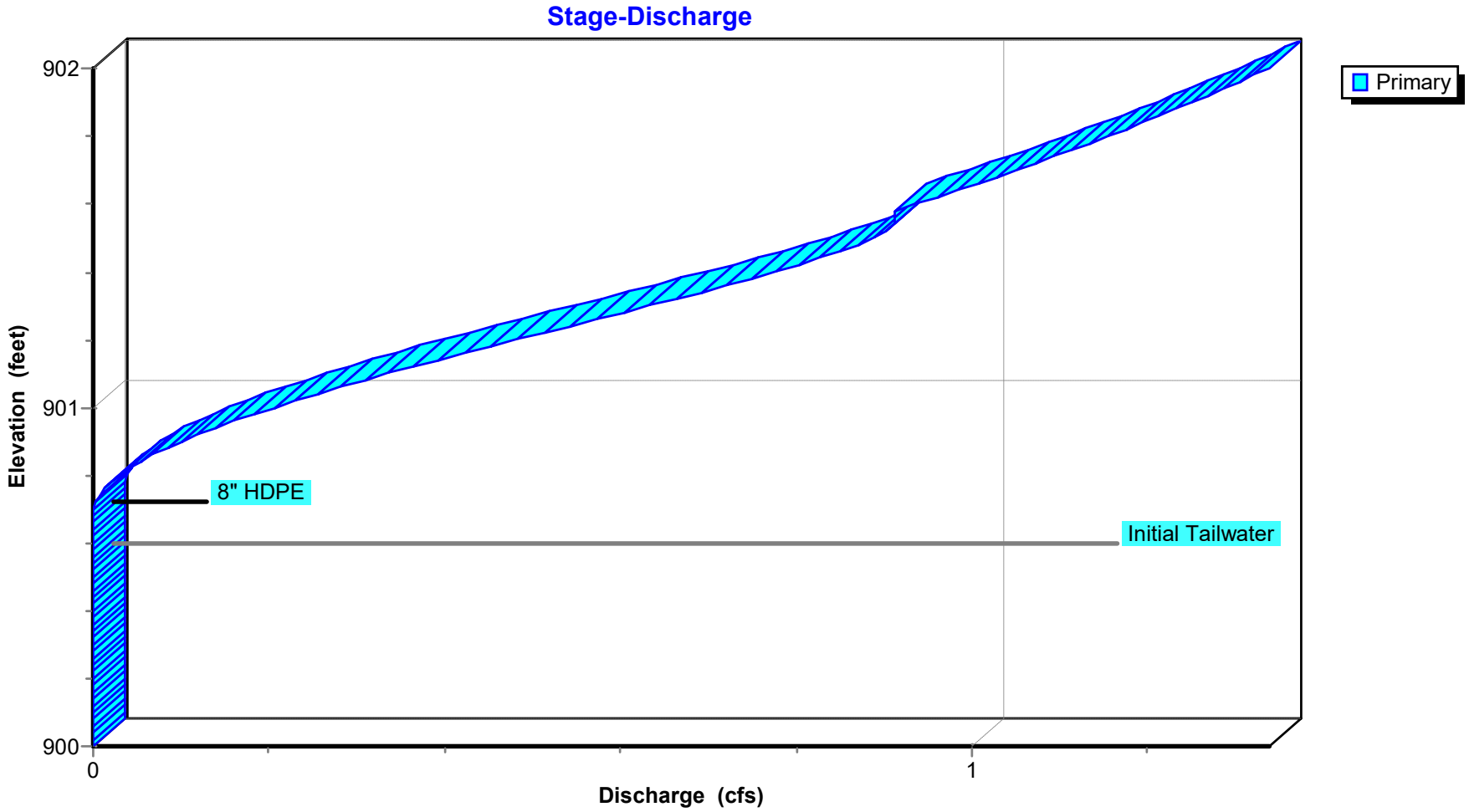


Pond SWALE: SWALE

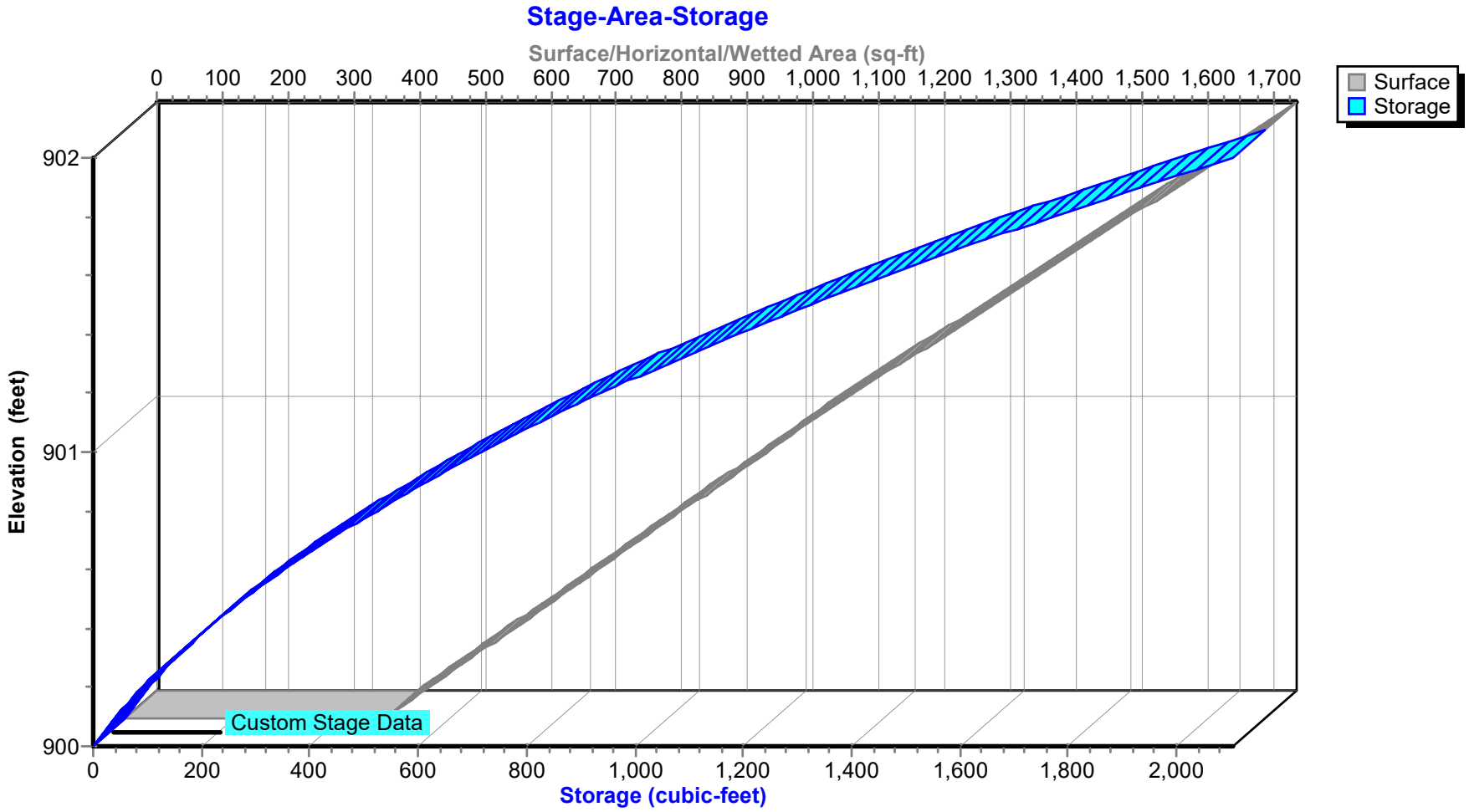
Hydrograph



Pond SWALE: SWALE



Pond SWALE: SWALE



Hydrograph for Pond SWALE: SWALE

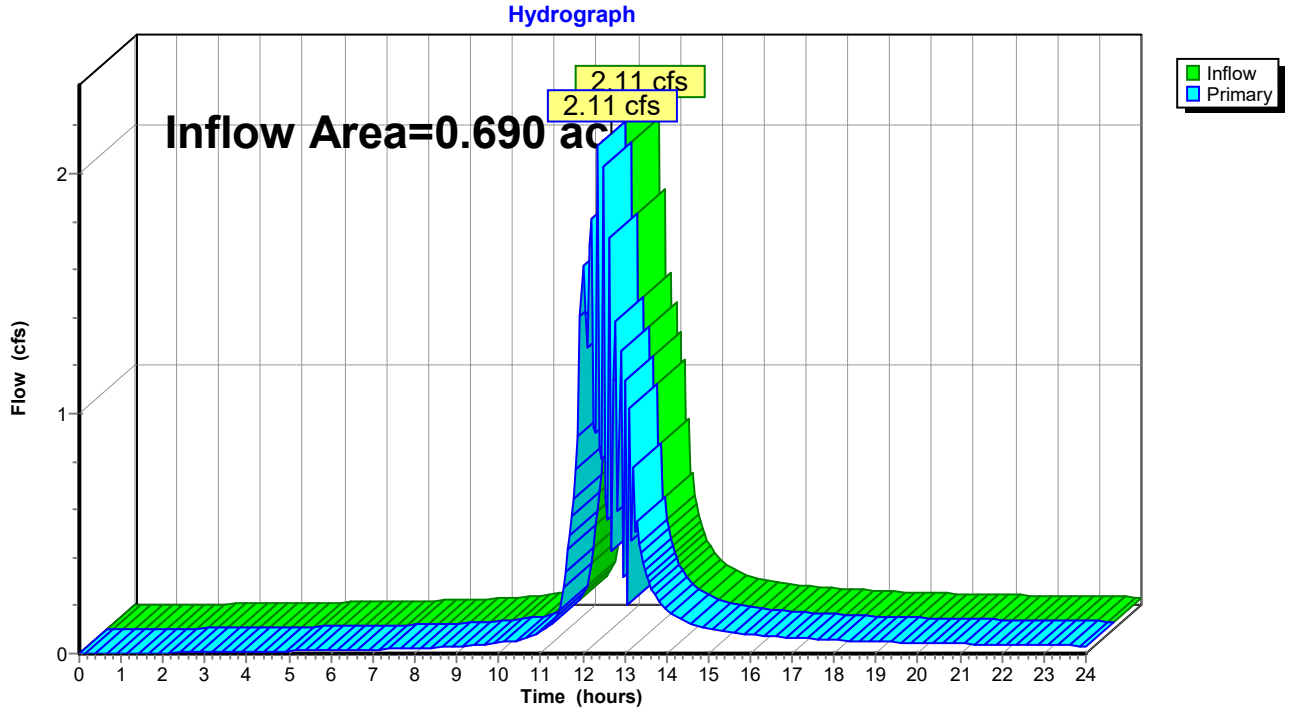
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	900.00	0.00
0.50	0.00	0	900.00	0.00
1.00	0.00	0	900.00	0.00
1.50	0.00	1	900.00	0.00
2.00	0.00	2	900.01	0.00
2.50	0.00	5	900.01	0.00
3.00	0.00	10	900.02	0.00
3.50	0.00	16	900.04	0.00
4.00	0.00	23	900.06	0.00
4.50	0.01	32	900.08	0.00
5.00	0.01	41	900.10	0.00
5.50	0.01	53	900.12	0.00
6.00	0.01	66	900.15	0.00
6.50	0.01	82	900.18	0.00
7.00	0.01	101	900.22	0.00
7.50	0.01	123	900.26	0.00
8.00	0.02	149	900.30	0.00
8.50	0.02	180	900.35	0.00
9.00	0.02	216	900.41	0.00
9.50	0.03	260	900.47	0.00
10.00	0.03	314	900.55	0.00
10.50	0.04	384	900.64	0.00
11.00	0.06	475	900.75	0.01
11.50	0.11	575	900.86	0.05
12.00	**1.14**	1,073	901.31	0.19
12.50	**0.46**	**1,960**	**901.92**	**1.27**
13.00	0.10	**1,371**	**901.53**	0.91
