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**Drainage Calculations
&
Stormwater Management Report**

Prepared for

Estero Holding Company, LLC

For Proposed

**15,349 sq. ft. Commercial Use Building
Located at Property known as
#529 Cottage Grove Road (CT Route #218)
Bloomfield, Connecticut**

Date: March 13, 2025

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1. PROJECT OVERVIEW

The descriptions and computations included within this Engineering Report and Appendix are provided in support of the development of a vacant parcel of land located at #529 Cottage Grove Road in Bloomfield. This parcel is located along the southerly side of Cottage Grove Road (Route #218), approximately 250' east of the intersection of Cottage Grove Road and Northwestern Drive. . The current permit applications are for the approval of a site plan/ special permit application from the Town of Bloomfield Planning & Zoning Commission and the approval of a wetlands application with the Town of Bloomfield Inland Wetlands & Watercourses Commission.

The overall project will consist of the development of a new 15,349 sq. ft. commercial use building. In addition to the new building, there is a new parking lot constructed along the west, north and east side of the building, along with a drive-thru constructed between the east side of the building and the easterly parking area. Access to the site will be through a new right in, right turn out access driveway entering at the northwest corner of the site. There is along a proposed access drive at the rear southwest corner of the site, that will cross property located at #12 Northwestern Drive. This driveway will provide access to the signal at Northwestern Drive and Cottage Grove Road, which is a full maneuver intersection.

The overall site consists of 4.4114 acres of Industrial-1 (IND-1) zoned land. The site is located along the southerly side of Cottage Grove Road with 373.77' of frontage along Cottage Grove Road. The property is presently vacant and is primarily covered with larger diameter deciduous and confers trees, with a light understory growth. Topography on the property runs from high points at the northwesterly corner of the site, at a gradual grade to low points along the wetlands at the southeasterly corner of the property. The highest point is at elevation 85.6 and the lowest point is along the western property line at approximately elevation 77+/- . The wetlands at the at the southeast corner of the site is a riparian zone along Beaman Brook, which is a southerly flowing watercourse that is just slightly south of this site.

We are proposing to connect to the existing sewer and water main in Northwestern Dive. All other utilities such as electric, telephone and cable television will be provided by the existing services adjacent to the project site and shall be located underground. More detailed design information regarding the proposed utilities can be obtained from the site plans.

The storm water management system for this site has been designed utilizing Best Management Practices (BMPs) and Low Impact Development (LID) methods to improve the storm water quality and to attenuate the peak flows to prevent increases in the pre-development runoff rates to the wetlands on the southerly side of this site. The overall storm water management system will use a stormwater swale to collect the impervious runoff from the front of the property and convey it to two new stormwater basins, along with several other water quality measures.

PROJECT OVERVIEW (CONTINUED)

The goal of the storm water management design is to provide removal of total suspended solids while attenuating the post development peak runoff rates. For more detailed information regarding storm water quantity, refer to Section 3 and Section 4 of this report. Refer to Section 5 for storm water quality management provided in the proposed design. Design computations and other relevant information are provided in the Appendix of this report.

2. EXISTING SITE CONDITIONS

The overall site consists of 4.4114 acres of Industrial-1 (IND-1) zoned land. The site is located along the southerly side of Cottage Grove Road with 373.77' of frontage along Cottage Grove Road. The property is presently vacant and is primarily covered with larger diameter deciduous and confers trees, with a light understory growth. Topography on the property runs from high points at the northwesterly corner of the site, at a gradual grade to low points along the wetlands at the southeasterly corner of the property. The highest point is at elevation 85.6 and the lowest point is along the western property line at approximately elevation 77+/- . The wetlands at the at the southeast corner of the site is a riparian zone along Beaman Brook, which is a southerly flowing watercourse that is just slightly south of this site. There is presently no form of stormwater management on the property. An existing culvert that crosses West Road with two 36" RCP pipes outlets along the frontage of this property which has over time formed an intermittent water course that flows to the existing wetlands area to the west of the property. The wetlands on this site and area of the proposed access driveway at #12 Northwestern Drive, were delineated by George T. Logan, MS, PWS, CSE of REMA Ecological Services, LLC and located by an accurate survey. A more detailed description of these wetlands are provide is a soils report provided by REMA Ecological Services, LLC.

The soils on the site have been mapped as a mixture of soil type 28 (Elmridge fine sandy loam), 107 (Fluvaquents-Udifluvents), and 306 (Udorthents-Urban land complex). Overall, the soils types on this site have been described as Hydrological Group.

In addition, this property rear (southern portion) of this property is located within 100-year floodplain boundaries as delineated on the current Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM). The 100 year flood elevation in this area is 84.0 (NAVD 1988). This map has been included in the Appendix A of this report.

This project site is located within the Beaman Brook watercourse sub-basin #4404-09, which is part of the North Branch Park River (Drainage Basin #4404) as shown on a map entitled "Natural Drainage Basins, Major, Regional, Sub-regional and Local Bloomfield , Connecticut, map created by CT DEEP dated January 2010" .

3. STORMWATER MANAGEMENT DESIGN

The proposed storm water management system has been designed utilizing BMPs design principles to safely convey storm water runoff from the site while providing storm water quality measures.

Stormwater management for the proposed project was achieved by collecting stormwater f through a series of catch basins located around the perimeter of the parking area and bio-retention swale along the south side of the rear access driveway. The catch basins and swale will be collected via a subsurface piping system and conveying it to one of the two stormwater infiltration basin proposed on this site, which has been designed to attenuate the proposed peak flow rates to prevent increases in the existing peak flow rates from this project. In addition, the collection system will incorporate several storm water quality measures designed to provide storm water treatment before discharging from the proposed project site. More information regarding water quantity (hydrology) can be found in Section 4. Stormwater quality management is discussed further in Section 5.

The computer program entitled “Stormwater Studio, ver. 3.0” by Hydrology Studio, was used for designing the proposed storm drainage. Storm drainage computations performed include pipe capacity calculations and hydraulic grade line calculations. The overall watershed was divided into sub-basins to determine the drainage area and land coverage to each individual catch basin inlet. These values were used to determine the storm water runoff to each inlet using the Rational Method. The rainfall intensities utilized in the storm drainage computations were obtained from the web-based NOAA’s National Weather Service Hydrometeorological Design Studies Center Precipitation Frequency Data Server, (PFDS) NOAA Atlas 14, Vol 10, Ver. 3, for #529 Cottage Grove Road, Bloomfield, CT.

The proposed storm drainage systems were designed according to sound engineering practices to provide adequate pipe capacity to convey the 25-year storm event. In addition, the storm drainage design analysis includes a complete hydraulic grade line computation, which ensures adequate capacity for the 25-year storm event. In addition, the outlet pipe from the proposed outlet control structure of the stormwater infiltration basin was sized with adequate capacity to convey the 100-year storm event. All storm drainage computations described in this section are provided in the Appendix of this report.

4. HYDROLOGY ANALYSIS

The storm water management system has been designed in part to attenuate the proposed peak rates of runoff from the project site. To analyze the predevelopment and post development peak flow rates from this site, the drainage area that flows from this site to Beaman Brook along the southerly side of this site was studied. The total area studied as part of this report is made up of approximately 5.04 acres. These subareas, shown on a watershed map for both pre and post conditions, are included in the appendix H of this report.

The principal method of predicting the surface water runoff rates utilized in this analysis is a computer program entitled "Hydrology Studio V. 3.0". The "Hydrology Studio" computer modeling program utilizes the same methods for computing runoff rates that were originally developed by the U.S. Department of Agriculture, Natural Resources Conservation Service (NRCS, formerly known as the Soil Conservation Service or SCS), also utilized in the TR-20 computer modeling program and others. The "Hydrology Studio" computer program forecasts the rate of surface water runoff and river flow rates based upon several factors. The input data includes information on land use, hydrologic soil type, and vegetation conditions, contributing watershed area, time of concentration, rainfall data, storage volumes, and the hydraulic capacity of structures. The computer model predicts the amount of runoff as a function of time, including the attenuation affect due to flow restriction at roadway culverts, ponds, large wetlands, and floodplains. Runoff rates during specific rainstorms may vary due to different assumptions concerning soil moisture, water levels in ponds, snowmelt, and rainfall patterns. The input data for rainfalls with statistical recurrence frequencies of 2, 5, 10, 25, 50, and 100 years were obtained from the NOAA's National Weather Service Hydrometeorological Design Studies Center Precipitation Frequency Data Server, (PFDS) NOAA Atlas 14, Vol 10, Ver. 3, for #529 Cottage Grove Road, Bloomfield. Analysis of a Type III rainfall pattern with 24-hour duration was used.

The land use for the site under pre and post conditions was determined from field survey, the proposed site development plans for the on-site drainage areas and Town of Bloomfield GIS mapping for the overall drainage subareas. Land use types used in the analysis included pavement, building roofs, grass, wooded and commercial properties. Soil types in the watershed were determined from the available GIS (Geographic Information System) database of the NRCS soil survey for Bloomfield, CT. The study area was determined to contain hydrologic soil type C as classified by the NRCS and as shown on attached mapping in Appendix A of this report.

The pre-development conditions were modeled with the Hydrographs computer program to determine the flow rates for the various storm events at the analysis point. A revised model was developed incorporating the post site conditions, and flows obtained with the revised model were then compared to the results of the existing conditions model. The stormwater infiltration basin and stormwater infiltration swale were incorporated into the proposed model, which illustrated the attenuation capabilities of this structure.

The NRCS Reservoir routing subroutine utilized within the Hydro Studio computer program was used to design the stormwater basin storage and outlet control requirements. All Hydrographs input computations and model results are included in the Appendix F (for pre-development conditions) and Appendix G (for post development conditions) of this report.

The analysis point, as shown on the existing and proposed conditions watershed maps, was used to determine the peak flow rates. This analysis point was chosen because it receives some storm water runoff from a portion of the project site in both pre and post conditions. Therefore, the pre and post hydrology analysis of this area provides a comparison of the peak flow rates that ultimately provided guidance when designing the storm water management system.

Stormwater management for the project was achieved by routing the storm water runoff from the developed subareas of the site through the proposed stormwater basins. The stormwater discharge rates were attenuated by using an outlet control structures for the outlet of each of the stormwater basins. This outlet will use a precast concrete structure with a either a “V” notch weir formed into the face of it. These outlet structures will also have an overflow grate above the top of the weir. The proposed basin has been designed to provide approximately two feet of freeboard during the 100-year storm event. The following is the Stormwater infiltration basin routing results and the peak flows to the design point:

Stormwater Pond Routing Information for Proposed Stormwater Quality Basin #1

Storm Frequency	1	2	5	10	25	50	100
Peak Inflow (c.f.s.)	2.358	3.176	4.519	5.614	7.130	8.223	9.435
Peak Outflow (c.f.s.)	0.118	0.228	0.628	1.179	2.202	3.087	4.138
Max. Water Surface El.	82.19	82.48	82.88	83.19	83.56	83.80	84.03
Max. Storage Vol. (cu.f.)	7,018	9,001	11,740	14,020	16,695	18,871	20,792

Stormwater Pond Routing Information for Proposed Infiltration Basin

Storm Frequency	1	2	5	10	25	50	100
Peak Inflow (c.f.s.)	1.651	2.244	3.224	4.025	5.134	5.934	6.821
Peak Outflow (c.f.s.)	0.801	0.617	1.983	3.242	4.410	5.144	5.954
Max. Water Surface El.	82.19	82.64	82.86	83.02	83.14	83.21	83.29
Max. Storage Vol. (cu.f.)	2,472	3,095	3,498	3,789	4,096	4,277	4,465

For more detailed information of these routings, see Appendix H “Hydroflow Hydrograph™ Computer Model Report-Post-Development” in this report. For more detail information of these routings, see Appendix H “Hydroflow Hydrograph™ Computer Model Report-Post-Development” in this report.

The table below shows a summary of the overall runoff conditions to the western property line pre- and post- development.

Peak Flows to Beaman Brook along the southerly side (Design Point “A”)

Storm Frequency	1	2	5	10	25	50	100
Predevelopment Conditions :	1.912	3.372	6.152	8.657	12.34	15.11	18.25
<u>Post development Conditions:</u>	<u>1.38</u>	<u>2.539</u>	<u>5.305</u>	<u>7.514</u>	<u>10.79</u>	<u>13.27</u>	<u>16.21</u>
<i>Comparison of Peak Flows (cfs):</i>	<i>-0.53</i>	<i>-0.83</i>	<i>-0.85</i>	<i>-1.14</i>	<i>-1.55</i>	<i>--1.84</i>	<i>-2.04</i>
<i>or (%) :</i>	<i>(-27.7%)</i>	<i>(-24.6%)</i>	<i>(-13.8%)</i>	<i>(-13.2%)</i>	<i>(-12.6%)</i>	<i>(-12.2%)</i>	<i>(-11.2%)</i>

The summary of results above shows that are no increases for a 1, 2, 5 ,10, 25, 50 & 100 year storm event. Rather a decrease in runoff can be expected across all storm events.

5. WATER QUALITY MANAGEMENT

Several water quality measures or BMPs are incorporated into the storm water management design to maintain water quality. All the best management control measures described in this section will help maintain the water quality of the storm water runoff from the proposed development.

Storm water runoff from the proposed site will be collected by a Stormwater Quality Basin and conveyed via a subsurface pipe and catch basin drainage system. The drainage system will include catch basins with two-foot sumps with hooded outlet, which trap coarse sediments. The two-foot sumps and hooded outlets utilized in the storm drainage design will increase the system's ability to remove suspended solids and trap floatable debris before discharging to the underground infiltration system.

The stormwater management system also incorporates the use of a stormwater basin in accordance with the Connecticut Department of Environmental Protection's (CT DEEP) Stormwater Quality Manual (SWQM), Chapter 13, Pages 275-281 (for Infiltration Basins). The stormwater infiltration basin was designed to treat 100% of the Water Quality Volume (WQV). This will enhance water quality by providing additional storage volume or detention volume within the basin creating a water quality feature. Although most of the volume provided in the pond is for flow attenuation purposes, the bottom portion of the pond has been shaped to provide retention volume. Providing this water quality measure serves several purposes including storm water renovation and first flush retention. A more detailed explanation of each of these measures follows.

The Stormwater Quality Manual (Chapter 7) also recommends methods for sizing storm water treatment measures with the Water Quality Volume (WQV) and computations. The WQV addresses the initial storm water runoff, also commonly referred to as the "first flush" runoff. The WQV provides adequate volume to store the initial one inch of runoff, which tends to contain the highest concentrations of potential pollutants. Supporting calculations for the volume provided, as well as WQV computations, have been included in the Appendix of this report.

There will be a sediment forebay constructed at the outlet of the drainage system into this Stormwater infiltration Basin. The sediment forebay will improve water quality by trapping floatables, as well as filtering coarse sediment and other pollutants. As per the recommendation of the DEEP SWQM, this forebay was designed to treat a minimum of 10% of the WQV. The forebay will be constructed using a riprap filter berm and a riprap splash pad. Riprap splash pads (Energy Dissipaters) dissipate the potential erosive velocity of storm water entering the basin, as well as trap sediment, while the riprap filter berm will contain the sediment within a small area in the basin allowing easy maintenance.

Erosion and Sediment Control Measures

A detailed Sediment and Erosion (S&E) Control Plan has been developed to mitigate the short-term impacts of the development during construction. The S&E Control Plan includes a detailed proposed construction sequence in addition to descriptive specifications concerning land grading, top soiling, temporary vegetative cover, permanent vegetative cover, and vegetative cover selection and mulching, and erosion checks. Details have been provided for all erosion control measures with corresponding labels on the S&E control site plan.

STORMWATER SYSTEM MAINTENANCE

The site will be maintained in a clean condition at all times by implementing good housekeeping measures. Trash and surface debris will be removed from parking areas and stormwater structures. The site will be regularly cleaned of trash and debris. Stormwater structures (i.e., catch basins, stormwater quality basin, bio retention swales, underground infiltration systems, and level spreader, etc.) and outfalls will be cleaned of sediment and debris at least once a year during the month in the spring (once snow melt is complete) and at other times as necessary to prevent the off-site discharge of pollutants from the structures or outfalls. Special attention will be directed to the stormwater management basin identified on the site engineering drawings.

Stormwater Management Structures	Checked for...
Catch Basin	Accumulated sediment & debris
Stormwater Infiltration Basin	Accumulated sediments, debris, evidence of erosion, etc.
Stormwater Bio-Retention Swale	Accumulated sediments, debris, evidence of erosion, etc.

A member of the maintenance crew will complete thorough, quarterly inspections and complete inspection checklists.

SWEEPING SCHEDULE

All parking areas, sidewalks, loading areas and driveways will be swept as needed, with automatic air sweeping and vacuuming equipment

Yard Maintenance

1. Mowing

- After irrigation, mowing is the most important maintenance operation. With good mowing practices, density, texture, color, root development, wear tolerance and other aspects of turf quality are enhanced, and a healthy turf minimizes the need for use of fertilizers and pesticides.
- When the turf is mowed too closely, it becomes less tolerant of environmental stresses, more disease prone, and more dependent upon a carefully implemented cultural program. The best approach then, is to use a high mowing height.
- Anytime that grass is in a weakened condition, the mowing height will be raised immediately.
- Growth rate and mowing height have the most influence on mowing frequency. As a rule of thumb, mowing should be done often enough that no more than 30 percent of the leaf is removed at any one mowing. This practice minimizes the effect of mowing on photosynthesis and helps maintain a high percentage of leaf surface, which is necessary for healthy root development.
- Varied mowing patterns on all surfaces encourage upright growth and reduce wheel or mower wear and compaction.
- Research has shown that returning grass clippings to the surface does not greatly increase thatch building up on turf that is otherwise properly managed. Clippings do have significant nutrient value and decompose rapidly thus returning some fertilizer and organic matter to the soil. They also help conserve moisture and insulate the soil

Appendices

Appendix A
FEMA FLOOD INSURANCE RATE MAP
AND
NRCS SOILS MAPPING

National Flood Hazard Layer FIRMette

72°43'43"W 41°49'13"N



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 LOMRMs
Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

Channel, Culvert, or Storm Sewer
Levee, Dike, or Floodwall

Cross Sections with 1% Annual Chance Water Surface Elevation

20.2
17.5
8

Coastal Transect
Base Flood Elevation Line (BFE)
Limit of Study
Jurisdiction Boundary
Coastal Transect Baseline
Profile Baseline
Hydrographic Feature

OTHER FEATURES

MAP PANELS

Digital Data Available
No Digital Data Available
Unmapped

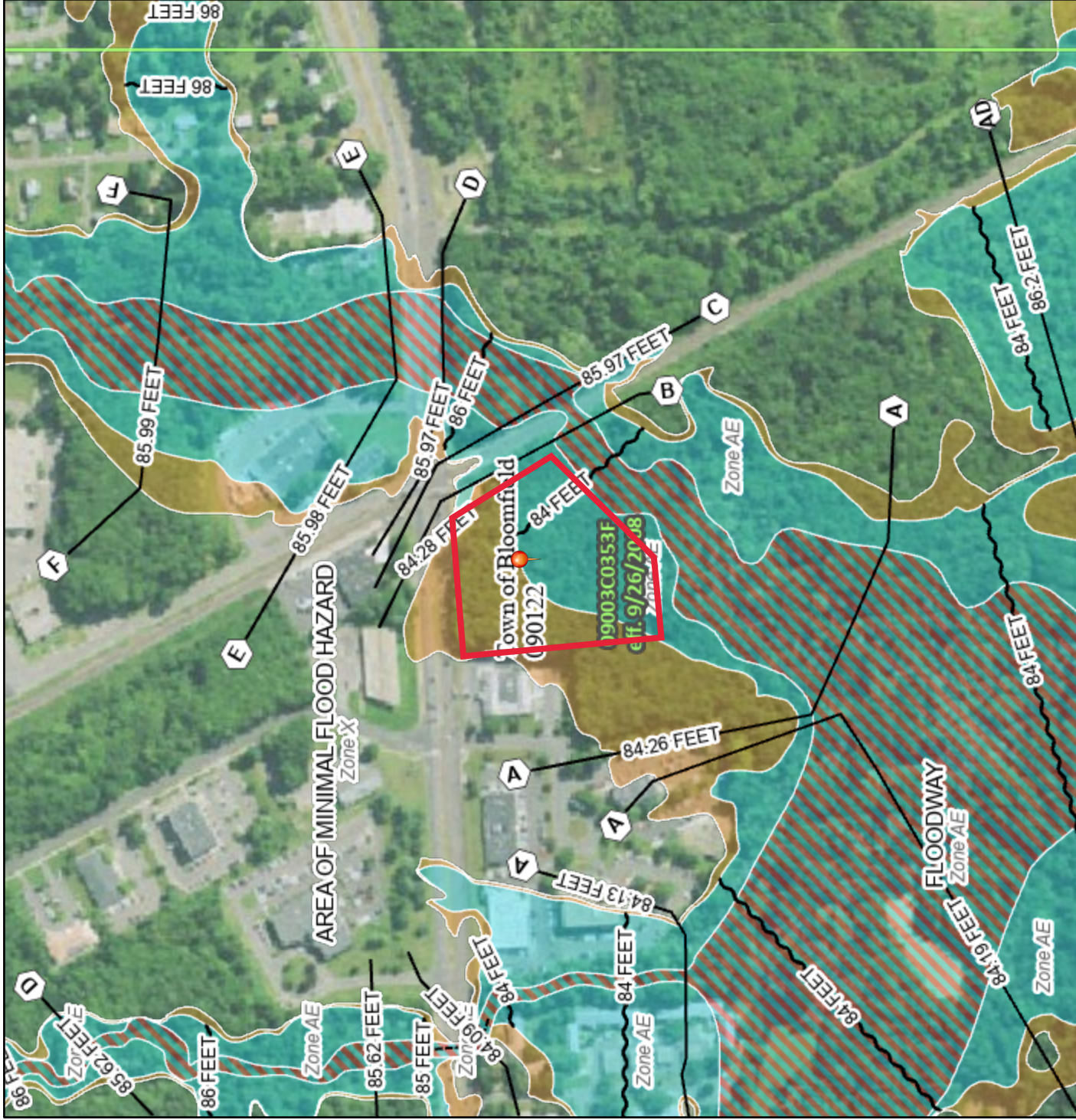


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 **3/13/2025 at 2:32 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.

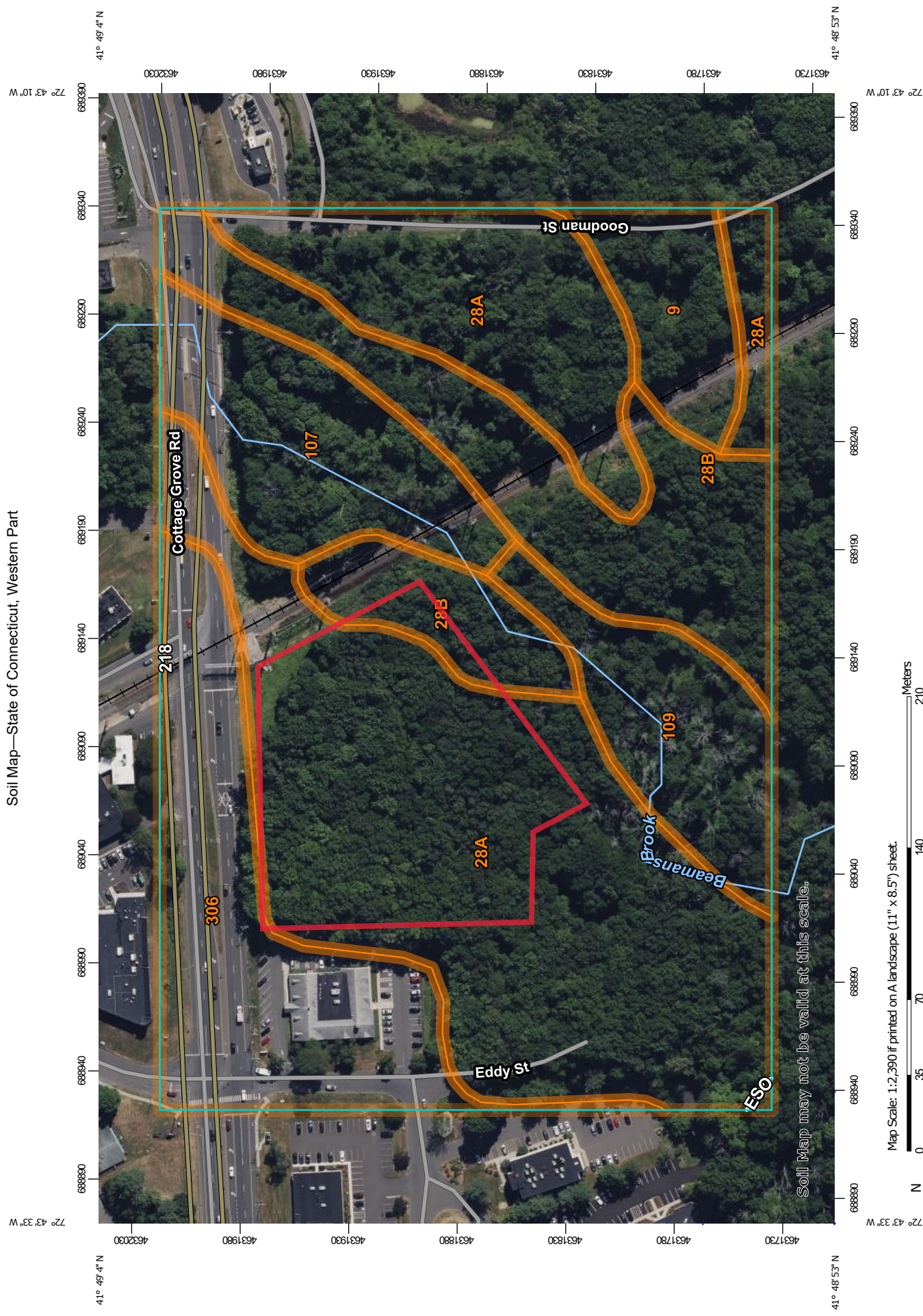


72°43'6"W 41°48'46"N

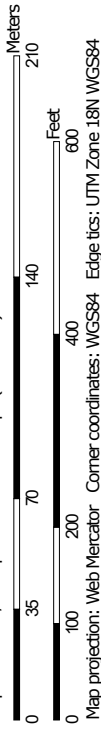
Feet 0 250 500 1,000 1,500 2,000 1:6,000

Basemap Imagery Source: USGS National Map 2023

Soil Map—State of Connecticut, Western Part



Map Scale: 1:2,390 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

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 1:12,000.

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: State of Connecticut, Western Part
Survey Area Data: Version 2, Aug 30, 2024

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

Date(s) aerial images were photographed: Jun 14, 2022—Oct 6, 2022

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
9	Scitico, Shaker, and Maybid soils, 0 to 3 percent slopes	1.4	4.7%
28A	Elmridge fine sandy loam, 0 to 3 percent slopes	13.4	45.9%
28B	Elmridge fine sandy loam, 3 to 8 percent slopes	5.0	17.3%
107	Limerick and Lim soils, 0 to 3 percent slopes, frequently flooded	2.8	9.6%
109	Fluvaquents-Udifulvents complex, frequently flooded	2.2	7.4%
306	Udorthents-Urban land complex	4.4	15.0%
Totals for Area of Interest		29.2	100.0%

Appendix B

STORM DRAINAGE SUBAREA DATA and COMPUTATIONS

PROPOSED ON-SITE DRAINAGE AREA DATA:

PROP SA A.1

TOTAL AREA = 0.3786 AC

PAVED = 0.2608 AC

LAWN / LANDSCAPED = 0.1178 AC

T.O.C. = 35' - SHEET FLOW AVG. GRASS @ 2.0%
 55' - SHALLOW CHANNEL @ 1.0%

PROP SA A.2

TOTAL AREA = 0.2825 AC

PAVED = 0.2278 AC

LAWN / LANDSCAPED = 0.0597 AC

T.O.C. = 35' - SHEET FLOW, AVG. GRASS @ 2.0%
 63' - SHALLOW CHANNEL, PAVED @ 1.0%

PROP. SA A.3

TOTAL AREA = 0.1987 AC

PAVED = 0.1651 AC

LAWN / LANDSCAPED = 0.0336 AC

T.O.C. = 24' - SHEET FLOW, AVG. GRASS @ 2.0% =
 95' - SHALLOW CHANNEL, PAVED @ 2.0%



HALLISEY, PEARSON & CASSIDY
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35 COLD SPRING ROAD, UNIT 511
ROCKY HILL, CT 06067
TELEPHONE (860) 529-6812

JOB # 3566 (529 Cottage Grove Road)

SHEET NO. 2 OF 5

CALCULATED BY J.P.C. DATE 03/06/25

CHECKED BY J.M.P. DATE 3/13/25

SCALE

PROPOSED ON-SITE DRAINAGE AREA DATA:

PROP. SA A.4

TOTAL AREA = 0.2083 AC

PAVED = 0.1896 AC

LAWN/LANDSCAPED = 0.0187 AC

T.O.C. ≤ 5 MIN.

PROP. SA A.5

TOTAL AREA = 0.2280 AC

PAVED = 0.2184 AC

LAWN/LANDSCAPED = 0.0096

T.O.C. ≤ 5 MIN.

PROP. SA A.6

TOTAL AREA = 0.0745 AC

PAVED = 0.0686 AC

LAWN/LANDSCAPED = 0.0059 AC

T.O.C. ≤ 5 MIN.



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JOB H 3566 (529 Cottage Grove Road)

SHEET NO. 3 OF 5

CALCULATED BY J.P.C. DATE 03/06/25

CHECKED BY J.M.P. DATE 3/13/25

SCALE

PROPOSED ON-SITE DRAINAGE AREA DATA:

PROP. SA - A.7

TOTAL AREA = 0.1367 AC

PAVED = 0.1246 AC

LAWN/LANDSCAPED =
= 0.0121 AC

T.O.C. $\leq$ 5 MINS

PROP SA - A.8

TOTAL AREA = 0.2268 AC

PAVED = 0.1930 AC

LAWN / LANDSCAPED
= 0.0438 AC

T.O.C. $\leq$ 44' - STREET FLOW, L, AVG GRASS @ 2.0%
25' - SHALLOW CHANNEL, PAVED @ 1.0%

PROP SA - A.9

TOTAL AREA = 0.0986 AC

PAVED = 0.0971 AC

LAWN / LANDSCAPED
= 0.0015 AC



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Engineering Associates, Inc.

35 COLD SPRING ROAD, UNIT 511
ROCKY HILL, CT 06067
TELEPHONE (860) 529-6812

JOB # 3566 (529 COTTAGE GROVE ROAD)

SHEET NO. 4 OF 5

CALCULATED BY J.P.C. DATE 03/05/25

CHECKED BY J.M.P. DATE 3/13/25

SCALE

PROPOSED ON-SITE DRAINAGE AREA DATA:

PRO. SA A.10

TOTAL AREA = 0.0963 AC

ALL LAWN

T.O.C. $\leq$ 5 min.

PRO. SA A.11

TOTAL AREA = 0.2772 AC

ALL LAWN.

T.O.C. $\leq$ 5 min.

PRO. SA A.12

TOTAL AREA = 0.3522 AC

ALL ROOF

T.O.C. $\leq$ 5 min.

PRO. SA A.13

TOTAL AREA = 0.1362 AC

ALL LAWN/LAND SCAPED

T.O.C. = 82' - SHEET PILE, AK GRASS @ 7.0%
200' - SHALLOW CHANNEL, UNPAVED

TOTAL AREA =

PRO. SA A.14

TOTAL AREA = 2.4660 AC

GRASS - C	= 0.1181 AC
WOODED - C	= 1.1278 AC
WOODED - D	= 0.8583 AC
RAILROAD ROW - C	= 0.3618 AC



HALLISEY, PEARSON & CASSIDY
Engineering Associates, Inc.

35 COLD SPRING ROAD, UNIT 511
ROCKY HILL, CT 06067
TELEPHONE (860) 529-6812

JOB # 3566 (529 - Cottage Grove Rd)

SHEET NO. 5 OF 5

CALCULATED BY J.P.C. DATE 03/05/25

CHECKED BY J.M.P. DATE 3/13/25

SCALE

PRE-DEVELOPMENT DRAINAGE DATA

EX. DATA

TOTAL ALCA = 5.0400 AC

Grass-C = 0.3215 AC

Wooded-C = 3.4924 AC

Wooded-D = 0.8583 AC

Rail Road Row-C = 0.3618 AC

T.O.C. = 100' - STREET FLOW, WOODED @ 1.0% =

378' - SHALLOW CHANNEL @ 0.6% =

258' - SHALLOW CHANNEL @ 1.99% =

100' - STREET (REMAINING)

TOTAL ALCA =

Appendix C
WATER QUALITY COMPUTATIONS

Proposed 15,349 sq.ft. Commercaill Building
 #529 Cottage Grove Road, Bloomfield , CT
 % Impervious Coverage and Storm Water Quality Volume
 (Dated March 07, 2025)

Subarea "A" - to SWQS #1							
SUBAREAS	TOTAL AREA	PAVED/ROOF AREA	% PAVED COV.	WOODED AREA	% WOODED COV.	LAWN AREA	% LANDSCAPE COV.
PRO-SA-A.4	0.2083	0.1896	91.0226	0.0000	0.0000	0.0187	8.9774
PRO-SA-A.5	0.2280	0.2184	95.7895	0.0000	0.0000	0.0096	4.2105
PRO-SA-A.6	0.0745	0.0686	92.0805	0.0000	0.0000	0.0059	7.9195
PRO-SA-A.7	0.1367	0.1246	91.1485	0.0000	0.0000	0.0121	8.8515
PRO-SA-A.8	0.2268	0.1830	80.6878	0.0000	0.0000	0.0438	19.3122
PRO-SA-A.9	0.0986	0.0971	98.4787	0.0000	0.0000	0.0015	1.5213
PRO-SA-A.11	0.2772	0.0000	0.0000	0.0000	0.0000	0.2772	100.0000
PRO-SA-A.12	0.3522	0.3522	100.0000	0.0000	0.0000	0.0000	0.0000
PRO-SA-A.13	0.1362	0.0000	0.0000	0.0000	0.0000	0.1362	100.0000
SUM OF SA-A (TO SWQS #1)	1.7385	1.2335	70.9520	0.0000	0.0000	0.5050	29.0480
WATER QUALITY VOLUME (WQV)							
WQV= 1.3" x R x A/12							
WQV= water quality volume (ac-ft)							
R= volumetric runoff coefficient = 0.05 + 0.009 (I)							
A= site area in acres	1.739						
WQV (REQUIRED)=	0.126	acre-feet					
WQV (PROVIDED)=	0.132	acre-feet	from eelv. 81.0 to 82.0				

Proposed 15,349 sq.ft. Commercial Building
 #529 Cottage Grove Road, Bloomfield , CT
 % Impervious Coverage and Storm Water Quality Volume

(Dated March 07, 2025)

Subarea "A" - to SWQS #2									
<u>SUBAREAS</u>	<u>TOTAL AREA</u>	<u>PAVED/ROOF AREA</u>	<u>% PAVED COV.</u>	<u>WOODED AREA</u>	<u>% WOODED C</u>	<u>LAWN AREA</u>	<u>% LANDSCAPE COV.</u>		
PRO-SA-A.1	0.3786	0.2608	68.8854	0.0000	0.0000	0.1178	31.1146		
PRO-SA-A.2	0.2825	0.2228	78.8673	0.0000	0.0000	0.0597	21.1327		
PRO-SA-A.3	0.1987	0.1651	83.0901	0.0000	0.0000	0.0336	16.9099		
PRO-SA-A.10	0.0963	0.0000	0.0000	0.0000	0.0000	0.0963	100.0000		
SUM OF SA-A (TO SWQS #2)	0.9561	0.6487	67.8486	0.0000	0.0000	0.3074	32.1514		
<u>WATER QUALITY VOLUME (WQV)</u>									
WQV= 1.3" x R x A/12									
WQV= water quality volume (ac-ft)									
R= volumetric runoff coefficient = 0.05 + 0.009 (I)									
I= percent impervious cover	67.849								
A= site area in acres	0.956								
WQV (REQUIRED)=	0.069	acre-feet							
WQV (PROVIDED)=	0.075	acre-feet	from eelv. 80.0 to 82.5						

Appendix D

Stormwater Studio, ver. 3.0™

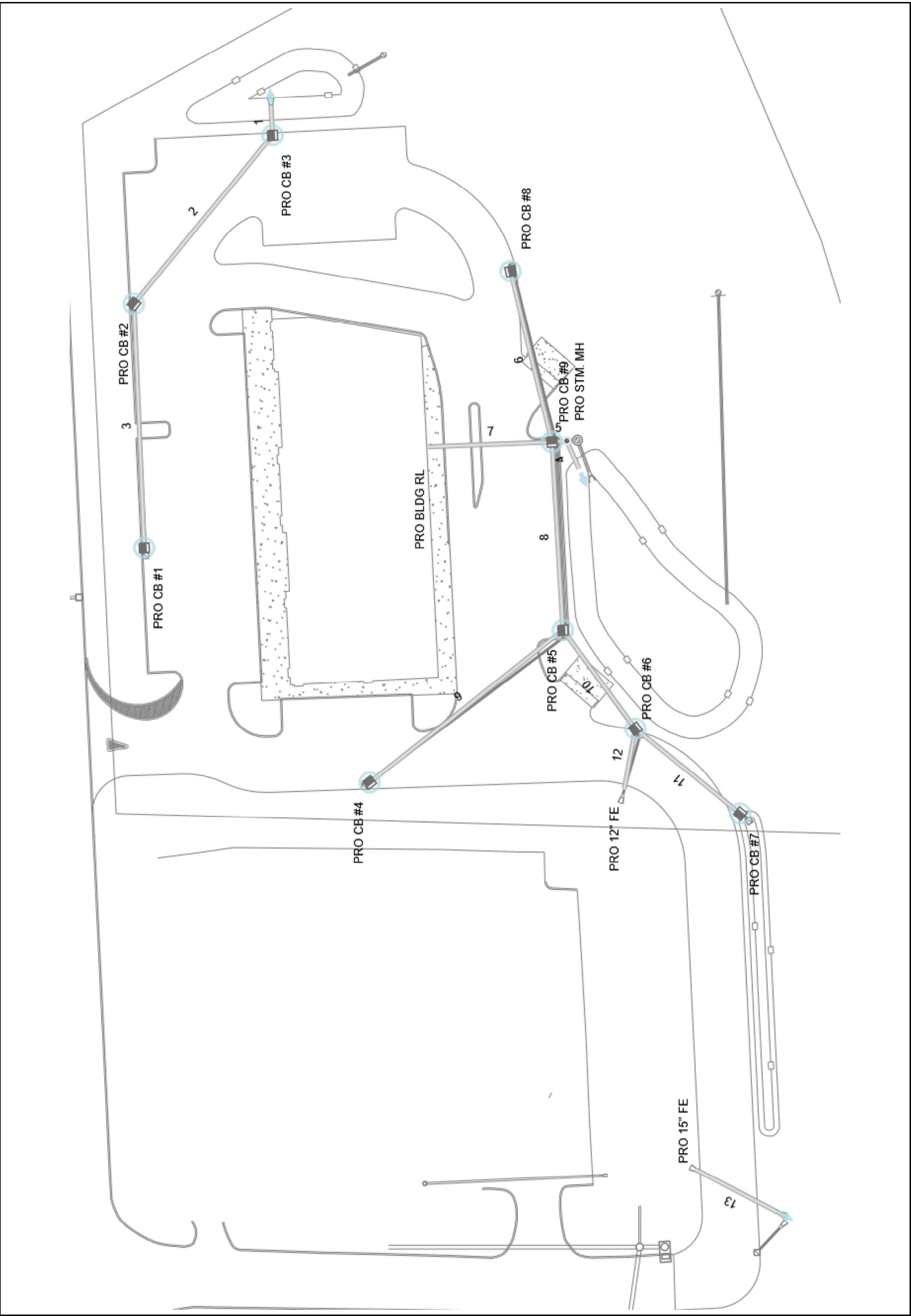
Computer Model Report for On-Site Drainage System

- **Stormwater Studio – Plan View**
- **Storm Sewer Tabulation Report**
- **Inlet Report**
- **Energy Grade Line Calculations**
- **CT DOT Report**

Plan View

Stormwater Studio 2025 v 3.0.0.37

Project Name: Enter Project Name...
03-13-2025



Storm Sewer Tabulation

Stormwater Studio 2025 v 3.0.0.37

Project Name: Enter Project Name...

03-12-2025

Line ID	Length (ft)	Drng Area		Rational (C)	C x A		Tc		Intensity (in/hr)	Total Q (cfs)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
PRO CB#3 to OUTLET	15.00	0.379	1.040	0.73	0.28	0.77	5.3	7.64	7.15	5.53	8.31	3.14	18	0.53	80.08	80.00	81.53	81.50	84.50	80.00	1
PROP CB #2 to PRO CB #3	118.00	0.283	0.661	0.78	0.22	0.50	6.7	7.19	7.39	3.67	4.95	3.21	15	0.50	80.92	80.33	81.94	81.66	84.50	84.50	2
PRO CB#1 to PRO CB #2	132.00	0.378	0.378	0.73	0.28	0.28	6.6	6.62	7.73	2.13	2.73	3.29	12	0.50	81.83	81.17	82.50	82.11	84.50	84.50	3
STM MH to OUTLET	16.00	0.000	1.463	0.00	0.00	1.20	0.0	19.06	4.35	5.20	17.33	1.67	24	0.50	81.08	81.00	83.01	83.00	85.20	81.00	4
PRO CB #9 to OUTLET	8.00	0.099	1.463	0.89	0.09	1.20	5.0	19.04	4.35	5.20	17.33	1.67	24	0.50	81.12	81.08	83.06	83.05	84.74	85.20	5
PRO CB #8 to PRO CB #9	95.00	0.227	0.227	0.79	0.18	0.18	7.6	7.62	7.16	1.28	2.74	1.64	12	0.51	82.10	81.62	83.19	83.09	84.45	84.74	6
BLDG RL to PRO CB #9	65.77	0.352	0.352	0.90	0.32	0.32	5.0	5.00	9.00	2.85	2.38	5.23	10	1.00	82.43	81.77	83.81	82.86	86.50	84.74	7
PRO CB#5 to OUTLET	102.00	0.228	0.785	0.88	0.20	0.61	5.0	18.62	4.41	2.69	8.04	1.52	18	0.50	81.63	81.12	83.13	83.09	84.76	84.74	8
PRO CB #4 to PRO CB #5	133.00	0.209	0.209	0.87	0.18	0.18	5.0	5.00	9.00	1.64	4.97	1.84	15	0.50	82.55	81.88	83.24	83.16	84.76	84.76	9
PRO CB #6 to PRO CB #5	66.00	0.075	0.348	0.86	0.06	0.23	5.0	18.27	4.45	1.02	4.95	0.91	15	0.50	82.21	81.88	83.18	83.17	85.46	84.76	10
PRO CB #7 to PRO CB #6	73.00	0.137	0.137	0.85	0.12	0.12	5.0	5.00	9.00	1.05	2.75	3.21	12	0.51	82.83	82.46	83.27	82.89	85.50	85.46	11
PRO 12" FE to PRO CB #6	32.00	0.136	0.136	0.35	0.05	0.05	18.2	18.16	4.47	0.21	8.46	1.15	12	4.81	84.00	82.46	84.20	83.20	84.00	85.46	12
PRO DRIVEWAY CULVERT	48.00	0.000	0.000	0.00	0.00	0.00	0.0	0.00	9.00	3.00	9.58	3.37	15	1.88	84.00	83.10	84.69	84.35	86.40	86.70	13

Notes: IDF File = NOAA Atlas 14 Volume 10 Version 3 - 529 Cottage Grove Road - Bloomfield.idf, Return Period = 25-ys.