13.50	0.07	805	901.08	0.23
14.00	0.05	643	900.93	0.10
14.50	0.05	590	900.87	0.06
15.00	0.04	566	900.85	0.05
15.50	0.03	552	900.83	0.04
16.00	0.03	542	900.82	0.04
16.50	0.03	535	900.81	0.03
17.00	0.03	529	900.81	0.03
17.50	0.02	524	900.80	0.03
18.00	0.02	520	900.80	0.02
18.50	0.02	516	900.79	0.02
19.00	0.02	513	900.79	0.02
19.50	0.02	510	900.79	0.02
20.00	0.02	507	900.78	0.02
20.50	0.02	505	900.78	0.02
21.00	0.02	503	900.78	0.02
21.50	0.02	501	900.78	0.02
22.00	0.01	499	900.77	0.02
22.50	0.01	497	900.77	0.02
23.00	0.01	495	900.77	0.01
23.50	0.01	494	900.77	0.01
24.00	0.01	493	900.77	0.01

Summary for Link POST: Post Development

Inflow Area = 0.690 ac, 56.52% Impervious, Inflow Depth > 3.97" for 100-yr event
Inflow = 2.11 cfs @ 12.35 hrs, Volume= 0.228 af
Primary = 2.11 cfs @ 12.35 hrs, Volume= 0.228 af, Atten= 0%, Lag= 0.0 min

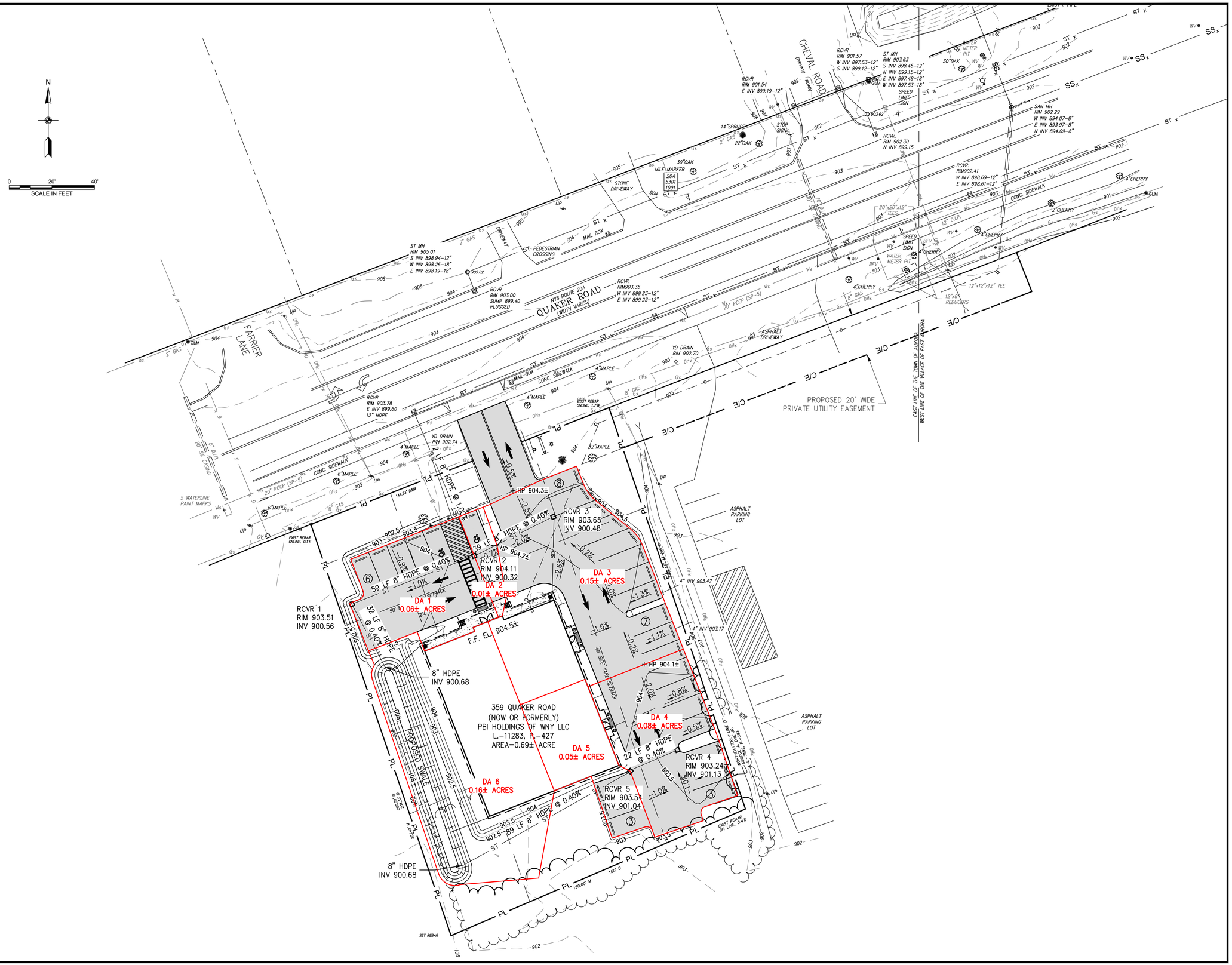
Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Link POST: Post Development