Project File: 3566.sws

Line No. 1
PRO CB #3

Description	Segments			Tc (min)
	A	B	C	
Sheet Flow				
Description				
Manning's n	0.240	0.000	0.000	
Flow Length (ft)	24			
2-yr, 24-hr Precip. (in)	3.190	3.190	3.190	
Land Slope (%)	2			
Travel Time (min)	4.56	0.00	0.00	4.56
Shallow Concentrated Flow				
Flow Length (ft)	95			
Watercourse Slope (%)	1			
Surface Description	Paved	Paved	Paved	
Average Velocity (ft/s)	2.03			
Travel Time (min)	0.78	0.00	0.00	0.78
Channel Flow				
X-sectional Flow Area (sqft)				
Wetted Perimeter (ft)				
Channel Slope (%)				
Manning's n	0.000	0.000	0.000	
Velocity (ft/s)				
Flow Length (ft)				
Travel Time (min)	0.00	0.00	0.00	0.00
Total Travel Time				5.34 min

Line No. 2

PRO CB #2

Description	Segments			Tc (min)
	A	B	C	
Sheet Flow				
Description				
Manning's n	0.240	0.000	0.000	
Flow Length (ft)	35			
2-yr, 24-hr Precip. (in)	3.190	3.190	3.190	
Land Slope (%)	2			
Travel Time (min)	6.17	0.00	0.00	6.17
Shallow Concentrated Flow				
Flow Length (ft)	63			
Watercourse Slope (%)	1			
Surface Description	Paved	Paved	Paved	
Average Velocity (ft/s)	2.03			
Travel Time (min)	0.52	0.00	0.00	0.52
Channel Flow				
X-sectional Flow Area (sqft)				
Wetted Perimeter (ft)				
Channel Slope (%)				
Manning's n	0.000	0.000	0.000	
Velocity (ft/s)				
Flow Length (ft)				
Travel Time (min)	0.00	0.00	0.00	0.00
Total Travel Time				6.69 min

Line No. 3
PRO CB #1

Description	Segments			Tc (min)
	A	B	C	
Sheet Flow				
Description				
Manning's n	0.240	0.000	0.000	
Flow Length (ft)	35			
2-yr, 24-hr Precip. (in)	3.190	3.190	3.190	
Land Slope (%)	2			
Travel Time (min)	6.17	0.00	0.00	6.17
Shallow Concentrated Flow				
Flow Length (ft)	55			
Watercourse Slope (%)	1			
Surface Description	Paved	Paved	Paved	
Average Velocity (ft/s)	2.03			
Travel Time (min)	0.45	0.00	0.00	0.45
Channel Flow				
X-sectional Flow Area (sqft)				
Wetted Perimeter (ft)				
Channel Slope (%)				
Manning's n	0.000	0.000	0.000	
Velocity (ft/s)				
Flow Length (ft)				
Travel Time (min)	0.00	0.00	0.00	0.00
Total Travel Time				6.62 min

Line No. 6
PRO CB #8

Description	Segments			Tc (min)
	A	B	C	
Sheet Flow				
Description				
Manning's n	0.240	0.000	0.000	
Flow Length (ft)	44			
2-yr, 24-hr Precip. (in)	3.190	3.190	3.190	
Land Slope (%)	2			
Travel Time (min)	7.41	0.00	0.00	7.41
Shallow Concentrated Flow				
Flow Length (ft)	25			
Watercourse Slope (%)	1			
Surface Description				
Average Velocity (ft/s)	1.61			
Travel Time (min)	0.26	0.00	0.00	0.26
Channel Flow				
X-sectional Flow Area (sqft)				
Wetted Perimeter (ft)				
Channel Slope (%)				
Manning's n	0.000	0.000	0.000	
Velocity (ft/s)				
Flow Length (ft)				
Travel Time (min)	0.00	0.00	0.00	0.00
Total Travel Time				7.62 min

Line No. 12
PRO 12" FE

Description	Segments			Tc (min)
	A	B	C	
Sheet Flow				
Description	AVG GRASS			
Manning's n	0.240	0.000	0.000	
Flow Length (ft)	82			
2-yr, 24-hr Precip. (in)	3.190	3.190	3.190	
Land Slope (%)	1			
Travel Time (min)	16.09	0.00	0.00	16.09
Shallow Concentrated Flow				
Flow Length (ft)	200			
Watercourse Slope (%)	1			
Surface Description	Unpaved	Paved	Paved	
Average Velocity (ft/s)	1.61			
Travel Time (min)	2.07	0.00	0.00	2.07
Channel Flow				
X-sectional Flow Area (sqft)				
Wetted Perimeter (ft)				
Channel Slope (%)				
Manning's n	0.000	0.000	0.000	
Velocity (ft/s)				
Flow Length (ft)				
Travel Time (min)	0.00	0.00	0.00	0.00
Total Travel Time				18.16 min

Composite C Worksheet

Project Name: Enter Project Name...

Stormwater Studio 2025 v 3.0.0.37

03-12-2025

Line No	Description	Drainage Area (ac)	Runoff Coeff (C)	C x A	Composite (C)	Structure ID
1	LAWN/LANDSCAPED	0.118	0.35	0.041		PRO CB #3
	PAVED	0.261	0.90	0.235		
	Totals	0.379		0.276	0.73	
2	LAWN/LANDSCAPED	0.060	0.35	0.021		PRO CB #2
	PAVED	0.223	0.90	0.201		
	Totals	0.283		0.222	0.78	
3	LAWN/LANDSCAPED	0.118	0.35	0.041		PRO CB #1
	PAVED	0.260	0.90	0.234		
	Totals	0.378		0.275	0.73	
5	LAWN/LANDSCAPE	0.002	0.35	0.001		PRO CB #9
	PAVED	0.097	0.90	0.087		
	Totals	0.099		0.088	0.89	
6	LAWN/LANDSCAPED	0.044	0.35	0.015		PRO CB #8
	PAVED	0.183	0.90	0.165		
	Totals	0.227		0.180	0.79	
7	ROOF	0.352	0.90	0.317		PRO BLDG RL
	Totals	0.352		0.317	0.90	
8	LAWN/LANDSCAPE	0.010	0.35	0.004		PRO CB #5
	PAVED	0.218	0.90	0.196		
	Totals	0.228		0.200	0.88	
9	LAWN/LANDSCAPED	0.019	0.35	0.007		PRO CB #4
	PAVED	0.190	0.92	0.175		
	Totals	0.209		0.181	0.87	

Composite C Worksheet

Project Name: Enter Project Name...

Stormwater Studio 2025 v 3.0.0.37

03-12-2025

Line No	Description	Drainage Area (ac)	Runoff Coeff (C)	C x A	Composite (C)	Structure ID
10	LAWN/LANDSCAPED	0.006	0.35	0.002		PRO CB #6
	PAVED	0.069	0.90	0.062		
	Totals	0.075		0.064	0.86	
11	LAWN/LANDSCAPE	0.012	0.35	0.004		PRO CB #7
	PAVED	0.125	0.90	0.113		
	Totals	0.137		0.117	0.85	
12	LAWN/LANDSCAPED	0.136	0.35	0.048		PRO 12" FE
	Totals	0.136		0.048	0.35	

Project File: 3566.sws

CT DOT Report

Stormwater Studio 2025 v 3.0.0.37

Project Name: Enter Project Name...

03-12-2025

Line No.	Drain Area (ac)	Total Area (ac)	Runoff Coeff (C)	Incr CxA	Total C x A	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Inlet (in/hr)	Line Size (in)	Flow Rate (cfs)	Capac. Full (cfs)	Vel Ave (ft/s)	Invert Up (ft)	Invert Dn (ft)	Line Slope (%)	Line Length (ft)	Line ID
1	0.379	1.040	0.73	0.28	0.77	5.3	0.05	7.6	8.68	18	5.53	8.31	3.14	80.08	80.00	0.53	15.00	PRO CB#3 to OUTLET
2	0.283	0.661	0.78	0.22	0.50	6.7	0.45	7.2	7.68	15	3.67	4.95	3.21	80.92	80.33	0.50	118.00	PROP CB #2 to PRO CB 33
3	0.378	0.378	0.73	0.28	0.28	6.6	0.57	6.6	7.73	12	2.13	2.73	3.29	81.83	81.17	0.50	132.00	PRO CB#1 to PRO CB #2
4	0.000	1.463	0.00	0.00	1.20	0.0	0.06	19.1	0.00	24	5.20	17.33	1.67	81.08	81.00	0.50	16.00	STM MH to OUTLET
5	0.099	1.463	0.89	0.09	1.20	5.0	0.03	19.0	9.00	24	5.20	17.33	1.67	81.12	81.08	0.50	8.00	PRO CB #9 to OUTLET
6	0.227	0.227	0.79	0.18	0.18	7.6	0.46	7.6	7.16	12	1.28	2.74	1.64	82.10	81.62	0.51	95.00	PRO CB #8 to PRO CB #9
7	0.352	0.352	0.90	0.32	0.32	5.0	0.21	5.0	9.00	10	2.85	2.38	5.23	82.43	81.77	1.00	65.77	BLDG RL to PRO CB #9
8	0.228	0.785	0.88	0.20	0.61	5.0	0.42	18.6	9.00	18	2.69	8.04	1.52	81.63	81.12	0.50	102.00	PRO CB#5 to OUTLET
9	0.209	0.209	0.87	0.18	0.18	5.0	0.61	5.0	9.00	15	1.64	4.97	1.84	82.55	81.88	0.50	133.00	PRO CB #4 to PRO CB #5
10	0.075	0.348	0.86	0.06	0.23	5.0	0.35	18.3	9.00	15	1.02	4.95	0.91	82.21	81.88	0.50	66.00	PRO CB #6 to PRO CB #5
11	0.137	0.137	0.85	0.12	0.12	5.0	0.37	5.0	9.00	12	1.05	2.75	3.21	82.83	82.46	0.51	73.00	PRO CB #7 to PRO CB #6
12	0.136	0.136	0.35	0.05	0.05	18.2	0.12	18.2	4.47	12	0.21	8.46	1.15	84.00	82.46	4.81	32.00	PRO 12" FE to PRO CB #6
13	0.000	0.000	0.00	0.00	0.00	0.0	0.12	0.0	0.00	15	3.00	9.58	3.37	84.00	83.10	1.88	48.00	PRO DRIVEWAY CULVERT

Notes: IDF File = NOAA Atlas 14 Volume 10 Version 3 - 529 Cottage Grove Road - Bloomfield.idf, Return Period = 25-yrs.

Project File: 3566.sws

Energy Grade Line Calculations

Stormwater Studio 2025 v 3.0.0.37

Project Name: Enter Project Name...

03-12-2025

Line No	Line Size (in)	Q (cfs)	Downstream							Length (ft)	Upstream							Pipe		Junction		
			Invert Elev (ft)	Depth (ft)	Area (sqft)	HGL Elev (ft)	Vel (ft/s)	Vel Head (ft)	EGL Elev (ft)		Invert Elev (ft)	Depth (ft)	Area (sqft)	HGL Elev (ft)	Vel (ft/s)	Vel Head (ft)	EGL Elev (ft)	n Value	Energy Loss (ft)	HGLa Elev (ft)	EGLa Elev (ft)	Energy Loss (ft)
1	18	5.53	80.00	1.50	1.77	81.50	3.13	0.15	81.65	15.00	80.08	1.45	1.75	81.53	3.16	0.16	81.69	0.012	0.033	81.59	81.74	0.06
2	15	3.67	80.33	1.25	1.23	81.66	2.99	0.14	81.80	118.00	80.92	1.02	1.07	81.94	3.42	0.18	82.12	0.012	0.325	82.01	82.19	0.07
3	12	2.13	81.17	0.94	0.77	82.11	2.78	0.12	82.23	132.00	81.83	0.67	0.56	82.50	3.80	0.22	82.73	0.012	0.493	82.72	82.94	0.22
4	24	5.20	81.00	2.00	3.14	83.00	1.66	0.04	83.04	16.00	81.08	1.93	3.10	83.01	1.68	0.04	83.05	0.012	0.006	83.04	83.08	0.03
5	24	5.20	81.08	1.97	3.13	83.05	1.66	0.04	83.10	8.00	81.12	1.94	3.11	83.06	1.67	0.04	83.10	0.012	0.003	83.07	83.11	0.01
6	12	1.28	81.62	1.00	0.79	83.09	1.64	0.04	83.13	95.00	82.10	1.00	0.79	83.19	1.64	0.04	83.24	0.012	0.105	83.21	83.25	0.02
7	10	2.85	81.77	0.83 ³	0.55	82.86	5.23	0.43	83.28	65.77	82.43	0.83	0.55	83.81	5.23	0.42	84.23	0.012	0.950	83.81	84.23	0.00
8	18	2.69	81.12	1.50	1.77	83.09	1.52	0.04	83.13	102.00	81.63	1.50	1.77	83.13	1.52	0.04	83.17	0.012	0.038	83.14	83.18	0.01
9	15	1.64	81.88	1.25	1.23	83.16	1.33	0.03	83.19	133.00	82.55	0.69	0.70	83.24	2.35	0.09	83.33	0.012	0.139	83.28	83.36	0.04
10	15	1.02	81.88	1.25	1.23	83.17	0.83	0.01	83.18	66.00	82.21	0.97	1.02	83.18	0.99	0.02	83.20	0.012	0.014	83.19	83.20	0.01
11	12	1.05	82.46	0.43 [†]	0.32	82.89	3.27	0.17	83.22	73.00	82.83	0.44	0.33	83.27	3.16	0.15	83.42	0.012	0.205	83.36	83.52	0.09
12	12	0.21	82.46	0.74	0.63	83.20	0.34	0.00	83.21	32.00	84.00	0.20 ²	0.11	84.20	1.96	0.06	84.26	0.012	1.050	84.20	84.26	0.00
13	15	3.00	83.10	1.25	1.23	84.35	2.45	0.09	84.44	48.00	84.00	0.69 ²	0.70	84.69	4.29	0.29	84.98	0.012	0.537	84.69	84.98	0.00

Notes: Return Period = 25-yrs. ² Critical depth. ³ Normal depth. † Supercritical.

Project File: 3566.sws

Appendix E

Hydrology Studio TM

Computer Model Report – Pre-Development

Table of Contents

Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

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Hydrograph by Return Period

Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Outflow (cfs)							
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
1	NRCS Runoff	Pre SA-A	1.912	3.372		6.152	8.657	12.34	15.11	18.25

PRE2

Hydrograph 1-yr Summary

Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	NRCS Runoff	Pre SA-A	1.912	12.38	10,968	----		

Hydrograph Report

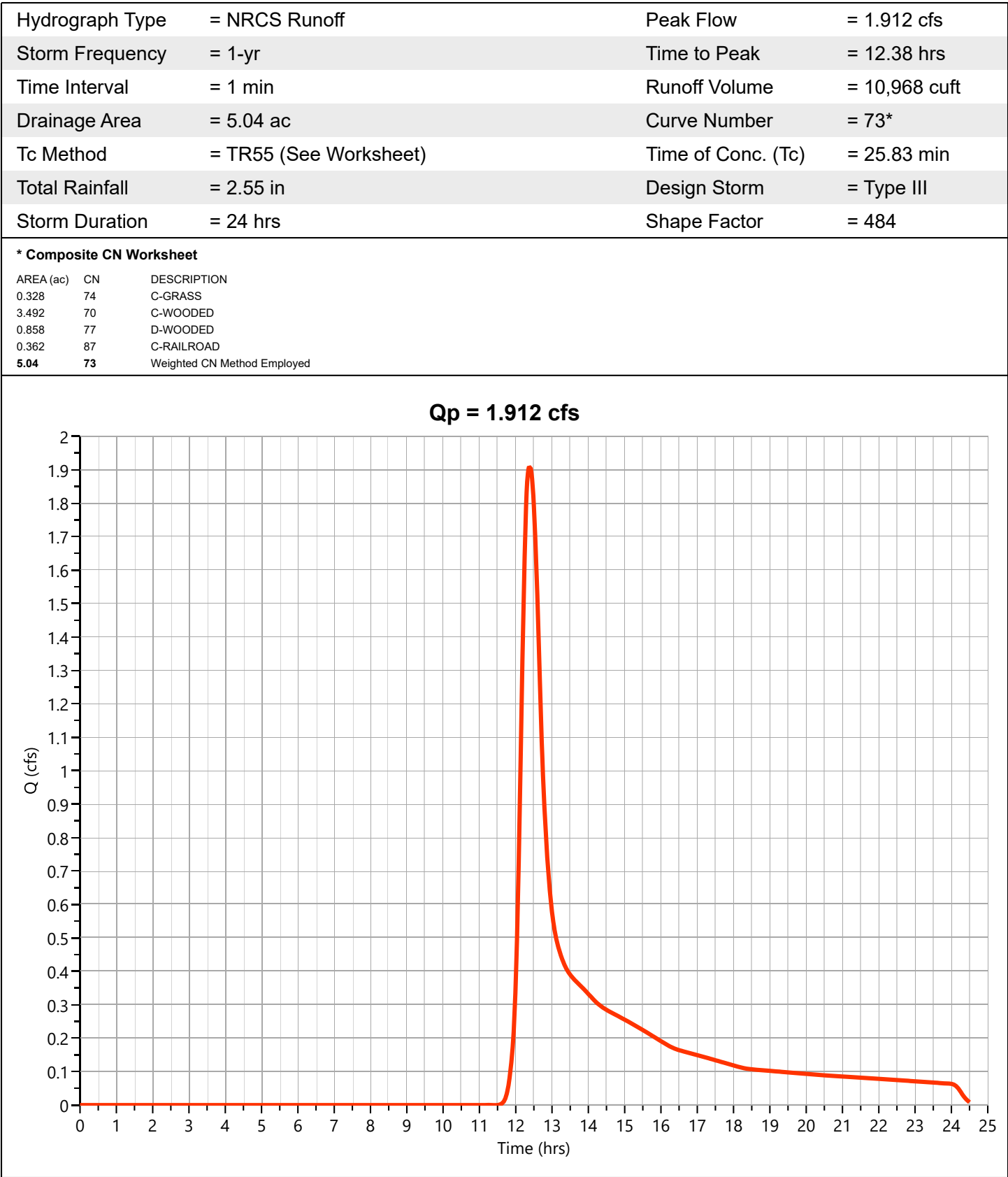
Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

Pre SA-A

Hyd. No. 1



Hydrograph Discharge Table

SA-A

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
12.02	0.426	12.62	1.447	13.22	0.456				
12.03	0.495	12.63	1.386	13.23	0.451				
12.05	0.572	12.65	1.325	13.25	0.445				
12.07	0.655	12.67	1.262	13.27	0.440				
12.08	0.743	12.68	1.201	13.28	0.435				
12.10	0.833	12.70	1.142	13.30	0.431				
12.12	0.927	12.72	1.087	13.32	0.426				
12.13	1.022	12.73	1.035	13.33	0.422				
12.15	1.119	12.75	0.988	13.35	0.418				
12.17	1.217	12.77	0.945	13.37	0.414				
12.18	1.314	12.78	0.906	13.38	0.410				
12.20	1.411	12.80	0.869	13.40	0.407				
12.22	1.503	12.82	0.835	13.42	0.404				
12.23	1.590	12.83	0.803	13.43	0.401				
12.25	1.668	12.85	0.773	13.45	0.398				
12.27	1.736	12.87	0.744	13.47	0.395				
12.28	1.790	12.88	0.718	13.48	0.392				
12.30	1.833	12.90	0.693	13.50	0.390				
12.32	1.865	12.92	0.670	13.52	0.387				
12.33	1.887	12.93	0.648	13.53	0.385				
12.35	1.901	12.95	0.628	13.55	0.383				
12.37	1.909	12.97	0.610	13.57	0.381				
12.38	1.912	12.98	0.592	...end	...end				
12.40	1.910	13.00	0.577						
12.42	1.903	13.02	0.562						
12.43	1.891	13.03	0.549						
12.45	1.873	13.05	0.536						
12.47	1.850	13.07	0.525						
12.48	1.823	13.08	0.515						
12.50	1.790	13.10	0.505						
12.52	1.753	13.12	0.497						
12.53	1.711	13.13	0.489						
12.55	1.665	13.15	0.481						
12.57	1.615	13.17	0.475						
12.58	1.562	13.18	0.468						
12.60	1.506	13.20	0.462						

Tc by TR55 Worksheet

Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

SA-A NRCS Runoff

Hyd. No. 1

Description	Segments			Tc (min)
	A	B	C	
Sheet Flow				
Description	WOODED			
Manning's n	0.240	0.013	0.013	
Flow Length (ft)	100			
2-yr, 24-hr Precip. (in)	3.19	3.19	3.19	
Land Slope (%)	1			
Travel Time (min)	18.86	0.00	0.00	18.86
Shallow Concentrated Flow				
Flow Length (ft)	378	258		
Watercourse Slope (%)	0.60	1.90	0.00	
Surface Description	Unpaved	Unpaved	Paved	
Average Velocity (ft/s)	1.25	2.22		
Travel Time (min)	5.04	1.93	0.00	6.97
Channel Flow				
X-sectional Flow Area (sqft)				
Wetted Perimeter (ft)				
Channel Slope (%)				
Manning's n	0.013	0.013	0.013	
Velocity (ft/s)				
Flow Length (ft)				
Travel Time (min)	0.00	0.00	0.00	0.00
Total Travel Time				25.83 min

Hydrograph 2-yr Summary

Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	NRCS Runoff	Pre SA-A	3.372	12.35	18,003	----		

Hydrograph Report

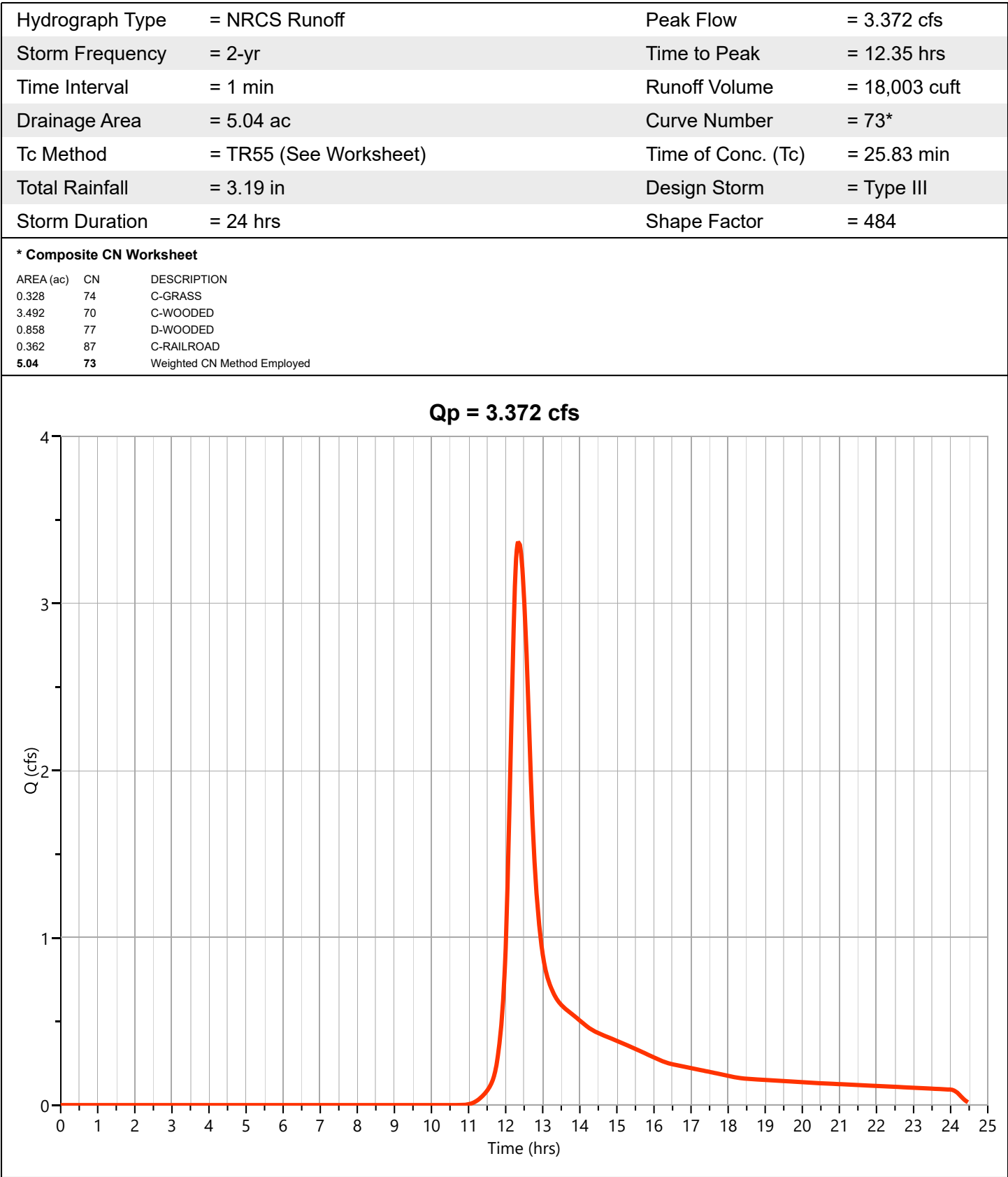
Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

Pre SA-A

Hyd. No. 1



Hydrograph Discharge Table

SA-A

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.95	0.690	12.55	2.774	13.15	0.747				
11.97	0.761	12.57	2.679	13.17	0.736				
11.98	0.844	12.58	2.580	13.18	0.726				
12.00	0.940	12.60	2.477	13.20	0.716				
12.02	1.052	12.62	2.370	13.22	0.707				
12.03	1.176	12.63	2.261	13.23	0.698				
12.05	1.312	12.65	2.152	13.25	0.689				
12.07	1.456	12.67	2.043	13.27	0.680				
12.08	1.607	12.68	1.937	13.28	0.673				
12.10	1.762	12.70	1.836	...end	...end				
12.12	1.920	12.72	1.741						
12.13	2.078	12.73	1.654						
12.15	2.238	12.75	1.575						
12.17	2.398	12.77	1.504						
12.18	2.556	12.78	1.438						
12.20	2.709	12.80	1.378						
12.22	2.854	12.82	1.322						
12.23	2.986	12.83	1.269						
12.25	3.102	12.85	1.219						
12.27	3.197	12.87	1.173						
12.28	3.269	12.88	1.129						
12.30	3.320	12.90	1.089						
12.32	3.353	12.92	1.051						
12.33	3.369	12.93	1.016						
12.35	3.372	12.95	0.984						
12.37	3.366	12.97	0.954						
12.38	3.351	12.98	0.926						
12.40	3.328	13.00	0.900						
12.42	3.296	13.02	0.877						
12.43	3.257	13.03	0.855						
12.45	3.210	13.05	0.836						
12.47	3.155	13.07	0.817						
12.48	3.093	13.08	0.801						
12.50	3.023	13.10	0.786						
12.52	2.946	13.12	0.772						
12.53	2.863	13.13	0.759						

Hydrograph 5-yr Summary

Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	NRCS Runoff	Pre SA-A	6.152	12.32	31,380	----		

Hydrograph Report

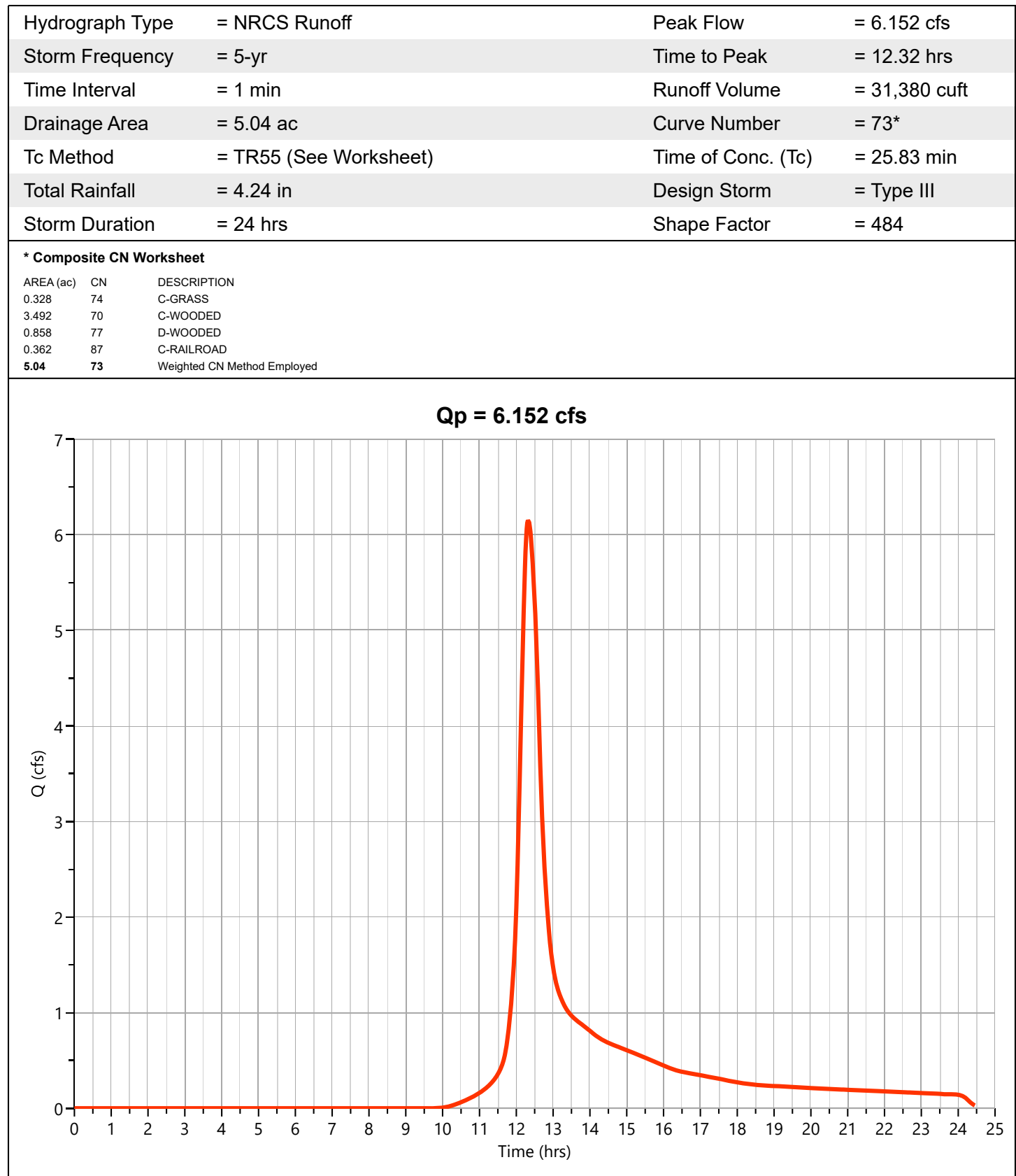
Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

Pre SA-A

Hyd. No. 1



Hydrograph Discharge Table

SA-A

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.90	1.300	12.50	5.292	13.10	1.282				
11.92	1.397	12.52	5.138	13.12	1.259				
11.93	1.503	12.53	4.975	13.13	1.237				
11.95	1.623	12.55	4.803	13.15	1.217				
11.97	1.759	12.57	4.624	...end	...end				
11.98	1.916	12.58	4.437						
12.00	2.098	12.60	4.245						
12.02	2.304	12.62	4.048						
12.03	2.532	12.63	3.849						
12.05	2.777	12.65	3.650						
12.07	3.037	12.67	3.454						
12.08	3.305	12.68	3.264						
12.10	3.578	12.70	3.085						
12.12	3.853	12.72	2.918						
12.13	4.128	12.73	2.767						
12.15	4.402	12.75	2.629						
12.17	4.675	12.77	2.505						
12.18	4.941	12.78	2.392						
12.20	5.196	12.80	2.288						
12.22	5.432	12.82	2.192						
12.23	5.645	12.83	2.101						
12.25	5.825	12.85	2.017						
12.27	5.965	12.87	1.937						
12.28	6.064	12.88	1.863						
12.30	6.125	12.90	1.794						
12.32	6.152	12.92	1.730						
12.33	6.152	12.93	1.671						
12.35	6.128	12.95	1.616						
12.37	6.088	12.97	1.565						
12.38	6.034	12.98	1.519						
12.40	5.966	13.00	1.476						
12.42	5.885	13.02	1.436						
12.43	5.791	13.03	1.400						
12.45	5.684	13.05	1.366						
12.47	5.565	13.07	1.336						
12.48	5.434	13.08	1.308						

Hydrograph 10-yr Summary

Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	NRCS Runoff	Pre SA-A	8.657	12.32	43,498	----		

Hydrograph Report

Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

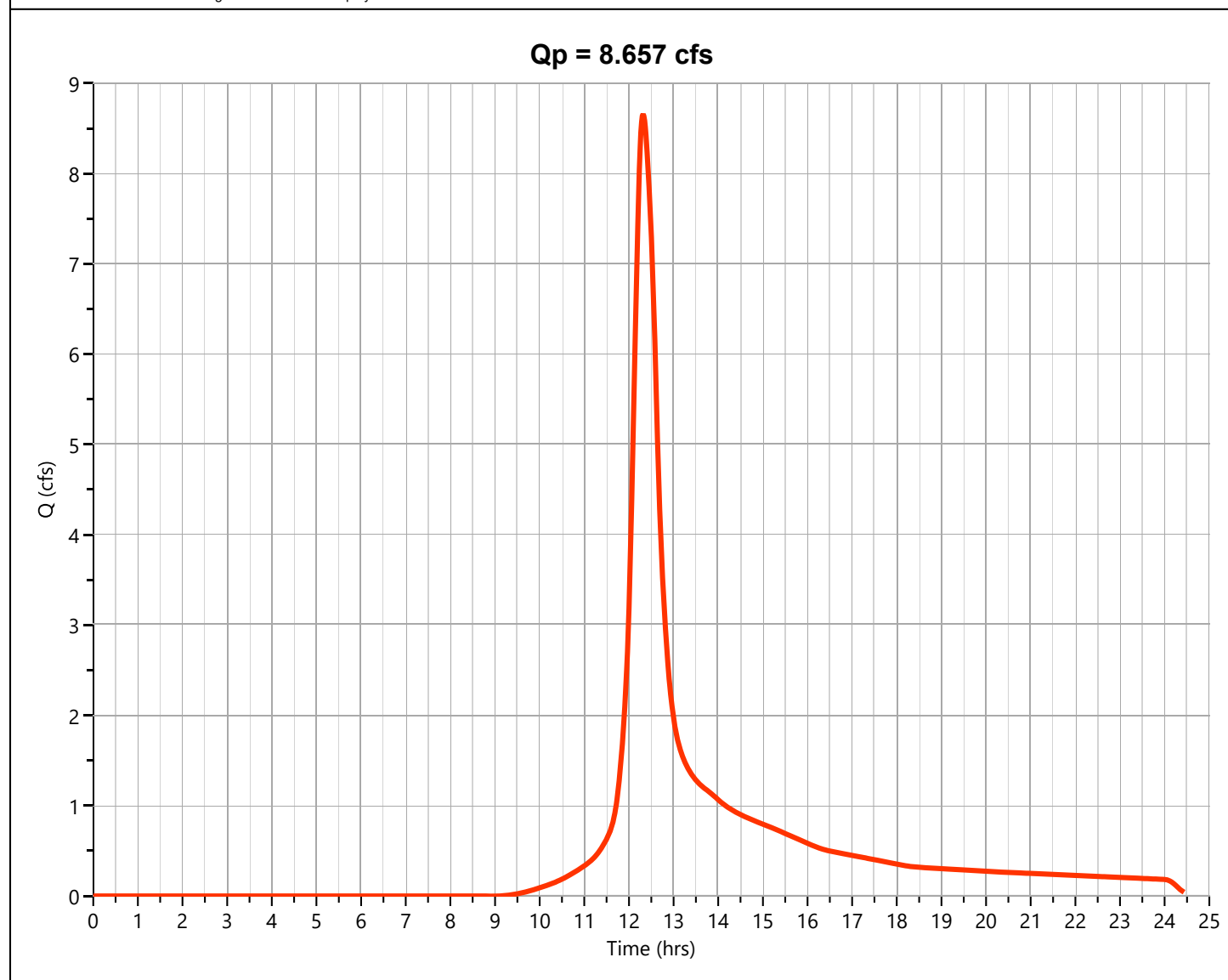
Pre SA-A

Hyd. No. 1

Hydrograph Type	= NRCS Runoff	Peak Flow	= 8.657 cfs
Storm Frequency	= 10-yr	Time to Peak	= 12.32 hrs
Time Interval	= 1 min	Runoff Volume	= 43,498 cuft
Drainage Area	= 5.04 ac	Curve Number	= 73*
Tc Method	= TR55 (See Worksheet)	Time of Conc. (Tc)	= 25.83 min
Total Rainfall	= 5.10 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.328	74	C-GRASS
3.492	70	C-WOODED
0.858	77	D-WOODED
0.362	87	C-RAILROAD
5.04	73	Weighted CN Method Employed



Hydrograph Discharge Table

SA-A

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.87	1.786	12.47	7.693	13.07	1.780				
11.88	1.909	12.48	7.498	13.08	1.742				
11.90	2.039	12.50	7.289	13.10	1.707				
11.92	2.180	12.52	7.066	...end	...end				
11.93	2.334	12.53	6.830						
11.95	2.507	12.55	6.583						
11.97	2.703	12.57	6.326						
11.98	2.927	12.58	6.061						
12.00	3.184	12.60	5.789						
12.02	3.475	12.62	5.511						
12.03	3.796	12.63	5.231						
12.05	4.139	12.65	4.952						
12.07	4.500	12.67	4.679						
12.08	4.872	12.68	4.416						
12.10	5.250	12.70	4.167						
12.12	5.628	12.72	3.937						
12.13	6.004	12.73	3.728						
12.15	6.379	12.75	3.540						
12.17	6.748	12.77	3.369						
12.18	7.109	12.78	3.215						
12.20	7.451	12.80	3.073						
12.22	7.766	12.82	2.942						
12.23	8.045	12.83	2.818						
12.25	8.279	12.85	2.703						
12.27	8.455	12.87	2.595						
12.28	8.573	12.88	2.494						
12.30	8.638	12.90	2.401						
12.32	8.657	12.92	2.314						
12.33	8.637	12.93	2.233						
12.35	8.586	12.95	2.159						
12.37	8.512	12.97	2.090						
12.38	8.420	12.98	2.027						
12.40	8.309	13.00	1.969						
12.42	8.180	13.02	1.915						
12.43	8.034	13.03	1.866						
12.45	7.872	13.05	1.821						

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	NRCS Runoff	Pre SA-A	12.34	12.32	61,567	----		

Hydrograph Report

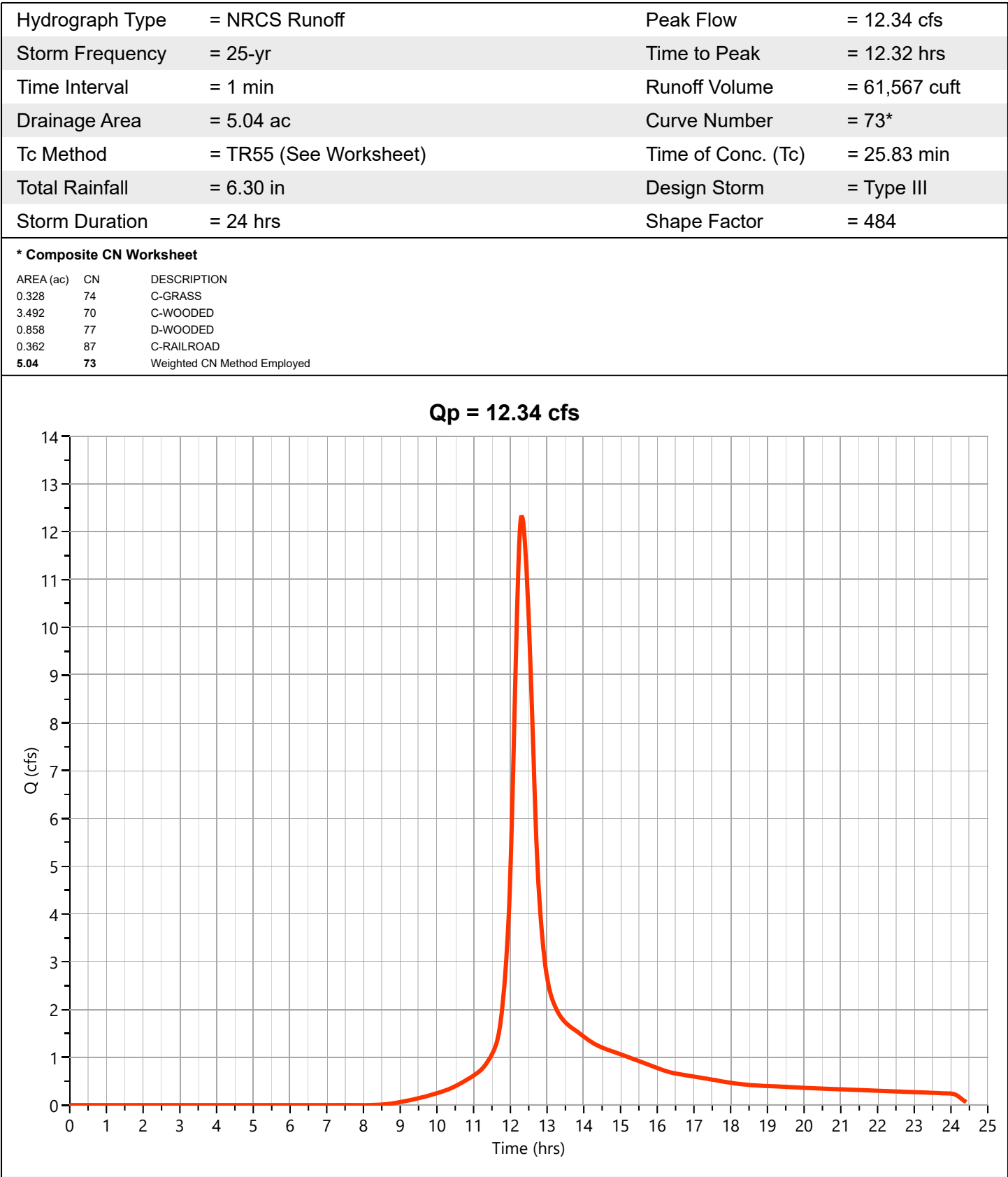
Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

Pre SA-A

Hyd. No. 1



Hydrograph Discharge Table

SA-A

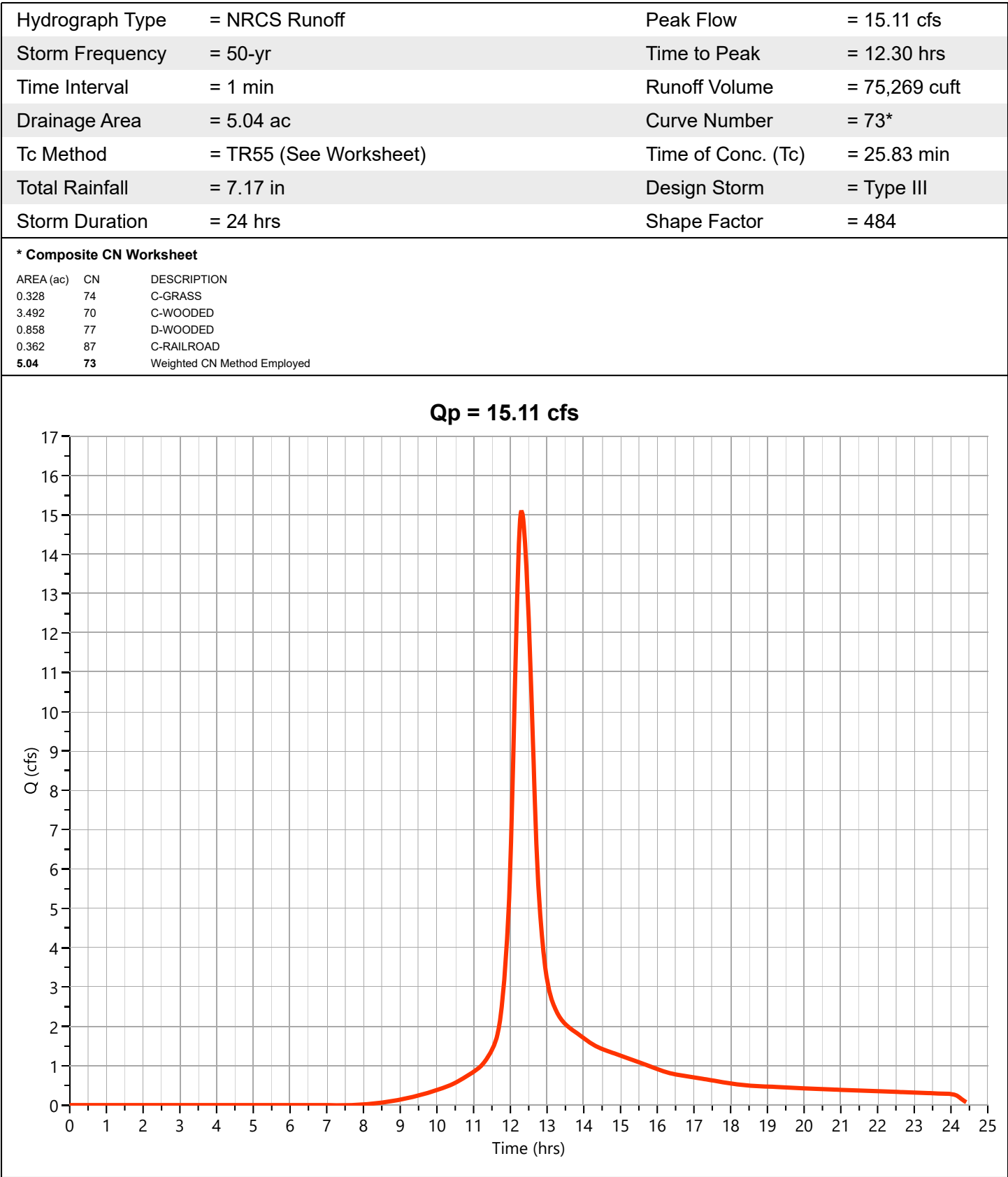
Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.83	2.472	12.43	11.31	13.03	2.531				
11.85	2.632	12.45	11.06	13.05	2.469				
11.87	2.804	12.47	10.79	13.07	2.413				
11.88	2.986	12.48	10.50	...end	...end				
11.90	3.178	12.50	10.19						
11.92	3.385	12.52	9.865						
11.93	3.610	12.53	9.521						
11.95	3.862	12.55	9.162						
11.97	4.146	12.57	8.791						
11.98	4.469	12.58	8.410						
12.00	4.839	12.60	8.020						
12.02	5.255	12.62	7.623						
12.03	5.711	12.63	7.225						
12.05	6.198	12.65	6.829						
12.07	6.707	12.67	6.443						
12.08	7.231	12.68	6.071						
12.10	7.759	12.70	5.721						
12.12	8.286	12.72	5.400						
12.13	8.810	12.73	5.108						
12.15	9.329	12.75	4.845						
12.17	9.839	12.77	4.608						
12.18	10.33	12.78	4.393						
12.20	10.80	12.80	4.197						
12.22	11.23	12.82	4.015						
12.23	11.60	12.83	3.844						
12.25	11.91	12.85	3.684						
12.27	12.13	12.87	3.535						
12.28	12.27	12.88	3.396						
12.30	12.34	12.90	3.267						
12.32	12.34	12.92	3.148						
12.33	12.29	12.93	3.037						
12.35	12.19	12.95	2.934						
12.37	12.07	12.97	2.840						
12.38	11.91	12.98	2.752						
12.40	11.73	13.00	2.672						
12.42	11.53	13.02	2.599						

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	NRCS Runoff	Pre SA-A	15.11	12.30	75,269	----		

Hydrograph Report

Pre SA-A

Hyd. No. 1



Hydrograph Discharge Table

SA-A

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.83	3.178	12.43	13.74	13.03	3.018				
11.85	3.379	12.45	13.43	...end	...end				
11.87	3.593	12.47	13.09						
11.88	3.820	12.48	12.73						
11.90	4.060	12.50	12.35						
11.92	4.316	12.52	11.94						
11.93	4.596	12.53	11.51						
11.95	4.907	12.55	11.07						
11.97	5.257	12.57	10.61						
11.98	5.655	12.58	10.15						
12.00	6.108	12.60	9.668						
12.02	6.618	12.62	9.183						
12.03	7.175	12.63	8.696						
12.05	7.768	12.65	8.213						
12.07	8.388	12.67	7.742						
12.08	9.024	12.68	7.290						
12.10	9.664	12.70	6.866						
12.12	10.30	12.72	6.475						
12.13	10.93	12.73	6.123						
12.15	11.56	12.75	5.804						
12.17	12.17	12.77	5.518						
12.18	12.76	12.78	5.259						
12.20	13.32	12.80	5.023						
12.22	13.83	12.82	4.803						
12.23	14.27	12.83	4.597						
12.25	14.63	12.85	4.405						
12.27	14.89	12.87	4.225						
12.28	15.05	12.88	4.058						
12.30	15.11	12.90	3.903						
12.32	15.10	12.92	3.759						
12.33	15.02	12.93	3.625						
12.35	14.89	12.95	3.502						
12.37	14.72	12.97	3.388						
12.38	14.52	12.98	3.284						
12.40	14.29	13.00	3.188						
12.42	14.03	13.02	3.099						

Hydrology Studio v 3.0.0.34

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	NRCS Runoff	Pre SA-A	18.25	12.30	90,977	----		

Hydrograph Report

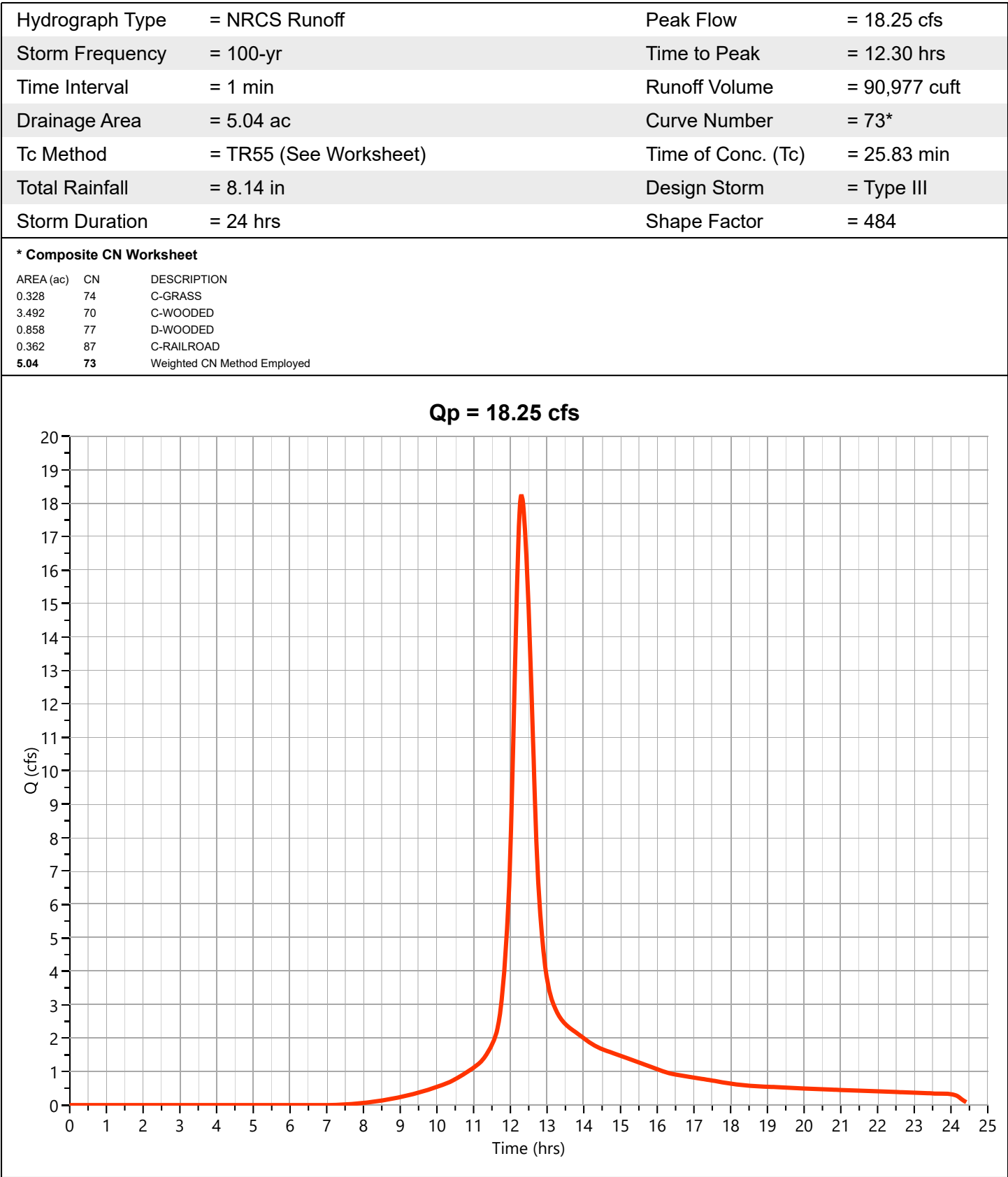
Project Name: 529 Cottage Grove Road Bloomfield

Hydrology Studio v 3.0.0.34

03-08-2025

Pre SA-A

Hyd. No. 1



Hydrograph Discharge Table

SA-A

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.82	3.769	12.42	16.85	13.02	3.659				
11.83	4.000	12.43	16.49	13.03	3.563				
11.85	4.247	12.45	16.11	...end	...end				
11.87	4.510	12.47	15.69						
11.88	4.788	12.48	15.25						
11.90	5.081	12.50	14.77						
11.92	5.394	12.52	14.28						
11.93	5.736	12.53	13.76						
11.95	6.114	12.55	13.22						
11.97	6.540	12.57	12.67						
11.98	7.022	12.58	12.10						
12.00	7.571	12.60	11.52						
12.02	8.187	12.62	10.94						
12.03	8.858	12.63	10.35						
12.05	9.572	12.65	9.767						
12.07	10.32	12.67	9.201						
12.08	11.08	12.68	8.658						
12.10	11.84	12.70	8.149						
12.12	12.61	12.72	7.682						
12.13	13.36	12.73	7.260						
12.15	14.10	12.75	6.880						
12.17	14.83	12.77	6.538						
12.18	15.54	12.78	6.229						
12.20	16.19	12.80	5.947						
12.22	16.79	12.82	5.685						
12.23	17.31	12.83	5.440						
12.25	17.72	12.85	5.211						
12.27	18.02	12.87	4.997						
12.28	18.19	12.88	4.798						
12.30	18.25	12.90	4.614						
12.32	18.22	12.92	4.442						
12.33	18.11	12.93	4.284						
12.35	17.94	12.95	4.138						
12.37	17.72	12.97	4.002						
12.38	17.46	12.98	3.878						
12.40	17.17	13.00	3.764						

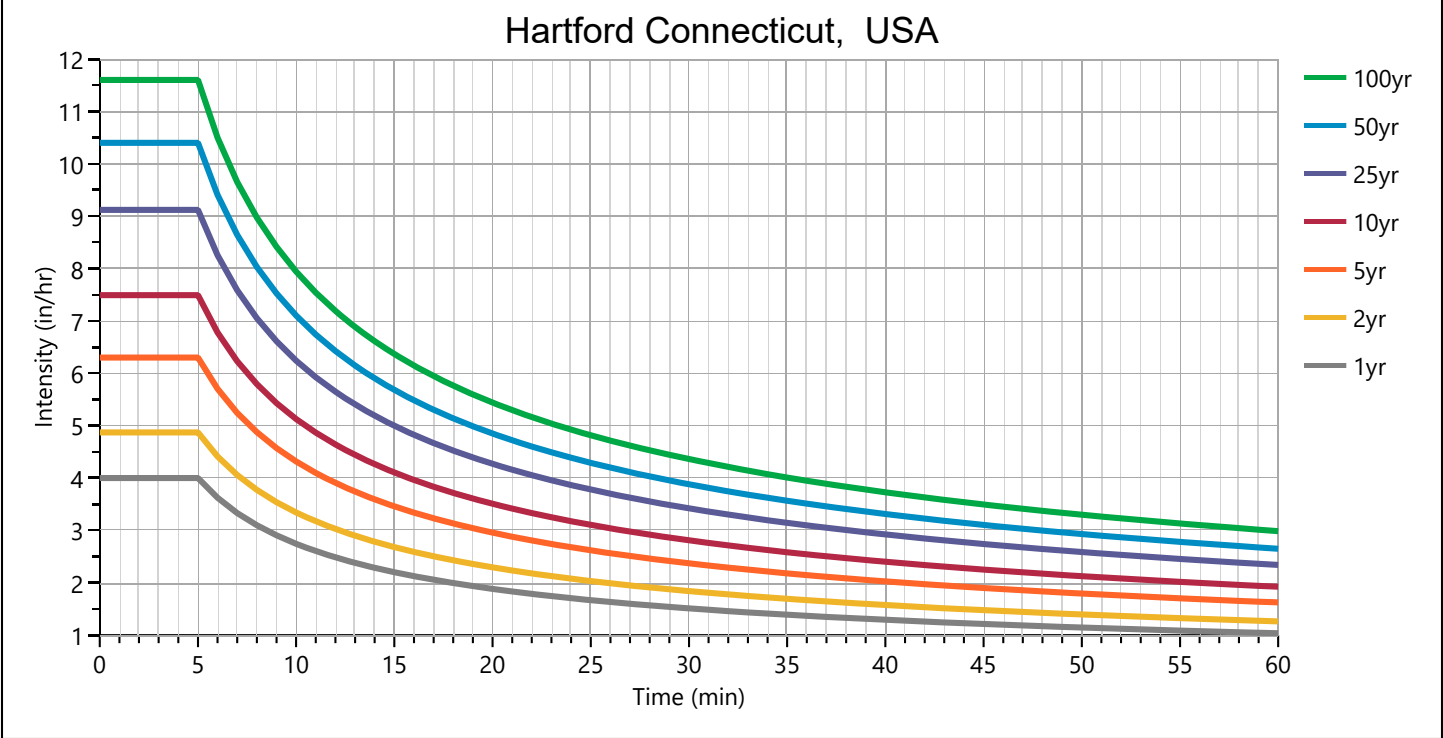
IDF Report

Equation Coefficients	Intensity = B / (Tc + D)^E (in/hr)								
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
B	9.5960	11.6742	0.0000	15.1610	18.0689	22.0099	25.2152	27.9374	
D	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E	0.5437	0.5432	0.0000	0.5456	0.5472	0.5474	0.5503	0.5461	

Minimum Tc = 5 minutes

Tc (min)	Intensity Values (in/hr)								
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
Cf	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
5	4.00	4.87	0	6.30	7.49	9.12	10.40	11.60	
10	2.74	3.34	0	4.32	5.13	6.24	7.10	7.94	
15	2.20	2.68	0	3.46	4.11	5.00	5.68	6.37	
20	1.88	2.29	0	2.96	3.51	4.27	4.85	5.44	
25	1.67	2.03	0	2.62	3.10	3.78	4.29	4.82	
30	1.51	1.84	0	2.37	2.81	3.42	3.88	4.36	
35	1.39	1.69	0	2.18	2.58	3.14	3.56	4.01	
40	1.29	1.57	0	2.03	2.40	2.92	3.31	3.73	
45	1.21	1.48	0	1.90	2.25	2.74	3.10	3.49	
50	1.14	1.39	0	1.79	2.12	2.59	2.93	3.30	
55	1.09	1.32	0	1.70	2.02	2.45	2.78	3.13	
60	1.04	1.26	0	1.62	1.92	2.34	2.65	2.99	

Cf = Correction Factor applied to Rational Method runoff coefficient.



	Active	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Active		✓	✓		✓	✓	✓	✓	✓
SCS Storms	> SCS Dimensionless Storms								
SCS 6hr		1.79	2.18	0	2.80	3.32	4.04	4.56	5.14
Type I, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Type IA, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Type II, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Type II FL, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Type III, 24-hr	✓	2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Synthetic Storms	> IDF-Based Synthetic Storms								
1-hr		1.04	1.26	0	1.62	1.92	2.34	2.65	2.99
2-hr		1.42	1.73	0	2.22	2.63	3.20	3.62	4.09
3-hr		1.71	2.09	0	2.67	3.16	3.85	4.34	4.92
6-hr		2.35	2.86	0	3.66	4.33	5.27	5.93	6.73
12-hr		3.22	3.93	0	5.02	5.92	7.21	8.10	9.22
24-hr		4.42	5.39	0	6.88	8.11	9.86	11.06	12.63
Huff Distribution	> 1st Quartile (0 to 6 hrs)								
1-hr		0.96	1.16	0	1.50	1.77	2.15	2.44	2.74
2-hr		1.24	1.50	0	1.92	2.26	2.74	3.10	3.48
3-hr		1.43	1.72	0	2.21	2.61	3.16	3.57	4.01
6-hr		1.79	2.18	0	2.80	3.32	4.04	4.56	5.14
Huff Distribution	> 2nd Quartile (>6 to 12 hrs)								
8-hr		0	0	0	0	0	0	0	0
12-hr		2.19	2.69	0	3.51	4.19	5.12	5.81	6.56
Huff Distribution	> 3rd Quartile (>12 to 24 hrs)								
18-hr		0	0	0	0	0	0	0	0
24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Custom Storms	> Custom Storm Distributions								
My Custom Storm 1		0	0	0	0	0	0	0	0
My Custom Storm 2		0	0	0	0	0	0	0	0
My Custom Storm 3		0	0	0	0	0	0	0	0
My Custom Storm 4		0	0	0	0	0	0	0	0
My Custom Storm 5		0	0	0	0	0	0	0	0
My Custom Storm 6		0	0	0	0	0	0	0	0
My Custom Storm 7		0	0	0	0	0	0	0	0
My Custom Storm 8		0	0	0	0	0	0	0	0
My Custom Storm 9		0	0	0	0	0	0	0	0
My Custom Storm 10		0	0	0	0	0	0	0	0

	Active	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Active		✓	✓		✓	✓	✓	✓	✓
Huff Indiana	> Indianapolis								
30-min		0.76	0.92	0	1.18	1.40	1.70	1.92	2.16
1-hr		0.96	1.16	0	1.50	1.77	2.15	2.44	2.74
2-hr		1.24	1.50	0	1.92	2.26	2.74	3.10	3.48
3-hr		1.43	1.72	0	2.21	2.61	3.16	3.57	4.01
6-hr		1.79	2.18	0	2.80	3.32	4.04	4.56	5.14
12-hr		2.19	2.69	0	3.51	4.19	5.12	5.81	6.56
24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Huff Indiana	> Evansville								
30-min		0.76	0.92	0	1.18	1.40	1.70	1.92	2.16
1-hr		0.96	1.16	0	1.50	1.77	2.15	2.44	2.74
2-hr		1.24	1.50	0	1.92	2.26	2.74	3.10	3.48
3-hr		1.43	1.72	0	2.21	2.61	3.16	3.57	4.01
6-hr		1.79	2.18	0	2.80	3.32	4.04	4.56	5.14
12-hr		2.19	2.69	0	3.51	4.19	5.12	5.81	6.56
24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Huff Indiana	> Fort Wayne								
30-min		0.76	0.92	0	1.18	1.40	1.70	1.92	2.16
1-hr		0.96	1.16	0	1.50	1.77	2.15	2.44	2.74
2-hr		1.24	1.50	0	1.92	2.26	2.74	3.10	3.48
3-hr		1.43	1.72	0	2.21	2.61	3.16	3.57	4.01
6-hr		1.79	2.18	0	2.80	3.32	4.04	4.56	5.14
12-hr		2.19	2.69	0	3.51	4.19	5.12	5.81	6.56
24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Huff Indiana	> South Bend								
30-min		0.76	0.92	0	1.18	1.40	1.70	1.92	2.16
1-hr		0.96	1.16	0	1.50	1.77	2.15	2.44	2.74
2-hr		1.24	1.50	0	1.92	2.26	2.74	3.10	3.48
3-hr		1.43	1.72	0	2.21	2.61	3.16	3.57	4.01
6-hr		1.79	2.18	0	2.80	3.32	4.04	4.56	5.14
12-hr		2.19	2.69	0	3.51	4.19	5.12	5.81	6.56
24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14

Rainfall totals in Inches

03-08-2025

	Active	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Active		✓	✓		✓	✓	✓	✓	✓
NRCS Storms	> NRCS Dimensionless Storms								
NRCS MSE1, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCS MSE2, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCS MSE3, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCS MSE4, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCS MSE5, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCS MSE6, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NOAA-A, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NOAA-B, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NOAA-C, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NOAA-D, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCC-A, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCC-B, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCC-C, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCC-D, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
CA-1, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
CA-2, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
CA-3, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
CA-4, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
CA-5, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
CA-6, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
FDOT Storms	> Florida DOT Storms								
FDOT, 1-hr		0.96	1.16	0	1.50	1.77	2.15	2.44	2.74
FDOT, 2-hr		1.24	1.50	0	1.92	2.26	2.74	3.10	3.48
FDOT, 4-hr		0	0	0	0	0	0	0	0
FDOT, 8-hr		0	0	0	0	0	0	0	0
FDOT, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
FDOT, 72-hr		0	0	0	0	0	0	0	0
SFWMD, 72-hr		0	0	0	0	0	0	0	0
Austin Storms	> Austin Frequency Storms								
Austin Zone 1, 24-hr		0	0	0	0	0	0	0	0
Austin Zone 2, 24-hr		0	0	0	0	0	0	0	0

Appendix F

Hydrology Studio™

Computer Model Report – Post Development

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Project Name: 529 Cottage Grove Road Bloomfield
File: 3566-POST.hys

Hydrology Studio v 3.0.0.36

03-13-2025

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25 - Year

Hydrograph Summary	POST124
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Hydrograph Reports

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50 - Year

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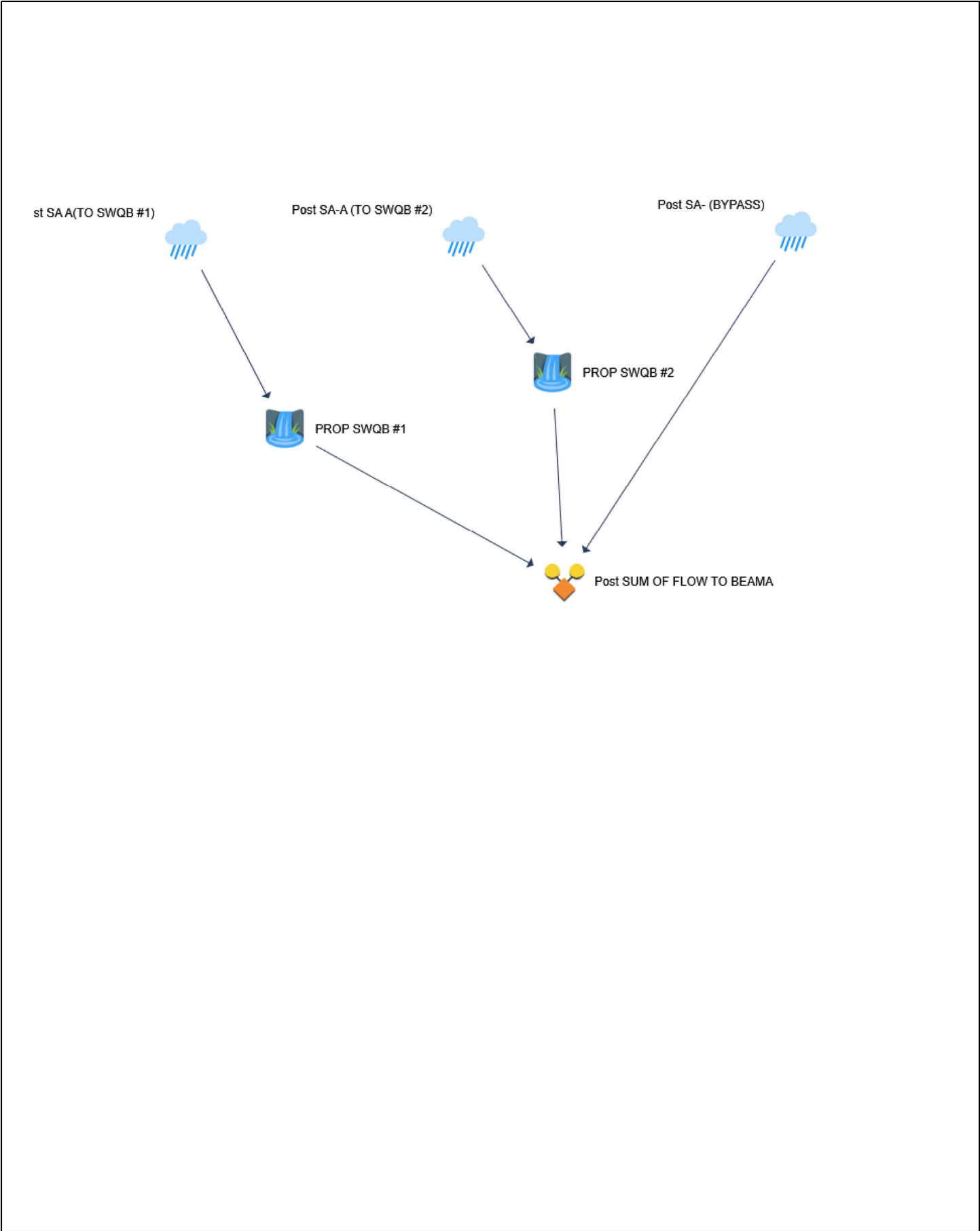
Contents continued...

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Basin Model

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield
File: 3566-POST.hys
03-13-2025



Hydrograph by Return Period

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

[illegible]

POST2

Hydrograph 1-yr Summary

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

Hydrology Studio v 3.0.0.36

03-13-2025

[illegible]

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

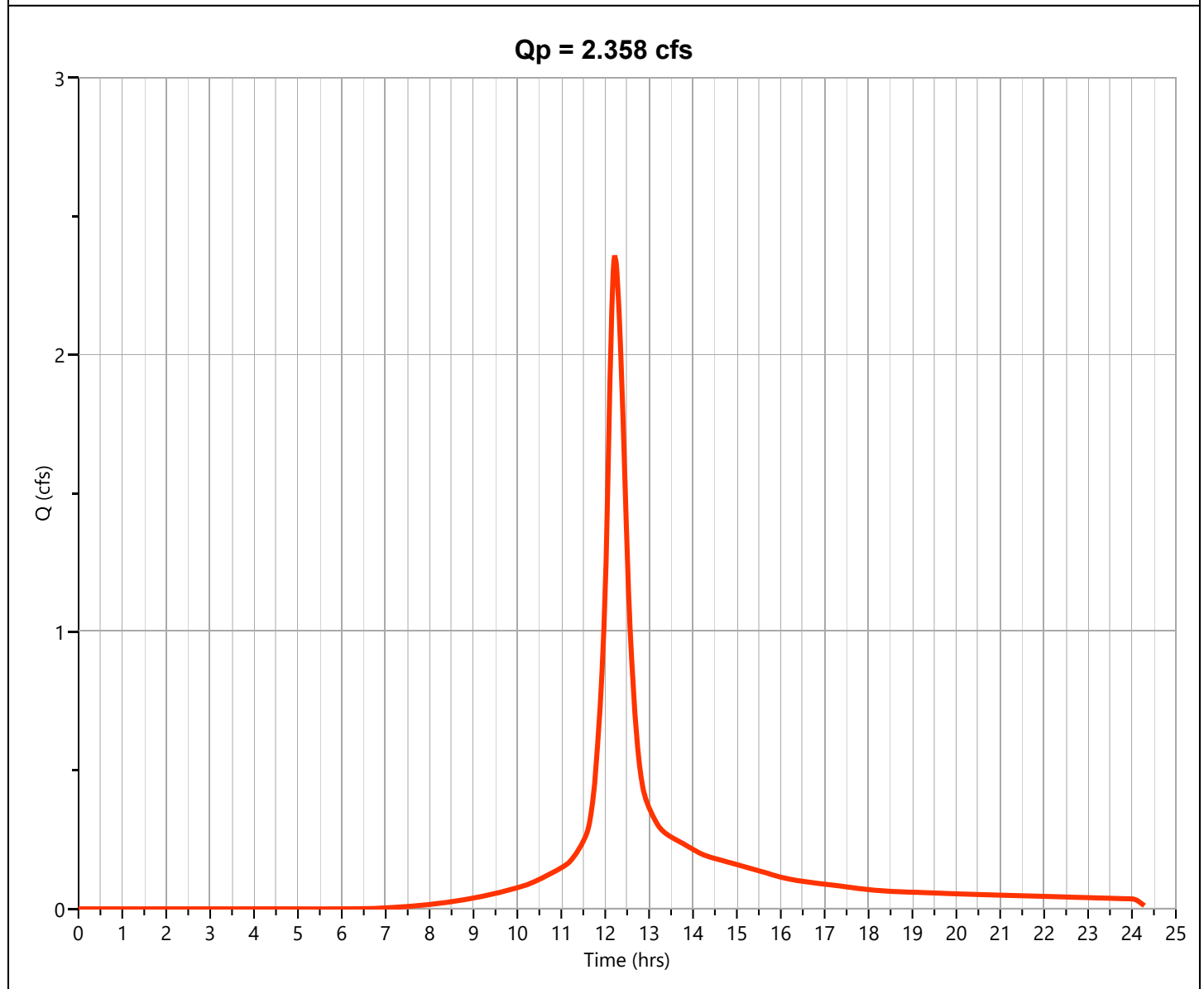
Post SA A(TO SWQB #1)

Hyd. No. 1

Hydrograph Type	= NRCS Runoff	Peak Flow	= 2.358 cfs
Storm Frequency	= 1-yr	Time to Peak	= 12.22 hrs
Time Interval	= 1 min	Runoff Volume	= 10,453 cuft
Drainage Area	= 1.739 ac	Curve Number	= 91*
Tc Method	= User	Time of Conc. (Tc)	= 19.1 min
Total Rainfall	= 2.55 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
1.234	98	C-PAVED/ROOF
0.505	74	C-LAWN/LANDSCAPES
1.739	91	Weighted CN Method Employed



POST4

Hydrograph Discharge Table

SA A(TO SWQB #1)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.48	0.238	12.08	1.712	12.68	0.692	13.28	0.286		
11.50	0.243	12.10	1.832	12.70	0.656	13.30	0.283		
11.52	0.248	12.12	1.948	12.72	0.623	13.32	0.280		
11.53	0.254	12.13	2.056	12.73	0.592	13.33	0.278		
11.55	0.259	12.15	2.154	12.75	0.565	13.35	0.275		
11.57	0.266	12.17	2.237	12.77	0.539	13.37	0.273		
11.58	0.273	12.18	2.300	12.78	0.516	13.38	0.271		
11.60	0.282	12.20	2.341	12.80	0.496	13.40	0.269		
11.62	0.292	12.22	2.358	12.82	0.477	13.42	0.268		
11.63	0.303	12.23	2.355	12.83	0.460	13.43	0.266		
11.65	0.316	12.25	2.335	12.85	0.445	13.45	0.264		
11.67	0.331	12.27	2.301	12.87	0.432	13.47	0.263		
11.68	0.348	12.28	2.256	12.88	0.420	13.48	0.261		
11.70	0.367	12.30	2.205	12.90	0.409	13.50	0.260		
11.72	0.389	12.32	2.148	12.92	0.400	13.52	0.258		
11.73	0.413	12.33	2.087	12.93	0.392	13.53	0.257		
11.75	0.439	12.35	2.021	12.95	0.384	13.55	0.255		
11.77	0.468	12.37	1.951	12.97	0.377	13.57	0.254		
11.78	0.499	12.38	1.877	12.98	0.371	13.58	0.252		
11.80	0.532	12.40	1.799	13.00	0.365	13.60	0.251		
11.82	0.567	12.42	1.718	13.02	0.359	13.62	0.249		
11.83	0.604	12.43	1.635	13.03	0.353	13.63	0.248		
11.85	0.642	12.45	1.549	13.05	0.347	13.65	0.246		
11.87	0.683	12.47	1.463	13.07	0.342	13.67	0.245		
11.88	0.726	12.48	1.377	13.08	0.336	13.68	0.243		
11.90	0.770	12.50	1.294	13.10	0.331	13.70	0.242		
11.92	0.816	12.52	1.216	13.12	0.326	13.72	0.240		
11.93	0.867	12.53	1.143	13.13	0.321	13.73	0.239		
11.95	0.924	12.55	1.077	13.15	0.316	13.75	0.237		
11.97	0.989	12.57	1.016	13.17	0.311	13.77	0.236		
11.98	1.064	12.58	0.961	13.18	0.307	...end	...end		
12.00	1.150	12.60	0.910	13.20	0.303				
12.02	1.249	12.62	0.862	13.22	0.299				
12.03	1.357	12.63	0.816	13.23	0.295				
12.05	1.472	12.65	0.772	13.25	0.292				
12.07	1.591	12.67	0.731	13.27	0.288				

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

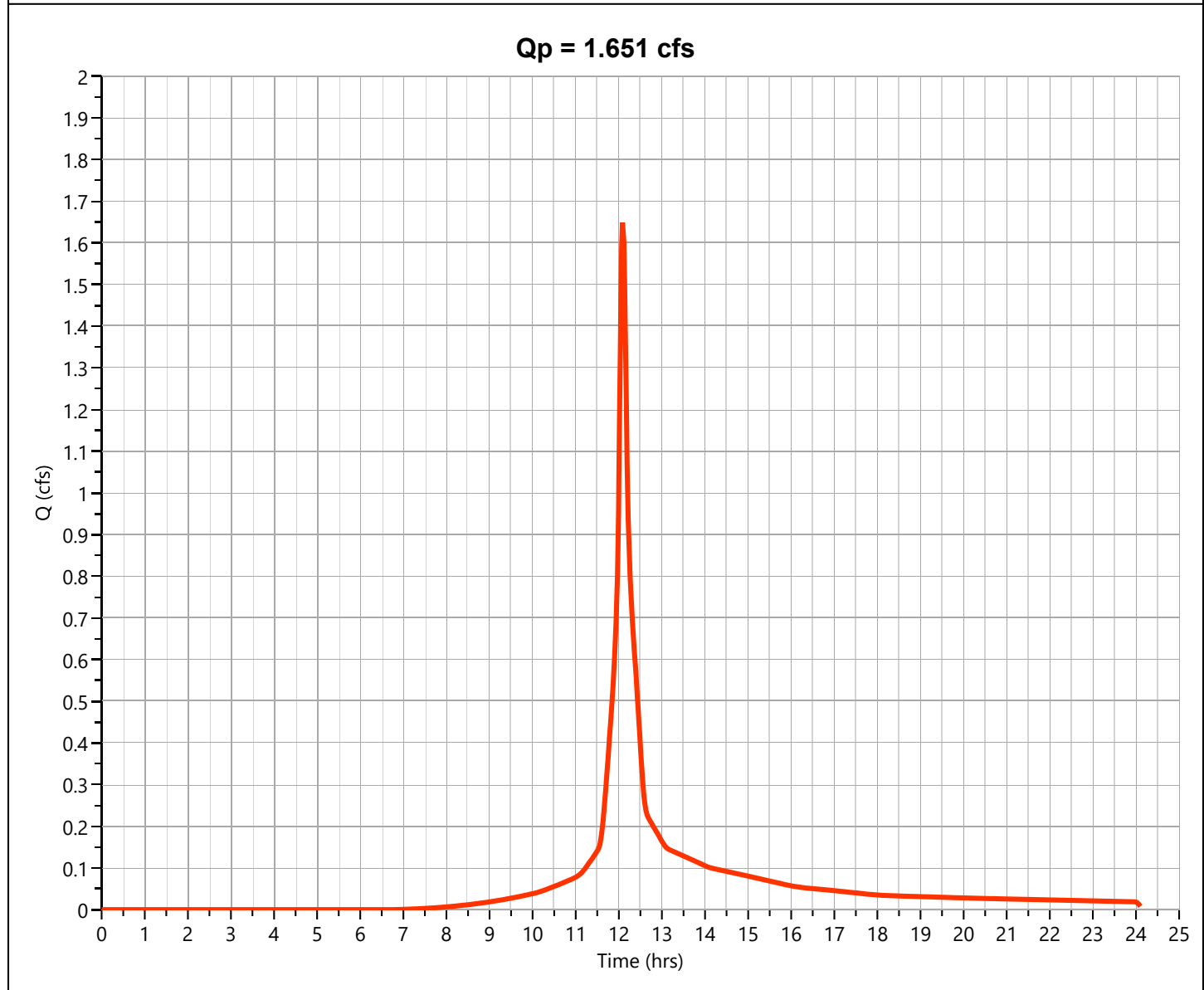
Post SA-A (TO SWQB #2)

Hyd. No. 2

Hydrograph Type	= NRCS Runoff	Peak Flow	= 1.651 cfs
Storm Frequency	= 1-yr	Time to Peak	= 12.10 hrs
Time Interval	= 1 min	Runoff Volume	= 5,331 cuft
Drainage Area	= 0.956 ac	Curve Number	= 90*
Tc Method	= User	Time of Conc. (Tc)	= 7.6 min
Total Rainfall	= 2.55 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.649	98	C-PAVED
0.307	74	C-LAWN/LANDSCAPED
0.956	90	Weighted CN Method Employed



POST6

Hydrograph Discharge Table

SA-A (TO SWQB #2)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.58	0.169	12.18	1.150	12.78	0.203				
11.60	0.181	12.20	1.041	12.80	0.200				
11.62	0.196	12.22	0.950	12.82	0.197				
11.63	0.213	12.23	0.879	12.83	0.194				
11.65	0.231	12.25	0.824	12.85	0.191				
11.67	0.251	12.27	0.781	12.87	0.188				
11.68	0.272	12.28	0.748	12.88	0.185				
11.70	0.294	12.30	0.721	12.90	0.182				
11.72	0.317	12.32	0.695	12.92	0.179				
11.73	0.340	12.33	0.668	12.93	0.176				
11.75	0.364	12.35	0.642	12.95	0.173				
11.77	0.388	12.37	0.615	12.97	0.170				
11.78	0.413	12.38	0.588	12.98	0.167				
11.80	0.438	12.40	0.561	13.00	0.164				
11.82	0.464	12.42	0.533	...end	...end				
11.83	0.490	12.43	0.506						
11.85	0.516	12.45	0.478						
11.87	0.544	12.47	0.450						
11.88	0.571	12.48	0.422						
11.90	0.600	12.50	0.393						
11.92	0.631	12.52	0.365						
11.93	0.671	12.53	0.338						
11.95	0.726	12.55	0.313						
11.97	0.802	12.57	0.291						
11.98	0.904	12.58	0.272						
12.00	1.035	12.60	0.257						
12.02	1.186	12.62	0.245						
12.03	1.340	12.63	0.236						
12.05	1.481	12.65	0.230						
12.07	1.590	12.67	0.224						
12.08	1.649	12.68	0.221						
12.10	1.651	12.70	0.217						
12.12	1.602	12.72	0.214						
12.13	1.513	12.73	0.212						
12.15	1.398	12.75	0.209						
12.17	1.272	12.77	0.206						