Hydrograph for Link POST: Post Development

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	9.00	0.03	0.00	0.03	18.00	0.06	0.00	0.06
0.25	0.00	0.00	0.00	9.25	0.03	0.00	0.03	18.25	0.05	0.00	0.05
0.50	0.00	0.00	0.00	9.50	0.04	0.00	0.04	18.50	0.05	0.00	0.05
0.75	0.00	0.00	0.00	9.75	0.04	0.00	0.04	18.75	0.05	0.00	0.05
1.00	0.00	0.00	0.00	10.00	0.04	0.00	0.04	19.00	0.05	0.00	0.05
1.25	0.00	0.00	0.00	10.25	0.05	0.00	0.05	19.25	0.05	0.00	0.05
1.50	0.00	0.00	0.00	10.50	0.06	0.00	0.06	19.50	0.05	0.00	0.05
1.75	0.00	0.00	0.00	10.75	0.07	0.00	0.07	19.75	0.05	0.00	0.05
2.00	0.00	0.00	0.00	11.00	0.09	0.00	0.09	20.00	0.04	0.00	0.04
2.25	0.00	0.00	0.00	11.25	0.13	0.00	0.13	20.25	0.04	0.00	0.04
2.50	0.00	0.00	0.00	11.50	0.19	0.00	0.19	20.50	0.04	0.00	0.04
2.75	0.01	0.00	0.01	11.75	0.57	0.00	0.57	20.75	0.04	0.00	0.04
3.00	0.01	0.00	0.01	12.00	1.61	0.00	1.61	21.00	0.04	0.00	0.04
3.25	0.01	0.00	0.01	12.25	**0.94**	0.00	**0.94**	21.25	0.04	0.00	0.04
3.50	0.01	0.00	0.01	12.50	**2.03**	0.00	**2.03**	21.50	0.04	0.00	0.04
3.75	0.01	0.00	0.01	12.75	1.14	0.00	1.14	21.75	0.04	0.00	0.04
4.00	0.01	0.00	0.01	13.00	1.14	0.00	1.14	22.00	0.04	0.00	0.04
4.25	0.01	0.00	0.01	13.25	0.50	0.00	0.50	22.25	0.04	0.00	0.04
4.50	0.01	0.00	0.01	13.50	0.35	0.00	0.35	22.50	0.04	0.00	0.04
4.75	0.01	0.00	0.01	13.75	0.24	0.00	0.24	22.75	0.03	0.00	0.03
5.00	0.01	0.00	0.01	14.00	0.18	0.00	0.18	23.00	0.03	0.00	0.03
5.25	0.01	0.00	0.01	14.25	0.15	0.00	0.15	23.25	0.03	0.00	0.03
5.50	0.01	0.00	0.01	14.50	0.13	0.00	0.13	23.50	0.03	0.00	0.03
5.75	0.01	0.00	0.01	14.75	0.12	0.00	0.12	23.75	0.03	0.00	0.03
6.00	0.01	0.00	0.01	15.00	0.11	0.00	0.11	24.00	0.03	0.00	0.03
6.25	0.01	0.00	0.01	15.25	0.10	0.00	0.10				
6.50	0.02	0.00	0.02	15.50	0.09	0.00	0.09				
6.75	0.02	0.00	0.02	15.75	0.08	0.00	0.08				
7.00	0.02	0.00	0.02	16.00	0.08	0.00	0.08				
7.25	0.02	0.00	0.02	16.25	0.08	0.00	0.08				
7.50	0.02	0.00	0.02	16.50	0.07	0.00	0.07				
7.75	0.02	0.00	0.02	16.75	0.07	0.00	0.07				
8.00	0.02	0.00	0.02	17.00	0.07	0.00	0.07				
8.25	0.02	0.00	0.02	17.25	0.06	0.00	0.06				
8.50	0.02	0.00	0.02	17.50	0.06	0.00	0.06				
8.75	0.03	0.00	0.03	17.75	0.06	0.00	0.06				



GPI
Engineering
Design
Planning
Construction Management
(716) 633-4844 GPINET.COM
Greenman - Pedersen, Inc.
4950 Genesee Street, Suite 100
Buffalo, NY, 14225

PREPARED FOR
PCW Enterprises, LLC
4185 East Blood Road
Cowlesville, NY 14037

359 QUAKER ROAD MEDICAL OFFICES

359 Quaker Road
Town of Aurora, NY 14052

WARNING: ALTERATIONS TO THIS DOCUMENT NOT CONFORMING TO SECTION 7209, SUBDIVISION 2, STATE EDUCATION LAW, ARE PROHIBITED

REVISIONS

NO.	REVISION	DATE

October 2025

DRAWN/DESIGN BY	CHECKED BY
JS	JB

Drainage Inlet Drainage Areas

REVIEW SET NOT ISSUED FOR CONSTRUCTION

SCALE: 1" = 20'

WNY-2500056.00

01 of 01

N:\2025\WNY-2500056.00_359 QUAKER ROAD_SITE PLAN\Design\Engineering\Drainage\WNY-2500056.00_Hydrology.dwg Thursday, 18 December 2025 4:16PM

DRAINAGE COMPUTATIONS

SEWER LOCATION			TRIBUTARY AREA		RUNOFF COEFFICIENT			TIME OF CONCENTRATION			REQUIRED CAPACITY		DESIGN n = 0.012					PROFILE				EXISTING CAPACITY	
DRAINAGE AREAS	FROM	TO	A (ac)	ΣA (ac)	C	CA	ΣCA	IN CHANNEL (sec)	IN CHANNEL (min)	Tc (min)	i (in/hr)	q (cfs)	D (in)	V (fps)	Q_{full} (cfs)	LENGTH (ft)	s (%)	Drop	Invert	Rim	Cover	Q (cfs)	% REQ'D
DA 4	RCVR 4	RCVR 5	0.08	0.08	0.80	0.06	0.06	9.77	0.16	5.00	5.28	0.34	8	2.25	0.83	22	0.40%	0.09	901.13	*903.24*	1.45		
DA 5	RCVR 5	Swale	0.05	0.13	0.80	0.04	0.10	35.19	0.59	5.16	5.22	0.54	8	2.53	0.83	89	0.40%	0.36	901.04	*903.54*	1.83		
DA 6	Swale	RCVR 1	0.16	0.29	0.60	0.10	0.20	12.11	0.20	15.00	3.36	0.67	8	2.64	0.83	32	0.40%	0.13	900.68				
DA 1	RCVR 1	RCVR 2	0.06	0.35	0.80	0.05	0.25	21.82	0.36	15.20	3.34	0.83	8	2.70	0.83	59	0.40%	0.24	900.56	*903.51*	2.29		
DA 3	RCVR 3	RCVR 2	0.15	0.15	0.80	0.12	0.12	14.92	0.25	5.00	5.28	0.63	8	2.61	0.83	39	0.40%	0.16	900.48	*903.65*	2.51		
DA 2	RCVR 2	Ex RCVR	0.01	0.51	0.80	0.01	0.38	16.88	0.28	15.57	3.30	1.24	8	4.27	1.31	72	1.00%	0.72	900.32	*904.11*	3.12		

COMPUTED BY: JJS DATE: 12/18/25

CHECKED BY: DATE:

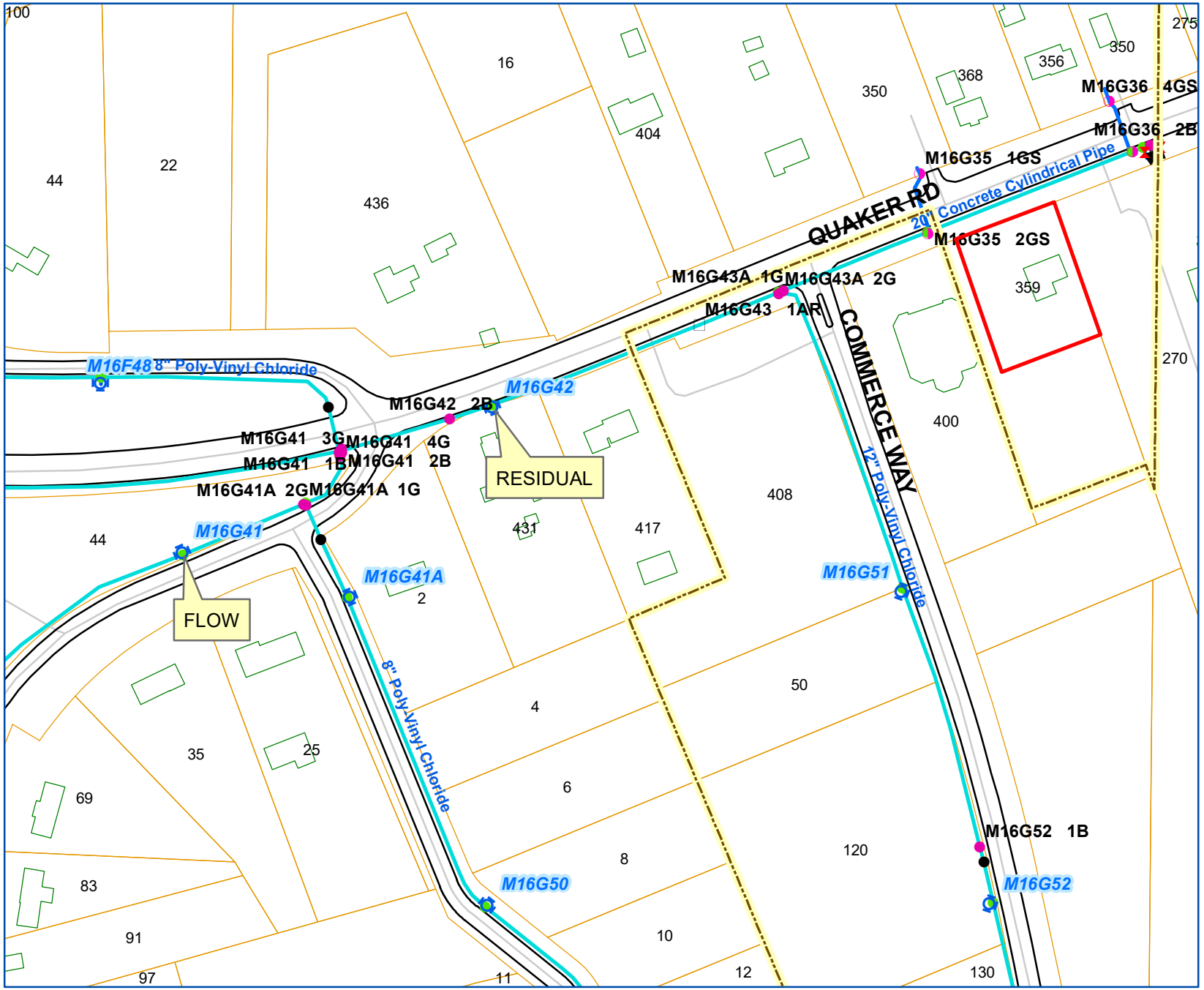
LOCATION: 359 Quaker Road

SHEET 1 OF 1

APPENDIX B

WATERLINE CALCULATIONS AND MODELS

359 QUAKER RD

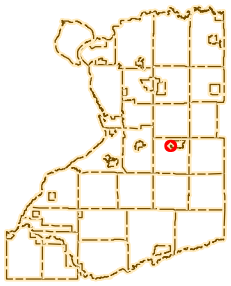


N

1 inch = 200 feet

Legend:

Parcels



ARM Hydrant Flow Test Inquiry -- Hydrant: M16G42 Test Date/Time: 6/17/2019 11:35 CHI095-B
Address: 431 QUAKER RD Side: S Location: 1ST E/O JEWETT HOLMWOOD RD
AURORA
Size of Main/Branch: 20"/6" Fire District: 24020 FIRE PROTECT DIST 1 Water District: 059 ECWA AREA-TOWN OF AURORA

Performed By: AMM Comments: HYDRANT FLOW TEST REQUESTED BY ERIC DANIEL, C&S COMPANIES
PHONE: 847-1630; EMAIL: EDANIEL@CSCOS.COM

Dischrge Coef: .90 Elvtn Usgs(ft): Static(psi): 81 Residual(psi): 64 Required Residual Pressure(psi): 20
Gallons Used..: 3,330 Total Flow(gpm): 1,113 Flow at Reqd Resid Pressure: 2,219

Flow Hydrants:

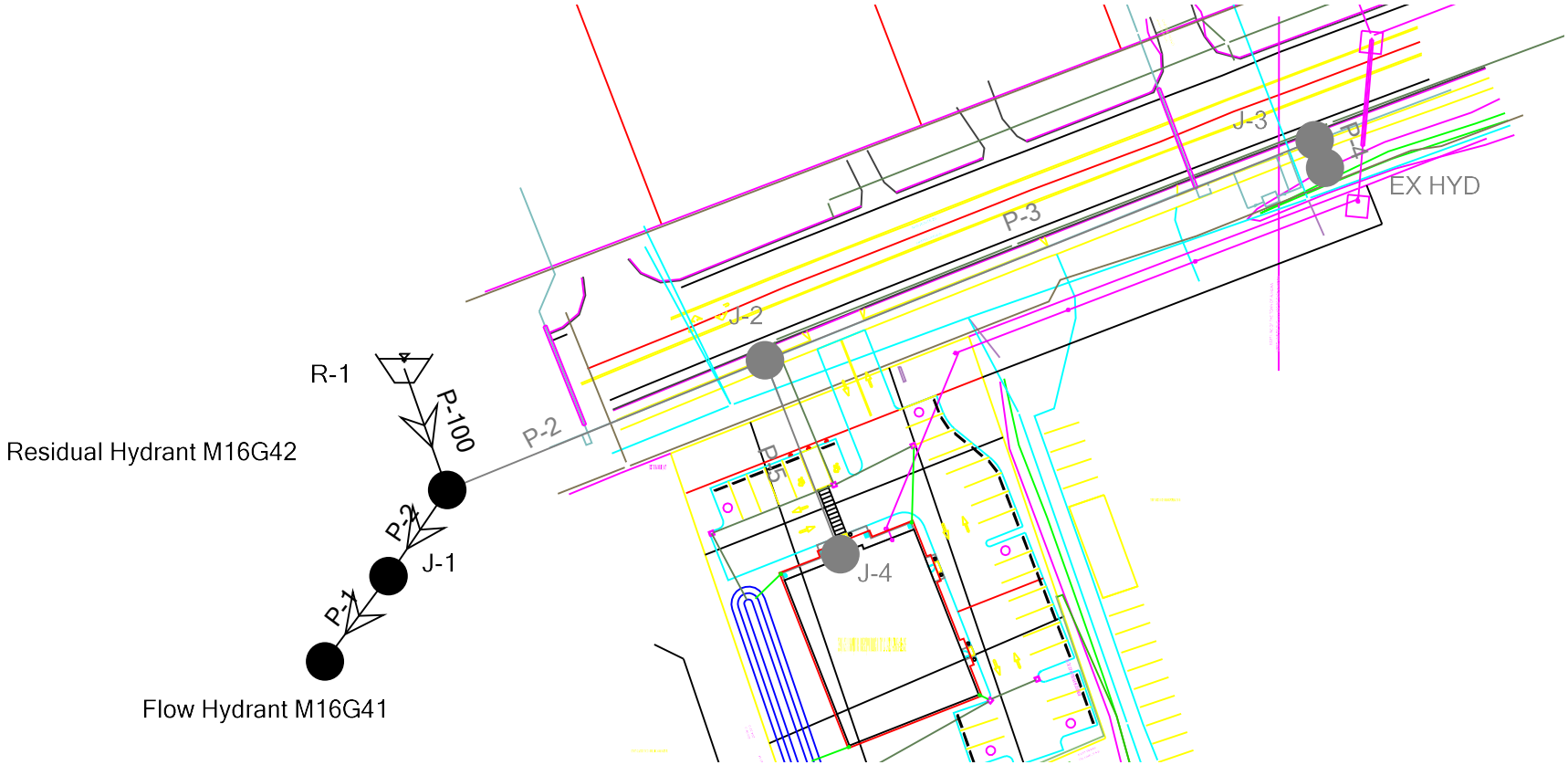
C	Flow Hyd	Flow Hydrant Address	Main/Brnch	Nzle	Size	Pitot	Flow	Comments
_	M16 G41	OP 25 JEWETT HOLMWOOD 1ST HYD SW/O QUAKER RD	8"/6"	1:	2.50	44.0	1,113	
				2:				
				3:			Tot Flow:	1,113

Bottom

I=Flow Hydrant Inquiry
ENTER=Continue F3=Exit F6=Maintain Test F7=Test Hydrant Inquiry F15=Print Test Information

Calibration

359 Quaker Road - Time: 0.00 hours



Calibration

Junction Table - Time: 0.00 hours

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
EX HYD	901.91	(N/A)	(N/A)	(N/A)
Flow Hydrant M16G41	903.50	1,113	1,050.42	64
J-2	904.54	(N/A)	(N/A)	(N/A)
J-3	903.24	(N/A)	(N/A)	(N/A)
J-4	904.50	(N/A)	(N/A)	(N/A)
Residual Hydrant M16G42	902.50	0	1,060.65	68