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

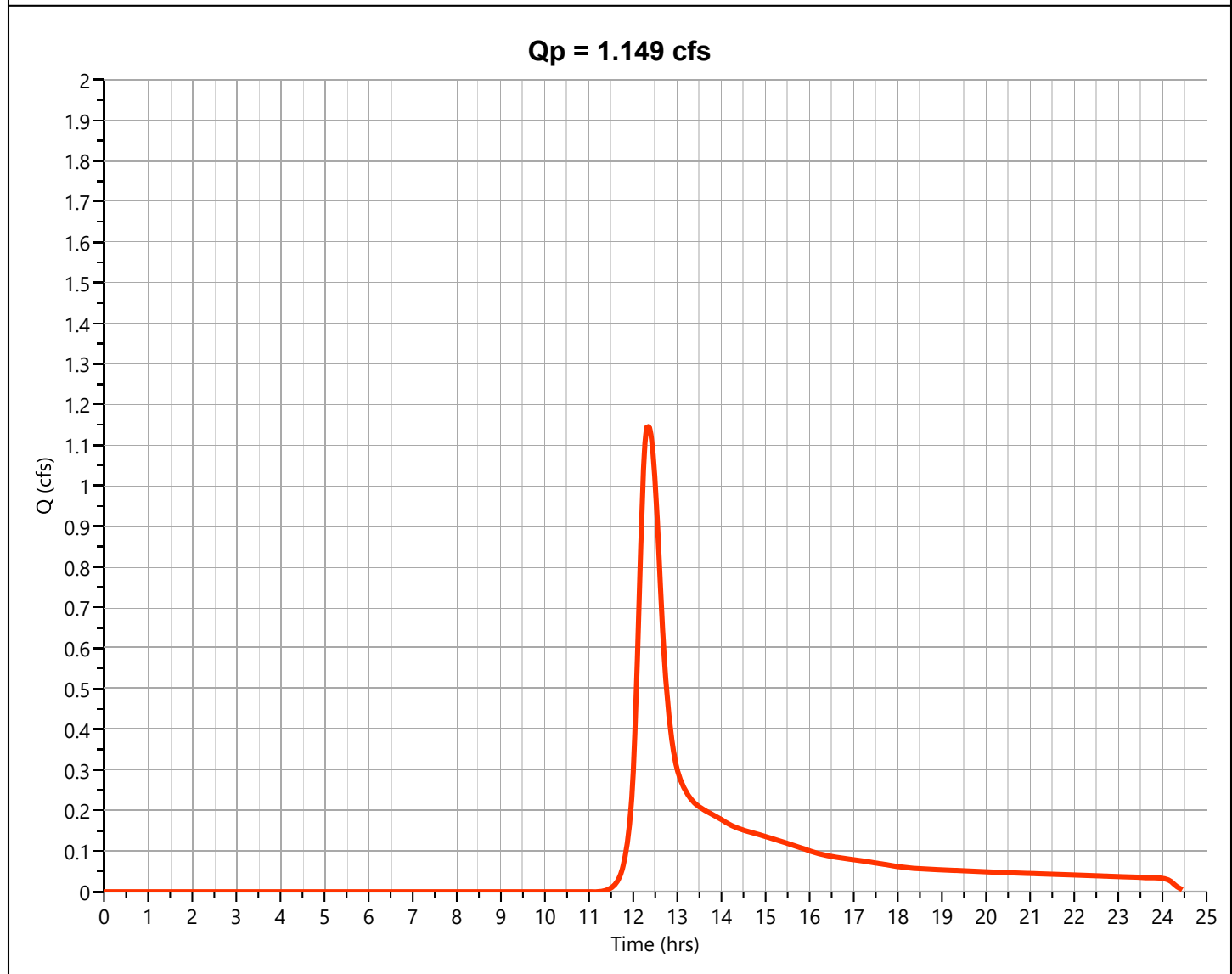
Post SA- (BYPASS)

Hyd. No. 3

Hydrograph Type	= NRCS Runoff	Peak Flow	= 1.149 cfs
Storm Frequency	= 1-yr	Time to Peak	= 12.33 hrs
Time Interval	= 1 min	Runoff Volume	= 6,134 cuft
Drainage Area	= 2.466 ac	Curve Number	= 75.12*
Tc Method	= User	Time of Conc. (Tc)	= 24.7 min
Total Rainfall	= 2.55 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.118	74	C-GRASS
1.128	70	C-WOODED
0.858	77	D-WOODED
0.362	87	C-RAILROAD ROW
2.466	75	Weighted CN Method Employed



POST8

Hydrograph Discharge Table

SA- (BYPASS)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.87	0.122	12.47	1.055	13.07	0.277	13.67	0.198	14.27	0.161
11.88	0.135	12.48	1.030	13.08	0.272	13.68	0.197	14.28	0.160
11.90	0.150	12.50	1.002	13.10	0.268	13.70	0.196	14.30	0.160
11.92	0.166	12.52	0.972	13.12	0.264	13.72	0.195	14.32	0.159
11.93	0.185	12.53	0.940	13.13	0.260	13.73	0.194	14.33	0.158
11.95	0.206	12.55	0.905	13.15	0.256	13.75	0.193	14.35	0.157
11.97	0.231	12.57	0.869	13.17	0.253	13.77	0.192	14.37	0.157
11.98	0.260	12.58	0.831	13.18	0.250	13.78	0.191	14.38	0.156
12.00	0.295	12.60	0.793	13.20	0.246	13.80	0.190	14.40	0.155
12.02	0.335	12.62	0.754	13.22	0.243	13.82	0.189	14.42	0.155
12.03	0.380	12.63	0.716	13.23	0.240	13.83	0.188	14.43	0.154
12.05	0.430	12.65	0.679	13.25	0.237	13.85	0.187	14.45	0.153
12.07	0.483	12.67	0.644	13.27	0.235	13.87	0.186	14.47	0.153
12.08	0.538	12.68	0.612	13.28	0.232	13.88	0.185	14.48	0.152
12.10	0.596	12.70	0.582	13.30	0.229	13.90	0.184	14.50	0.152
12.12	0.654	12.72	0.555	13.32	0.227	13.92	0.183	14.52	0.151
12.13	0.713	12.73	0.530	13.33	0.225	13.93	0.182	14.53	0.151
12.15	0.772	12.75	0.507	13.35	0.223	13.95	0.181	14.55	0.150
12.17	0.831	12.77	0.485	13.37	0.221	13.97	0.180	14.57	0.150
12.18	0.889	12.78	0.465	13.38	0.219	13.98	0.178	14.58	0.149
12.20	0.944	12.80	0.446	13.40	0.217	14.00	0.177	14.60	0.148
12.22	0.994	12.82	0.428	13.42	0.216	14.02	0.176	14.62	0.148
12.23	1.039	12.83	0.411	13.43	0.214	14.03	0.175	14.63	0.147
12.25	1.076	12.85	0.396	13.45	0.213	14.05	0.174	14.65	0.147
12.27	1.105	12.87	0.381	13.47	0.211	14.07	0.173	14.67	0.146
12.28	1.125	12.88	0.368	13.48	0.210	14.08	0.172	14.68	0.146
12.30	1.139	12.90	0.355	13.50	0.209	14.10	0.171	14.70	0.145
12.32	1.146	12.92	0.344	13.52	0.207	14.12	0.170	14.72	0.145
12.33	1.149	12.93	0.334	13.53	0.206	14.13	0.169	14.73	0.144
12.35	1.148	12.95	0.324	13.55	0.205	14.15	0.168	14.75	0.144
12.37	1.144	12.97	0.315	13.57	0.204	14.17	0.167	14.77	0.143
12.38	1.136	12.98	0.307	13.58	0.203	14.18	0.166	14.78	0.143
12.40	1.126	13.00	0.300	13.60	0.202	14.20	0.165	14.80	0.142
12.42	1.113	13.02	0.294	13.62	0.201	14.22	0.164	14.82	0.142
12.43	1.096	13.03	0.287	13.63	0.200	14.23	0.163	14.83	0.141
12.45	1.077	13.05	0.282	13.65	0.199	14.25	0.162	14.85	0.141

Printed values > 10% of Qpeak. nth-point print interval = 1

POST9

Hydrograph Discharge Table, cont'd

SA- (BYPASS)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
14.87	0.140	15.47	0.120						
14.88	0.140	15.48	0.119						
14.90	0.139	15.50	0.119						
14.92	0.139	15.52	0.118						
14.93	0.138	15.53	0.118						
14.95	0.137	15.55	0.117						
14.97	0.137	15.57	0.116						
14.98	0.136	15.58	0.116						
15.00	0.136	15.60	0.115						
15.02	0.135	15.62	0.115						
15.03	0.135	...end	...end						
15.05	0.134								
15.07	0.134								
15.08	0.133								
15.10	0.132								
15.12	0.132								
15.13	0.131								
15.15	0.131								
15.17	0.130								
15.18	0.130								
15.20	0.129								
15.22	0.129								
15.23	0.128								
15.25	0.127								
15.27	0.127								
15.28	0.126								
15.30	0.126								
15.32	0.125								
15.33	0.125								
15.35	0.124								
15.37	0.123								
15.38	0.123								
15.40	0.122								
15.42	0.122								
15.43	0.121								
15.45	0.121								

Hydrograph Report

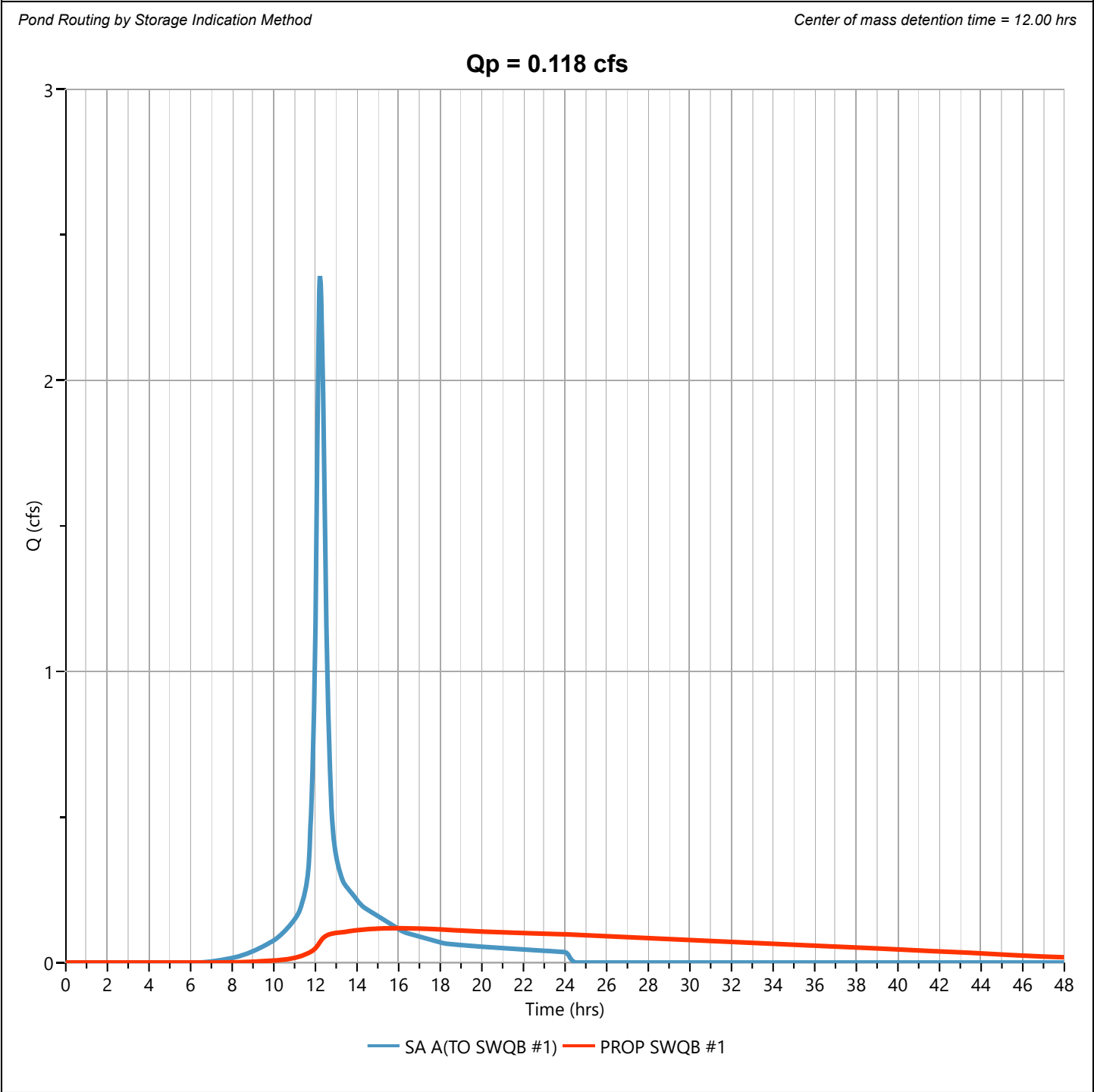
Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield
File: 3566-POST.hys
03-13-2025

PROP SWQB #1

Hyd. No. 4

Hydrograph Type	= Pond Route	Peak Flow	= 0.118 cfs
Storm Frequency	= 1-yr	Time to Peak	= 15.93 hrs
Time Interval	= 1 min	Hydrograph Volume	= 9,735 cuft
Inflow Hydrograph	= 1 - SAA(TO SWQB #1)	Max. Elevation	= 82.19 ft
Pond Name	= PROP SWQB #1	Max. Storage	= 7,018 cuft



Hydrograph Discharge Table

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
10.73	0.012	11.33	0.023	11.93	0.045	12.53	0.093	13.13	0.103
10.75	0.012	11.35	0.023	11.95	0.046	12.55	0.093	13.15	0.103
10.77	0.012	11.37	0.024	11.97	0.047	12.57	0.094	13.17	0.103
10.78	0.012	11.38	0.024	11.98	0.048	12.58	0.094	13.18	0.103
10.80	0.012	11.40	0.024	12.00	0.049	12.60	0.095	13.20	0.103
10.82	0.013	11.42	0.025	12.02	0.050	12.62	0.095	13.22	0.104
10.83	0.013	11.43	0.025	12.03	0.052	12.63	0.096	13.23	0.104
10.85	0.013	11.45	0.026	12.05	0.053	12.65	0.096	13.25	0.104
10.87	0.014	11.47	0.026	12.07	0.054	12.67	0.097	13.27	0.104
10.88	0.014	11.48	0.027	12.08	0.056	12.68	0.097	13.28	0.104
10.90	0.014	11.50	0.027	12.10	0.058	12.70	0.097	13.30	0.104
10.92	0.014	11.52	0.028	12.12	0.059	12.72	0.098	13.32	0.104
10.93	0.015	11.53	0.028	12.13	0.061	12.73	0.098	13.33	0.104
10.95	0.015	11.55	0.029	12.15	0.063	12.75	0.098	13.35	0.104
10.97	0.015	11.57	0.029	12.17	0.065	12.77	0.099	13.37	0.105
10.98	0.016	11.58	0.030	12.18	0.066	12.78	0.099	13.38	0.105
11.00	0.016	11.60	0.030	12.20	0.068	12.80	0.099	13.40	0.105
11.02	0.016	11.62	0.031	12.22	0.070	12.82	0.099	13.42	0.105
11.03	0.016	11.63	0.032	12.23	0.072	12.83	0.100	13.43	0.105
11.05	0.017	11.65	0.032	12.25	0.073	12.85	0.100	13.45	0.105
11.07	0.017	11.67	0.033	12.27	0.075	12.87	0.100	13.47	0.106
11.08	0.017	11.68	0.034	12.28	0.077	12.88	0.100	13.48	0.106
11.10	0.018	11.70	0.034	12.30	0.078	12.90	0.101	13.50	0.106
11.12	0.018	11.72	0.035	12.32	0.080	12.92	0.101	13.52	0.106
11.13	0.018	11.73	0.035	12.33	0.081	12.93	0.101	13.53	0.106
11.15	0.019	11.75	0.036	12.35	0.082	12.95	0.101	13.55	0.107
11.17	0.019	11.77	0.036	12.37	0.084	12.97	0.101	13.57	0.107
11.18	0.019	11.78	0.037	12.38	0.085	12.98	0.101	13.58	0.107
11.20	0.020	11.80	0.038	12.40	0.086	13.00	0.102	13.60	0.107
11.22	0.020	11.82	0.038	12.42	0.087	13.02	0.102	13.62	0.107
11.23	0.020	11.83	0.039	12.43	0.088	13.03	0.102	13.63	0.107
11.25	0.021	11.85	0.040	12.45	0.089	13.05	0.102	13.65	0.108
11.27	0.021	11.87	0.041	12.47	0.090	13.07	0.102	13.67	0.108
11.28	0.022	11.88	0.042	12.48	0.091	13.08	0.102	13.68	0.108
11.30	0.022	11.90	0.043	12.50	0.091	13.10	0.103	13.70	0.108
11.32	0.022	11.92	0.044	12.52	0.092	13.12	0.103	13.72	0.108

Printed values > 10% of Qpeak. nth-point print interval = 1

POST12

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
13.73	0.108	14.33	0.113	14.93	0.116	15.53	0.118	16.13	0.118
13.75	0.109	14.35	0.113	14.95	0.116	15.55	0.118	16.15	0.118
13.77	0.109	14.37	0.113	14.97	0.116	15.57	0.118	16.17	0.118
13.78	0.109	14.38	0.113	14.98	0.116	15.58	0.118	16.18	0.118
13.80	0.109	14.40	0.114	15.00	0.116	15.60	0.118	16.20	0.118
13.82	0.109	14.42	0.114	15.02	0.116	15.62	0.118	16.22	0.118
13.83	0.109	14.43	0.114	15.03	0.116	15.63	0.118	16.23	0.118
13.85	0.110	14.45	0.114	15.05	0.116	15.65	0.118	16.25	0.118
13.87	0.110	14.47	0.114	15.07	0.116	15.67	0.118	16.27	0.118
13.88	0.110	14.48	0.114	15.08	0.117	15.68	0.118	16.28	0.118
13.90	0.110	14.50	0.114	15.10	0.117	15.70	0.118	16.30	0.118
13.92	0.110	14.52	0.114	15.12	0.117	15.72	0.118	16.32	0.118
13.93	0.110	14.53	0.114	15.13	0.117	15.73	0.118	16.33	0.118
13.95	0.110	14.55	0.114	15.15	0.117	15.75	0.118	16.35	0.118
13.97	0.111	14.57	0.114	15.17	0.117	15.77	0.118	16.37	0.117
13.98	0.111	14.58	0.115	15.18	0.117	15.78	0.118	16.38	0.117
14.00	0.111	14.60	0.115	15.20	0.117	15.80	0.118	16.40	0.117
14.02	0.111	14.62	0.115	15.22	0.117	15.82	0.118	16.42	0.117
14.03	0.111	14.63	0.115	15.23	0.117	15.83	0.118	16.43	0.117
14.05	0.111	14.65	0.115	15.25	0.117	15.85	0.118	16.45	0.117
14.07	0.111	14.67	0.115	15.27	0.117	15.87	0.118	16.47	0.117
14.08	0.112	14.68	0.115	15.28	0.117	15.88	0.118	16.48	0.117
14.10	0.112	14.70	0.115	15.30	0.117	15.90	0.118	16.50	0.117
14.12	0.112	14.72	0.115	15.32	0.117	15.92	0.118	16.52	0.117
14.13	0.112	14.73	0.115	15.33	0.117	15.93	0.118	16.53	0.117
14.15	0.112	14.75	0.115	15.35	0.117	15.95	0.118	16.55	0.117
14.17	0.112	14.77	0.115	15.37	0.117	15.97	0.118	16.57	0.117
14.18	0.112	14.78	0.115	15.38	0.117	15.98	0.118	16.58	0.117
14.20	0.112	14.80	0.115	15.40	0.117	16.00	0.118	16.60	0.117
14.22	0.112	14.82	0.116	15.42	0.117	16.02	0.118	16.62	0.117
14.23	0.113	14.83	0.116	15.43	0.117	16.03	0.118	16.63	0.117
14.25	0.113	14.85	0.116	15.45	0.117	16.05	0.118	16.65	0.117
14.27	0.113	14.87	0.116	15.47	0.117	16.07	0.118	16.67	0.117
14.28	0.113	14.88	0.116	15.48	0.117	16.08	0.118	16.68	0.117
14.30	0.113	14.90	0.116	15.50	0.117	16.10	0.118	16.70	0.117
14.32	0.113	14.92	0.116	15.52	0.117	16.12	0.118	16.72	0.117

Printed values > 10% of Qpeak. nth-point print interval = 1

POST13

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
16.73	0.117	17.33	0.116	17.93	0.114	18.53	0.112	19.13	0.109
16.75	0.117	17.35	0.116	17.95	0.114	18.55	0.112	19.15	0.109
16.77	0.117	17.37	0.116	17.97	0.114	18.57	0.112	19.17	0.109
16.78	0.117	17.38	0.116	17.98	0.114	18.58	0.112	19.18	0.109
16.80	0.117	17.40	0.115	18.00	0.114	18.60	0.111	19.20	0.109
16.82	0.117	17.42	0.115	18.02	0.114	18.62	0.111	19.22	0.109
16.83	0.117	17.43	0.115	18.03	0.114	18.63	0.111	19.23	0.109
16.85	0.117	17.45	0.115	18.05	0.113	18.65	0.111	19.25	0.109
16.87	0.117	17.47	0.115	18.07	0.113	18.67	0.111	19.27	0.109
16.88	0.117	17.48	0.115	18.08	0.113	18.68	0.111	19.28	0.109
16.90	0.117	17.50	0.115	18.10	0.113	18.70	0.111	19.30	0.109
16.92	0.117	17.52	0.115	18.12	0.113	18.72	0.111	19.32	0.109
16.93	0.117	17.53	0.115	18.13	0.113	18.73	0.111	19.33	0.109
16.95	0.117	17.55	0.115	18.15	0.113	18.75	0.111	19.35	0.109
16.97	0.116	17.57	0.115	18.17	0.113	18.77	0.111	19.37	0.108
16.98	0.116	17.58	0.115	18.18	0.113	18.78	0.111	19.38	0.108
17.00	0.116	17.60	0.115	18.20	0.113	18.80	0.111	19.40	0.108
17.02	0.116	17.62	0.115	18.22	0.113	18.82	0.111	19.42	0.108
17.03	0.116	17.63	0.115	18.23	0.113	18.83	0.111	19.43	0.108
17.05	0.116	17.65	0.115	18.25	0.113	18.85	0.110	19.45	0.108
17.07	0.116	17.67	0.115	18.27	0.113	18.87	0.110	19.47	0.108
17.08	0.116	17.68	0.115	18.28	0.113	18.88	0.110	19.48	0.108
17.10	0.116	17.70	0.115	18.30	0.113	18.90	0.110	19.50	0.108
17.12	0.116	17.72	0.115	18.32	0.113	18.92	0.110	19.52	0.108
17.13	0.116	17.73	0.115	18.33	0.112	18.93	0.110	19.53	0.108
17.15	0.116	17.75	0.114	18.35	0.112	18.95	0.110	19.55	0.108
17.17	0.116	17.77	0.114	18.37	0.112	18.97	0.110	19.57	0.108
17.18	0.116	17.78	0.114	18.38	0.112	18.98	0.110	19.58	0.108
17.20	0.116	17.80	0.114	18.40	0.112	19.00	0.110	19.60	0.108
17.22	0.116	17.82	0.114	18.42	0.112	19.02	0.110	19.62	0.108
17.23	0.116	17.83	0.114	18.43	0.112	19.03	0.110	19.63	0.107
17.25	0.116	17.85	0.114	18.45	0.112	19.05	0.110	19.65	0.107
17.27	0.116	17.87	0.114	18.47	0.112	19.07	0.110	19.67	0.107
17.28	0.116	17.88	0.114	18.48	0.112	19.08	0.110	19.68	0.107
17.30	0.116	17.90	0.114	18.50	0.112	19.10	0.110	19.70	0.107
17.32	0.116	17.92	0.114	18.52	0.112	19.12	0.109	19.72	0.107

Printed values > 10% of Qpeak. nth-point print interval = 1

POST14

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
19.73	0.107	20.33	0.105	20.93	0.104	21.53	0.102	22.13	0.101
19.75	0.107	20.35	0.105	20.95	0.103	21.55	0.102	22.15	0.101
19.77	0.107	20.37	0.105	20.97	0.103	21.57	0.102	22.17	0.101
19.78	0.107	20.38	0.105	20.98	0.103	21.58	0.102	22.18	0.101
19.80	0.107	20.40	0.105	21.00	0.103	21.60	0.102	22.20	0.101
19.82	0.107	20.42	0.105	21.02	0.103	21.62	0.102	22.22	0.101
19.83	0.107	20.43	0.105	21.03	0.103	21.63	0.102	22.23	0.101
19.85	0.107	20.45	0.105	21.05	0.103	21.65	0.102	22.25	0.101
19.87	0.107	20.47	0.104	21.07	0.103	21.67	0.102	22.27	0.101
19.88	0.106	20.48	0.104	21.08	0.103	21.68	0.102	22.28	0.101
19.90	0.106	20.50	0.104	21.10	0.103	21.70	0.102	22.30	0.101
19.92	0.106	20.52	0.104	21.12	0.103	21.72	0.102	22.32	0.101
19.93	0.106	20.53	0.104	21.13	0.103	21.73	0.102	22.33	0.101
19.95	0.106	20.55	0.104	21.15	0.103	21.75	0.102	22.35	0.100
19.97	0.106	20.57	0.104	21.17	0.103	21.77	0.102	22.37	0.100
19.98	0.106	20.58	0.104	21.18	0.103	21.78	0.102	22.38	0.100
20.00	0.106	20.60	0.104	21.20	0.103	21.80	0.102	22.40	0.100
20.02	0.106	20.62	0.104	21.22	0.103	21.82	0.102	22.42	0.100
20.03	0.106	20.63	0.104	21.23	0.103	21.83	0.102	22.43	0.100
20.05	0.106	20.65	0.104	21.25	0.103	21.85	0.102	22.45	0.100
20.07	0.106	20.67	0.104	21.27	0.103	21.87	0.102	22.47	0.100
20.08	0.106	20.68	0.104	21.28	0.103	21.88	0.101	22.48	0.100
20.10	0.106	20.70	0.104	21.30	0.103	21.90	0.101	22.50	0.100
20.12	0.106	20.72	0.104	21.32	0.103	21.92	0.101	22.52	0.100
20.13	0.105	20.73	0.104	21.33	0.103	21.93	0.101	22.53	0.100
20.15	0.105	20.75	0.104	21.35	0.103	21.95	0.101	22.55	0.100
20.17	0.105	20.77	0.104	21.37	0.103	21.97	0.101	22.57	0.100
20.18	0.105	20.78	0.104	21.38	0.103	21.98	0.101	22.58	0.100
20.20	0.105	20.80	0.104	21.40	0.103	22.00	0.101	22.60	0.100
20.22	0.105	20.82	0.104	21.42	0.103	22.02	0.101	22.62	0.100
20.23	0.105	20.83	0.104	21.43	0.102	22.03	0.101	22.63	0.100
20.25	0.105	20.85	0.104	21.45	0.102	22.05	0.101	22.65	0.100
20.27	0.105	20.87	0.104	21.47	0.102	22.07	0.101	22.67	0.100
20.28	0.105	20.88	0.104	21.48	0.102	22.08	0.101	22.68	0.100
20.30	0.105	20.90	0.104	21.50	0.102	22.10	0.101	22.70	0.100
20.32	0.105	20.92	0.104	21.52	0.102	22.12	0.101	22.72	0.100

Printed values > 10% of Qpeak. nth-point print interval = 1

POST15

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
22.73	0.100	23.33	0.098	23.93	0.097	24.53	0.095	25.13	0.093
22.75	0.100	23.35	0.098	23.95	0.097	24.55	0.095	25.15	0.093
22.77	0.100	23.37	0.098	23.97	0.097	24.57	0.095	25.17	0.093
22.78	0.100	23.38	0.098	23.98	0.097	24.58	0.095	25.18	0.093
22.80	0.099	23.40	0.098	24.00	0.097	24.60	0.095	25.20	0.093
22.82	0.099	23.42	0.098	24.02	0.097	24.62	0.095	25.22	0.093
22.83	0.099	23.43	0.098	24.03	0.097	24.63	0.095	25.23	0.093
22.85	0.099	23.45	0.098	24.05	0.097	24.65	0.095	25.25	0.093
22.87	0.099	23.47	0.098	24.07	0.097	24.67	0.095	25.27	0.093
22.88	0.099	23.48	0.098	24.08	0.097	24.68	0.095	25.28	0.093
22.90	0.099	23.50	0.098	24.10	0.097	24.70	0.095	25.30	0.093
22.92	0.099	23.52	0.098	24.12	0.096	24.72	0.095	25.32	0.093
22.93	0.099	23.53	0.098	24.13	0.096	24.73	0.095	25.33	0.093
22.95	0.099	23.55	0.098	24.15	0.096	24.75	0.094	25.35	0.092
22.97	0.099	23.57	0.098	24.17	0.096	24.77	0.094	25.37	0.092
22.98	0.099	23.58	0.098	24.18	0.096	24.78	0.094	25.38	0.092
23.00	0.099	23.60	0.098	24.20	0.096	24.80	0.094	25.40	0.092
23.02	0.099	23.62	0.098	24.22	0.096	24.82	0.094	25.42	0.092
23.03	0.099	23.63	0.098	24.23	0.096	24.83	0.094	25.43	0.092
23.05	0.099	23.65	0.098	24.25	0.096	24.85	0.094	25.45	0.092
23.07	0.099	23.67	0.097	24.27	0.096	24.87	0.094	25.47	0.092
23.08	0.099	23.68	0.097	24.28	0.096	24.88	0.094	25.48	0.092
23.10	0.099	23.70	0.097	24.30	0.096	24.90	0.094	25.50	0.092
23.12	0.099	23.72	0.097	24.32	0.096	24.92	0.094	25.52	0.092
23.13	0.099	23.73	0.097	24.33	0.096	24.93	0.094	25.53	0.092
23.15	0.099	23.75	0.097	24.35	0.096	24.95	0.094	25.55	0.092
23.17	0.099	23.77	0.097	24.37	0.096	24.97	0.094	25.57	0.092
23.18	0.099	23.78	0.097	24.38	0.096	24.98	0.094	25.58	0.092
23.20	0.099	23.80	0.097	24.40	0.096	25.00	0.094	25.60	0.092
23.22	0.099	23.82	0.097	24.42	0.096	25.02	0.094	25.62	0.092
23.23	0.098	23.83	0.097	24.43	0.096	25.03	0.094	25.63	0.092
23.25	0.098	23.85	0.097	24.45	0.095	25.05	0.093	25.65	0.091
23.27	0.098	23.87	0.097	24.47	0.095	25.07	0.093	25.67	0.091
23.28	0.098	23.88	0.097	24.48	0.095	25.08	0.093	25.68	0.091
23.30	0.098	23.90	0.097	24.50	0.095	25.10	0.093	25.70	0.091
23.32	0.098	23.92	0.097	24.52	0.095	25.12	0.093	25.72	0.091

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
25.73	0.091	26.33	0.089	26.93	0.087	27.53	0.085	28.13	0.083
25.75	0.091	26.35	0.089	26.95	0.087	27.55	0.085	28.15	0.083
25.77	0.091	26.37	0.089	26.97	0.087	27.57	0.085	28.17	0.083
25.78	0.091	26.38	0.089	26.98	0.087	27.58	0.085	28.18	0.083
25.80	0.091	26.40	0.089	27.00	0.087	27.60	0.085	28.20	0.083
25.82	0.091	26.42	0.089	27.02	0.087	27.62	0.085	28.22	0.083
25.83	0.091	26.43	0.089	27.03	0.087	27.63	0.085	28.23	0.083
25.85	0.091	26.45	0.089	27.05	0.087	27.65	0.085	28.25	0.083
25.87	0.091	26.47	0.089	27.07	0.087	27.67	0.085	28.27	0.083
25.88	0.091	26.48	0.089	27.08	0.087	27.68	0.085	28.28	0.083
25.90	0.091	26.50	0.089	27.10	0.087	27.70	0.085	28.30	0.083
25.92	0.091	26.52	0.089	27.12	0.087	27.72	0.085	28.32	0.083
25.93	0.090	26.53	0.088	27.13	0.087	27.73	0.085	28.33	0.083
25.95	0.090	26.55	0.088	27.15	0.086	27.75	0.085	28.35	0.083
25.97	0.090	26.57	0.088	27.17	0.086	27.77	0.084	28.37	0.082
25.98	0.090	26.58	0.088	27.18	0.086	27.78	0.084	28.38	0.082
26.00	0.090	26.60	0.088	27.20	0.086	27.80	0.084	28.40	0.082
26.02	0.090	26.62	0.088	27.22	0.086	27.82	0.084	28.42	0.082
26.03	0.090	26.63	0.088	27.23	0.086	27.83	0.084	28.43	0.082
26.05	0.090	26.65	0.088	27.25	0.086	27.85	0.084	28.45	0.082
26.07	0.090	26.67	0.088	27.27	0.086	27.87	0.084	28.47	0.082
26.08	0.090	26.68	0.088	27.28	0.086	27.88	0.084	28.48	0.082
26.10	0.090	26.70	0.088	27.30	0.086	27.90	0.084	28.50	0.082
26.12	0.090	26.72	0.088	27.32	0.086	27.92	0.084	28.52	0.082
26.13	0.090	26.73	0.088	27.33	0.086	27.93	0.084	28.53	0.082
26.15	0.090	26.75	0.088	27.35	0.086	27.95	0.084	28.55	0.082
26.17	0.090	26.77	0.088	27.37	0.086	27.97	0.084	28.57	0.082
26.18	0.090	26.78	0.088	27.38	0.086	27.98	0.084	28.58	0.082
26.20	0.090	26.80	0.088	27.40	0.086	28.00	0.084	28.60	0.082
26.22	0.090	26.82	0.088	27.42	0.086	28.02	0.084	28.62	0.082
26.23	0.089	26.83	0.088	27.43	0.086	28.03	0.084	28.63	0.082
26.25	0.089	26.85	0.087	27.45	0.086	28.05	0.084	28.65	0.082
26.27	0.089	26.87	0.087	27.47	0.085	28.07	0.083	28.67	0.082
26.28	0.089	26.88	0.087	27.48	0.085	28.08	0.083	28.68	0.081
26.30	0.089	26.90	0.087	27.50	0.085	28.10	0.083	28.70	0.081
26.32	0.089	26.92	0.087	27.52	0.085	28.12	0.083	28.72	0.081

Printed values > 10% of Qpeak. nth-point print interval = 1

POST17

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
28.73	0.081	29.33	0.079	29.93	0.077	30.53	0.075	31.13	0.073
28.75	0.081	29.35	0.079	29.95	0.077	30.55	0.075	31.15	0.073
28.77	0.081	29.37	0.079	29.97	0.077	30.57	0.075	31.17	0.073
28.78	0.081	29.38	0.079	29.98	0.077	30.58	0.075	31.18	0.073
28.80	0.081	29.40	0.079	30.00	0.077	30.60	0.075	31.20	0.073
28.82	0.081	29.42	0.079	30.02	0.077	30.62	0.075	31.22	0.073
28.83	0.081	29.43	0.079	30.03	0.077	30.63	0.075	31.23	0.073
28.85	0.081	29.45	0.079	30.05	0.077	30.65	0.075	31.25	0.073
28.87	0.081	29.47	0.079	30.07	0.077	30.67	0.075	31.27	0.073
28.88	0.081	29.48	0.079	30.08	0.077	30.68	0.075	31.28	0.073
28.90	0.081	29.50	0.079	30.10	0.077	30.70	0.075	31.30	0.073
28.92	0.081	29.52	0.079	30.12	0.077	30.72	0.075	31.32	0.073
28.93	0.081	29.53	0.079	30.13	0.077	30.73	0.075	31.33	0.073
28.95	0.081	29.55	0.079	30.15	0.077	30.75	0.075	31.35	0.073
28.97	0.081	29.57	0.079	30.17	0.077	30.77	0.075	31.37	0.073
28.98	0.081	29.58	0.079	30.18	0.077	30.78	0.075	31.38	0.073
29.00	0.080	29.60	0.078	30.20	0.076	30.80	0.075	31.40	0.073
29.02	0.080	29.62	0.078	30.22	0.076	30.82	0.075	31.42	0.073
29.03	0.080	29.63	0.078	30.23	0.076	30.83	0.074	31.43	0.073
29.05	0.080	29.65	0.078	30.25	0.076	30.85	0.074	31.45	0.072
29.07	0.080	29.67	0.078	30.27	0.076	30.87	0.074	31.47	0.072
29.08	0.080	29.68	0.078	30.28	0.076	30.88	0.074	31.48	0.072
29.10	0.080	29.70	0.078	30.30	0.076	30.90	0.074	31.50	0.072
29.12	0.080	29.72	0.078	30.32	0.076	30.92	0.074	31.52	0.072
29.13	0.080	29.73	0.078	30.33	0.076	30.93	0.074	31.53	0.072
29.15	0.080	29.75	0.078	30.35	0.076	30.95	0.074	31.55	0.072
29.17	0.080	29.77	0.078	30.37	0.076	30.97	0.074	31.57	0.072
29.18	0.080	29.78	0.078	30.38	0.076	30.98	0.074	31.58	0.072
29.20	0.080	29.80	0.078	30.40	0.076	31.00	0.074	31.60	0.072
29.22	0.080	29.82	0.078	30.42	0.076	31.02	0.074	31.62	0.072
29.23	0.080	29.83	0.078	30.43	0.076	31.03	0.074	31.63	0.072
29.25	0.080	29.85	0.078	30.45	0.076	31.05	0.074	31.65	0.072
29.27	0.080	29.87	0.078	30.47	0.076	31.07	0.074	31.67	0.072
29.28	0.080	29.88	0.078	30.48	0.076	31.08	0.074	31.68	0.072
29.30	0.079	29.90	0.077	30.50	0.076	31.10	0.074	31.70	0.072
29.32	0.079	29.92	0.077	30.52	0.075	31.12	0.074	31.72	0.072

Printed values > 10% of Qpeak. nth-point print interval = 1

POST18

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
31.73	0.072	32.33	0.070	32.93	0.068	33.53	0.066	34.13	0.064
31.75	0.071	32.35	0.069	32.95	0.068	33.55	0.066	34.15	0.064
31.77	0.071	32.37	0.069	32.97	0.067	33.57	0.066	34.17	0.064
31.78	0.071	32.38	0.069	32.98	0.067	33.58	0.066	34.18	0.064
31.80	0.071	32.40	0.069	33.00	0.067	33.60	0.065	34.20	0.063
31.82	0.071	32.42	0.069	33.02	0.067	33.62	0.065	34.22	0.063
31.83	0.071	32.43	0.069	33.03	0.067	33.63	0.065	34.23	0.063
31.85	0.071	32.45	0.069	33.05	0.067	33.65	0.065	34.25	0.063
31.87	0.071	32.47	0.069	33.07	0.067	33.67	0.065	34.27	0.063
31.88	0.071	32.48	0.069	33.08	0.067	33.68	0.065	34.28	0.063
31.90	0.071	32.50	0.069	33.10	0.067	33.70	0.065	34.30	0.063
31.92	0.071	32.52	0.069	33.12	0.067	33.72	0.065	34.32	0.063
31.93	0.071	32.53	0.069	33.13	0.067	33.73	0.065	34.33	0.063
31.95	0.071	32.55	0.069	33.15	0.067	33.75	0.065	34.35	0.063
31.97	0.071	32.57	0.069	33.17	0.067	33.77	0.065	34.37	0.063
31.98	0.071	32.58	0.069	33.18	0.067	33.78	0.065	34.38	0.063
32.00	0.071	32.60	0.069	33.20	0.067	33.80	0.065	34.40	0.063
32.02	0.071	32.62	0.069	33.22	0.067	33.82	0.065	34.42	0.063
32.03	0.071	32.63	0.069	33.23	0.067	33.83	0.065	34.43	0.063
32.05	0.070	32.65	0.068	33.25	0.067	33.85	0.065	34.45	0.063
32.07	0.070	32.67	0.068	33.27	0.067	33.87	0.065	34.47	0.063
32.08	0.070	32.68	0.068	33.28	0.066	33.88	0.065	34.48	0.063
32.10	0.070	32.70	0.068	33.30	0.066	33.90	0.064	34.50	0.062
32.12	0.070	32.72	0.068	33.32	0.066	33.92	0.064	34.52	0.062
32.13	0.070	32.73	0.068	33.33	0.066	33.93	0.064	34.53	0.062
32.15	0.070	32.75	0.068	33.35	0.066	33.95	0.064	34.55	0.062
32.17	0.070	32.77	0.068	33.37	0.066	33.97	0.064	34.57	0.062
32.18	0.070	32.78	0.068	33.38	0.066	33.98	0.064	34.58	0.062
32.20	0.070	32.80	0.068	33.40	0.066	34.00	0.064	34.60	0.062
32.22	0.070	32.82	0.068	33.42	0.066	34.02	0.064	34.62	0.062
32.23	0.070	32.83	0.068	33.43	0.066	34.03	0.064	34.63	0.062
32.25	0.070	32.85	0.068	33.45	0.066	34.05	0.064	34.65	0.062
32.27	0.070	32.87	0.068	33.47	0.066	34.07	0.064	34.67	0.062
32.28	0.070	32.88	0.068	33.48	0.066	34.08	0.064	34.68	0.062
32.30	0.070	32.90	0.068	33.50	0.066	34.10	0.064	34.70	0.062
32.32	0.070	32.92	0.068	33.52	0.066	34.12	0.064	34.72	0.062

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
34.73	0.062	35.33	0.060	35.93	0.058	36.53	0.056	37.13	0.054
34.75	0.062	35.35	0.060	35.95	0.058	36.55	0.056	37.15	0.054
34.77	0.062	35.37	0.060	35.97	0.058	36.57	0.056	37.17	0.054
34.78	0.062	35.38	0.060	35.98	0.058	36.58	0.056	37.18	0.054
34.80	0.062	35.40	0.060	36.00	0.058	36.60	0.056	37.20	0.054
34.82	0.061	35.42	0.060	36.02	0.058	36.62	0.056	37.22	0.054
34.83	0.061	35.43	0.060	36.03	0.058	36.63	0.056	37.23	0.054
34.85	0.061	35.45	0.059	36.05	0.058	36.65	0.056	37.25	0.054
34.87	0.061	35.47	0.059	36.07	0.058	36.67	0.056	37.27	0.054
34.88	0.061	35.48	0.059	36.08	0.058	36.68	0.056	37.28	0.054
34.90	0.061	35.50	0.059	36.10	0.058	36.70	0.056	37.30	0.054
34.92	0.061	35.52	0.059	36.12	0.057	36.72	0.055	37.32	0.053
34.93	0.061	35.53	0.059	36.13	0.057	36.73	0.055	37.33	0.053
34.95	0.061	35.55	0.059	36.15	0.057	36.75	0.055	37.35	0.053
34.97	0.061	35.57	0.059	36.17	0.057	36.77	0.055	37.37	0.053
34.98	0.061	35.58	0.059	36.18	0.057	36.78	0.055	37.38	0.053
35.00	0.061	35.60	0.059	36.20	0.057	36.80	0.055	37.40	0.053
35.02	0.061	35.62	0.059	36.22	0.057	36.82	0.055	37.42	0.053
35.03	0.061	35.63	0.059	36.23	0.057	36.83	0.055	37.43	0.053
35.05	0.061	35.65	0.059	36.25	0.057	36.85	0.055	37.45	0.053
35.07	0.061	35.67	0.059	36.27	0.057	36.87	0.055	37.47	0.053
35.08	0.061	35.68	0.059	36.28	0.057	36.88	0.055	37.48	0.053
35.10	0.061	35.70	0.059	36.30	0.057	36.90	0.055	37.50	0.053
35.12	0.061	35.72	0.059	36.32	0.057	36.92	0.055	37.52	0.053
35.13	0.060	35.73	0.059	36.33	0.057	36.93	0.055	37.53	0.053
35.15	0.060	35.75	0.059	36.35	0.057	36.95	0.055	37.55	0.053
35.17	0.060	35.77	0.059	36.37	0.057	36.97	0.055	37.57	0.053
35.18	0.060	35.78	0.058	36.38	0.057	36.98	0.055	37.58	0.053
35.20	0.060	35.80	0.058	36.40	0.057	37.00	0.055	37.60	0.053
35.22	0.060	35.82	0.058	36.42	0.056	37.02	0.054	37.62	0.053
35.23	0.060	35.83	0.058	36.43	0.056	37.03	0.054	37.63	0.052
35.25	0.060	35.85	0.058	36.45	0.056	37.05	0.054	37.65	0.052
35.27	0.060	35.87	0.058	36.47	0.056	37.07	0.054	37.67	0.052
35.28	0.060	35.88	0.058	36.48	0.056	37.08	0.054	37.68	0.052
35.30	0.060	35.90	0.058	36.50	0.056	37.10	0.054	37.70	0.052
35.32	0.060	35.92	0.058	36.52	0.056	37.12	0.054	37.72	0.052

Printed values > 10% of Qpeak. nth-point print interval = 1

POST20

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
37.73	0.052	38.33	0.050	38.93	0.048	39.53	0.047	40.13	0.044
37.75	0.052	38.35	0.050	38.95	0.048	39.55	0.046	40.15	0.044
37.77	0.052	38.37	0.050	38.97	0.048	39.57	0.046	40.17	0.044
37.78	0.052	38.38	0.050	38.98	0.048	39.58	0.046	40.18	0.044
37.80	0.052	38.40	0.050	39.00	0.048	39.60	0.046	40.20	0.044
37.82	0.052	38.42	0.050	39.02	0.048	39.62	0.046	40.22	0.044
37.83	0.052	38.43	0.050	39.03	0.048	39.63	0.046	40.23	0.044
37.85	0.052	38.45	0.050	39.05	0.048	39.65	0.046	40.25	0.044
37.87	0.052	38.47	0.050	39.07	0.048	39.67	0.046	40.27	0.044
37.88	0.052	38.48	0.050	39.08	0.048	39.68	0.046	40.28	0.044
37.90	0.052	38.50	0.050	39.10	0.048	39.70	0.046	40.30	0.044
37.92	0.052	38.52	0.050	39.12	0.048	39.72	0.046	40.32	0.044
37.93	0.052	38.53	0.050	39.13	0.048	39.73	0.046	40.33	0.044
37.95	0.051	38.55	0.050	39.15	0.048	39.75	0.046	40.35	0.044
37.97	0.051	38.57	0.050	39.17	0.048	39.77	0.046	40.37	0.043
37.98	0.051	38.58	0.050	39.18	0.048	39.78	0.046	40.38	0.043
38.00	0.051	38.60	0.049	39.20	0.048	39.80	0.046	40.40	0.043
38.02	0.051	38.62	0.049	39.22	0.048	39.82	0.045	40.42	0.043
38.03	0.051	38.63	0.049	39.23	0.048	39.83	0.045	40.43	0.043
38.05	0.051	38.65	0.049	39.25	0.048	39.85	0.045	40.45	0.043
38.07	0.051	38.67	0.049	39.27	0.047	39.87	0.045	40.47	0.043
38.08	0.051	38.68	0.049	39.28	0.047	39.88	0.045	40.48	0.043
38.10	0.051	38.70	0.049	39.30	0.047	39.90	0.045	40.50	0.043
38.12	0.051	38.72	0.049	39.32	0.047	39.92	0.045	40.52	0.043
38.13	0.051	38.73	0.049	39.33	0.047	39.93	0.045	40.53	0.043
38.15	0.051	38.75	0.049	39.35	0.047	39.95	0.045	40.55	0.043
38.17	0.051	38.77	0.049	39.37	0.047	39.97	0.045	40.57	0.043
38.18	0.051	38.78	0.049	39.38	0.047	39.98	0.045	40.58	0.043
38.20	0.051	38.80	0.049	39.40	0.047	40.00	0.045	40.60	0.043
38.22	0.051	38.82	0.049	39.42	0.047	40.02	0.045	40.62	0.043
38.23	0.051	38.83	0.049	39.43	0.047	40.03	0.045	40.63	0.043
38.25	0.051	38.85	0.049	39.45	0.047	40.05	0.045	40.65	0.042
38.27	0.050	38.87	0.049	39.47	0.047	40.07	0.045	40.67	0.042
38.28	0.050	38.88	0.049	39.48	0.047	40.08	0.044	40.68	0.042
38.30	0.050	38.90	0.049	39.50	0.047	40.10	0.044	40.70	0.042
38.32	0.050	38.92	0.049	39.52	0.047	40.12	0.044	40.72	0.042

Printed values > 10% of Qpeak. nth-point print interval = 1

POST21

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
40.73	0.042	41.33	0.040	41.93	0.038	42.53	0.036	43.13	0.035
40.75	0.042	41.35	0.040	41.95	0.038	42.55	0.036	43.15	0.035
40.77	0.042	41.37	0.040	41.97	0.038	42.57	0.036	43.17	0.035
40.78	0.042	41.38	0.040	41.98	0.038	42.58	0.036	43.18	0.035
40.80	0.042	41.40	0.040	42.00	0.038	42.60	0.036	43.20	0.035
40.82	0.042	41.42	0.040	42.02	0.038	42.62	0.036	43.22	0.034
40.83	0.042	41.43	0.040	42.03	0.038	42.63	0.036	43.23	0.034
40.85	0.042	41.45	0.040	42.05	0.038	42.65	0.036	43.25	0.034
40.87	0.042	41.47	0.040	42.07	0.038	42.67	0.036	43.27	0.034
40.88	0.042	41.48	0.040	42.08	0.038	42.68	0.036	43.28	0.034
40.90	0.042	41.50	0.040	42.10	0.038	42.70	0.036	43.30	0.034
40.92	0.042	41.52	0.040	42.12	0.038	42.72	0.036	43.32	0.034
40.93	0.042	41.53	0.040	42.13	0.038	42.73	0.036	43.33	0.034
40.95	0.041	41.55	0.039	42.15	0.038	42.75	0.036	43.35	0.034
40.97	0.041	41.57	0.039	42.17	0.038	42.77	0.036	43.37	0.034
40.98	0.041	41.58	0.039	42.18	0.037	42.78	0.036	43.38	0.034
41.00	0.041	41.60	0.039	42.20	0.037	42.80	0.036	43.40	0.034
41.02	0.041	41.62	0.039	42.22	0.037	42.82	0.036	43.42	0.034
41.03	0.041	41.63	0.039	42.23	0.037	42.83	0.036	43.43	0.034
41.05	0.041	41.65	0.039	42.25	0.037	42.85	0.036	43.45	0.033
41.07	0.041	41.67	0.039	42.27	0.037	42.87	0.035	43.47	0.033
41.08	0.041	41.68	0.039	42.28	0.037	42.88	0.035	43.48	0.033
41.10	0.041	41.70	0.039	42.30	0.037	42.90	0.035	43.50	0.033
41.12	0.041	41.72	0.039	42.32	0.037	42.92	0.035	43.52	0.033
41.13	0.041	41.73	0.039	42.33	0.037	42.93	0.035	43.53	0.033
41.15	0.041	41.75	0.039	42.35	0.037	42.95	0.035	43.55	0.033
41.17	0.041	41.77	0.039	42.37	0.037	42.97	0.035	43.57	0.033
41.18	0.041	41.78	0.039	42.38	0.037	42.98	0.035	43.58	0.033
41.20	0.041	41.80	0.039	42.40	0.037	43.00	0.035	43.60	0.033
41.22	0.041	41.82	0.039	42.42	0.037	43.02	0.035	43.62	0.033
41.23	0.041	41.83	0.039	42.43	0.037	43.03	0.035	43.63	0.033
41.25	0.040	41.85	0.039	42.45	0.037	43.05	0.035	43.65	0.033
41.27	0.040	41.87	0.038	42.47	0.037	43.07	0.035	43.67	0.033
41.28	0.040	41.88	0.038	42.48	0.037	43.08	0.035	43.68	0.032
41.30	0.040	41.90	0.038	42.50	0.037	43.10	0.035	43.70	0.032
41.32	0.040	41.92	0.038	42.52	0.036	43.12	0.035	43.72	0.032

Printed values > 10% of Qpeak. nth-point print interval = 1

POST22

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
43.73	0.032	44.33	0.030	44.93	0.027	45.53	0.025	46.13	0.023
43.75	0.032	44.35	0.030	44.95	0.027	45.55	0.025	46.15	0.023
43.77	0.032	44.37	0.030	44.97	0.027	45.57	0.025	46.17	0.023
43.78	0.032	44.38	0.029	44.98	0.027	45.58	0.025	46.18	0.023
43.80	0.032	44.40	0.029	45.00	0.027	45.60	0.025	46.20	0.023
43.82	0.032	44.42	0.029	45.02	0.027	45.62	0.025	46.22	0.023
43.83	0.032	44.43	0.029	45.03	0.027	45.63	0.025	46.23	0.023
43.85	0.032	44.45	0.029	45.05	0.027	45.65	0.025	46.25	0.023
43.87	0.032	44.47	0.029	45.07	0.027	45.67	0.025	46.27	0.023
43.88	0.032	44.48	0.029	45.08	0.027	45.68	0.025	46.28	0.023
43.90	0.031	44.50	0.029	45.10	0.027	45.70	0.025	46.30	0.023
43.92	0.031	44.52	0.029	45.12	0.027	45.72	0.025	46.32	0.023
43.93	0.031	44.53	0.029	45.13	0.027	45.73	0.024	46.33	0.023
43.95	0.031	44.55	0.029	45.15	0.027	45.75	0.024	46.35	0.023
43.97	0.031	44.57	0.029	45.17	0.026	45.77	0.024	46.37	0.022
43.98	0.031	44.58	0.029	45.18	0.026	45.78	0.024	46.38	0.022
44.00	0.031	44.60	0.029	45.20	0.026	45.80	0.024	46.40	0.022
44.02	0.031	44.62	0.029	45.22	0.026	45.82	0.024	46.42	0.022
44.03	0.031	44.63	0.028	45.23	0.026	45.83	0.024	46.43	0.022
44.05	0.031	44.65	0.028	45.25	0.026	45.85	0.024	46.45	0.022
44.07	0.031	44.67	0.028	45.27	0.026	45.87	0.024	46.47	0.022
44.08	0.031	44.68	0.028	45.28	0.026	45.88	0.024	46.48	0.022
44.10	0.031	44.70	0.028	45.30	0.026	45.90	0.024	46.50	0.022
44.12	0.031	44.72	0.028	45.32	0.026	45.92	0.024	46.52	0.022
44.13	0.030	44.73	0.028	45.33	0.026	45.93	0.024	46.53	0.022
44.15	0.030	44.75	0.028	45.35	0.026	45.95	0.024	46.55	0.022
44.17	0.030	44.77	0.028	45.37	0.026	45.97	0.024	46.57	0.022
44.18	0.030	44.78	0.028	45.38	0.026	45.98	0.024	46.58	0.022
44.20	0.030	44.80	0.028	45.40	0.026	46.00	0.024	46.60	0.022
44.22	0.030	44.82	0.028	45.42	0.026	46.02	0.024	46.62	0.022
44.23	0.030	44.83	0.028	45.43	0.026	46.03	0.024	46.63	0.022
44.25	0.030	44.85	0.028	45.45	0.025	46.05	0.023	46.65	0.022
44.27	0.030	44.87	0.028	45.47	0.025	46.07	0.023	46.67	0.022
44.28	0.030	44.88	0.028	45.48	0.025	46.08	0.023	46.68	0.022
44.30	0.030	44.90	0.027	45.50	0.025	46.10	0.023	46.70	0.021
44.32	0.030	44.92	0.027	45.52	0.025	46.12	0.023	46.72	0.021

Printed values > 10% of Qpeak. nth-point print interval = 1

POST23

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
46.73	0.021	47.33	0.020	47.93	0.018				
46.75	0.021	47.35	0.020	47.95	0.018				
46.77	0.021	47.37	0.020	47.97	0.018				
46.78	0.021	47.38	0.020	47.98	0.018				
46.80	0.021	47.40	0.019	...end	...end				
46.82	0.021	47.42	0.019						
46.83	0.021	47.43	0.019						
46.85	0.021	47.45	0.019						
46.87	0.021	47.47	0.019						
46.88	0.021	47.48	0.019						
46.90	0.021	47.50	0.019						
46.92	0.021	47.52	0.019						
46.93	0.021	47.53	0.019						
46.95	0.021	47.55	0.019						
46.97	0.021	47.57	0.019						
46.98	0.021	47.58	0.019						
47.00	0.021	47.60	0.019						
47.02	0.021	47.62	0.019						
47.03	0.020	47.63	0.019						
47.05	0.020	47.65	0.019						
47.07	0.020	47.67	0.019						
47.08	0.020	47.68	0.019						
47.10	0.020	47.70	0.019						
47.12	0.020	47.72	0.019						
47.13	0.020	47.73	0.019						
47.15	0.020	47.75	0.019						
47.17	0.020	47.77	0.019						
47.18	0.020	47.78	0.018						
47.20	0.020	47.80	0.018						
47.22	0.020	47.82	0.018						
47.23	0.020	47.83	0.018						
47.25	0.020	47.85	0.018						
47.27	0.020	47.87	0.018						
47.28	0.020	47.88	0.018						
47.30	0.020	47.90	0.018						
47.32	0.020	47.92	0.018						

Pond Report

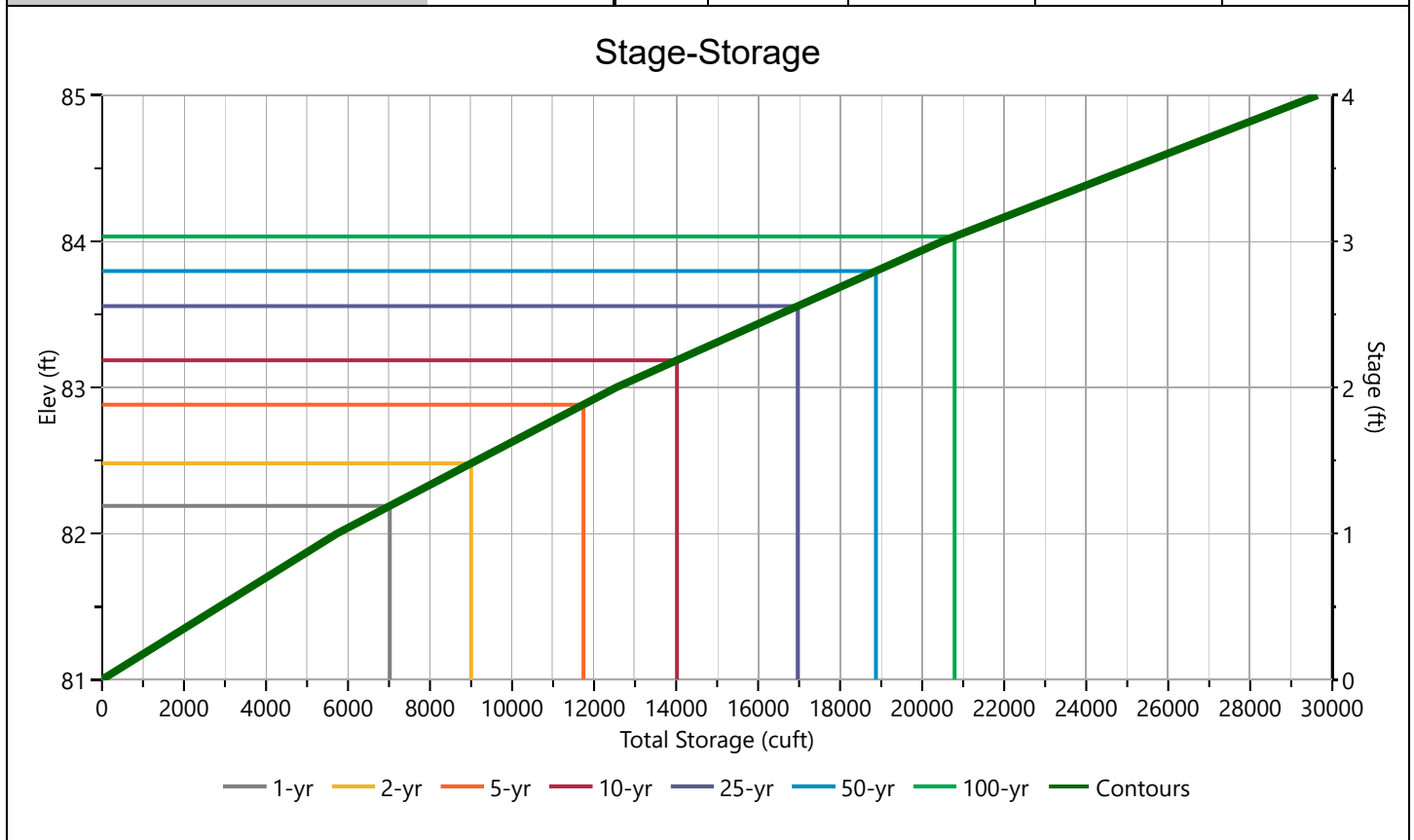
Project Name: 529 Cottage Grove Road Bloomfield
File: 3566-POST.hys

Hydrology Studio v 3.0.0.36

03-13-2025

PROP SWQB #1

Stage-Storage

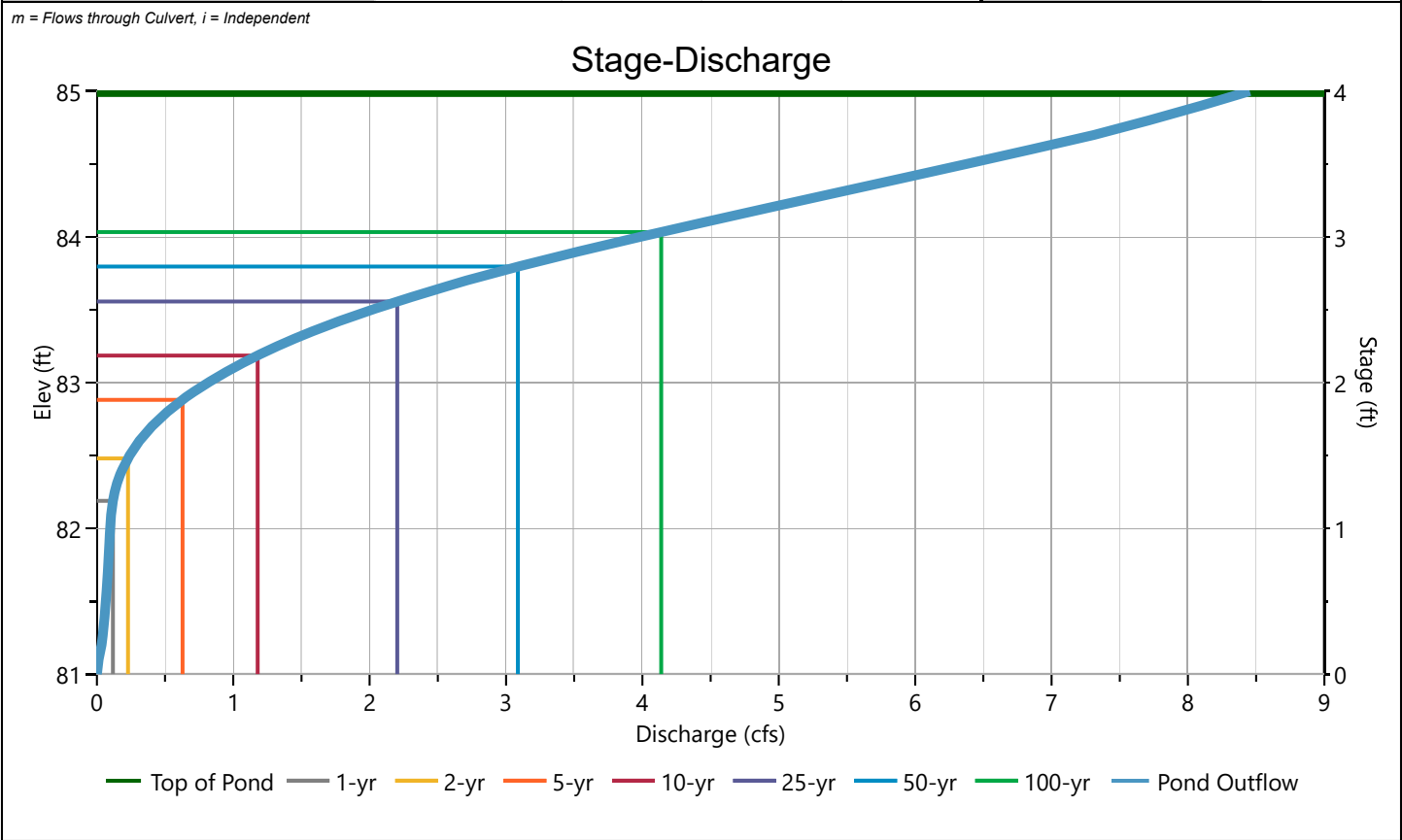
[illegible]

PROP SWQB #1

Stage-Discharge

Culvert / Orifices	Culvert	Orifice			Perforated Riser
		1 (m)	2	3	
Rise, in	15	2			Hole Diameter, in
Span, in	15	2			No. holes
No. Barrels	1	1			Invert Elevation, ft
Invert Elevation, ft	81.00	81.01			Height, ft
Orifice Coefficient, Co	0.60	0.60			Orifice Coefficient, Co
Length, ft	100				
Barrel Slope, %	1				
N-Value, n	0.012				
Weirs	Riser	Weir			Ancillary
		1 (m)	2 (m)	3	
Shape / Type		V-notch	Rectangular		Exfiltration, in/hr
Crest Elevation, ft		82	84		
Crest Length, ft			4		
Angle, deg		30			
Weir Coefficient, Cw		.68			

m = Flows through Culvert, i = Independent



Pond Report

Project Name: 529 Cottage Grove Road Bloomfield
File: 3566-POST.hys

Hydrology Studio v 3.0.0.36

03-13-2025

PROP SWQB #1

Stage-Storage-Discharge Summary

Stage (ft)	Elev. (ft)	Storage (cuft)	Culvert (cfs)	Orifices, cfs			Riser (cfs)	Weirs, cfs			Pf Riser (cfs)	Exfil (cfs)	User (cfs)	Total (cfs)
				1	2	3		1	2	3				
0.00	81.00	0.000	0.000	0.000				0.000	0.000					0.000
1.00	82.00	5,736	0.098 ic	0.098				0.000	0.000					0.098
2.00	83.00	12,544	0.813 ic	0.132				0.681	0.000					0.813
3.00	84.00	20,492	3.984 ic	0.146				3.839 s	0.000					3.984
4.00	85.00	29,641	8.453 oc	0.115				8.338 s	0.000					8.453

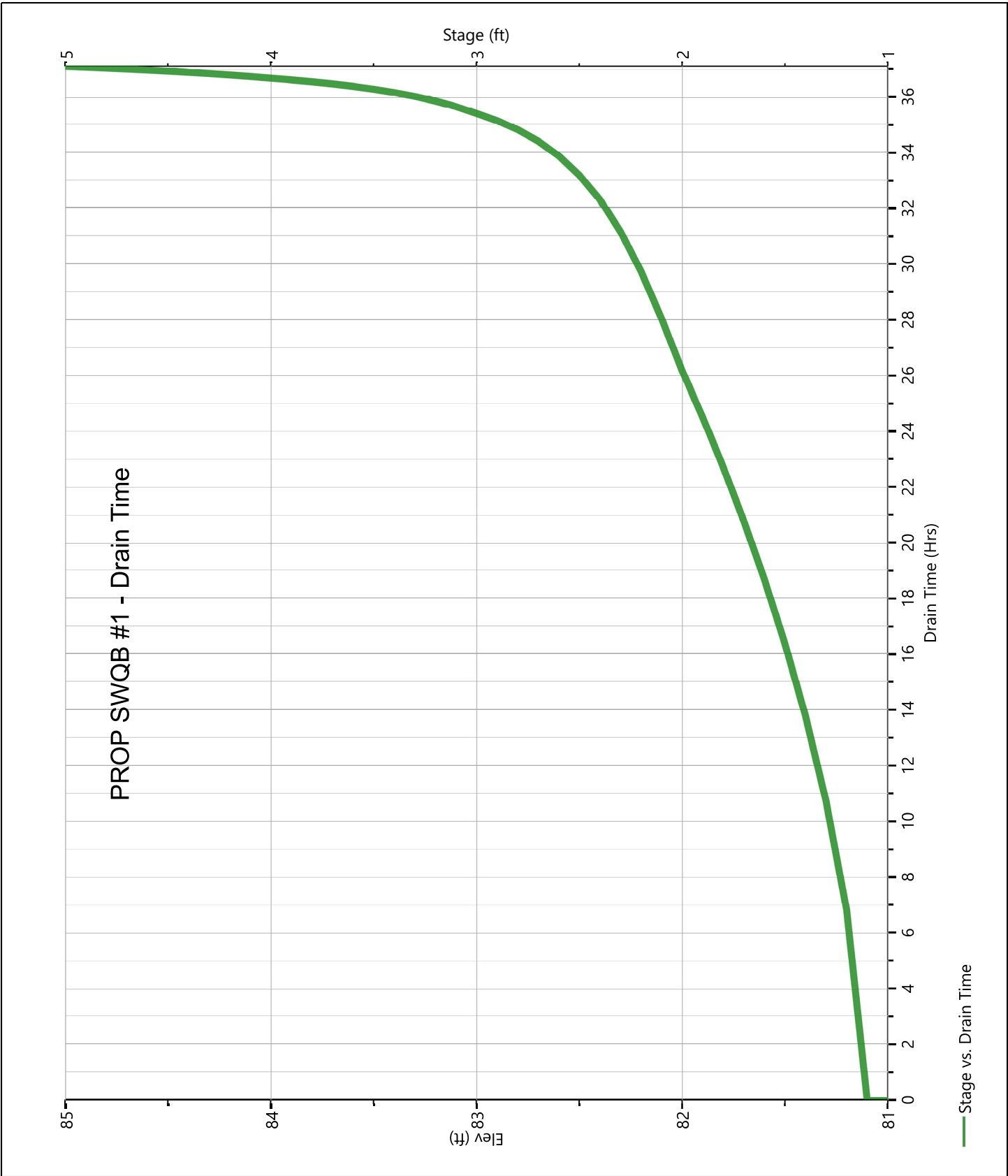
Suffix key: ic = inlet control, oc = outlet control, s = submerged weir

POST27

Pond Report

PROP SWQB #1

Pond Drawdown



Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

PROP SWQB #2

Hyd. No. 5

Hydrograph Type = Pond Route

Peak Flow = 0.156 cfs

Storm Frequency = 1-yr

Time to Peak = 13.05 hrs

Time Interval = 1 min

Hydrograph Volume = 5,325 cuft

Inflow Hydrograph = 2 - SA-A (TO SWQB #2)

Max. Elevation = 82.30 ft

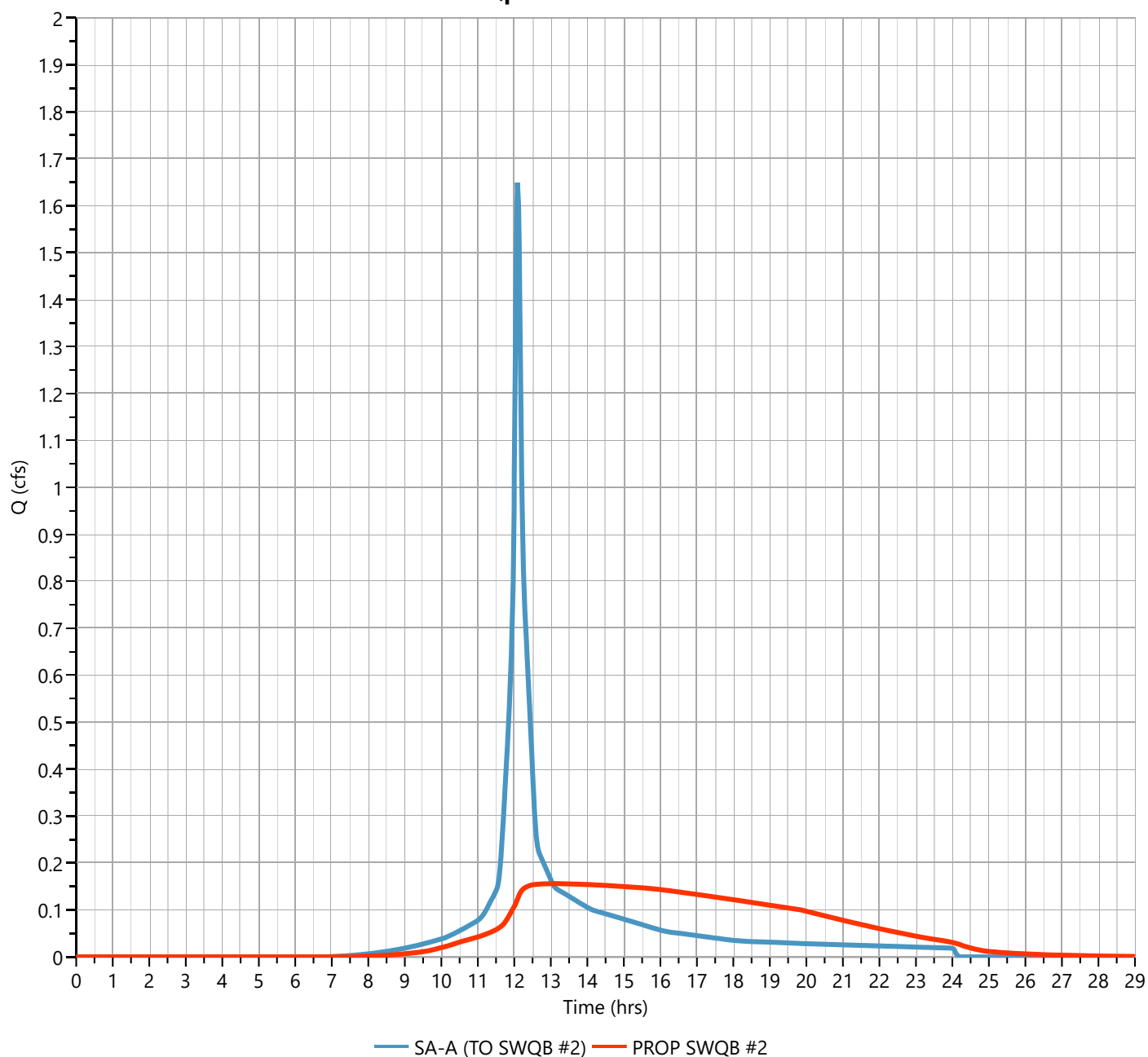
Pond Name = PRO SWQB #2

Max. Storage = 2,472 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 2.99 hrs

Qp = 0.156 cfs



POST29

Hydrograph Discharge Table

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
9.80	0.016	10.40	0.029	11.00	0.042	11.60	0.062	12.20	0.141
9.82	0.016	10.42	0.029	11.02	0.043	11.62	0.063	12.22	0.142
9.83	0.016	10.43	0.030	11.03	0.043	11.63	0.064	12.23	0.144
9.85	0.017	10.45	0.030	11.05	0.044	11.65	0.065	12.25	0.145
9.87	0.017	10.47	0.030	11.07	0.044	11.67	0.067	12.27	0.146
9.88	0.017	10.48	0.031	11.08	0.044	11.68	0.068	12.28	0.147
9.90	0.018	10.50	0.031	11.10	0.045	11.70	0.069	12.30	0.147
9.92	0.018	10.52	0.032	11.12	0.045	11.72	0.071	12.32	0.148
9.93	0.018	10.53	0.032	11.13	0.046	11.73	0.073	12.33	0.149
9.95	0.019	10.55	0.033	11.15	0.046	11.75	0.074	12.35	0.149
9.97	0.019	10.57	0.033	11.17	0.047	11.77	0.076	12.37	0.150
9.98	0.019	10.58	0.034	11.18	0.047	11.78	0.078	12.38	0.151
10.00	0.020	10.60	0.034	11.20	0.048	11.80	0.080	12.40	0.151
10.02	0.020	10.62	0.034	11.22	0.048	11.82	0.082	12.42	0.152
10.03	0.020	10.63	0.035	11.23	0.049	11.83	0.084	12.43	0.152
10.05	0.021	10.65	0.035	11.25	0.049	11.85	0.087	12.45	0.152
10.07	0.021	10.67	0.035	11.27	0.050	11.87	0.089	12.47	0.153
10.08	0.021	10.68	0.036	11.28	0.050	11.88	0.091	12.48	0.153
10.10	0.022	10.70	0.036	11.30	0.051	11.90	0.094	12.50	0.153
10.12	0.022	10.72	0.036	11.32	0.051	11.92	0.096	12.52	0.154
10.13	0.022	10.73	0.037	11.33	0.052	11.93	0.099	12.53	0.154
10.15	0.023	10.75	0.037	11.35	0.052	11.95	0.101	12.55	0.154
10.17	0.023	10.77	0.037	11.37	0.053	11.97	0.103	12.57	0.154
10.18	0.024	10.78	0.038	11.38	0.053	11.98	0.105	12.58	0.154
10.20	0.024	10.80	0.038	11.40	0.054	12.00	0.107	12.60	0.155
10.22	0.024	10.82	0.038	11.42	0.055	12.02	0.109	12.62	0.155
10.23	0.025	10.83	0.039	11.43	0.055	12.03	0.112	12.63	0.155
10.25	0.025	10.85	0.039	11.45	0.056	12.05	0.115	12.65	0.155
10.27	0.025	10.87	0.039	11.47	0.057	12.07	0.119	12.67	0.155
10.28	0.026	10.88	0.040	11.48	0.057	12.08	0.122	12.68	0.155
10.30	0.026	10.90	0.040	11.50	0.058	12.10	0.125	12.70	0.155
10.32	0.027	10.92	0.040	11.52	0.059	12.12	0.129	12.72	0.155
10.33	0.027	10.93	0.041	11.53	0.059	12.13	0.132	12.73	0.155
10.35	0.027	10.95	0.041	11.55	0.060	12.15	0.134	12.75	0.155
10.37	0.028	10.97	0.042	11.57	0.061	12.17	0.137	12.77	0.155
10.38	0.028	10.98	0.042	11.58	0.061	12.18	0.139	12.78	0.155

Printed values > 10% of Qpeak. nth-point print interval = 1

POST30

Hydrograph Discharge Table, cont'd

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
12.80	0.156	13.40	0.156	14.00	0.154	14.60	0.152	15.20	0.149
12.82	0.156	13.42	0.156	14.02	0.154	14.62	0.152	15.22	0.149
12.83	0.156	13.43	0.155	14.03	0.154	14.63	0.151	15.23	0.148
12.85	0.156	13.45	0.155	14.05	0.154	14.65	0.151	15.25	0.148
12.87	0.156	13.47	0.155	14.07	0.154	14.67	0.151	15.27	0.148
12.88	0.156	13.48	0.155	14.08	0.154	14.68	0.151	15.28	0.148
12.90	0.156	13.50	0.155	14.10	0.154	14.70	0.151	15.30	0.148
12.92	0.156	13.52	0.155	14.12	0.154	14.72	0.151	15.32	0.148
12.93	0.156	13.53	0.155	14.13	0.154	14.73	0.151	15.33	0.148
12.95	0.156	13.55	0.155	14.15	0.153	14.75	0.151	15.35	0.148
12.97	0.156	13.57	0.155	14.17	0.153	14.77	0.151	15.37	0.148
12.98	0.156	13.58	0.155	14.18	0.153	14.78	0.151	15.38	0.148
13.00	0.156	13.60	0.155	14.20	0.153	14.80	0.151	15.40	0.148
13.02	0.156	13.62	0.155	14.22	0.153	14.82	0.151	15.42	0.147
13.03	0.156	13.63	0.155	14.23	0.153	14.83	0.151	15.43	0.147
13.05	0.156	13.65	0.155	14.25	0.153	14.85	0.150	15.45	0.147
13.07	0.156	13.67	0.155	14.27	0.153	14.87	0.150	15.47	0.147
13.08	0.156	13.68	0.155	14.28	0.153	14.88	0.150	15.48	0.147
13.10	0.156	13.70	0.155	14.30	0.153	14.90	0.150	15.50	0.147
13.12	0.156	13.72	0.155	14.32	0.153	14.92	0.150	15.52	0.147
13.13	0.156	13.73	0.155	14.33	0.153	14.93	0.150	15.53	0.147
13.15	0.156	13.75	0.155	14.35	0.153	14.95	0.150	15.55	0.147
13.17	0.156	13.77	0.155	14.37	0.153	14.97	0.150	15.57	0.147
13.18	0.156	13.78	0.155	14.38	0.153	14.98	0.150	15.58	0.146
13.20	0.156	13.80	0.155	14.40	0.152	15.00	0.150	15.60	0.146
13.22	0.156	13.82	0.155	14.42	0.152	15.02	0.150	15.62	0.146
13.23	0.156	13.83	0.155	14.43	0.152	15.03	0.150	15.63	0.146
13.25	0.156	13.85	0.155	14.45	0.152	15.05	0.149	15.65	0.146
13.27	0.156	13.87	0.154	14.47	0.152	15.07	0.149	15.67	0.146
13.28	0.156	13.88	0.154	14.48	0.152	15.08	0.149	15.68	0.146
13.30	0.156	13.90	0.154	14.50	0.152	15.10	0.149	15.70	0.146
13.32	0.156	13.92	0.154	14.52	0.152	15.12	0.149	15.72	0.146
13.33	0.156	13.93	0.154	14.53	0.152	15.13	0.149	15.73	0.146
13.35	0.156	13.95	0.154	14.55	0.152	15.15	0.149	15.75	0.145
13.37	0.156	13.97	0.154	14.57	0.152	15.17	0.149	15.77	0.145
13.38	0.156	13.98	0.154	14.58	0.152	15.18	0.149	15.78	0.145

Printed values > 10% of Qpeak. nth-point print interval = 1

POST31

Hydrograph Discharge Table, cont'd

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
15.80	0.145	16.40	0.139	17.00	0.133	17.60	0.126	18.20	0.119
15.82	0.145	16.42	0.139	17.02	0.133	17.62	0.126	18.22	0.119
15.83	0.145	16.43	0.139	17.03	0.133	17.63	0.126	18.23	0.119
15.85	0.145	16.45	0.139	17.05	0.132	17.65	0.126	18.25	0.119
15.87	0.145	16.47	0.139	17.07	0.132	17.67	0.126	18.27	0.119
15.88	0.144	16.48	0.138	17.08	0.132	17.68	0.125	18.28	0.118
15.90	0.144	16.50	0.138	17.10	0.132	17.70	0.125	18.30	0.118
15.92	0.144	16.52	0.138	17.12	0.132	17.72	0.125	18.32	0.118
15.93	0.144	16.53	0.138	17.13	0.131	17.73	0.125	18.33	0.118
15.95	0.144	16.55	0.138	17.15	0.131	17.75	0.125	18.35	0.118
15.97	0.144	16.57	0.138	17.17	0.131	17.77	0.124	18.37	0.117
15.98	0.143	16.58	0.137	17.18	0.131	17.78	0.124	18.38	0.117
16.00	0.143	16.60	0.137	17.20	0.131	17.80	0.124	18.40	0.117
16.02	0.143	16.62	0.137	17.22	0.131	17.82	0.124	18.42	0.117
16.03	0.143	16.63	0.137	17.23	0.130	17.83	0.124	18.43	0.117
16.05	0.143	16.65	0.137	17.25	0.130	17.85	0.123	18.45	0.116
16.07	0.143	16.67	0.136	17.27	0.130	17.87	0.123	18.47	0.116
16.08	0.142	16.68	0.136	17.28	0.130	17.88	0.123	18.48	0.116
16.10	0.142	16.70	0.136	17.30	0.130	17.90	0.123	18.50	0.116
16.12	0.142	16.72	0.136	17.32	0.129	17.92	0.123	18.52	0.116
16.13	0.142	16.73	0.136	17.33	0.129	17.93	0.122	18.53	0.115
16.15	0.142	16.75	0.136	17.35	0.129	17.95	0.122	18.55	0.115
16.17	0.142	16.77	0.135	17.37	0.129	17.97	0.122	18.57	0.115
16.18	0.141	16.78	0.135	17.38	0.129	17.98	0.122	18.58	0.115
16.20	0.141	16.80	0.135	17.40	0.129	18.00	0.122	18.60	0.115
16.22	0.141	16.82	0.135	17.42	0.128	18.02	0.121	18.62	0.114
16.23	0.141	16.83	0.135	17.43	0.128	18.03	0.121	18.63	0.114
16.25	0.141	16.85	0.135	17.45	0.128	18.05	0.121	18.65	0.114
16.27	0.141	16.87	0.134	17.47	0.128	18.07	0.121	18.67	0.114
16.28	0.140	16.88	0.134	17.48	0.128	18.08	0.121	18.68	0.114
16.30	0.140	16.90	0.134	17.50	0.127	18.10	0.121	18.70	0.113
16.32	0.140	16.92	0.134	17.52	0.127	18.12	0.120	18.72	0.113
16.33	0.140	16.93	0.134	17.53	0.127	18.13	0.120	18.73	0.113
16.35	0.140	16.95	0.133	17.55	0.127	18.15	0.120	18.75	0.113
16.37	0.140	16.97	0.133	17.57	0.127	18.17	0.120	18.77	0.113
16.38	0.139	16.98	0.133	17.58	0.126	18.18	0.120	18.78	0.112