Pipe Table - Time: 0.00 hours

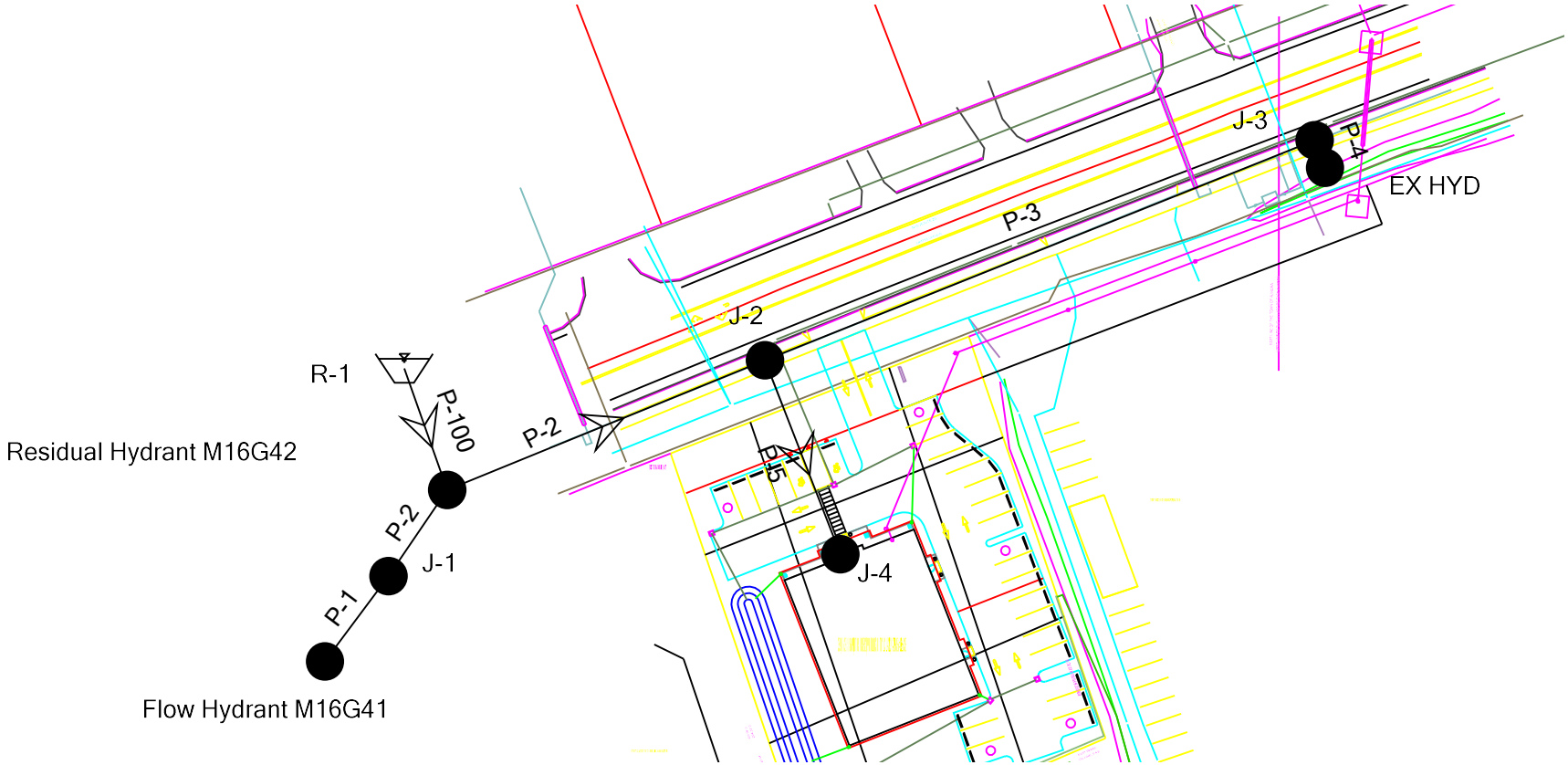
Label	Length (Scaled) (ft)	Diameter (in)	Material	Hazen-Williams C	Has User Defined Length?	Length (User Defined) (ft)
P-2	160	20.0	Concrete	100.0	True	758
P-3	277	20.0	Concrete	100.0	False	0
P-4	14	6.0	Ductile Iron	100.0	False	0
P-5	97	2.0	Copper	100.0	False	0
P-100	60	8.0	Ductile Iron	130.0	True	1,300

Reservoir Table - Time: 0.00 hours

Label	Elevation (ft)	Flow (In net) (gpm)	Flow (Out net) (gpm)	Hydraulic Grade (ft)
R-1	1,089.60	-1,113	1,113	1,089.60

Maximum Demand

359 Quaker Road - Time: 0.00 hours



Maximum Demand

Junction Table - Time: 0.00 hours

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
EX HYD	901.91	0	1,089.53	81
Flow Hydrant M16G41	903.50	0	1,089.53	80
J-2	904.54	0	1,089.53	80
J-3	903.24	0	1,089.53	81
J-4	904.50	42	1,082.55	77
Residual Hydrant M16G42	902.50	0	1,089.53	81

Pipe Table - Time: 0.00 hours

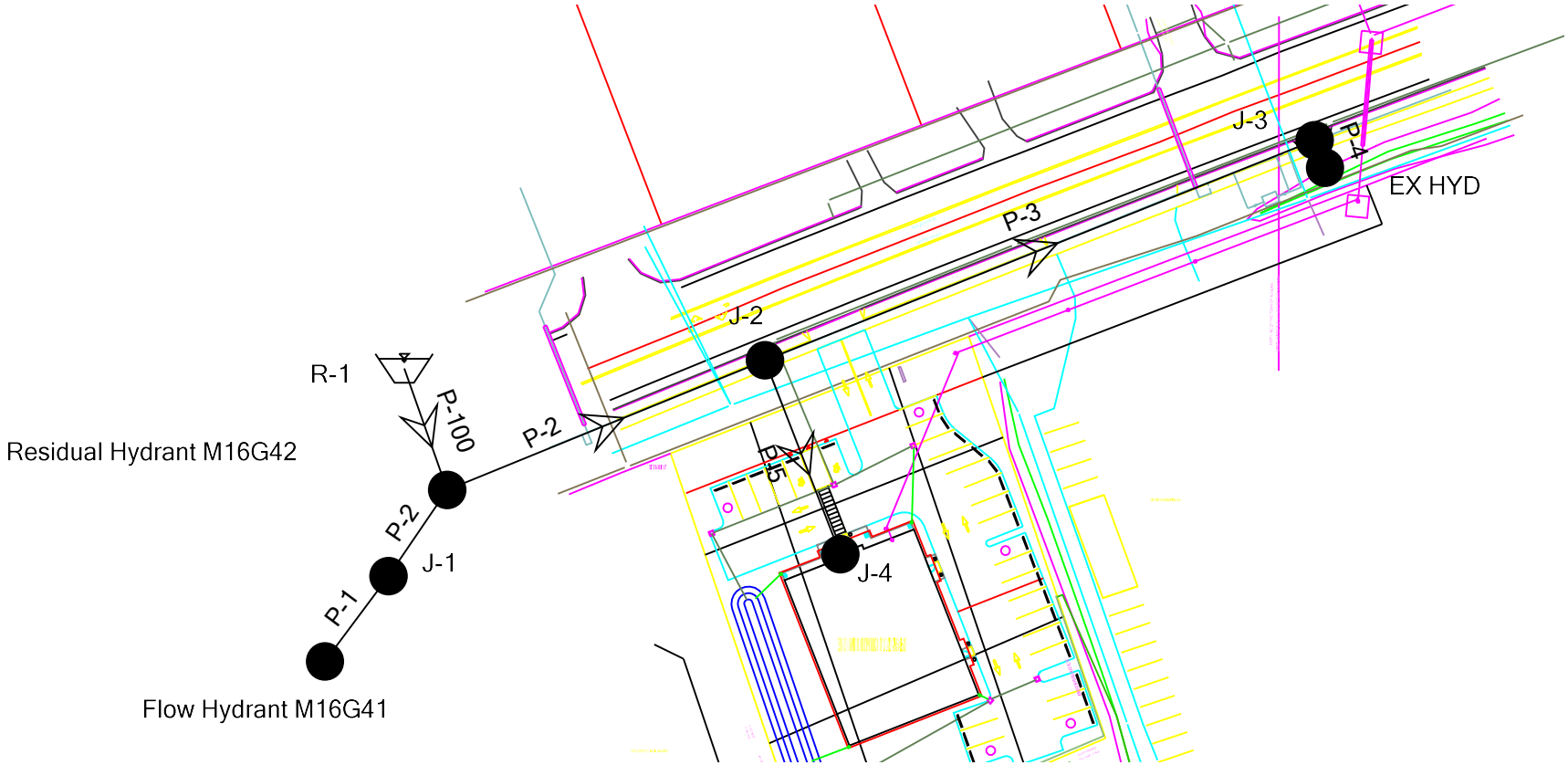
Label	Length (Scaled) (ft)	Diameter (in)	Material	Hazen-Williams C	Has User Defined Length?	Length (User Defined) (ft)
P-2	160	20.0	Concrete	100.0	True	758
P-3	277	20.0	Concrete	100.0	False	0
P-4	14	6.0	Ductile Iron	100.0	False	0
P-5	97	2.0	Copper	100.0	False	0
P-100	60	8.0	Ductile Iron	130.0	True	1,300

Reservoir Table - Time: 0.00 hours

Label	Elevation (ft)	Flow (In net) (gpm)	Flow (Out net) (gpm)	Hydraulic Grade (ft)
R-1	1,089.60	-42	42	1,089.60

Max Demand with Fire Flow

359 Quaker Road - Time: 0.00 hours



Max Demand with Fire Flow

Junction Table - Time: 0.00 hours

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
EX HYD	901.91	1,500	1,032.34	56
Flow Hydrant M16G41	903.50	0	1,036.64	58
J-2	904.54	0	1,036.06	57
J-3	903.24	0	1,035.86	57
J-4	904.50	42	1,029.08	54
Residual Hydrant M16G42	902.50	0	1,036.64	58

Pipe Table - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Hazen-Williams C	Has User Defined Length?	Length (User Defined) (ft)
P-2	160	20.0	Concrete	100.0	True	758
P-3	277	20.0	Concrete	100.0	False	0
P-4	14	6.0	Ductile Iron	100.0	False	0
P-5	97	2.0	Copper	100.0	False	0
P-100	60	8.0	Ductile Iron	130.0	True	1,300

Reservoir Table - Time: 0.00 hours

Label	Elevation (ft)	Flow (In net) (gpm)	Flow (Out net) (gpm)	Hydraulic Grade (ft)
R-1	1,089.60	-1,542	1,542	1,089.60

359 QUAKER ROAD - DENTAL OFFICE

DETERMINE PEAK INSTANTANEOUS WATER DEMAND TO BE USED IN SIZING THE PROPOSED WATER SERVICE TO THE DENTAL OFFICE

(Information based on 2025 Plumbing Code of NYS & 2025 Residential Code of NYS)

	Type and Number of Fixtures				
Location	**Private Lavatory**	**Water Closet**	**Service Sink**	**Dental Chair**	**Clothes Washer**
Dental Chairs				7	
Staff Lounge			1		
Restroom	4	4			
Laboratory			1		
Sterilization			1		
Laundry					1
Total Fixture Count by Type =	**4**	**4**	**3**	**7**	**1**
Water Demand, gpm/fixture type =	0.8	3	3	1.5	4
Water Demand, gpm =	3.2	12	9	10.5	4
Total Peak Water Demand, gpm =	**38.7**				

Check Total Water Demand Based on Water Supply Fixture Unit Loads

Water Supply Fixture Unit Load (w.s.f.u.) =	0.7	2.2	1.4	2	1.4		
WSUL for all Fixtures =	2.8	8.8	4.2	14	1.4	=	31.2 w.s.f.u.