Printed values > 10% of Qpeak. nth-point print interval = 1

POST32

Hydrograph Discharge Table, cont'd

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
18.80	0.112	19.40	0.105	20.00	0.097	20.60	0.085	21.20	0.074
18.82	0.112	19.42	0.105	20.02	0.097	20.62	0.085	21.22	0.074
18.83	0.112	19.43	0.105	20.03	0.096	20.63	0.085	21.23	0.074
18.85	0.112	19.45	0.105	20.05	0.096	20.65	0.084	21.25	0.073
18.87	0.112	19.47	0.104	20.07	0.096	20.67	0.084	21.27	0.073
18.88	0.111	19.48	0.104	20.08	0.095	20.68	0.084	21.28	0.073
18.90	0.111	19.50	0.104	20.10	0.095	20.70	0.084	21.30	0.072
18.92	0.111	19.52	0.104	20.12	0.095	20.72	0.083	21.32	0.072
18.93	0.111	19.53	0.104	20.13	0.094	20.73	0.083	21.33	0.072
18.95	0.111	19.55	0.103	20.15	0.094	20.75	0.083	21.35	0.071
18.97	0.110	19.57	0.103	20.17	0.094	20.77	0.082	21.37	0.071
18.98	0.110	19.58	0.103	20.18	0.093	20.78	0.082	21.38	0.071
19.00	0.110	19.60	0.103	20.20	0.093	20.80	0.082	21.40	0.071
19.02	0.110	19.62	0.103	20.22	0.093	20.82	0.081	21.42	0.070
19.03	0.110	19.63	0.103	20.23	0.092	20.83	0.081	21.43	0.070
19.05	0.109	19.65	0.102	20.25	0.092	20.85	0.081	21.45	0.070
19.07	0.109	19.67	0.102	20.27	0.092	20.87	0.080	21.47	0.069
19.08	0.109	19.68	0.102	20.28	0.091	20.88	0.080	21.48	0.069
19.10	0.109	19.70	0.102	20.30	0.091	20.90	0.080	21.50	0.069
19.12	0.109	19.72	0.102	20.32	0.091	20.92	0.079	21.52	0.068
19.13	0.108	19.73	0.101	20.33	0.091	20.93	0.079	21.53	0.068
19.15	0.108	19.75	0.101	20.35	0.090	20.95	0.079	21.55	0.068
19.17	0.108	19.77	0.101	20.37	0.090	20.97	0.078	21.57	0.068
19.18	0.108	19.78	0.101	20.38	0.090	20.98	0.078	21.58	0.067
19.20	0.108	19.80	0.101	20.40	0.089	21.00	0.078	21.60	0.067
19.22	0.107	19.82	0.100	20.42	0.089	21.02	0.078	21.62	0.067
19.23	0.107	19.83	0.100	20.43	0.089	21.03	0.077	21.63	0.066
19.25	0.107	19.85	0.100	20.45	0.088	21.05	0.077	21.65	0.066
19.27	0.107	19.87	0.100	20.47	0.088	21.07	0.077	21.67	0.066
19.28	0.107	19.88	0.099	20.48	0.088	21.08	0.076	21.68	0.066
19.30	0.106	19.90	0.099	20.50	0.087	21.10	0.076	21.70	0.065
19.32	0.106	19.92	0.099	20.52	0.087	21.12	0.076	21.72	0.065
19.33	0.106	19.93	0.098	20.53	0.087	21.13	0.075	21.73	0.065
19.35	0.106	19.95	0.098	20.55	0.086	21.15	0.075	21.75	0.064
19.37	0.106	19.97	0.098	20.57	0.086	21.17	0.075	21.77	0.064
19.38	0.105	19.98	0.097	20.58	0.086	21.18	0.075	21.78	0.064

Hydrograph Discharge Table, cont'd

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
21.80	0.063	22.40	0.053	23.00	0.044	23.60	0.036	24.20	0.026
21.82	0.063	22.42	0.053	23.02	0.044	23.62	0.036	24.22	0.026
21.83	0.063	22.43	0.053	23.03	0.043	23.63	0.036	24.23	0.025
21.85	0.063	22.45	0.053	23.05	0.043	23.65	0.035	24.25	0.025
21.87	0.062	22.47	0.052	23.07	0.043	23.67	0.035	24.27	0.024
21.88	0.062	22.48	0.052	23.08	0.043	23.68	0.035	24.28	0.024
21.90	0.062	22.50	0.052	23.10	0.042	23.70	0.035	24.30	0.023
21.92	0.061	22.52	0.051	23.12	0.042	23.72	0.035	24.32	0.023
21.93	0.061	22.53	0.051	23.13	0.042	23.73	0.035	24.33	0.023
21.95	0.061	22.55	0.051	23.15	0.042	23.75	0.034	24.35	0.022
21.97	0.061	22.57	0.051	23.17	0.042	23.77	0.034	24.37	0.022
21.98	0.060	22.58	0.050	23.18	0.041	23.78	0.034	24.38	0.021
22.00	0.060	22.60	0.050	23.20	0.041	23.80	0.034	24.40	0.021
22.02	0.060	22.62	0.050	23.22	0.041	23.82	0.033	24.42	0.021
22.03	0.060	22.63	0.050	23.23	0.041	23.83	0.033	24.43	0.020
22.05	0.059	22.65	0.050	23.25	0.040	23.85	0.033	24.45	0.020
22.07	0.059	22.67	0.049	23.27	0.040	23.87	0.033	24.47	0.020
22.08	0.059	22.68	0.049	23.28	0.040	23.88	0.032	24.48	0.019
22.10	0.058	22.70	0.049	23.30	0.040	23.90	0.032	24.50	0.019
22.12	0.058	22.72	0.049	23.32	0.039	23.92	0.032	24.52	0.019
22.13	0.058	22.73	0.048	23.33	0.039	23.93	0.032	24.53	0.018
22.15	0.058	22.75	0.048	23.35	0.039	23.95	0.031	24.55	0.018
22.17	0.057	22.77	0.048	23.37	0.039	23.97	0.031	24.57	0.018
22.18	0.057	22.78	0.048	23.38	0.039	23.98	0.031	24.58	0.017
22.20	0.057	22.80	0.047	23.40	0.038	24.00	0.031	24.60	0.017
22.22	0.056	22.82	0.047	23.42	0.038	24.02	0.030	24.62	0.017
22.23	0.056	22.83	0.047	23.43	0.038	24.03	0.030	24.63	0.016
22.25	0.056	22.85	0.046	23.45	0.038	24.05	0.030	24.65	0.016
22.27	0.056	22.87	0.046	23.47	0.038	24.07	0.030	24.67	0.016
22.28	0.055	22.88	0.046	23.48	0.037	24.08	0.029	24.68	0.015
22.30	0.055	22.90	0.046	23.50	0.037	24.10	0.029	...end	...end
22.32	0.055	22.92	0.045	23.52	0.037	24.12	0.029		
22.33	0.054	22.93	0.045	23.53	0.037	24.13	0.028		
22.35	0.054	22.95	0.045	23.55	0.037	24.15	0.028		
22.37	0.054	22.97	0.045	23.57	0.036	24.17	0.027		
22.38	0.054	22.98	0.044	23.58	0.036	24.18	0.027		

Printed values > 10% of Qpeak. nth-point print interval = 1

POST34

Pond Report

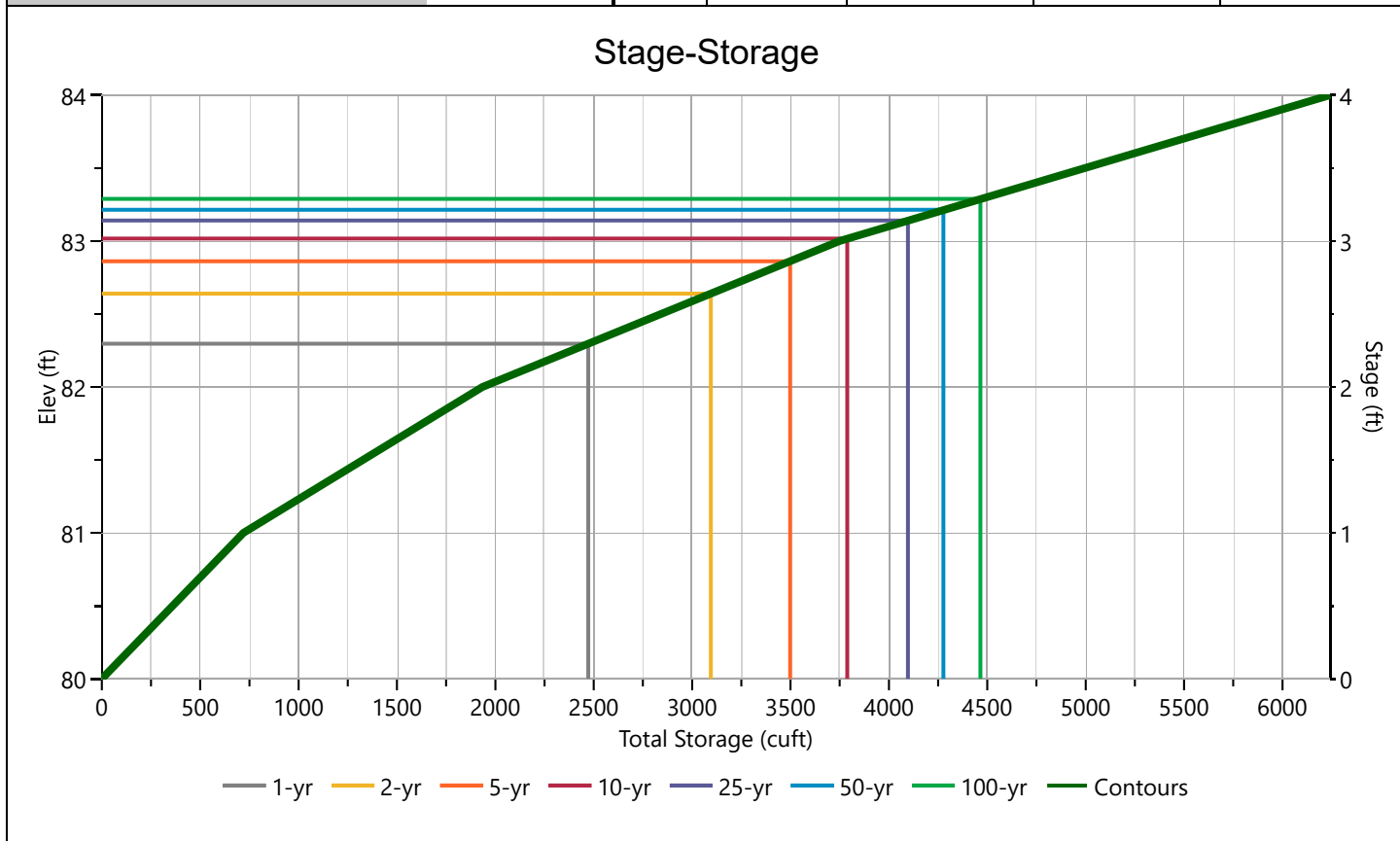
Project Name: 529 Cottage Grove Road Bloomfield
File: 3566-POST.hys

Hydrology Studio v 3.0.0.36

03-13-2025

PRO SWQB #2

Stage-Storage

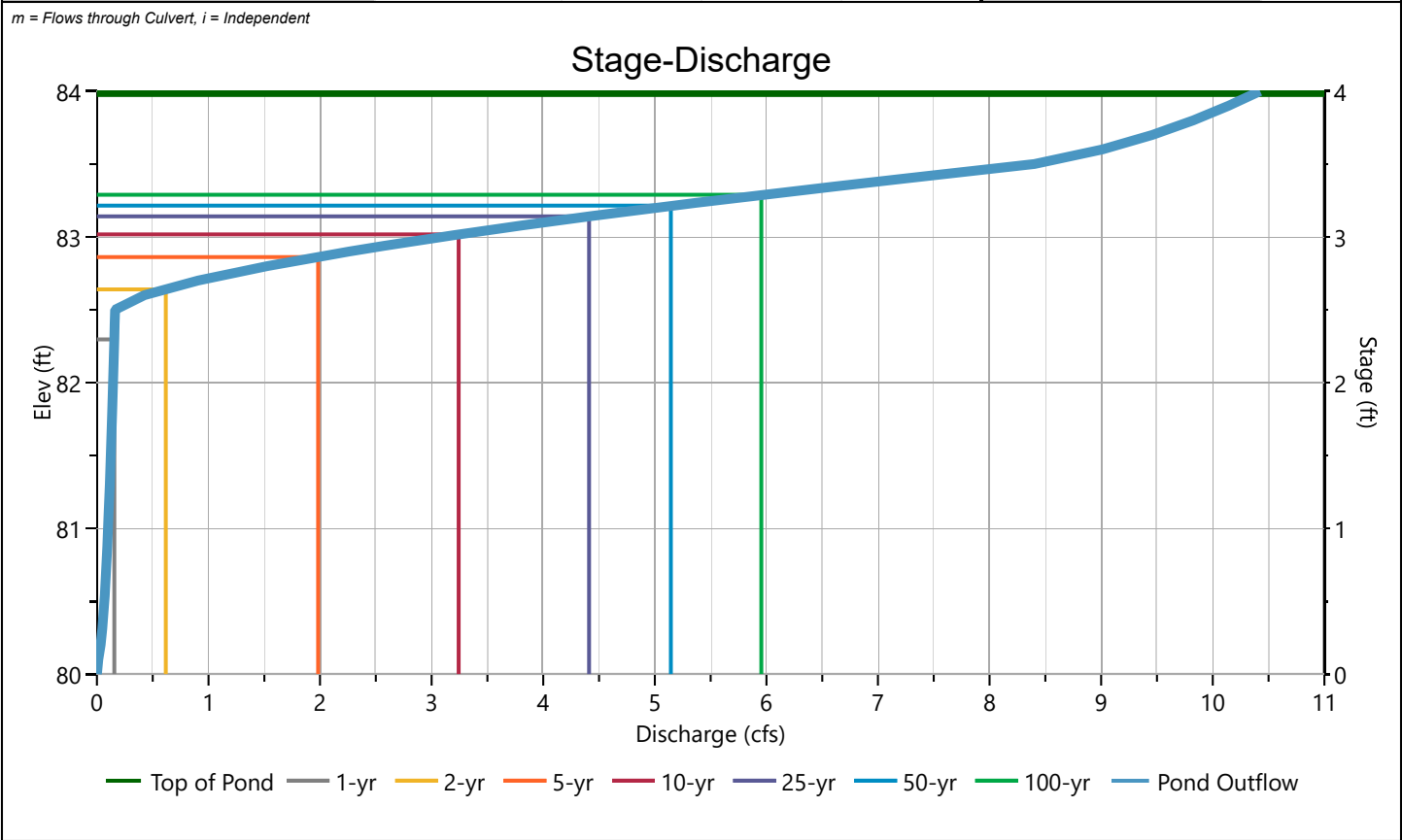
[illegible]**POST35**

PRO SWQB #2

Stage-Discharge

Culvert / Orifices	Culvert	Orifice			Perforated Riser
		1 (i)	2	3	
Rise, in	15	2			Hole Diameter, in
Span, in	15	2			No. holes
No. Barrels	1	1			Invert Elevation, ft
Invert Elevation, ft	80.00	80.01			Height, ft
Orifice Coefficient, Co	0.60	0.60			Orifice Coefficient, Co
Length, ft	50				
Barrel Slope, %	1				
N-Value, n	0.012				
Weirs	Riser	Weir			Ancillary
		1 (m)	2	3	
Shape / Type		Rectangular			Exfiltration, in/hr
Crest Elevation, ft		82.5	83		
Crest Length, ft		2.5			
Angle, deg					
Weir Coefficient, Cw		3.3	3.3		

m = Flows through Culvert, i = Independent



Pond Report

Project Name: 529 Cottage Grove Road Bloomfield
File: 3566-POST.hys

Hydrology Studio v 3.0.0.36

03-13-2025

PRO SWQB #2

Stage-Storage-Discharge Summary

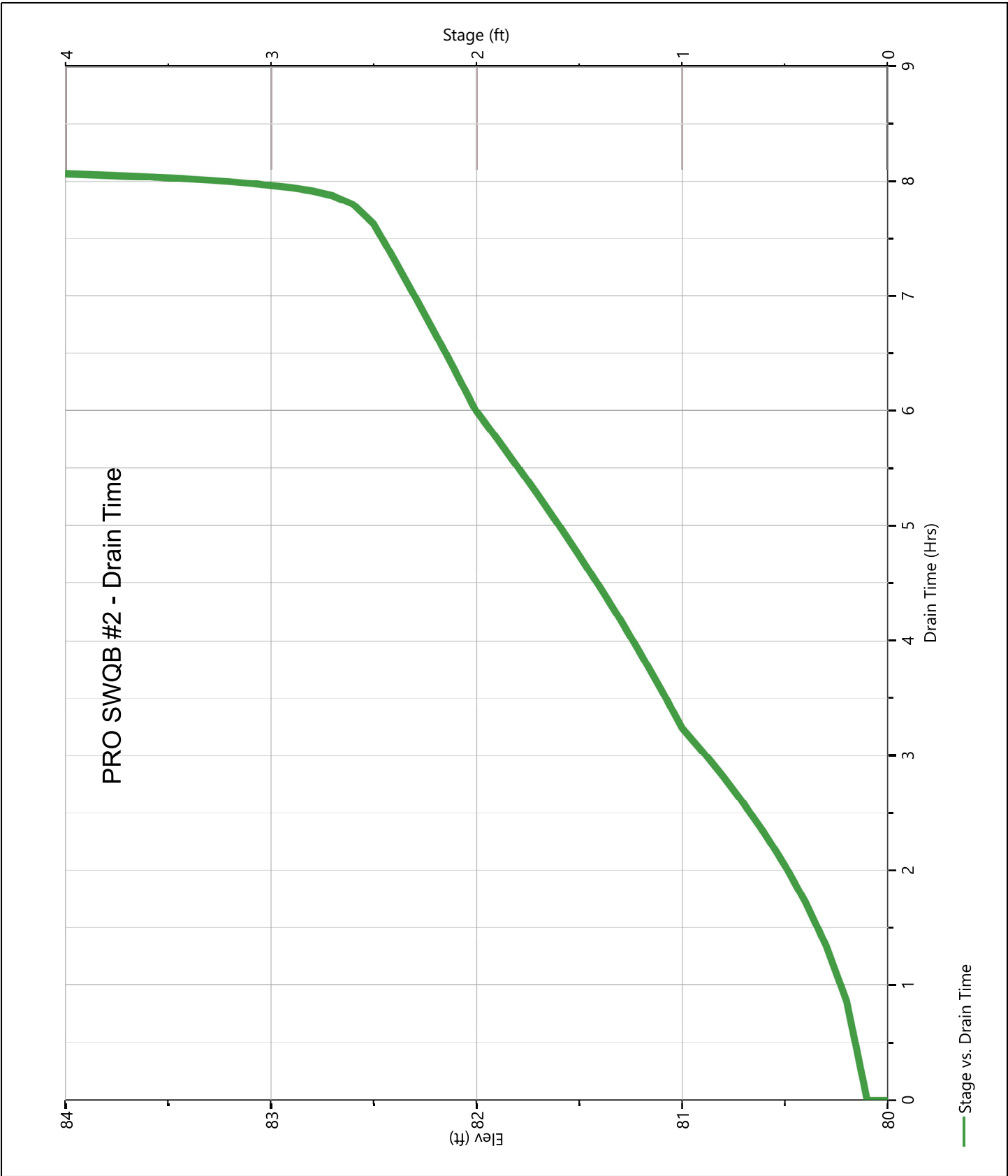
[illegible]

Suffix key: ic = inlet control, oc = outlet control, s = submerged weir

POST37

PRO SWQB #2

Pond Drawdown



Hydrograph Report

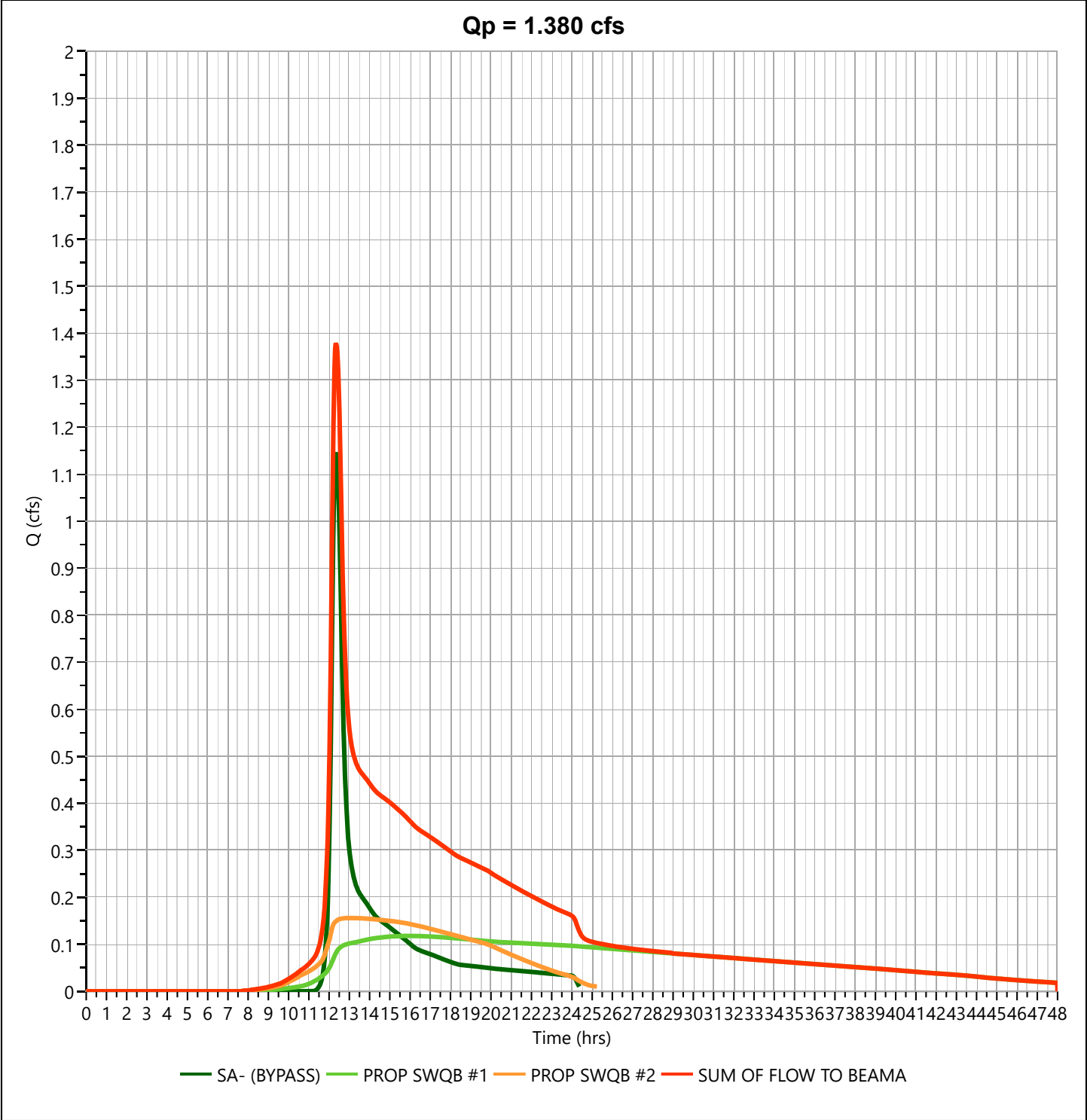
Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield
File: 3566-POST.hys
03-13-2025

Post SUM OF FLOW TO BEAMA

Hyd. No. 6

Hydrograph Type	= Junction	Peak Flow	= 1.380 cfs
Storm Frequency	= 1-yr	Time to Peak	= 12.35 hrs
Time Interval	= 1 min	Hydrograph Volume	= 21,195 cuft
Inflow Hydrographs	= 3	Total Contrib. Area	= 2.466 ac



Hydrograph Discharge Table

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.70	0.142	12.30	1.365	12.90	0.612	13.50	0.470	14.10	0.436
11.72	0.149	12.32	1.374	12.92	0.601	13.52	0.469	14.12	0.435
11.73	0.157	12.33	1.379	12.93	0.590	13.53	0.468	14.13	0.434
11.75	0.165	12.35	1.380	12.95	0.581	13.55	0.467	14.15	0.433
11.77	0.174	12.37	1.377	12.97	0.573	13.57	0.466	14.17	0.432
11.78	0.184	12.38	1.372	12.98	0.565	13.58	0.465	14.18	0.431
11.80	0.196	12.40	1.363	13.00	0.558	13.60	0.464	14.20	0.430
11.82	0.208	12.42	1.351	13.02	0.551	13.62	0.463	14.22	0.430
11.83	0.221	12.43	1.336	13.03	0.545	13.63	0.463	14.23	0.429
11.85	0.236	12.45	1.318	13.05	0.540	13.65	0.462	14.25	0.428
11.87	0.251	12.47	1.297	13.07	0.535	13.67	0.461	14.27	0.427
11.88	0.268	12.48	1.274	13.08	0.530	13.68	0.460	14.28	0.426
11.90	0.286	12.50	1.247	13.10	0.526	13.70	0.459	14.30	0.425
11.92	0.306	12.52	1.218	13.12	0.522	13.72	0.458	14.32	0.425
11.93	0.328	12.53	1.186	13.13	0.519	13.73	0.457	14.33	0.424
11.95	0.353	12.55	1.153	13.15	0.515	13.75	0.457	14.35	0.423
11.97	0.381	12.57	1.117	13.17	0.512	13.77	0.456	14.37	0.423
11.98	0.413	12.58	1.080	13.18	0.509	13.78	0.455	14.38	0.422
12.00	0.451	12.60	1.042	13.20	0.505	13.80	0.454	14.40	0.421
12.02	0.495	12.62	1.004	13.22	0.502	13.82	0.453	14.42	0.421
12.03	0.544	12.63	0.967	13.23	0.500	13.83	0.452	14.43	0.420
12.05	0.598	12.65	0.930	13.25	0.497	13.85	0.451	14.45	0.420
12.07	0.656	12.67	0.896	13.27	0.494	13.87	0.450	14.47	0.419
12.08	0.717	12.68	0.864	13.28	0.492	13.88	0.449	14.48	0.418
12.10	0.779	12.70	0.835	13.30	0.489	13.90	0.448	14.50	0.418
12.12	0.842	12.72	0.808	13.32	0.487	13.92	0.447	14.52	0.417
12.13	0.906	12.73	0.783	13.33	0.485	13.93	0.446	14.53	0.417
12.15	0.969	12.75	0.760	13.35	0.483	13.95	0.445	14.55	0.416
12.17	1.033	12.77	0.739	13.37	0.481	13.97	0.444	14.57	0.416
12.18	1.094	12.78	0.719	13.38	0.479	13.98	0.443	14.58	0.415
12.20	1.153	12.80	0.700	13.40	0.478	14.00	0.442	14.60	0.415
12.22	1.207	12.82	0.683	13.42	0.476	14.02	0.441	14.62	0.414
12.23	1.255	12.83	0.666	13.43	0.475	14.03	0.440	14.63	0.414
12.25	1.295	12.85	0.651	13.45	0.473	14.05	0.439	14.65	0.413
12.27	1.326	12.87	0.637	13.47	0.472	14.07	0.438	14.67	0.413
12.28	1.349	12.88	0.624	13.48	0.471	14.08	0.437	14.68	0.412

Hydrograph Discharge Table, cont'd

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
14.70	0.412	15.30	0.391	15.90	0.367	16.50	0.342	17.10	0.325
14.72	0.411	15.32	0.390	15.92	0.366	16.52	0.342	17.12	0.325
14.73	0.411	15.33	0.390	15.93	0.365	16.53	0.341	17.13	0.324
14.75	0.410	15.35	0.389	15.95	0.364	16.55	0.341	17.15	0.324
14.77	0.410	15.37	0.388	15.97	0.363	16.57	0.340	17.17	0.323
14.78	0.409	15.38	0.388	15.98	0.363	16.58	0.340	17.18	0.323
14.80	0.408	15.40	0.387	16.00	0.362	16.60	0.339	17.20	0.322
14.82	0.408	15.42	0.386	16.02	0.361	16.62	0.339	17.22	0.322
14.83	0.407	15.43	0.386	16.03	0.360	16.63	0.339	17.23	0.321
14.85	0.407	15.45	0.385	16.05	0.360	16.65	0.338	17.25	0.321
14.87	0.406	15.47	0.385	16.07	0.359	16.67	0.338	17.27	0.320
14.88	0.406	15.48	0.384	16.08	0.358	16.68	0.337	17.28	0.320
14.90	0.405	15.50	0.383	16.10	0.357	16.70	0.337	17.30	0.319
14.92	0.405	15.52	0.383	16.12	0.356	16.72	0.336	17.32	0.319
14.93	0.404	15.53	0.382	16.13	0.356	16.73	0.336	17.33	0.318
14.95	0.403	15.55	0.381	16.15	0.355	16.75	0.335	17.35	0.318
14.97	0.403	15.57	0.381	16.17	0.354	16.77	0.335	17.37	0.317
14.98	0.402	15.58	0.380	16.18	0.354	16.78	0.334	17.38	0.317
15.00	0.402	15.60	0.379	16.20	0.353	16.80	0.334	17.40	0.316
15.02	0.401	15.62	0.379	16.22	0.352	16.82	0.333	17.42	0.316
15.03	0.401	15.63	0.378	16.23	0.351	16.83	0.333	17.43	0.315
15.05	0.400	15.65	0.377	16.25	0.351	16.85	0.332	17.45	0.315
15.07	0.399	15.67	0.377	16.27	0.350	16.87	0.332	17.47	0.314
15.08	0.399	15.68	0.376	16.28	0.349	16.88	0.331	17.48	0.314
15.10	0.398	15.70	0.375	16.30	0.349	16.90	0.331	17.50	0.313
15.12	0.398	15.72	0.375	16.32	0.348	16.92	0.331	17.52	0.313
15.13	0.397	15.73	0.374	16.33	0.348	16.93	0.330	17.53	0.312
15.15	0.396	15.75	0.373	16.35	0.347	16.95	0.330	17.55	0.312
15.17	0.396	15.77	0.372	16.37	0.346	16.97	0.329	17.57	0.311
15.18	0.395	15.78	0.372	16.38	0.346	16.98	0.329	17.58	0.311
15.20	0.395	15.80	0.371	16.40	0.345	17.00	0.328	17.60	0.310
15.22	0.394	15.82	0.370	16.42	0.345	17.02	0.328	17.62	0.310
15.23	0.393	15.83	0.370	16.43	0.344	17.03	0.327	17.63	0.309
15.25	0.393	15.85	0.369	16.45	0.344	17.05	0.327	17.65	0.309
15.27	0.392	15.87	0.368	16.47	0.343	17.07	0.326	17.67	0.308
15.28	0.392	15.88	0.367	16.48	0.343	17.08	0.326	17.68	0.308

Hydrograph Discharge Table, cont'd

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
17.70	0.307	18.30	0.289	18.90	0.276	19.50	0.264	20.10	0.249
17.72	0.307	18.32	0.288	18.92	0.275	19.52	0.263	20.12	0.249
17.73	0.306	18.33	0.288	18.93	0.275	19.53	0.263	20.13	0.248
17.75	0.306	18.35	0.287	18.95	0.275	19.55	0.263	20.15	0.248
17.77	0.305	18.37	0.287	18.97	0.274	19.57	0.262	20.17	0.247
17.78	0.304	18.38	0.287	18.98	0.274	19.58	0.262	20.18	0.247
17.80	0.304	18.40	0.286	19.00	0.274	19.60	0.261	20.20	0.246
17.82	0.303	18.42	0.286	19.02	0.273	19.62	0.261	20.22	0.246
17.83	0.303	18.43	0.285	19.03	0.273	19.63	0.261	20.23	0.245
17.85	0.302	18.45	0.285	19.05	0.273	19.65	0.260	20.25	0.245
17.87	0.302	18.47	0.285	19.07	0.272	19.67	0.260	20.27	0.244
17.88	0.301	18.48	0.284	19.08	0.272	19.68	0.260	20.28	0.244
17.90	0.301	18.50	0.284	19.10	0.272	19.70	0.259	20.30	0.244
17.92	0.300	18.52	0.284	19.12	0.271	19.72	0.259	20.32	0.243
17.93	0.300	18.53	0.283	19.13	0.271	19.73	0.259	20.33	0.243
17.95	0.299	18.55	0.283	19.15	0.271	19.75	0.258	20.35	0.242
17.97	0.299	18.57	0.283	19.17	0.270	19.77	0.258	20.37	0.242
17.98	0.298	18.58	0.282	19.18	0.270	19.78	0.258	20.38	0.241
18.00	0.298	18.60	0.282	19.20	0.270	19.80	0.257	20.40	0.241
18.02	0.297	18.62	0.282	19.22	0.269	19.82	0.257	20.42	0.241
18.03	0.297	18.63	0.281	19.23	0.269	19.83	0.257	20.43	0.240
18.05	0.296	18.65	0.281	19.25	0.269	19.85	0.256	20.45	0.240
18.07	0.295	18.67	0.281	19.27	0.268	19.87	0.256	20.47	0.239
18.08	0.295	18.68	0.280	19.28	0.268	19.88	0.255	20.48	0.239
18.10	0.294	18.70	0.280	19.30	0.268	19.90	0.255	20.50	0.239
18.12	0.294	18.72	0.280	19.32	0.267	19.92	0.254	20.52	0.238
18.13	0.293	18.73	0.279	19.33	0.267	19.93	0.254	20.53	0.238
18.15	0.293	18.75	0.279	19.35	0.267	19.95	0.253	20.55	0.237
18.17	0.292	18.77	0.279	19.37	0.266	19.97	0.253	20.57	0.237
18.18	0.292	18.78	0.278	19.38	0.266	19.98	0.253	20.58	0.236
18.20	0.291	18.80	0.278	19.40	0.266	20.00	0.252	20.60	0.236
18.22	0.291	18.82	0.277	19.42	0.265	20.02	0.252	20.62	0.236
18.23	0.290	18.83	0.277	19.43	0.265	20.03	0.251	20.63	0.235
18.25	0.290	18.85	0.277	19.45	0.265	20.05	0.251	20.65	0.235
18.27	0.290	18.87	0.276	19.47	0.264	20.07	0.250	20.67	0.234
18.28	0.289	18.88	0.276	19.48	0.264	20.08	0.250	20.68	0.234

Hydrograph Discharge Table, cont'd

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
20.70	0.234	21.30	0.219	21.90	0.205	22.50	0.191	23.10	0.178
20.72	0.233	21.32	0.218	21.92	0.204	22.52	0.191	23.12	0.178
20.73	0.233	21.33	0.218	21.93	0.204	22.53	0.190	23.13	0.177
20.75	0.232	21.35	0.218	21.95	0.204	22.55	0.190	23.15	0.177
20.77	0.232	21.37	0.217	21.97	0.203	22.57	0.190	23.17	0.177
20.78	0.232	21.38	0.217	21.98	0.203	22.58	0.189	23.18	0.176
20.80	0.231	21.40	0.216	22.00	0.202	22.60	0.189	23.20	0.176
20.82	0.231	21.42	0.216	22.02	0.202	22.62	0.189	23.22	0.176
20.83	0.230	21.43	0.216	22.03	0.202	22.63	0.188	23.23	0.175
20.85	0.230	21.45	0.215	22.05	0.201	22.65	0.188	23.25	0.175
20.87	0.229	21.47	0.215	22.07	0.201	22.67	0.188	23.27	0.175
20.88	0.229	21.48	0.215	22.08	0.201	22.68	0.187	23.28	0.174
20.90	0.229	21.50	0.214	22.10	0.200	22.70	0.187	23.30	0.174
20.92	0.228	21.52	0.214	22.12	0.200	22.72	0.187	23.32	0.174
20.93	0.228	21.53	0.213	22.13	0.199	22.73	0.186	23.33	0.173
20.95	0.227	21.55	0.213	22.15	0.199	22.75	0.186	23.35	0.173
20.97	0.227	21.57	0.213	22.17	0.199	22.77	0.186	23.37	0.173
20.98	0.227	21.58	0.212	22.18	0.198	22.78	0.185	23.38	0.172
21.00	0.226	21.60	0.212	22.20	0.198	22.80	0.185	23.40	0.172
21.02	0.226	21.62	0.211	22.22	0.197	22.82	0.184	23.42	0.172
21.03	0.225	21.63	0.211	22.23	0.197	22.83	0.184	23.43	0.172
21.05	0.225	21.65	0.211	22.25	0.197	22.85	0.184	23.45	0.171
21.07	0.225	21.67	0.210	22.27	0.196	22.87	0.183	23.47	0.171
21.08	0.224	21.68	0.210	22.28	0.196	22.88	0.183	23.48	0.171
21.10	0.224	21.70	0.209	22.30	0.196	22.90	0.182	23.50	0.170
21.12	0.223	21.72	0.209	22.32	0.195	22.92	0.182	23.52	0.170
21.13	0.223	21.73	0.209	22.33	0.195	22.93	0.182	23.53	0.170
21.15	0.223	21.75	0.208	22.35	0.194	22.95	0.181	23.55	0.169
21.17	0.222	21.77	0.208	22.37	0.194	22.97	0.181	23.57	0.169
21.18	0.222	21.78	0.207	22.38	0.194	22.98	0.181	23.58	0.169
21.20	0.221	21.80	0.207	22.40	0.193	23.00	0.180	23.60	0.169
21.22	0.221	21.82	0.207	22.42	0.193	23.02	0.180	23.62	0.168
21.23	0.221	21.83	0.206	22.43	0.193	23.03	0.180	23.63	0.168
21.25	0.220	21.85	0.206	22.45	0.192	23.05	0.179	23.65	0.168
21.27	0.220	21.87	0.205	22.47	0.192	23.07	0.179	23.67	0.167
21.28	0.219	21.88	0.205	22.48	0.191	23.08	0.178	23.68	0.167

Hydrograph Discharge Table, cont'd

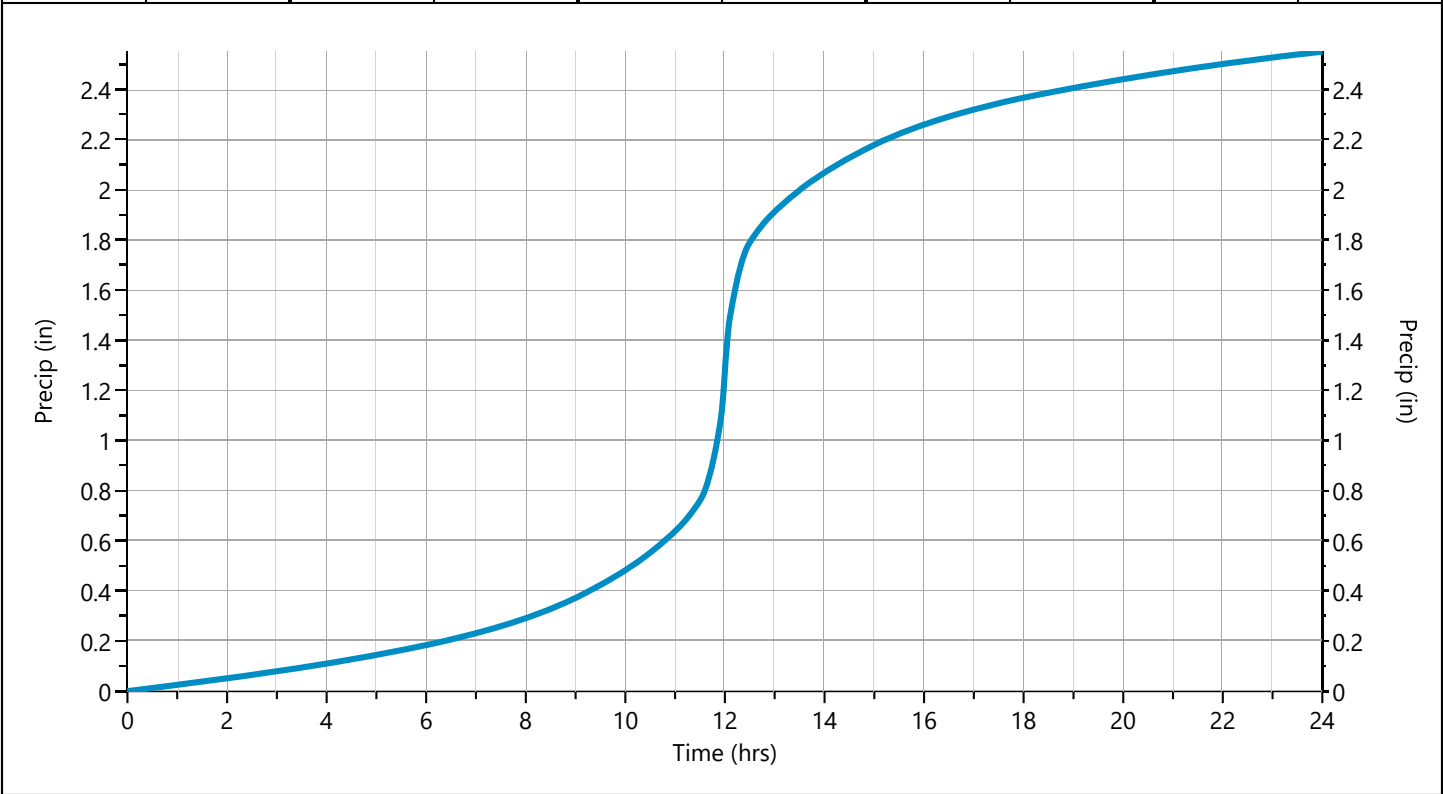
SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
23.70	0.167	...end	...end						
23.72	0.167								
23.73	0.166								
23.75	0.166								
23.77	0.166								
23.78	0.165								
23.80	0.165								
23.82	0.165								
23.83	0.164								
23.85	0.164								
23.87	0.163								
23.88	0.163								
23.90	0.163								
23.92	0.162								
23.93	0.162								
23.95	0.162								
23.97	0.161								
23.98	0.161								
24.00	0.161								
24.02	0.160								
24.03	0.160								
24.05	0.159								
24.07	0.158								
24.08	0.157								
24.10	0.156								
24.12	0.155								
24.13	0.153								
24.15	0.152								
24.17	0.150								
24.18	0.149								
24.20	0.147								
24.22	0.145								
24.23	0.143								
24.25	0.141								
24.27	0.138								
24.28	0.136								

Storm Distribution: NRCS/SCS - Type III, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	✓ 1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
24 hrs	2.55	3.19	0.00	4.24	5.10	6.30	7.17	8.14	

Incremental Rainfall Distribution, 1-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.005025	11.68	0.011602	11.87	0.018459	12.05	0.038314	12.23	0.015342
11.52	0.005355	11.70	0.012226	11.88	0.019083	12.07	0.033086	12.25	0.014719
11.53	0.005992	11.72	0.012849	11.90	0.019706	12.08	0.027859	12.27	0.014096
11.55	0.006616	11.73	0.013473	11.92	0.022704	12.10	0.022631	12.28	0.013473
11.57	0.007239	11.75	0.014096	11.93	0.027859	12.12	0.019781	12.30	0.012849
11.58	0.007863	11.77	0.014719	11.95	0.033086	12.13	0.019082	12.32	0.012226
11.60	0.008486	11.78	0.015342	11.97	0.038314	12.15	0.018459	12.33	0.011603
11.62	0.009109	11.80	0.015966	11.98	0.043541	12.17	0.017836	12.35	0.010979
11.63	0.009732	11.82	0.016589	12.00	0.048769	12.18	0.017213	12.37	0.010356
11.65	0.010356	11.83	0.017212	12.02	0.048652	12.20	0.016589	12.38	0.009732
11.67	0.010979	11.85	0.017836	12.03	0.043541	12.22	0.015966	12.40	0.009109



Hydrograph 2-yr Summary

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

Hydrology Studio v 3.0.0.36

03-13-2025

[illegible]

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

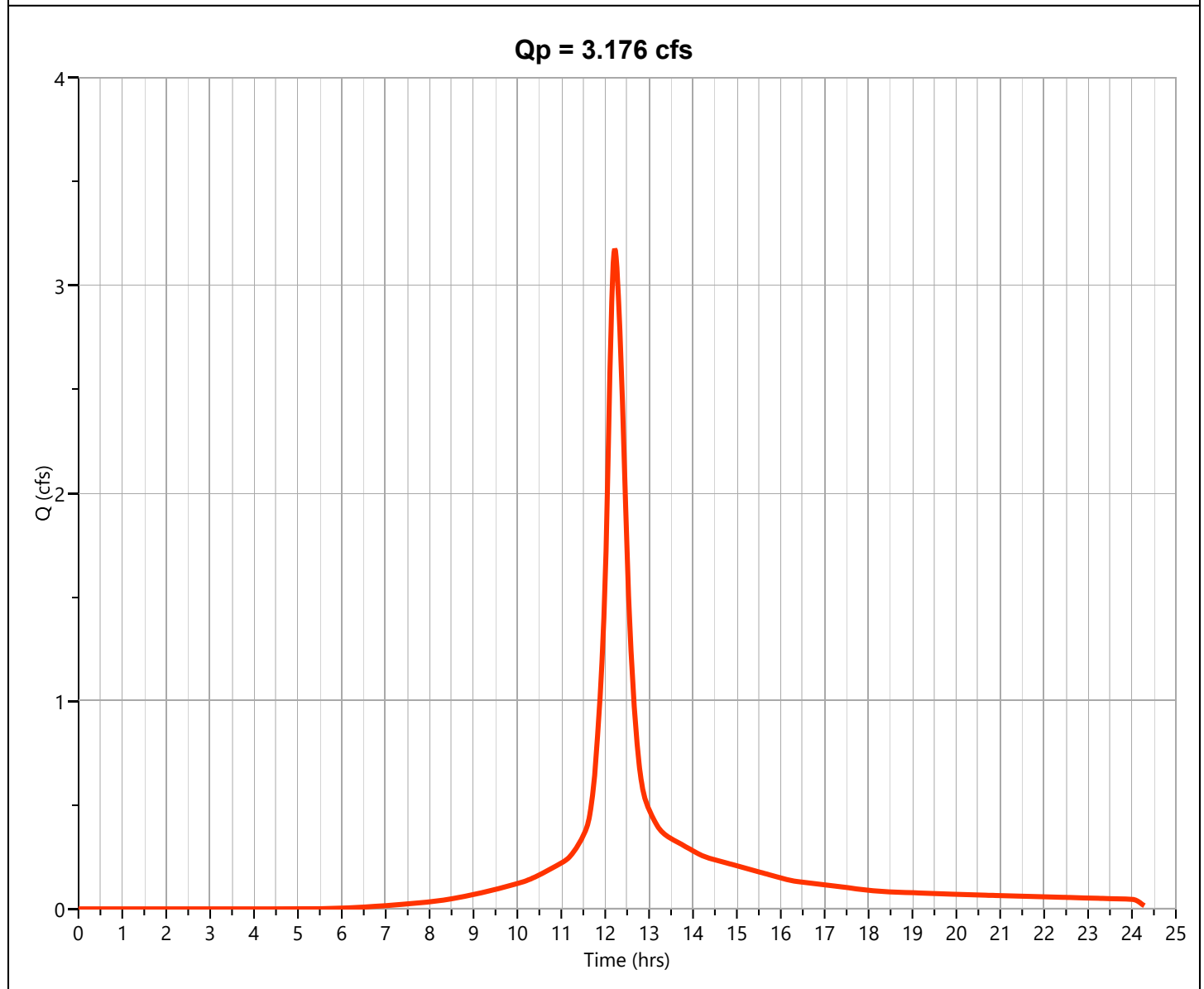
Post SA A(TO SWQB #1)

Hyd. No. 1

Hydrograph Type	= NRCS Runoff	Peak Flow	= 3.176 cfs
Storm Frequency	= 2-yr	Time to Peak	= 12.22 hrs
Time Interval	= 1 min	Runoff Volume	= 14,196 cuft
Drainage Area	= 1.739 ac	Curve Number	= 91*
Tc Method	= User	Time of Conc. (Tc)	= 19.1 min
Total Rainfall	= 3.19 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
1.234	98	C-PAVED/ROOF
0.505	74	C-LAWN/LANDSCAPES
1.739	91	Weighted CN Method Employed



Hydrograph Discharge Table

SA A(TO SWQB #1)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.42	0.319	12.02	1.723	12.62	1.133	13.22	0.390		
11.43	0.326	12.03	1.867	12.63	1.072	13.23	0.385		
11.45	0.332	12.05	2.019	12.65	1.014	13.25	0.381		
11.47	0.339	12.07	2.177	12.67	0.959	13.27	0.376		
11.48	0.345	12.08	2.338	12.68	0.908	13.28	0.372		
11.50	0.352	12.10	2.496	12.70	0.861	13.30	0.369		
11.52	0.359	12.12	2.649	12.72	0.817	13.32	0.365		
11.53	0.366	12.13	2.792	12.73	0.777	13.33	0.362		
11.55	0.374	12.15	2.919	12.75	0.740	13.35	0.359		
11.57	0.383	12.17	3.026	12.77	0.707	13.37	0.356		
11.58	0.394	12.18	3.107	12.78	0.677	13.38	0.354		
11.60	0.405	12.20	3.157	12.80	0.649	13.40	0.351		
11.62	0.419	12.22	3.176	12.82	0.625	13.42	0.349		
11.63	0.434	12.23	3.168	12.83	0.603	13.43	0.346		
11.65	0.452	12.25	3.137	12.85	0.583	13.45	0.344		
11.67	0.473	12.27	3.087	12.87	0.565	13.47	0.342		
11.68	0.497	12.28	3.023	12.88	0.550	13.48	0.340		
11.70	0.524	12.30	2.951	12.90	0.536	13.50	0.338		
11.72	0.554	12.32	2.872	12.92	0.523	13.52	0.336		
11.73	0.588	12.33	2.786	12.93	0.512	13.53	0.334		
11.75	0.624	12.35	2.695	12.95	0.502	13.55	0.332		
11.77	0.664	12.37	2.599	12.97	0.493	13.57	0.330		
11.78	0.707	12.38	2.498	12.98	0.484	13.58	0.328		
11.80	0.752	12.40	2.392	13.00	0.477	13.60	0.326		
11.82	0.800	12.42	2.282	13.02	0.469	13.62	0.324		
11.83	0.851	12.43	2.168	13.03	0.461	13.63	0.323		
11.85	0.904	12.45	2.052	13.05	0.454	13.65	0.321		
11.87	0.960	12.47	1.936	13.07	0.447	13.67	0.319		
11.88	1.018	12.48	1.821	13.08	0.439	13.68	0.317		
11.90	1.078	12.50	1.709	13.10	0.432	...end	...end		
11.92	1.141	12.52	1.604	13.12	0.426				
11.93	1.210	12.53	1.507	13.13	0.419				
11.95	1.287	12.55	1.418	13.15	0.412				
11.97	1.374	12.57	1.338	13.17	0.406				
11.98	1.475	12.58	1.264	13.18	0.401				
12.00	1.591	12.60	1.196	13.20	0.395				

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

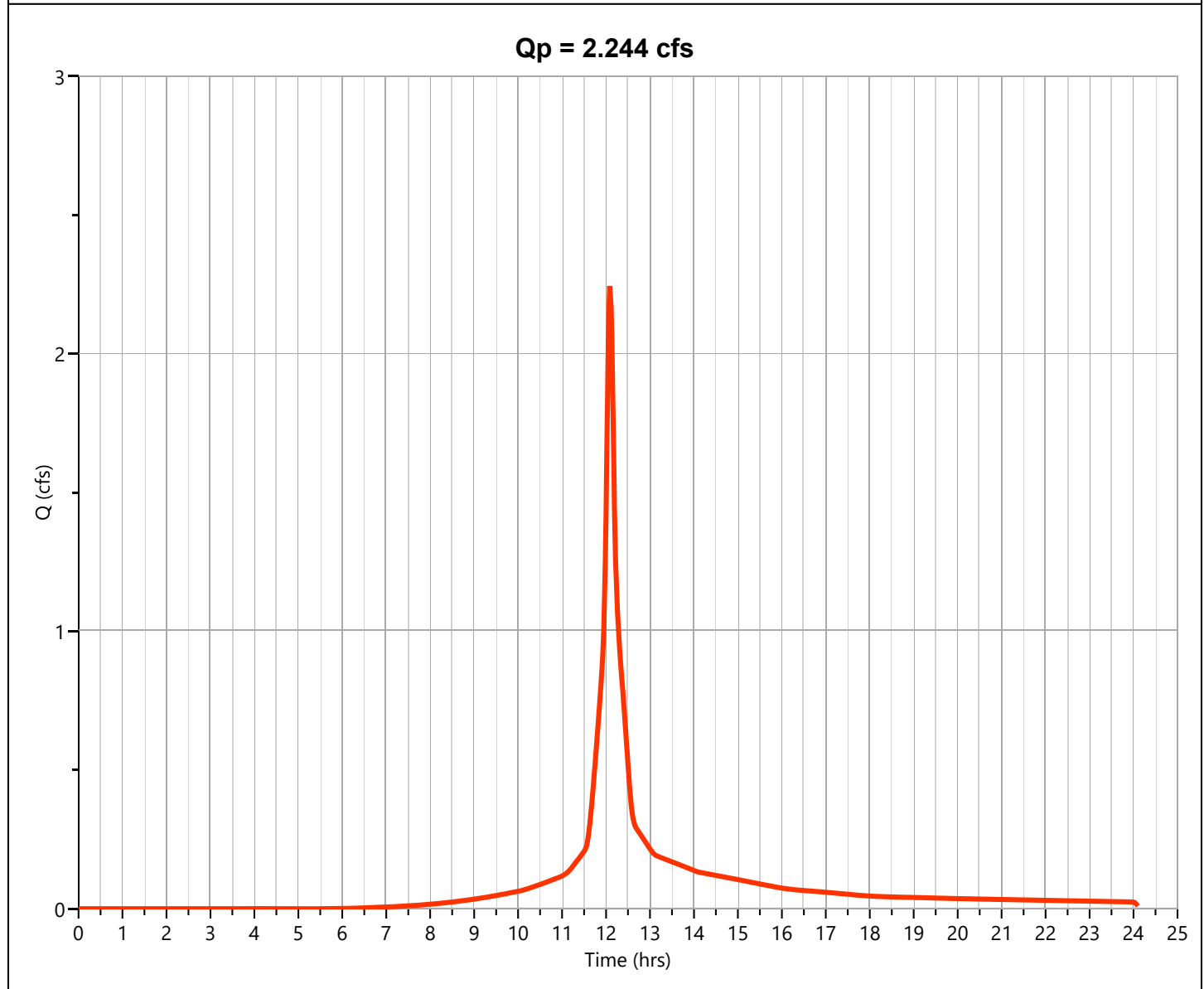
Post SA-A (TO SWQB #2)

Hyd. No. 2

Hydrograph Type	= NRCS Runoff	Peak Flow	= 2.244 cfs
Storm Frequency	= 2-yr	Time to Peak	= 12.08 hrs
Time Interval	= 1 min	Runoff Volume	= 7,306 cuft
Drainage Area	= 0.956 ac	Curve Number	= 90*
Tc Method	= User	Time of Conc. (Tc)	= 7.6 min
Total Rainfall	= 3.19 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.649	98	C-PAVED
0.307	74	C-LAWN/LANDSCAPED
0.956	90	Weighted CN Method Employed



Hydrograph Discharge Table

SA-A (TO SWQB #2)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.57	0.233	12.17	1.713	12.77	0.271				
11.58	0.246	12.18	1.545	12.78	0.267				
11.60	0.264	12.20	1.396	12.80	0.263				
11.62	0.284	12.22	1.272	12.82	0.259				
11.63	0.308	12.23	1.175	12.83	0.255				
11.65	0.334	12.25	1.100	12.85	0.251				
11.67	0.363	12.27	1.042	12.87	0.247				
11.68	0.393	12.28	0.997	12.88	0.244				
11.70	0.424	12.30	0.960	12.90	0.240				
11.72	0.456	12.32	0.924	12.92	0.236				
11.73	0.488	12.33	0.889	12.93	0.232				
11.75	0.521	12.35	0.853	12.95	0.228				
11.77	0.554	12.37	0.817	12.97	0.224				
11.78	0.588	12.38	0.780	...end	...end				
11.80	0.623	12.40	0.744						
11.82	0.658	12.42	0.707						
11.83	0.693	12.43	0.670						
11.85	0.730	12.45	0.633						
11.87	0.766	12.47	0.595						
11.88	0.804	12.48	0.558						
11.90	0.841	12.50	0.520						
11.92	0.884	12.52	0.483						
11.93	0.938	12.53	0.447						
11.95	1.012	12.55	0.414						
11.97	1.114	12.57	0.385						
11.98	1.252	12.58	0.360						
12.00	1.429	12.60	0.340						
12.02	1.632	12.62	0.324						
12.03	1.839	12.63	0.312						
12.05	2.025	12.65	0.303						
12.07	2.169	12.67	0.296						
12.08	2.244	12.68	0.291						
12.10	2.241	12.70	0.287						
12.12	2.169	12.72	0.283						
12.13	2.045	12.73	0.279						
12.15	1.886	12.75	0.275						

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

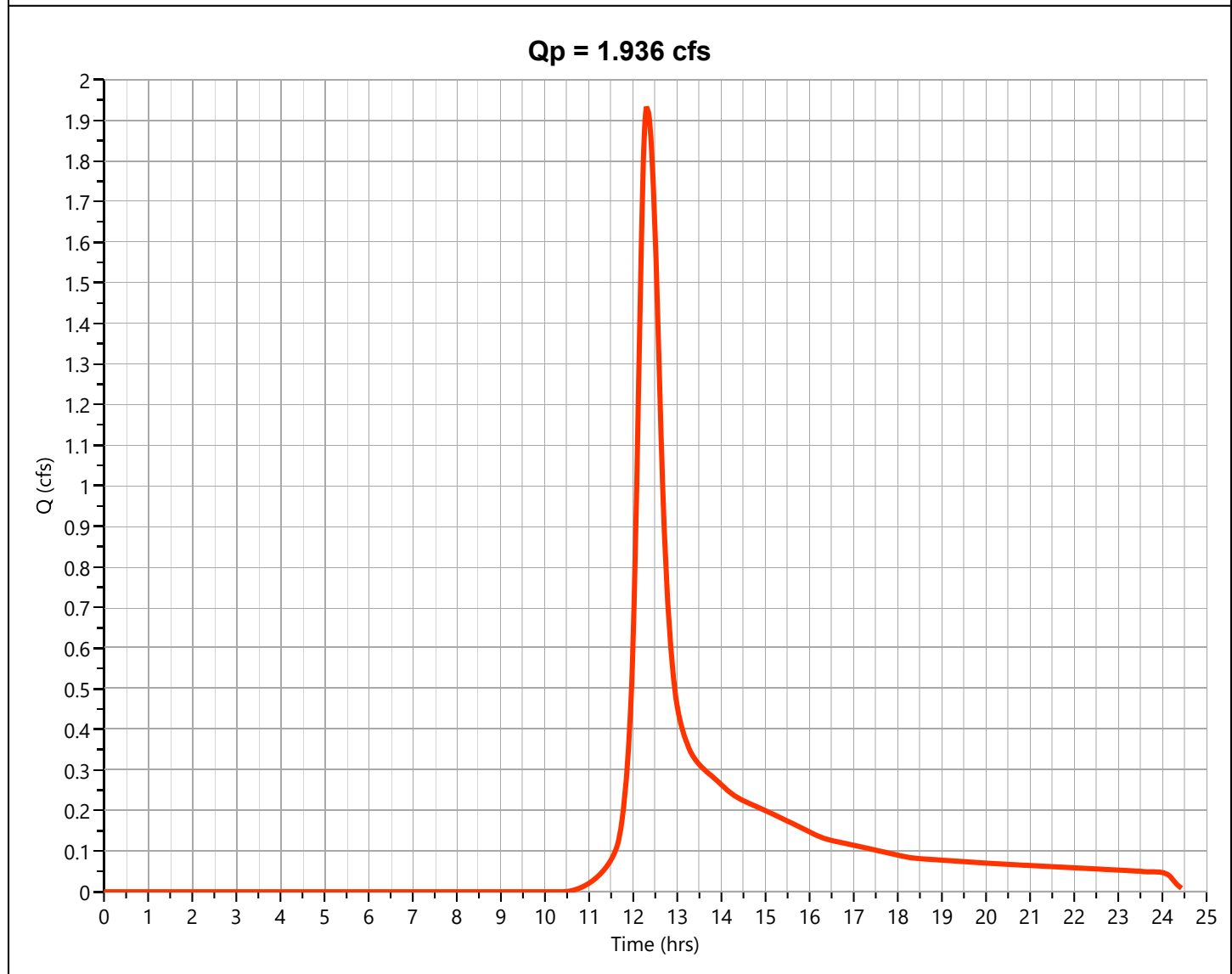
Post SA- (BYPASS)

Hyd. No. 3

Hydrograph Type	= NRCS Runoff	Peak Flow	= 1.936 cfs
Storm Frequency	= 2-yr	Time to Peak	= 12.32 hrs
Time Interval	= 1 min	Runoff Volume	= 9,793 cuft
Drainage Area	= 2.466 ac	Curve Number	= 75.12*
Tc Method	= User	Time of Conc. (Tc)	= 24.7 min
Total Rainfall	= 3.19 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.118	74	C-GRASS
1.128	70	C-WOODED
0.858	77	D-WOODED
0.362	87	C-RAILROAD ROW
2.466	75	Weighted CN Method Employed



POST51

Hydrograph Discharge Table

SA- (BYPASS)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.78	0.209	12.38	1.882	12.98	0.467	13.58	0.304	14.18	0.246
11.80	0.226	12.40	1.856	13.00	0.455	13.60	0.302	14.20	0.244
11.82	0.245	12.42	1.826	13.02	0.445	13.62	0.301	14.22	0.243
11.83	0.266	12.43	1.792	13.03	0.436	13.63	0.299	14.23	0.241
11.85	0.288	12.45	1.753	13.05	0.427	13.65	0.297	14.25	0.240
11.87	0.312	12.47	1.710	13.07	0.419	13.67	0.296	14.27	0.239
11.88	0.338	12.48	1.663	13.08	0.412	13.68	0.294	14.28	0.237
11.90	0.366	12.50	1.612	13.10	0.405	13.70	0.293	14.30	0.236
11.92	0.397	12.52	1.558	13.12	0.399	13.72	0.291	14.32	0.235
11.93	0.430	12.53	1.501	13.13	0.393	13.73	0.290	14.33	0.234
11.95	0.469	12.55	1.440	13.15	0.387	13.75	0.288	14.35	0.233
11.97	0.513	12.57	1.378	13.17	0.382	13.77	0.286	14.37	0.232
11.98	0.564	12.58	1.313	13.18	0.377	13.78	0.285	14.38	0.231
12.00	0.624	12.60	1.248	13.20	0.371	13.80	0.283	14.40	0.230
12.02	0.692	12.62	1.183	13.22	0.367	13.82	0.282	14.42	0.229
12.03	0.768	12.63	1.119	13.23	0.362	13.83	0.280	14.43	0.228
12.05	0.851	12.65	1.058	13.25	0.357	13.85	0.278	14.45	0.227
12.07	0.939	12.67	1.002	13.27	0.353	13.87	0.277	14.47	0.226
12.08	1.030	12.68	0.949	13.28	0.349	13.88	0.275	14.48	0.225
12.10	1.123	12.70	0.901	13.30	0.345	13.90	0.273	14.50	0.224
12.12	1.217	12.72	0.858	13.32	0.342	13.92	0.272	14.52	0.223
12.13	1.311	12.73	0.817	13.33	0.338	13.93	0.270	14.53	0.222
12.15	1.405	12.75	0.780	13.35	0.335	13.95	0.269	14.55	0.222
12.17	1.497	12.77	0.746	13.37	0.332	13.97	0.267	14.57	0.221
12.18	1.586	12.78	0.714	13.38	0.329	13.98	0.265	14.58	0.220
12.20	1.669	12.80	0.684	13.40	0.326	14.00	0.264	14.60	0.219
12.22	1.745	12.82	0.655	13.42	0.324	14.02	0.262	14.62	0.218
12.23	1.809	12.83	0.629	13.43	0.321	14.03	0.260	14.63	0.217
12.25	1.861	12.85	0.605	13.45	0.319	14.05	0.259	14.65	0.217
12.27	1.897	12.87	0.582	13.47	0.317	14.07	0.257	14.67	0.216
12.28	1.921	12.88	0.561	13.48	0.315	14.08	0.255	14.68	0.215
12.30	1.933	12.90	0.542	13.50	0.313	14.10	0.254	14.70	0.214
12.32	1.936	12.92	0.524	13.52	0.311	14.12	0.252	14.72	0.213
12.33	1.930	12.93	0.508	13.53	0.309	14.13	0.250	14.73	0.213
12.35	1.919	12.95	0.493	13.55	0.307	14.15	0.249	14.75	0.212
12.37	1.903	12.97	0.479	13.57	0.305	14.17	0.247	14.77	0.211

Printed values > 10% of Qpeak. nth-point print interval = 1

POST52

Hydrograph Discharge Table, cont'd

SA- (BYPASS)

[illegible]

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

PROP SWQB #1

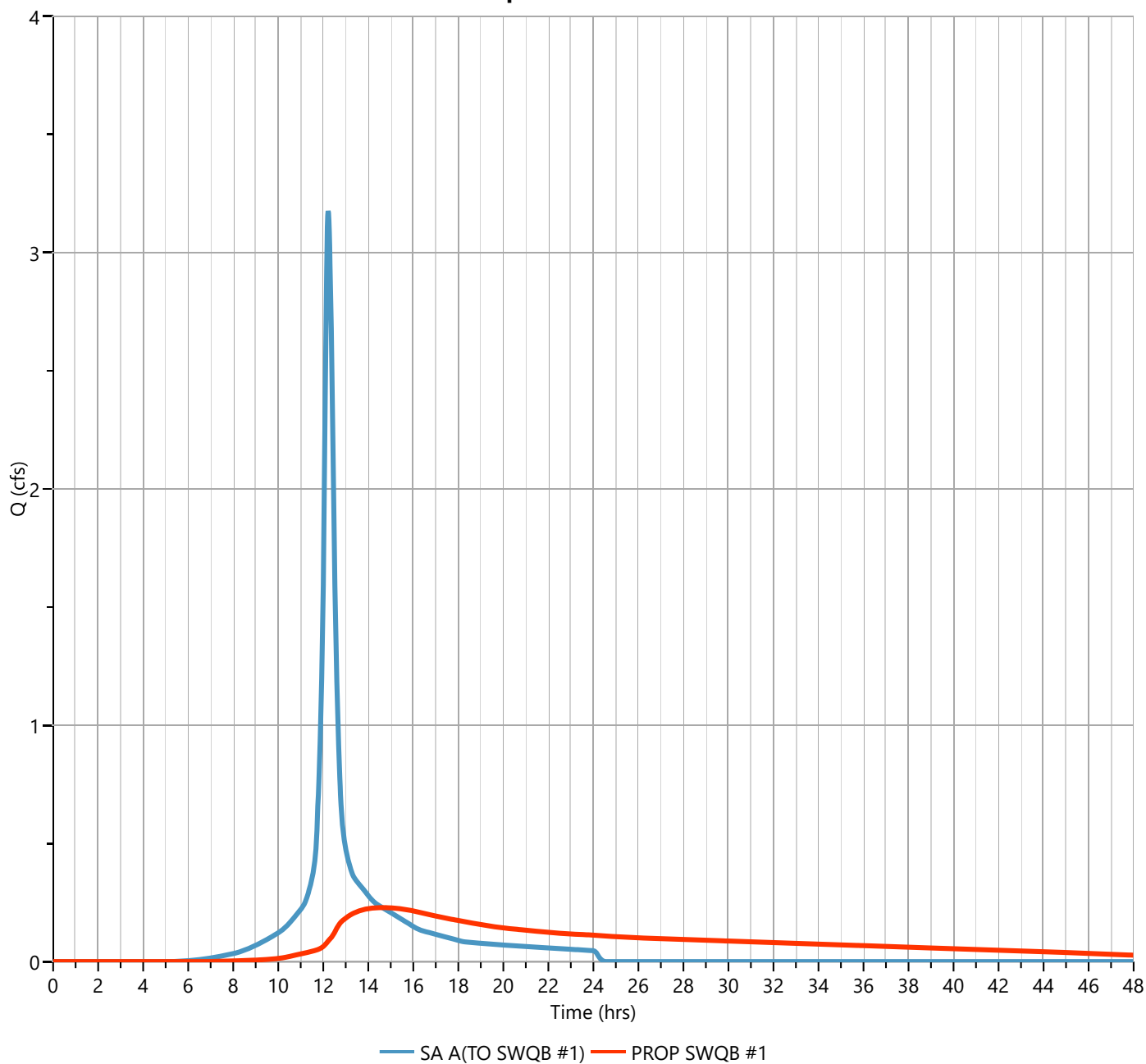
Hyd. No. 4

Hydrograph Type	= Pond Route	Peak Flow	= 0.228 cfs
Storm Frequency	= 2-yr	Time to Peak	= 14.63 hrs
Time Interval	= 1 min	Hydrograph Volume	= 13,245 cuft
Inflow Hydrograph	= 1 - SA A(TO SWQB #1)	Max. Elevation	= 82.48 ft
Pond Name	= PROP SWQB #1	Max. Storage	= 9,001 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 10.91 hrs

Qp = 0.228 cfs



Hydrograph Discharge Table

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
10.58	0.023	11.18	0.036	11.78	0.051	12.38	0.104	12.98	0.182
10.60	0.023	11.20	0.037	11.80	0.052	12.40	0.106	13.00	0.183
10.62	0.024	11.22	0.037	11.82	0.053	12.42	0.109	13.02	0.184
10.63	0.024	11.23	0.037	11.83	0.054	12.43	0.112	13.03	0.186
10.65	0.024	11.25	0.037	11.85	0.054	12.45	0.115	13.05	0.187
10.67	0.025	11.27	0.038	11.87	0.055	12.47	0.117	13.07	0.188
10.68	0.025	11.28	0.038	11.88	0.056	12.48	0.119	13.08	0.190
10.70	0.025	11.30	0.038	11.90	0.057	12.50	0.123	13.10	0.191
10.72	0.026	11.32	0.039	11.92	0.058	12.52	0.126	13.12	0.192
10.73	0.026	11.33	0.039	11.93	0.059	12.53	0.130	13.13	0.193
10.75	0.027	11.35	0.039	11.95	0.060	12.55	0.133	13.15	0.194
10.77	0.027	11.37	0.040	11.97	0.061	12.57	0.135	13.17	0.195
10.78	0.027	11.38	0.040	11.98	0.062	12.58	0.138	13.18	0.196
10.80	0.028	11.40	0.040	12.00	0.064	12.60	0.140	13.20	0.197
10.82	0.028	11.42	0.041	12.02	0.065	12.62	0.143	13.22	0.198
10.83	0.028	11.43	0.041	12.03	0.066	12.63	0.145	13.23	0.199
10.85	0.029	11.45	0.042	12.05	0.068	12.65	0.148	13.25	0.200
10.87	0.029	11.47	0.042	12.07	0.069	12.67	0.151	13.27	0.201
10.88	0.030	11.48	0.042	12.08	0.071	12.68	0.154	13.28	0.202
10.90	0.030	11.50	0.043	12.10	0.073	12.70	0.156	13.30	0.202
10.92	0.030	11.52	0.043	12.12	0.075	12.72	0.158	13.32	0.203
10.93	0.031	11.53	0.044	12.13	0.077	12.73	0.161	13.33	0.204
10.95	0.031	11.55	0.044	12.15	0.079	12.75	0.163	13.35	0.205
10.97	0.032	11.57	0.045	12.17	0.081	12.77	0.165	13.37	0.205
10.98	0.032	11.58	0.045	12.18	0.083	12.78	0.166	13.38	0.206
11.00	0.033	11.60	0.046	12.20	0.085	12.80	0.168	13.40	0.207
11.02	0.033	11.62	0.046	12.22	0.087	12.82	0.170	13.42	0.207
11.03	0.033	11.63	0.047	12.23	0.089	12.83	0.171	13.43	0.208
11.05	0.034	11.65	0.047	12.25	0.090	12.85	0.173	13.45	0.209
11.07	0.034	11.67	0.048	12.27	0.092	12.87	0.174	13.47	0.209
11.08	0.035	11.68	0.048	12.28	0.094	12.88	0.175	13.48	0.210
11.10	0.035	11.70	0.048	12.30	0.096	12.90	0.177	13.50	0.211
11.12	0.035	11.72	0.049	12.32	0.097	12.92	0.178	13.52	0.211
11.13	0.035	11.73	0.050	12.33	0.099	12.93	0.179	13.53	0.212
11.15	0.036	11.75	0.050	12.35	0.101	12.95	0.180	13.55	0.213
11.17	0.036	11.77	0.051	12.37	0.103	12.97	0.181	13.57	0.213

Printed values > 10% of Qpeak. nth-point print interval = 1

POST55

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
13.58	0.214	14.18	0.226	14.78	0.228	15.38	0.224	15.98	0.215
13.60	0.214	14.20	0.226	14.80	0.228	15.40	0.223	16.00	0.214
13.62	0.215	14.22	0.226	14.82	0.228	15.42	0.223	16.02	0.214
13.63	0.215	14.23	0.227	14.83	0.228	15.43	0.223	16.03	0.214
13.65	0.216	14.25	0.227	14.85	0.228	15.45	0.223	16.05	0.213
13.67	0.216	14.27	0.227	14.87	0.228	15.47	0.223	16.07	0.213
13.68	0.217	14.28	0.227	14.88	0.227	15.48	0.222	16.08	0.213
13.70	0.217	14.30	0.227	14.90	0.227	15.50	0.222	16.10	0.212
13.72	0.218	14.32	0.227	14.92	0.227	15.52	0.222	16.12	0.212
13.73	0.218	14.33	0.227	14.93	0.227	15.53	0.222	16.13	0.212
13.75	0.219	14.35	0.227	14.95	0.227	15.55	0.222	16.15	0.211
13.77	0.219	14.37	0.227	14.97	0.227	15.57	0.221	16.17	0.211
13.78	0.219	14.38	0.227	14.98	0.227	15.58	0.221	16.18	0.211
13.80	0.220	14.40	0.228	15.00	0.227	15.60	0.221	16.20	0.210
13.82	0.220	14.42	0.228	15.02	0.227	15.62	0.221	16.22	0.210
13.83	0.221	14.43	0.228	15.03	0.227	15.63	0.220	16.23	0.209
13.85	0.221	14.45	0.228	15.05	0.227	15.65	0.220	16.25	0.209
13.87	0.221	14.47	0.228	15.07	0.226	15.67	0.220	16.27	0.209
13.88	0.222	14.48	0.228	15.08	0.226	15.68	0.220	16.28	0.208
13.90	0.222	14.50	0.228	15.10	0.226	15.70	0.219	16.30	0.208
13.92	0.222	14.52	0.228	15.12	0.226	15.72	0.219	16.32	0.208
13.93	0.223	14.53	0.228	15.13	0.226	15.73	0.219	16.33	0.207
13.95	0.223	14.55	0.228	15.15	0.226	15.75	0.219	16.35	0.207
13.97	0.223	14.57	0.228	15.17	0.226	15.77	0.218	16.37	0.207
13.98	0.224	14.58	0.228	15.18	0.226	15.78	0.218	16.38	0.206
14.00	0.224	14.60	0.228	15.20	0.225	15.80	0.218	16.40	0.206
14.02	0.224	14.62	0.228	15.22	0.225	15.82	0.217	16.42	0.206
14.03	0.224	14.63	0.228	15.23	0.225	15.83	0.217	16.43	0.205
14.05	0.225	14.65	0.228	15.25	0.225	15.85	0.217	16.45	0.205
14.07	0.225	14.67	0.228	15.27	0.225	15.87	0.217	16.47	0.204
14.08	0.225	14.68	0.228	15.28	0.225	15.88	0.216	16.48	0.204
14.10	0.225	14.70	0.228	15.30	0.225	15.90	0.216	16.50	0.204
14.12	0.225	14.72	0.228	15.32	0.224	15.92	0.216	16.52	0.203
14.13	0.226	14.73	0.228	15.33	0.224	15.93	0.215	16.53	0.203
14.15	0.226	14.75	0.228	15.35	0.224	15.95	0.215	16.55	0.203
14.17	0.226	14.77	0.228	15.37	0.224	15.97	0.215	16.57	0.202

Printed values > 10% of Qpeak. nth-point print interval = 1

POST56

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
16.58	0.202	17.18	0.188	17.78	0.177	18.38	0.167	18.98	0.157
16.60	0.201	17.20	0.188	17.80	0.177	18.40	0.167	19.00	0.156
16.62	0.201	17.22	0.188	17.82	0.177	18.42	0.166	19.02	0.156
16.63	0.201	17.23	0.187	17.83	0.177	18.43	0.166	19.03	0.156
16.65	0.200	17.25	0.187	17.85	0.176	18.45	0.166	19.05	0.156
16.67	0.200	17.27	0.187	17.87	0.176	18.47	0.165	19.07	0.155
16.68	0.200	17.28	0.186	17.88	0.176	18.48	0.165	19.08	0.155
16.70	0.199	17.30	0.186	17.90	0.175	18.50	0.165	19.10	0.155
16.72	0.199	17.32	0.185	17.92	0.175	18.52	0.165	19.12	0.155
16.73	0.199	17.33	0.185	17.93	0.175	18.53	0.164	19.13	0.154
16.75	0.198	17.35	0.185	17.95	0.174	18.55	0.164	19.15	0.154
16.77	0.198	17.37	0.184	17.97	0.174	18.57	0.164	19.17	0.154
16.78	0.197	17.38	0.184	17.98	0.174	18.58	0.163	19.18	0.153
16.80	0.197	17.40	0.184	18.00	0.174	18.60	0.163	19.20	0.153
16.82	0.197	17.42	0.183	18.02	0.173	18.62	0.163	19.22	0.153
16.83	0.196	17.43	0.183	18.03	0.173	18.63	0.163	19.23	0.153
16.85	0.196	17.45	0.183	18.05	0.173	18.65	0.162	19.25	0.152
16.87	0.196	17.47	0.183	18.07	0.172	18.67	0.162	19.27	0.152
16.88	0.195	17.48	0.182	18.08	0.172	18.68	0.162	19.28	0.152
16.90	0.195	17.50	0.182	18.10	0.172	18.70	0.161	19.30	0.152
16.92	0.194	17.52	0.182	18.12	0.172	18.72	0.161	19.32	0.151
16.93	0.194	17.53	0.182	18.13	0.171	18.73	0.161	19.33	0.151
16.95	0.194	17.55	0.181	18.15	0.171	18.75	0.161	19.35	0.151
16.97	0.193	17.57	0.181	18.17	0.171	18.77	0.160	19.37	0.151
16.98	0.193	17.58	0.181	18.18	0.170	18.78	0.160	19.38	0.150
17.00	0.193	17.60	0.180	18.20	0.170	18.80	0.160	19.40	0.150
17.02	0.192	17.62	0.180	18.22	0.170	18.82	0.159	19.42	0.150
17.03	0.192	17.63	0.180	18.23	0.170	18.83	0.159	19.43	0.150
17.05	0.191	17.65	0.180	18.25	0.169	18.85	0.159	19.45	0.149
17.07	0.191	17.67	0.179	18.27	0.169	18.87	0.159	19.47	0.149
17.08	0.191	17.68	0.179	18.28	0.169	18.88	0.158	19.48	0.149
17.10	0.190	17.70	0.179	18.30	0.168	18.90	0.158	19.50	0.148
17.12	0.190	17.72	0.178	18.32	0.168	18.92	0.158	19.52	0.148
17.13	0.190	17.73	0.178	18.33	0.168	18.93	0.158	19.53	0.148
17.15	0.189	17.75	0.178	18.35	0.167	18.95	0.157	19.55	0.148
17.17	0.189	17.77	0.178	18.37	0.167	18.97	0.157	19.57	0.147

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
19.58	0.147	20.18	0.141	20.78	0.135	21.38	0.129	21.98	0.124
19.60	0.147	20.20	0.140	20.80	0.135	21.40	0.129	22.00	0.124
19.62	0.147	20.22	0.140	20.82	0.134	21.42	0.129	22.02	0.123
19.63	0.146	20.23	0.140	20.83	0.134	21.43	0.129	22.03	0.123
19.65	0.146	20.25	0.140	20.85	0.134	21.45	0.129	22.05	0.123
19.67	0.146	20.27	0.140	20.87	0.134	21.47	0.128	22.07	0.123
19.68	0.146	20.28	0.140	20.88	0.134	21.48	0.128	22.08	0.123
19.70	0.145	20.30	0.139	20.90	0.134	21.50	0.128	22.10	0.123
19.72	0.145	20.32	0.139	20.92	0.133	21.52	0.128	22.12	0.122
19.73	0.145	20.33	0.139	20.93	0.133	21.53	0.128	22.13	0.122
19.75	0.145	20.35	0.139	20.95	0.133	21.55	0.128	22.15	0.122
19.77	0.145	20.37	0.139	20.97	0.133	21.57	0.127	22.17	0.122
19.78	0.145	20.38	0.139	20.98	0.133	21.58	0.127	22.18	0.122
19.80	0.144	20.40	0.138	21.00	0.133	21.60	0.127	22.20	0.122
19.82	0.144	20.42	0.138	21.02	0.133	21.62	0.127	22.22	0.122
19.83	0.144	20.43	0.138	21.03	0.132	21.63	0.127	22.23	0.121
19.85	0.144	20.45	0.138	21.05	0.132	21.65	0.127	22.25	0.121
19.87	0.144	20.47	0.138	21.07	0.132	21.67	0.127	22.27	0.121
19.88	0.144	20.48	0.138	21.08	0.132	21.68	0.126	22.28	0.121
19.90	0.143	20.50	0.137	21.10	0.132	21.70	0.126	22.30	0.121
19.92	0.143	20.52	0.137	21.12	0.132	21.72	0.126	22.32	0.121
19.93	0.143	20.53	0.137	21.13	0.131	21.73	0.126	22.33	0.121
19.95	0.143	20.55	0.137	21.15	0.131	21.75	0.126	22.35	0.120
19.97	0.143	20.57	0.137	21.17	0.131	21.77	0.126	22.37	0.120
19.98	0.143	20.58	0.137	21.18	0.131	21.78	0.125	22.38	0.120
20.00	0.142	20.60	0.137	21.20	0.131	21.80	0.125	22.40	0.120
20.02	0.142	20.62	0.136	21.22	0.131	21.82	0.125	22.42	0.120
20.03	0.142	20.63	0.136	21.23	0.131	21.83	0.125	22.43	0.120
20.05	0.142	20.65	0.136	21.25	0.130	21.85	0.125	22.45	0.120
20.07	0.142	20.67	0.136	21.27	0.130	21.87	0.125	22.47	0.119
20.08	0.142	20.68	0.136	21.28	0.130	21.88	0.125	22.48	0.119
20.10	0.141	20.70	0.136	21.30	0.130	21.90	0.124	22.50	0.119
20.12	0.141	20.72	0.135	21.32	0.130	21.92	0.124	22.52	0.119
20.13	0.141	20.73	0.135	21.33	0.130	21.93	0.124	22.53	0.119
20.15	0.141	20.75	0.135	21.35	0.129	21.95	0.124	22.55	0.119
20.17	0.141	20.77	0.135	21.37	0.129	21.97	0.124	22.57	0.119