Total Peak Water Demand, gpm = **24** (System with Predominantly Flush Tanks)

Total Peak Water Demand, gpm = **42** (System with Predominantly Flush Valves)

Total Peak Water Demand, gpm = **42** **<--- Use This To Size The Proposed Water Service To The Dental Office Building**

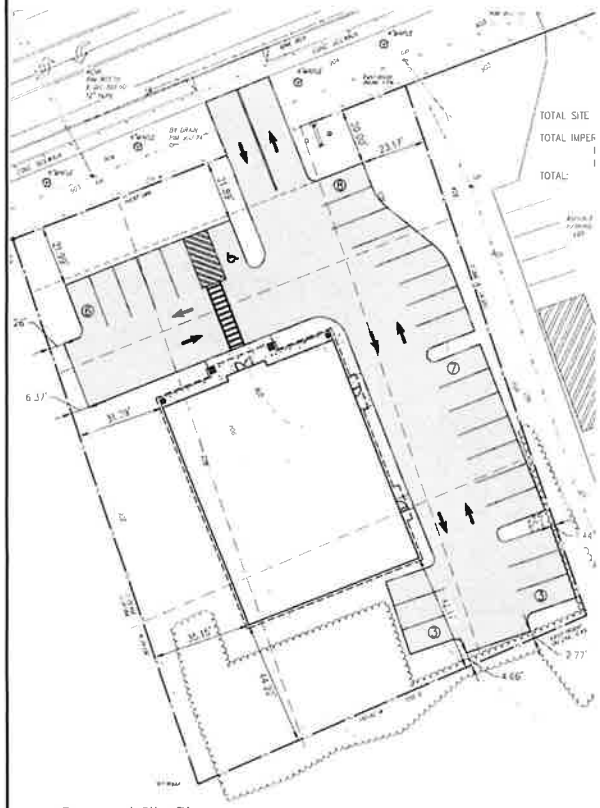
Note: Calculations are based on Concept Floor Plan, prepared by SUTTON ARCHITECTURE

BY: **J. SOBOL - GREENMAN-PEDERSEN, INC.**

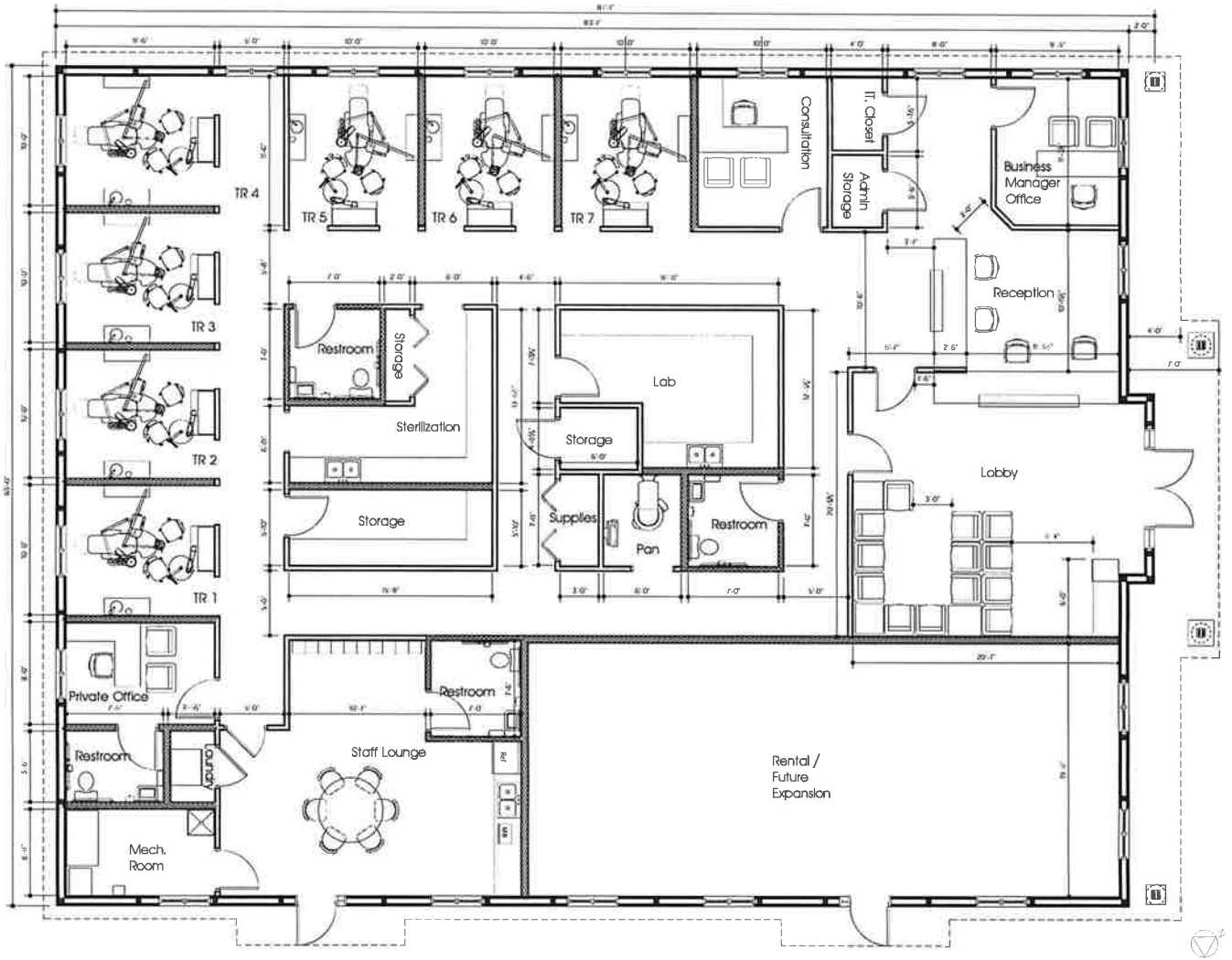
DATE: **12/22/2025**



A1.1 Aerial Photo



A1.2 Concept Site Plan



A1.3 Concept Floor Plan

Proposed New Dental Office For:

East Aurora Family Dentistry
359 Quaker Roak
Town of Aurora, New York

SUTTON architecture
"Design 2 Build"

2025 Residential Code of New York State (2025 RCNYS)
2024 IRC Amended
Effective Date: Dec 31, 2025
Version: Jul 2025

CONTENTS NOTES

Chapter 29 Water Supply and Distribution
Section P2901— General
Section P2902— Protection of Potable Water Supply
Section P2903— Water Supply System
Section P2904— Dwelling Unit Automatic Sprinkler Systems
Section P2905— Heated Water Distribution Systems
Section P2906— Materials, Joints and Connections
Section P2907— Changes in Direction
Section P2908— Support
Section P2909— Drinking Water Treatment Units
Section P2910— Nonpotable Water Systems
Section P2911— On-Site Nonpotable Water

SECTION P2903— WATER SUPPLY SYSTEM

P2903.1 Water supply system design criteria.

The water service and water distribution systems shall be designed and sized for peak demand using values shown in Table P2903.1.

TABLE P2903.1—REQUIRED CAPACITIES AT POINT OF OUTLET DISCHARGE

FIXTURE SUPPLY OUTLET SERVING	FLOW RATE (gpm)	FLOW PRESSURE (psi)
Bathtub, balanced-pressure, thermostatic or combination balanced-pressure/thermostatic mixing valve	4	20
Bidet, thermostatic mixing valve	2	20
Dishwasher	2.75	8
Laundry tray	4	8
Lavatory	0.8	8
Shower, balanced-pressure, thermostatic or combination balanced-pressure/thermostatic mixing valve	2.5[a]	20
Sillcock, hose bibb	5	8
Sink	1.75	8
Water closet, flushometer tank	1.6	20
Water closet, tank, close coupled	3	20
Water closet, tank, one-piece	6	20

For SI: 1 pound per square inch = 6.895 kPa, 1 gallon per minute = 3.785 L/m.

a. Where the shower mixing valve manufacturer indicates a lower flow rating for the mixing valve, the lower value shall be applied.

2025 Residential Code of New York State (2025 RCNYS)
2024 IRC Amended
Effective Date: Dec 31, 2025
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CONTENTS NOTES

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Section P2906— Materials, Joints and Connections
Section P2907— Changes in Direction
Section P2908— Support
Section P2909— Drinking Water Treatment Units
Section P2910— Nonpotable Water Systems
Section P2911— On-Site Nonpotable Water

P2903.7 Determining water supply fixture units.

Supply loads in the building water distribution system shall be determined by total load on the pipe being sized, in terms of water supply fixture units (w.s.f.u.), as shown in Table P2903.7, and gallon per minute (gpm) flow rates [see Table P2903.7(1)]. For fixtures not listed, choose a w.s.f.u. value of a fixture with similar flow characteristics.

TABLE P2903.7—WATER SUPPLY FIXTURE UNIT VALUES FOR VARIOUS PLUMBING FIXTURES AND FIXTURE GROUPS

TYPE OF FIXTURES OR GROUP OF FIXTURES	WATER-SUPPLY FIXTURE-UNIT VALUE (w.s.f.u.)		
	Hot	Cold	Combined
Bathtub (with/without overhead shower head)	1.0	1.0	1.4
Clothes washer	1.0	1.0	1.4
Dishwasher	1.4	—	1.4
Full-bath group with bathtub (with/without shower head) or shower stall	1.5	2.7	3.6
Half-bath group (water closet and lavatory)	0.5	2.5	2.6
Hose bibb (sillcock)[a]	—	2.5	2.5
Kitchen group (dishwasher and sink with or without food-waste disposer)	1.9	1.0	2.5
Kitchen sink	1.0	1.0	1.4
Laundry group (clothes washer standpipe and laundry tub)	1.8	1.8	2.5
Laundry tub	1.0	1.0	1.4
Lavatory	0.5	0.5	0.7
Shower stall	1.0	1.0	1.4
Water closet (tank type)	—	2.2	2.2

For SI: 1 gallon per minute = 3.785 L/m.

a. The fixture-unit value 2.5 assumes a flow demand of 2.5 gallons per minute, such as for an individual lawn sprinkler device. If a hose bibb or sill cock will be required to furnish a greater flow, the equivalent fixture-unit value may be obtained from this table or Table P2903.7(1).

2025 Residential Code of New York State (2025 RCNYS)
2024 IRC Amended
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CONTENTS NOTES

- Chapter 29 Water Supply and Distribution
  - Section P2901— General
  - Section P2902— Protection of Potable Water Supply
  - Section P2903— Water Supply System
  - Section P2904— Dwelling Unit Automatic Sprinkler Systems
  - Section P2905— Heated Water Distribution Systems
  - Section P2906— Materials, Joints and Connections
  - Section P2907— Changes in Direction
  - Section P2908— Support
  - Section P2909— Drinking Water Treatment Units
  - Section P2910— Nonpotable Water Systems
  - Section P2911— On-Site Nonpotable Water Reuse Systems
  - Section P2912— Nonpotable Rainwater Collection and Distribution Systems
  - Section P2913— Reclaimed Water Systems
- Chapter 30 Sanitary Drainage

TABLE P2903.7(1)—CONVERSIONS FROM WATER SUPPLY FIXTURE UNIT TO GALLON PER MINUTE FLOW RATES

SUPPLY SYSTEMS PREDOMINANTLY FOR FLUSH TANKS			SUPPLY SYSTEMS PREDOMINANTLY FOR FLUSHOMETER VALVES		
Load	Demand		Load	Demand	
(Water supply fixture units)	(Gallons per minute)	(Cubic feet per minute)	(Water supply fixture units)	(Gallons per minute)	(Cubic feet per minute)
1	3.0	0.04104	—	—	—
2	5.0	0.0684	—	—	—
3	6.5	0.86892	—	—	—
4	8.0	1.06944	—	—	—
5	9.4	1.256592	5	15.0	2.0052
6	10.7	1.430376	6	17.4	2.326032
7	11.8	1.577424	7	19.8	2.646364
8	12.8	1.711104	8	22.2	2.967696
9	13.7	1.831416	9	24.6	3.288528
10	14.6	1.951728	10	27.0	3.60936
11	15.4	2.058672	11	27.8	3.716304
12	16.0	2.13888	12	28.6	3.823248
13	16.5	2.20572	13	29.4	3.930192
14	17.0	2.27256	14	30.2	4.037136
15	17.5	2.3394	15	31.0	4.14408
16	18.0	2.90624	16	31.8	4.241024
17	18.4	2.459712	17	32.6	4.357968
18	18.8	2.513184	18	33.4	4.464912
19	19.2	2.566656	19	34.2	4.571856
20	19.6	2.620128	20	35.0	4.6788
25	21.5	2.87412	25	38.0	5.07984
30	23.3	3.114744	30	42.0	5.61356
35	24.9	3.328632	35	44.0	5.88192
40	26.3	3.515784	40	46.0	6.14928
45	27.7	3.702936	45	48.0	6.41664
50	29.1	3.890088	50	50.0	6.684

For SI: 1 gallon per minute = 3.785 L/m, 1 cubic foot per minute = 0.4719 L/s.

EXHIBITS

EXHIBIT 1

PROJECT SITE LOCATION MAP

Erie County On-Line Mapping Application





Legend

- Parcels

0 0.07 0.1 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
THIS MAP IS NOT TO BE USED FOR NAVIGATION

ERIE COUNTY
DEPARTMENT OF ENVIRONMENT & PLANNING
OFFICE OF GIS

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

1: 4,514

EXHIBIT 2

NYSDEC ENVIRONMENTAL RESOURCE MAPPER

An official website of New York State. Here's how you know

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Environmental Resource Mapper

Base Map: Satellite with Labels | Using this map

- Search
- Tools
- Layers and Legend
- **Wetland Layers**
  - All Layers
  - Previously Mapped Freshwater Wetlands (Outside of the Adirondack Park)
  - Informational Freshwater Wetland Mapping
  - National Wetlands Inventory
    - Estuarine and Marine Deepwater
    - Estuarine and Marine Wetland
- Reference Layers
- Tell Me More...
- Need A Permit?
- Contacts

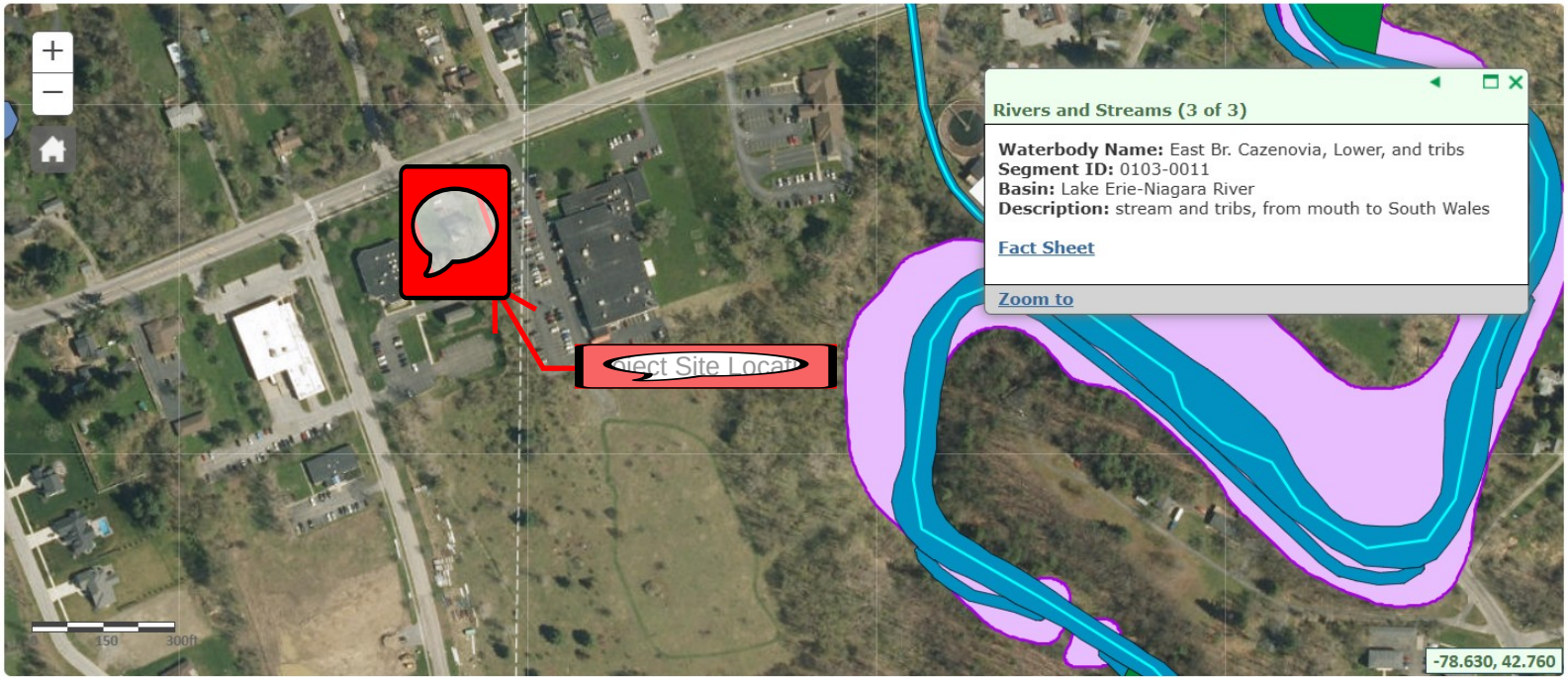
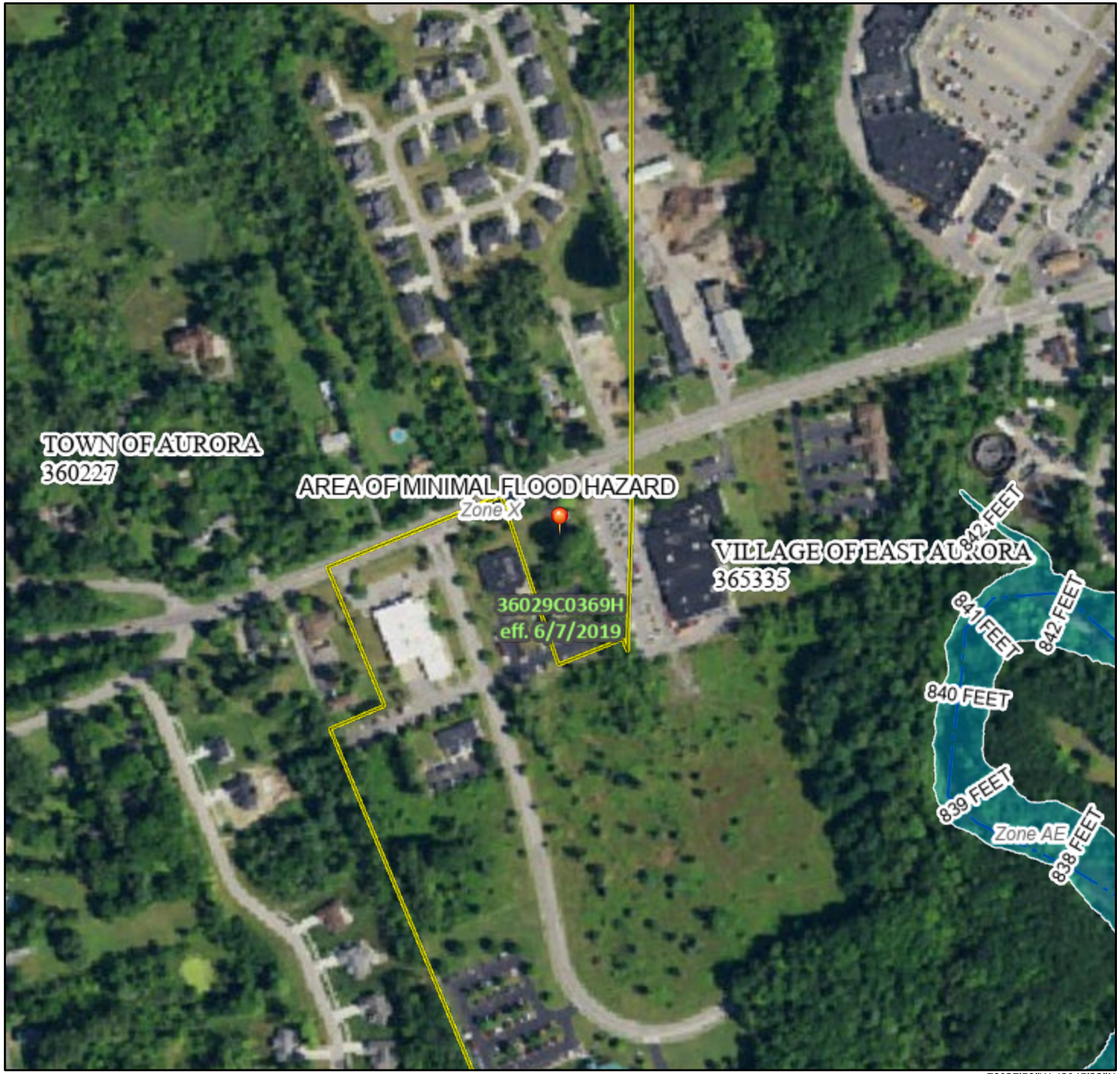


EXHIBIT 3

FEMA Firmette

National Flood Hazard Layer FIRMette

78°38'35"W 42°45'58"N



78°37'58"W 42°45'32"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/29/2025 at 2:24 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

EXHIBIT 4

SITE SOIL MAP


78° 38' 18" W
78° 38' 15" W
693240
693250
693260
693270
693280
693290
693300
42° 45' 46" N
42° 45' 43" N
4737180
4737170
4737160
4737150
4737140
4737130
4737120
4737110
4737100
4737090
4737080
20A
NfA
Cc
Soil Map may not be valid at this scale.
Map Scale: 1:480 if printed on A portrait (8.5" x 11") sheet.
N
Meters
0 5 10 20 30
Feet
0 20 40 80 120
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Lines

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Points

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 24, Aug 25, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 13, 2023—May 27, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Cc	Canandaigua silt loam	C/D	0.0	3.0%
NfA	Niagara silt loam, 0 to 3 percent slopes	C/D	0.7	97.0%
Totals for Area of Interest			**0.7**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

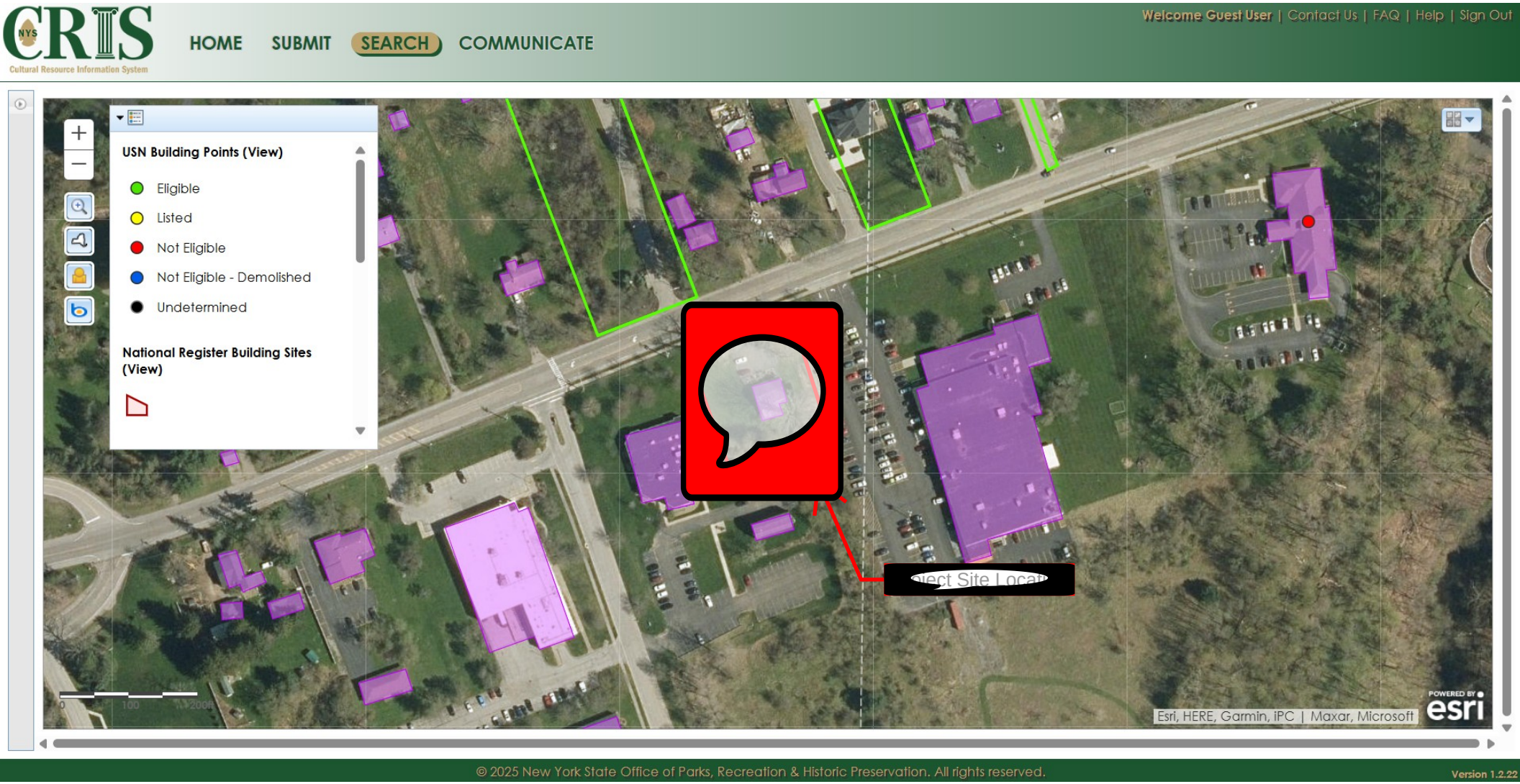
Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

EXHIBIT 5

CULTURAL RESOURCE INFORMATION SYSTEM (CRIS) MAP



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