Printed values > 10% of Qpeak. nth-point print interval = 1

POST58

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
22.58	0.119	23.18	0.116	23.78	0.113	24.38	0.109	24.98	0.105
22.60	0.119	23.20	0.116	23.80	0.113	24.40	0.109	25.00	0.105
22.62	0.119	23.22	0.116	23.82	0.113	24.42	0.109	25.02	0.104
22.63	0.119	23.23	0.116	23.83	0.113	24.43	0.109	25.03	0.104
22.65	0.119	23.25	0.116	23.85	0.112	24.45	0.109	25.05	0.104
22.67	0.118	23.27	0.115	23.87	0.112	24.47	0.109	25.07	0.104
22.68	0.118	23.28	0.115	23.88	0.112	24.48	0.108	25.08	0.104
22.70	0.118	23.30	0.115	23.90	0.112	24.50	0.108	25.10	0.104
22.72	0.118	23.32	0.115	23.92	0.112	24.52	0.108	25.12	0.104
22.73	0.118	23.33	0.115	23.93	0.112	24.53	0.108	25.13	0.104
22.75	0.118	23.35	0.115	23.95	0.112	24.55	0.108	25.15	0.104
22.77	0.118	23.37	0.115	23.97	0.112	24.57	0.108	25.17	0.104
22.78	0.118	23.38	0.115	23.98	0.112	24.58	0.108	25.18	0.104
22.80	0.118	23.40	0.115	24.00	0.112	24.60	0.107	25.20	0.104
22.82	0.118	23.42	0.115	24.02	0.112	24.62	0.107	25.22	0.104
22.83	0.118	23.43	0.115	24.03	0.112	24.63	0.107	25.23	0.104
22.85	0.118	23.45	0.114	24.05	0.111	24.65	0.107	25.25	0.104
22.87	0.117	23.47	0.114	24.07	0.111	24.67	0.107	25.27	0.103
22.88	0.117	23.48	0.114	24.08	0.111	24.68	0.107	25.28	0.103
22.90	0.117	23.50	0.114	24.10	0.111	24.70	0.107	25.30	0.103
22.92	0.117	23.52	0.114	24.12	0.111	24.72	0.106	25.32	0.103
22.93	0.117	23.53	0.114	24.13	0.111	24.73	0.106	25.33	0.103
22.95	0.117	23.55	0.114	24.15	0.111	24.75	0.106	25.35	0.103
22.97	0.117	23.57	0.114	24.17	0.111	24.77	0.106	25.37	0.103
22.98	0.117	23.58	0.114	24.18	0.111	24.78	0.106	25.38	0.103
23.00	0.117	23.60	0.114	24.20	0.111	24.80	0.106	25.40	0.103
23.02	0.117	23.62	0.114	24.22	0.110	24.82	0.106	25.42	0.103
23.03	0.117	23.63	0.114	24.23	0.110	24.83	0.106	25.43	0.103
23.05	0.117	23.65	0.113	24.25	0.110	24.85	0.105	25.45	0.103
23.07	0.116	23.67	0.113	24.27	0.110	24.87	0.105	25.47	0.103
23.08	0.116	23.68	0.113	24.28	0.110	24.88	0.105	25.48	0.103
23.10	0.116	23.70	0.113	24.30	0.110	24.90	0.105	25.50	0.103
23.12	0.116	23.72	0.113	24.32	0.110	24.92	0.105	25.52	0.102
23.13	0.116	23.73	0.113	24.33	0.110	24.93	0.105	25.53	0.102
23.15	0.116	23.75	0.113	24.35	0.110	24.95	0.105	25.55	0.102
23.17	0.116	23.77	0.113	24.37	0.109	24.97	0.105	25.57	0.102

Printed values > 10% of Qpeak. nth-point print interval = 1

POST59

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
25.58	0.102	26.18	0.100	26.78	0.098	27.38	0.095	27.98	0.093
25.60	0.102	26.20	0.100	26.80	0.097	27.40	0.095	28.00	0.093
25.62	0.102	26.22	0.100	26.82	0.097	27.42	0.095	28.02	0.093
25.63	0.102	26.23	0.100	26.83	0.097	27.43	0.095	28.03	0.093
25.65	0.102	26.25	0.100	26.85	0.097	27.45	0.095	28.05	0.093
25.67	0.102	26.27	0.100	26.87	0.097	27.47	0.095	28.07	0.093
25.68	0.102	26.28	0.099	26.88	0.097	27.48	0.095	28.08	0.093
25.70	0.102	26.30	0.099	26.90	0.097	27.50	0.095	28.10	0.093
25.72	0.102	26.32	0.099	26.92	0.097	27.52	0.095	28.12	0.093
25.73	0.102	26.33	0.099	26.93	0.097	27.53	0.095	28.13	0.093
25.75	0.102	26.35	0.099	26.95	0.097	27.55	0.095	28.15	0.093
25.77	0.101	26.37	0.099	26.97	0.097	27.57	0.095	28.17	0.093
25.78	0.101	26.38	0.099	26.98	0.097	27.58	0.095	28.18	0.093
25.80	0.101	26.40	0.099	27.00	0.097	27.60	0.095	28.20	0.093
25.82	0.101	26.42	0.099	27.02	0.097	27.62	0.095	28.22	0.093
25.83	0.101	26.43	0.099	27.03	0.097	27.63	0.095	28.23	0.093
25.85	0.101	26.45	0.099	27.05	0.097	27.65	0.095	28.25	0.093
25.87	0.101	26.47	0.099	27.07	0.097	27.67	0.095	28.27	0.092
25.88	0.101	26.48	0.099	27.08	0.097	27.68	0.094	28.28	0.092
25.90	0.101	26.50	0.099	27.10	0.096	27.70	0.094	28.30	0.092
25.92	0.101	26.52	0.099	27.12	0.096	27.72	0.094	28.32	0.092
25.93	0.101	26.53	0.099	27.13	0.096	27.73	0.094	28.33	0.092
25.95	0.101	26.55	0.098	27.15	0.096	27.75	0.094	28.35	0.092
25.97	0.101	26.57	0.098	27.17	0.096	27.77	0.094	28.37	0.092
25.98	0.101	26.58	0.098	27.18	0.096	27.78	0.094	28.38	0.092
26.00	0.101	26.60	0.098	27.20	0.096	27.80	0.094	28.40	0.092
26.02	0.100	26.62	0.098	27.22	0.096	27.82	0.094	28.42	0.092
26.03	0.100	26.63	0.098	27.23	0.096	27.83	0.094	28.43	0.092
26.05	0.100	26.65	0.098	27.25	0.096	27.85	0.094	28.45	0.092
26.07	0.100	26.67	0.098	27.27	0.096	27.87	0.094	28.47	0.092
26.08	0.100	26.68	0.098	27.28	0.096	27.88	0.094	28.48	0.092
26.10	0.100	26.70	0.098	27.30	0.096	27.90	0.094	28.50	0.092
26.12	0.100	26.72	0.098	27.32	0.096	27.92	0.094	28.52	0.092
26.13	0.100	26.73	0.098	27.33	0.096	27.93	0.094	28.53	0.092
26.15	0.100	26.75	0.098	27.35	0.096	27.95	0.094	28.55	0.092
26.17	0.100	26.77	0.098	27.37	0.096	27.97	0.093	28.57	0.091

Printed values > 10% of Qpeak. nth-point print interval = 1

POST60

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
28.58	0.091	29.18	0.089	29.78	0.087	30.38	0.085	30.98	0.083
28.60	0.091	29.20	0.089	29.80	0.087	30.40	0.085	31.00	0.083
28.62	0.091	29.22	0.089	29.82	0.087	30.42	0.085	31.02	0.083
28.63	0.091	29.23	0.089	29.83	0.087	30.43	0.085	31.03	0.083
28.65	0.091	29.25	0.089	29.85	0.087	30.45	0.085	31.05	0.083
28.67	0.091	29.27	0.089	29.87	0.087	30.47	0.085	31.07	0.083
28.68	0.091	29.28	0.089	29.88	0.087	30.48	0.085	31.08	0.083
28.70	0.091	29.30	0.089	29.90	0.087	30.50	0.085	31.10	0.083
28.72	0.091	29.32	0.089	29.92	0.087	30.52	0.085	31.12	0.083
28.73	0.091	29.33	0.089	29.93	0.087	30.53	0.085	31.13	0.083
28.75	0.091	29.35	0.089	29.95	0.087	30.55	0.085	31.15	0.083
28.77	0.091	29.37	0.089	29.97	0.087	30.57	0.085	31.17	0.083
28.78	0.091	29.38	0.089	29.98	0.087	30.58	0.085	31.18	0.083
28.80	0.091	29.40	0.089	30.00	0.087	30.60	0.085	31.20	0.083
28.82	0.091	29.42	0.089	30.02	0.087	30.62	0.085	31.22	0.083
28.83	0.091	29.43	0.089	30.03	0.087	30.63	0.085	31.23	0.083
28.85	0.091	29.45	0.089	30.05	0.087	30.65	0.085	31.25	0.083
28.87	0.090	29.47	0.088	30.07	0.087	30.67	0.085	31.27	0.083
28.88	0.090	29.48	0.088	30.08	0.086	30.68	0.084	31.28	0.083
28.90	0.090	29.50	0.088	30.10	0.086	30.70	0.084	31.30	0.082
28.92	0.090	29.52	0.088	30.12	0.086	30.72	0.084	31.32	0.082
28.93	0.090	29.53	0.088	30.13	0.086	30.73	0.084	31.33	0.082
28.95	0.090	29.55	0.088	30.15	0.086	30.75	0.084	31.35	0.082
28.97	0.090	29.57	0.088	30.17	0.086	30.77	0.084	31.37	0.082
28.98	0.090	29.58	0.088	30.18	0.086	30.78	0.084	31.38	0.082
29.00	0.090	29.60	0.088	30.20	0.086	30.80	0.084	31.40	0.082
29.02	0.090	29.62	0.088	30.22	0.086	30.82	0.084	31.42	0.082
29.03	0.090	29.63	0.088	30.23	0.086	30.83	0.084	31.43	0.082
29.05	0.090	29.65	0.088	30.25	0.086	30.85	0.084	31.45	0.082
29.07	0.090	29.67	0.088	30.27	0.086	30.87	0.084	31.47	0.082
29.08	0.090	29.68	0.088	30.28	0.086	30.88	0.084	31.48	0.082
29.10	0.090	29.70	0.088	30.30	0.086	30.90	0.084	31.50	0.082
29.12	0.090	29.72	0.088	30.32	0.086	30.92	0.084	31.52	0.082
29.13	0.090	29.73	0.088	30.33	0.086	30.93	0.084	31.53	0.082
29.15	0.090	29.75	0.088	30.35	0.086	30.95	0.084	31.55	0.082
29.17	0.089	29.77	0.087	30.37	0.086	30.97	0.084	31.57	0.082

Printed values > 10% of Qpeak. nth-point print interval = 1

POST61

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
31.58	0.082	32.18	0.080	32.78	0.078	33.38	0.076	33.98	0.074
31.60	0.081	32.20	0.080	32.80	0.078	33.40	0.076	34.00	0.074
31.62	0.081	32.22	0.080	32.82	0.078	33.42	0.076	34.02	0.074
31.63	0.081	32.23	0.079	32.83	0.077	33.43	0.075	34.03	0.074
31.65	0.081	32.25	0.079	32.85	0.077	33.45	0.075	34.05	0.074
31.67	0.081	32.27	0.079	32.87	0.077	33.47	0.075	34.07	0.073
31.68	0.081	32.28	0.079	32.88	0.077	33.48	0.075	34.08	0.073
31.70	0.081	32.30	0.079	32.90	0.077	33.50	0.075	34.10	0.073
31.72	0.081	32.32	0.079	32.92	0.077	33.52	0.075	34.12	0.073
31.73	0.081	32.33	0.079	32.93	0.077	33.53	0.075	34.13	0.073
31.75	0.081	32.35	0.079	32.95	0.077	33.55	0.075	34.15	0.073
31.77	0.081	32.37	0.079	32.97	0.077	33.57	0.075	34.17	0.073
31.78	0.081	32.38	0.079	32.98	0.077	33.58	0.075	34.18	0.073
31.80	0.081	32.40	0.079	33.00	0.077	33.60	0.075	34.20	0.073
31.82	0.081	32.42	0.079	33.02	0.077	33.62	0.075	34.22	0.073
31.83	0.081	32.43	0.079	33.03	0.077	33.63	0.075	34.23	0.073
31.85	0.081	32.45	0.079	33.05	0.077	33.65	0.075	34.25	0.073
31.87	0.081	32.47	0.079	33.07	0.077	33.67	0.075	34.27	0.073
31.88	0.081	32.48	0.079	33.08	0.077	33.68	0.075	34.28	0.073
31.90	0.081	32.50	0.079	33.10	0.077	33.70	0.075	34.30	0.073
31.92	0.080	32.52	0.079	33.12	0.077	33.72	0.075	34.32	0.073
31.93	0.080	32.53	0.078	33.13	0.076	33.73	0.075	34.33	0.073
31.95	0.080	32.55	0.078	33.15	0.076	33.75	0.074	34.35	0.073
31.97	0.080	32.57	0.078	33.17	0.076	33.77	0.074	34.37	0.073
31.98	0.080	32.58	0.078	33.18	0.076	33.78	0.074	34.38	0.072
32.00	0.080	32.60	0.078	33.20	0.076	33.80	0.074	34.40	0.072
32.02	0.080	32.62	0.078	33.22	0.076	33.82	0.074	34.42	0.072
32.03	0.080	32.63	0.078	33.23	0.076	33.83	0.074	34.43	0.072
32.05	0.080	32.65	0.078	33.25	0.076	33.85	0.074	34.45	0.072
32.07	0.080	32.67	0.078	33.27	0.076	33.87	0.074	34.47	0.072
32.08	0.080	32.68	0.078	33.28	0.076	33.88	0.074	34.48	0.072
32.10	0.080	32.70	0.078	33.30	0.076	33.90	0.074	34.50	0.072
32.12	0.080	32.72	0.078	33.32	0.076	33.92	0.074	34.52	0.072
32.13	0.080	32.73	0.078	33.33	0.076	33.93	0.074	34.53	0.072
32.15	0.080	32.75	0.078	33.35	0.076	33.95	0.074	34.55	0.072
32.17	0.080	32.77	0.078	33.37	0.076	33.97	0.074	34.57	0.072

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
34.58	0.072	35.18	0.070	35.78	0.068	36.38	0.066	36.98	0.064
34.60	0.072	35.20	0.070	35.80	0.068	36.40	0.066	37.00	0.064
34.62	0.072	35.22	0.070	35.82	0.068	36.42	0.066	37.02	0.064
34.63	0.072	35.23	0.070	35.83	0.068	36.43	0.066	37.03	0.064
34.65	0.072	35.25	0.070	35.85	0.068	36.45	0.066	37.05	0.064
34.67	0.071	35.27	0.069	35.87	0.068	36.47	0.066	37.07	0.064
34.68	0.071	35.28	0.069	35.88	0.067	36.48	0.066	37.08	0.064
34.70	0.071	35.30	0.069	35.90	0.067	36.50	0.066	37.10	0.064
34.72	0.071	35.32	0.069	35.92	0.067	36.52	0.065	37.12	0.064
34.73	0.071	35.33	0.069	35.93	0.067	36.53	0.065	37.13	0.063
34.75	0.071	35.35	0.069	35.95	0.067	36.55	0.065	37.15	0.063
34.77	0.071	35.37	0.069	35.97	0.067	36.57	0.065	37.17	0.063
34.78	0.071	35.38	0.069	35.98	0.067	36.58	0.065	37.18	0.063
34.80	0.071	35.40	0.069	36.00	0.067	36.60	0.065	37.20	0.063
34.82	0.071	35.42	0.069	36.02	0.067	36.62	0.065	37.22	0.063
34.83	0.071	35.43	0.069	36.03	0.067	36.63	0.065	37.23	0.063
34.85	0.071	35.45	0.069	36.05	0.067	36.65	0.065	37.25	0.063
34.87	0.071	35.47	0.069	36.07	0.067	36.67	0.065	37.27	0.063
34.88	0.071	35.48	0.069	36.08	0.067	36.68	0.065	37.28	0.063
34.90	0.071	35.50	0.069	36.10	0.067	36.70	0.065	37.30	0.063
34.92	0.071	35.52	0.069	36.12	0.067	36.72	0.065	37.32	0.063
34.93	0.071	35.53	0.069	36.13	0.067	36.73	0.065	37.33	0.063
34.95	0.071	35.55	0.069	36.15	0.067	36.75	0.065	37.35	0.063
34.97	0.070	35.57	0.069	36.17	0.067	36.77	0.065	37.37	0.063
34.98	0.070	35.58	0.068	36.18	0.067	36.78	0.065	37.38	0.063
35.00	0.070	35.60	0.068	36.20	0.066	36.80	0.065	37.40	0.063
35.02	0.070	35.62	0.068	36.22	0.066	36.82	0.065	37.42	0.063
35.03	0.070	35.63	0.068	36.23	0.066	36.83	0.064	37.43	0.062
35.05	0.070	35.65	0.068	36.25	0.066	36.85	0.064	37.45	0.062
35.07	0.070	35.67	0.068	36.27	0.066	36.87	0.064	37.47	0.062
35.08	0.070	35.68	0.068	36.28	0.066	36.88	0.064	37.48	0.062
35.10	0.070	35.70	0.068	36.30	0.066	36.90	0.064	37.50	0.062
35.12	0.070	35.72	0.068	36.32	0.066	36.92	0.064	37.52	0.062
35.13	0.070	35.73	0.068	36.33	0.066	36.93	0.064	37.53	0.062
35.15	0.070	35.75	0.068	36.35	0.066	36.95	0.064	37.55	0.062
35.17	0.070	35.77	0.068	36.37	0.066	36.97	0.064	37.57	0.062

Printed values > 10% of Qpeak. nth-point print interval = 1

POST63

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
37.58	0.062	38.18	0.060	38.78	0.058	39.38	0.056	39.98	0.054
37.60	0.062	38.20	0.060	38.80	0.058	39.40	0.056	40.00	0.054
37.62	0.062	38.22	0.060	38.82	0.058	39.42	0.056	40.02	0.054
37.63	0.062	38.23	0.060	38.83	0.058	39.43	0.056	40.03	0.054
37.65	0.062	38.25	0.060	38.85	0.058	39.45	0.056	40.05	0.054
37.67	0.062	38.27	0.060	38.87	0.058	39.47	0.056	40.07	0.054
37.68	0.062	38.28	0.060	38.88	0.058	39.48	0.056	40.08	0.054
37.70	0.062	38.30	0.060	38.90	0.058	39.50	0.056	40.10	0.054
37.72	0.062	38.32	0.060	38.92	0.058	39.52	0.056	40.12	0.054
37.73	0.062	38.33	0.060	38.93	0.058	39.53	0.056	40.13	0.054
37.75	0.061	38.35	0.060	38.95	0.058	39.55	0.056	40.15	0.054
37.77	0.061	38.37	0.060	38.97	0.058	39.57	0.056	40.17	0.054
37.78	0.061	38.38	0.059	38.98	0.058	39.58	0.056	40.18	0.054
37.80	0.061	38.40	0.059	39.00	0.058	39.60	0.056	40.20	0.054
37.82	0.061	38.42	0.059	39.02	0.058	39.62	0.056	40.22	0.054
37.83	0.061	38.43	0.059	39.03	0.057	39.63	0.056	40.23	0.054
37.85	0.061	38.45	0.059	39.05	0.057	39.65	0.055	40.25	0.053
37.87	0.061	38.47	0.059	39.07	0.057	39.67	0.055	40.27	0.053
37.88	0.061	38.48	0.059	39.08	0.057	39.68	0.055	40.28	0.053
37.90	0.061	38.50	0.059	39.10	0.057	39.70	0.055	40.30	0.053
37.92	0.061	38.52	0.059	39.12	0.057	39.72	0.055	40.32	0.053
37.93	0.061	38.53	0.059	39.13	0.057	39.73	0.055	40.33	0.053
37.95	0.061	38.55	0.059	39.15	0.057	39.75	0.055	40.35	0.053
37.97	0.061	38.57	0.059	39.17	0.057	39.77	0.055	40.37	0.053
37.98	0.061	38.58	0.059	39.18	0.057	39.78	0.055	40.38	0.053
38.00	0.061	38.60	0.059	39.20	0.057	39.80	0.055	40.40	0.053
38.02	0.061	38.62	0.059	39.22	0.057	39.82	0.055	40.42	0.053
38.03	0.061	38.63	0.059	39.23	0.057	39.83	0.055	40.43	0.053
38.05	0.061	38.65	0.059	39.25	0.057	39.85	0.055	40.45	0.053
38.07	0.060	38.67	0.059	39.27	0.057	39.87	0.055	40.47	0.053
38.08	0.060	38.68	0.059	39.28	0.057	39.88	0.055	40.48	0.053
38.10	0.060	38.70	0.058	39.30	0.057	39.90	0.055	40.50	0.053
38.12	0.060	38.72	0.058	39.32	0.057	39.92	0.055	40.52	0.053
38.13	0.060	38.73	0.058	39.33	0.057	39.93	0.054	40.53	0.053
38.15	0.060	38.75	0.058	39.35	0.056	39.95	0.054	40.55	0.052
38.17	0.060	38.77	0.058	39.37	0.056	39.97	0.054	40.57	0.052

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
40.58	0.052	41.18	0.051	41.78	0.049	42.38	0.047	42.98	0.045
40.60	0.052	41.20	0.050	41.80	0.049	42.40	0.047	43.00	0.045
40.62	0.052	41.22	0.050	41.82	0.049	42.42	0.047	43.02	0.044
40.63	0.052	41.23	0.050	41.83	0.049	42.43	0.047	43.03	0.044
40.65	0.052	41.25	0.050	41.85	0.048	42.45	0.047	43.05	0.044
40.67	0.052	41.27	0.050	41.87	0.048	42.47	0.047	43.07	0.044
40.68	0.052	41.28	0.050	41.88	0.048	42.48	0.046	43.08	0.044
40.70	0.052	41.30	0.050	41.90	0.048	42.50	0.046	43.10	0.044
40.72	0.052	41.32	0.050	41.92	0.048	42.52	0.046	43.12	0.044
40.73	0.052	41.33	0.050	41.93	0.048	42.53	0.046	43.13	0.044
40.75	0.052	41.35	0.050	41.95	0.048	42.55	0.046	43.15	0.044
40.77	0.052	41.37	0.050	41.97	0.048	42.57	0.046	43.17	0.044
40.78	0.052	41.38	0.050	41.98	0.048	42.58	0.046	43.18	0.044
40.80	0.052	41.40	0.050	42.00	0.048	42.60	0.046	43.20	0.044
40.82	0.052	41.42	0.050	42.02	0.048	42.62	0.046	43.22	0.044
40.83	0.052	41.43	0.050	42.03	0.048	42.63	0.046	43.23	0.044
40.85	0.052	41.45	0.050	42.05	0.048	42.65	0.046	43.25	0.044
40.87	0.051	41.47	0.050	42.07	0.048	42.67	0.046	43.27	0.044
40.88	0.051	41.48	0.050	42.08	0.048	42.68	0.046	43.28	0.044
40.90	0.051	41.50	0.050	42.10	0.048	42.70	0.046	43.30	0.043
40.92	0.051	41.52	0.049	42.12	0.048	42.72	0.046	43.32	0.043
40.93	0.051	41.53	0.049	42.13	0.048	42.73	0.046	43.33	0.043
40.95	0.051	41.55	0.049	42.15	0.048	42.75	0.045	43.35	0.043
40.97	0.051	41.57	0.049	42.17	0.048	42.77	0.045	43.37	0.043
40.98	0.051	41.58	0.049	42.18	0.048	42.78	0.045	43.38	0.043
41.00	0.051	41.60	0.049	42.20	0.047	42.80	0.045	43.40	0.043
41.02	0.051	41.62	0.049	42.22	0.047	42.82	0.045	43.42	0.043
41.03	0.051	41.63	0.049	42.23	0.047	42.83	0.045	43.43	0.043
41.05	0.051	41.65	0.049	42.25	0.047	42.85	0.045	43.45	0.043
41.07	0.051	41.67	0.049	42.27	0.047	42.87	0.045	43.47	0.043
41.08	0.051	41.68	0.049	42.28	0.047	42.88	0.045	43.48	0.043
41.10	0.051	41.70	0.049	42.30	0.047	42.90	0.045	43.50	0.043
41.12	0.051	41.72	0.049	42.32	0.047	42.92	0.045	43.52	0.043
41.13	0.051	41.73	0.049	42.33	0.047	42.93	0.045	43.53	0.043
41.15	0.051	41.75	0.049	42.35	0.047	42.95	0.045	43.55	0.043
41.17	0.051	41.77	0.049	42.37	0.047	42.97	0.045	43.57	0.043

Printed values > 10% of Qpeak. nth-point print interval = 1

POST65

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
43.58	0.042	44.18	0.040	44.78	0.039	45.38	0.037	45.98	0.035
43.60	0.042	44.20	0.040	44.80	0.038	45.40	0.037	46.00	0.035
43.62	0.042	44.22	0.040	44.82	0.038	45.42	0.037	46.02	0.035
43.63	0.042	44.23	0.040	44.83	0.038	45.43	0.037	46.03	0.035
43.65	0.042	44.25	0.040	44.85	0.038	45.45	0.036	46.05	0.035
43.67	0.042	44.27	0.040	44.87	0.038	45.47	0.036	46.07	0.035
43.68	0.042	44.28	0.040	44.88	0.038	45.48	0.036	46.08	0.035
43.70	0.042	44.30	0.040	44.90	0.038	45.50	0.036	46.10	0.035
43.72	0.042	44.32	0.040	44.92	0.038	45.52	0.036	46.12	0.035
43.73	0.042	44.33	0.040	44.93	0.038	45.53	0.036	46.13	0.034
43.75	0.042	44.35	0.040	44.95	0.038	45.55	0.036	46.15	0.034
43.77	0.042	44.37	0.040	44.97	0.038	45.57	0.036	46.17	0.034
43.78	0.042	44.38	0.040	44.98	0.038	45.58	0.036	46.18	0.034
43.80	0.042	44.40	0.040	45.00	0.038	45.60	0.036	46.20	0.034
43.82	0.042	44.42	0.040	45.02	0.038	45.62	0.036	46.22	0.034
43.83	0.042	44.43	0.040	45.03	0.038	45.63	0.036	46.23	0.034
43.85	0.042	44.45	0.040	45.05	0.038	45.65	0.036	46.25	0.034
43.87	0.041	44.47	0.040	45.07	0.038	45.67	0.036	46.27	0.034
43.88	0.041	44.48	0.039	45.08	0.038	45.68	0.036	46.28	0.034
43.90	0.041	44.50	0.039	45.10	0.038	45.70	0.036	46.30	0.034
43.92	0.041	44.52	0.039	45.12	0.037	45.72	0.036	46.32	0.034
43.93	0.041	44.53	0.039	45.13	0.037	45.73	0.036	46.33	0.034
43.95	0.041	44.55	0.039	45.15	0.037	45.75	0.036	46.35	0.034
43.97	0.041	44.57	0.039	45.17	0.037	45.77	0.036	46.37	0.034
43.98	0.041	44.58	0.039	45.18	0.037	45.78	0.035	46.38	0.033
44.00	0.041	44.60	0.039	45.20	0.037	45.80	0.035	46.40	0.033
44.02	0.041	44.62	0.039	45.22	0.037	45.82	0.035	46.42	0.033
44.03	0.041	44.63	0.039	45.23	0.037	45.83	0.035	46.43	0.033
44.05	0.041	44.65	0.039	45.25	0.037	45.85	0.035	46.45	0.033
44.07	0.041	44.67	0.039	45.27	0.037	45.87	0.035	46.47	0.033
44.08	0.041	44.68	0.039	45.28	0.037	45.88	0.035	46.48	0.033
44.10	0.041	44.70	0.039	45.30	0.037	45.90	0.035	46.50	0.033
44.12	0.041	44.72	0.039	45.32	0.037	45.92	0.035	46.52	0.033
44.13	0.041	44.73	0.039	45.33	0.037	45.93	0.035	46.53	0.033
44.15	0.041	44.75	0.039	45.35	0.037	45.95	0.035	46.55	0.033
44.17	0.040	44.77	0.039	45.37	0.037	45.97	0.035	46.57	0.033

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
46.58	0.033	47.18	0.030	47.78	0.028				
46.60	0.032	47.20	0.030	47.80	0.028				
46.62	0.032	47.22	0.030	47.82	0.027				
46.63	0.032	47.23	0.030	47.83	0.027				
46.65	0.032	47.25	0.030	47.85	0.027				
46.67	0.032	47.27	0.030	47.87	0.027				
46.68	0.032	47.28	0.030	47.88	0.027				
46.70	0.032	47.30	0.030	47.90	0.027				
46.72	0.032	47.32	0.029	47.92	0.027				
46.73	0.032	47.33	0.029	47.93	0.027				
46.75	0.032	47.35	0.029	47.95	0.027				
46.77	0.032	47.37	0.029	47.97	0.027				
46.78	0.032	47.38	0.029	47.98	0.027				
46.80	0.032	47.40	0.029	...end	...end				
46.82	0.032	47.42	0.029						
46.83	0.031	47.43	0.029						
46.85	0.031	47.45	0.029						
46.87	0.031	47.47	0.029						
46.88	0.031	47.48	0.029						
46.90	0.031	47.50	0.029						
46.92	0.031	47.52	0.029						
46.93	0.031	47.53	0.029						
46.95	0.031	47.55	0.029						
46.97	0.031	47.57	0.028						
46.98	0.031	47.58	0.028						
47.00	0.031	47.60	0.028						
47.02	0.031	47.62	0.028						
47.03	0.031	47.63	0.028						
47.05	0.031	47.65	0.028						
47.07	0.030	47.67	0.028						
47.08	0.030	47.68	0.028						
47.10	0.030	47.70	0.028						
47.12	0.030	47.72	0.028						
47.13	0.030	47.73	0.028						
47.15	0.030	47.75	0.028						
47.17	0.030	47.77	0.028						

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

PROP SWQB #2

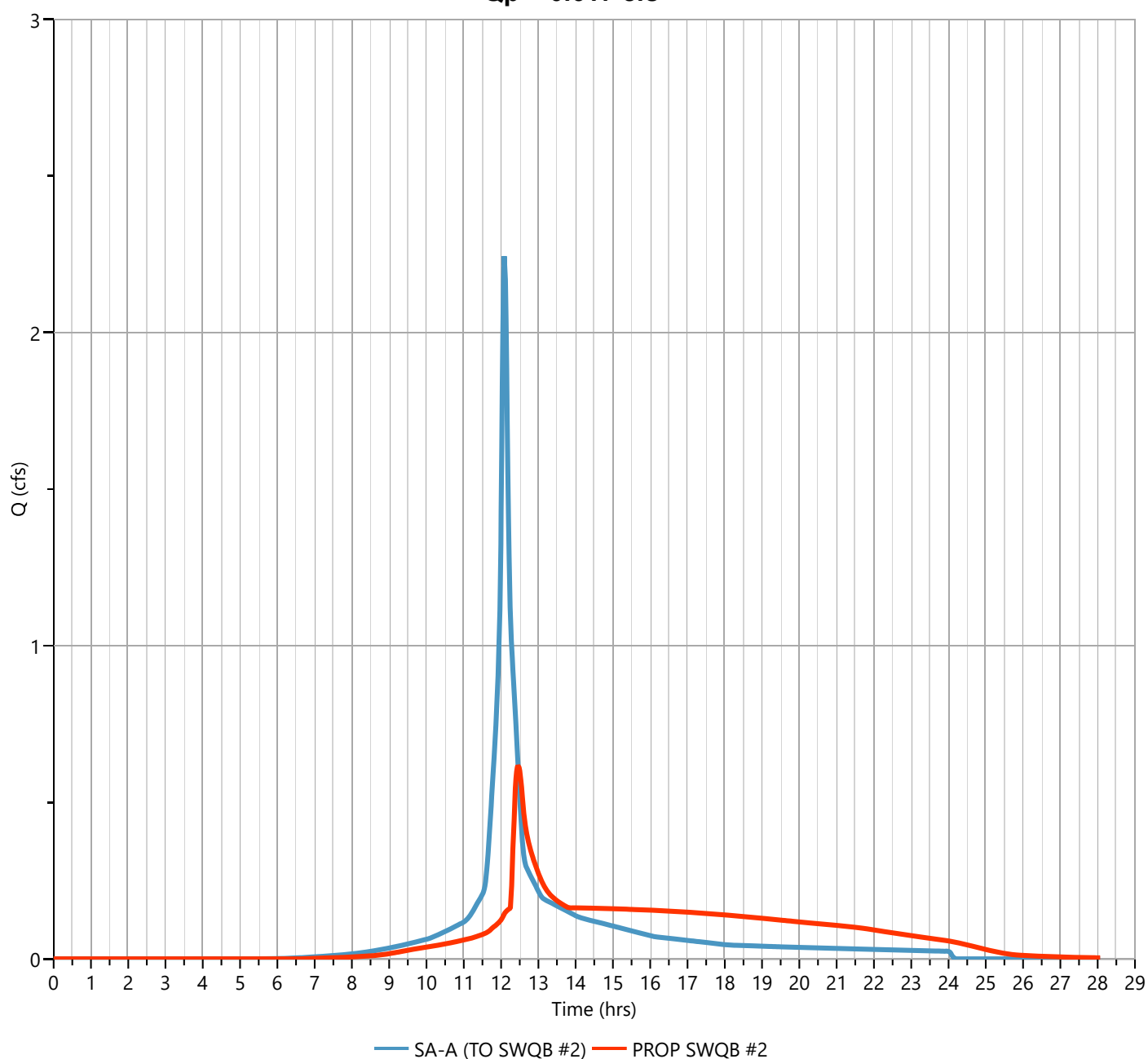
Hyd. No. 5

Hydrograph Type	= Pond Route	Peak Flow	= 0.617 cfs
Storm Frequency	= 2-yr	Time to Peak	= 12.45 hrs
Time Interval	= 1 min	Hydrograph Volume	= 7,300 cuft
Inflow Hydrograph	= 2 - SA-A (TO SWQB #2)	Max. Elevation	= 82.64 ft
Pond Name	= PRO SWQB #2	Max. Storage	= 3,095 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 2.97 hrs

Qp = 0.617 cfs



Hydrograph Discharge Table

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.07	0.062	11.67	0.088	12.27	0.163	12.87	0.318	13.47	0.189
11.08	0.062	11.68	0.089	12.28	0.233	12.88	0.312	13.48	0.187
11.10	0.063	11.70	0.091	12.30	0.295	12.90	0.306	13.50	0.186
11.12	0.063	11.72	0.093	12.32	0.350	12.92	0.300	13.52	0.184
11.13	0.064	11.73	0.094	12.33	0.396	12.93	0.295	13.53	0.183
11.15	0.064	11.75	0.096	12.35	0.443	12.95	0.289	13.55	0.181
11.17	0.065	11.77	0.098	12.37	0.500	12.97	0.284	13.57	0.180
11.18	0.065	11.78	0.100	12.38	0.544	12.98	0.279	13.58	0.179
11.20	0.066	11.80	0.102	12.40	0.576	13.00	0.274	13.60	0.177
11.22	0.067	11.82	0.103	12.42	0.598	13.02	0.269	13.62	0.176
11.23	0.067	11.83	0.105	12.43	0.611	13.03	0.264	13.63	0.175
11.25	0.068	11.85	0.106	12.45	0.617	13.05	0.259	13.65	0.174
11.27	0.068	11.87	0.108	12.47	0.617	13.07	0.254	13.67	0.172
11.28	0.069	11.88	0.110	12.48	0.611	13.08	0.250	13.68	0.171
11.30	0.069	11.90	0.111	12.50	0.600	13.10	0.245	13.70	0.170
11.32	0.070	11.92	0.113	12.52	0.586	13.12	0.241	13.72	0.169
11.33	0.071	11.93	0.115	12.53	0.568	13.13	0.237	13.73	0.168
11.35	0.071	11.95	0.117	12.55	0.548	13.15	0.233	13.75	0.167
11.37	0.072	11.97	0.119	12.57	0.526	13.17	0.230	13.77	0.165
11.38	0.073	11.98	0.122	12.58	0.503	13.18	0.226	13.78	0.164
11.40	0.073	12.00	0.124	12.60	0.481	13.20	0.223	13.80	0.163
11.42	0.074	12.02	0.127	12.62	0.459	13.22	0.220	13.82	0.163
11.43	0.075	12.03	0.131	12.63	0.438	13.23	0.217	13.83	0.163
11.45	0.076	12.05	0.134	12.65	0.422	13.25	0.214	13.85	0.163
11.47	0.076	12.07	0.138	12.67	0.412	13.27	0.212	13.87	0.163
11.48	0.077	12.08	0.142	12.68	0.402	13.28	0.209	13.88	0.163
11.50	0.078	12.10	0.146	12.70	0.393	13.30	0.207	13.90	0.163
11.52	0.079	12.12	0.148	12.72	0.384	13.32	0.205	13.92	0.163
11.53	0.079	12.13	0.151	12.73	0.375	13.33	0.203	13.93	0.163
11.55	0.080	12.15	0.153	12.75	0.367	13.35	0.201	13.95	0.163
11.57	0.081	12.17	0.155	12.77	0.359	13.37	0.199	13.97	0.163
11.58	0.082	12.18	0.157	12.78	0.351	13.38	0.197	13.98	0.163
11.60	0.083	12.20	0.158	12.80	0.344	13.40	0.195	14.00	0.163
11.62	0.084	12.22	0.160	12.82	0.337	13.42	0.193	14.02	0.163
11.63	0.085	12.23	0.161	12.83	0.331	13.43	0.192	14.03	0.163
11.65	0.086	12.25	0.162	12.85	0.324	13.45	0.190	14.05	0.163

Printed values > 10% of Qpeak. nth-point print interval = 1

POST69

Hydrograph Discharge Table, cont'd

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
14.07	0.163	14.67	0.161	15.27	0.159	15.87	0.156	16.47	0.152
14.08	0.163	14.68	0.161	15.28	0.159	15.88	0.156	16.48	0.152
14.10	0.163	14.70	0.161	15.30	0.159	15.90	0.156	16.50	0.152
14.12	0.162	14.72	0.161	15.32	0.159	15.92	0.156	16.52	0.152
14.13	0.162	14.73	0.161	15.33	0.158	15.93	0.155	16.53	0.152
14.15	0.162	14.75	0.161	15.35	0.158	15.95	0.155	16.55	0.152
14.17	0.162	14.77	0.161	15.37	0.158	15.97	0.155	16.57	0.152
14.18	0.162	14.78	0.161	15.38	0.158	15.98	0.155	16.58	0.152
14.20	0.162	14.80	0.161	15.40	0.158	16.00	0.155	16.60	0.151
14.22	0.162	14.82	0.161	15.42	0.158	16.02	0.155	16.62	0.151
14.23	0.162	14.83	0.160	15.43	0.158	16.03	0.155	16.63	0.151
14.25	0.162	14.85	0.160	15.45	0.158	16.05	0.155	16.65	0.151
14.27	0.162	14.87	0.160	15.47	0.158	16.07	0.155	16.67	0.151
14.28	0.162	14.88	0.160	15.48	0.158	16.08	0.155	16.68	0.151
14.30	0.162	14.90	0.160	15.50	0.158	16.10	0.155	16.70	0.151
14.32	0.162	14.92	0.160	15.52	0.158	16.12	0.154	16.72	0.151
14.33	0.162	14.93	0.160	15.53	0.158	16.13	0.154	16.73	0.151
14.35	0.162	14.95	0.160	15.55	0.157	16.15	0.154	16.75	0.151
14.37	0.162	14.97	0.160	15.57	0.157	16.17	0.154	16.77	0.150
14.38	0.162	14.98	0.160	15.58	0.157	16.18	0.154	16.78	0.150
14.40	0.162	15.00	0.160	15.60	0.157	16.20	0.154	16.80	0.150
14.42	0.162	15.02	0.160	15.62	0.157	16.22	0.154	16.82	0.150
14.43	0.162	15.03	0.160	15.63	0.157	16.23	0.154	16.83	0.150
14.45	0.162	15.05	0.160	15.65	0.157	16.25	0.154	16.85	0.150
14.47	0.162	15.07	0.160	15.67	0.157	16.27	0.154	16.87	0.150
14.48	0.162	15.08	0.160	15.68	0.157	16.28	0.153	16.88	0.150
14.50	0.162	15.10	0.159	15.70	0.157	16.30	0.153	16.90	0.150
14.52	0.161	15.12	0.159	15.72	0.157	16.32	0.153	16.92	0.149
14.53	0.161	15.13	0.159	15.73	0.157	16.33	0.153	16.93	0.149
14.55	0.161	15.15	0.159	15.75	0.156	16.35	0.153	16.95	0.149
14.57	0.161	15.17	0.159	15.77	0.156	16.37	0.153	16.97	0.149
14.58	0.161	15.18	0.159	15.78	0.156	16.38	0.153	16.98	0.149
14.60	0.161	15.20	0.159	15.80	0.156	16.40	0.153	17.00	0.149
14.62	0.161	15.22	0.159	15.82	0.156	16.42	0.153	17.02	0.149
14.63	0.161	15.23	0.159	15.83	0.156	16.43	0.153	17.03	0.149
14.65	0.161	15.25	0.159	15.85	0.156	16.45	0.152	17.05	0.149

Hydrograph Discharge Table, cont'd

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
17.07	0.148	17.67	0.144	18.27	0.137	18.87	0.131	19.47	0.124
17.08	0.148	17.68	0.144	18.28	0.137	18.88	0.130	19.48	0.124
17.10	0.148	17.70	0.144	18.30	0.137	18.90	0.130	19.50	0.123
17.12	0.148	17.72	0.143	18.32	0.137	18.92	0.130	19.52	0.123
17.13	0.148	17.73	0.143	18.33	0.137	18.93	0.130	19.53	0.123
17.15	0.148	17.75	0.143	18.35	0.136	18.95	0.130	19.55	0.123
17.17	0.148	17.77	0.143	18.37	0.136	18.97	0.129	19.57	0.123
17.18	0.148	17.78	0.143	18.38	0.136	18.98	0.129	19.58	0.123
17.20	0.148	17.80	0.142	18.40	0.136	19.00	0.129	19.60	0.122
17.22	0.147	17.82	0.142	18.42	0.136	19.02	0.129	19.62	0.122
17.23	0.147	17.83	0.142	18.43	0.135	19.03	0.129	19.63	0.122
17.25	0.147	17.85	0.142	18.45	0.135	19.05	0.129	19.65	0.122
17.27	0.147	17.87	0.142	18.47	0.135	19.07	0.128	19.67	0.122
17.28	0.147	17.88	0.142	18.48	0.135	19.08	0.128	19.68	0.121
17.30	0.147	17.90	0.141	18.50	0.135	19.10	0.128	19.70	0.121
17.32	0.147	17.92	0.141	18.52	0.135	19.12	0.128	19.72	0.121
17.33	0.147	17.93	0.141	18.53	0.134	19.13	0.128	19.73	0.121
17.35	0.147	17.95	0.141	18.55	0.134	19.15	0.127	19.75	0.121
17.37	0.146	17.97	0.141	18.57	0.134	19.17	0.127	19.77	0.120
17.38	0.146	17.98	0.140	18.58	0.134	19.18	0.127	19.78	0.120
17.40	0.146	18.00	0.140	18.60	0.134	19.20	0.127	19.80	0.120
17.42	0.146	18.02	0.140	18.62	0.133	19.22	0.127	19.82	0.120
17.43	0.146	18.03	0.140	18.63	0.133	19.23	0.126	19.83	0.120
17.45	0.146	18.05	0.140	18.65	0.133	19.25	0.126	19.85	0.120
17.47	0.146	18.07	0.140	18.67	0.133	19.27	0.126	19.87	0.119
17.48	0.146	18.08	0.139	18.68	0.133	19.28	0.126	19.88	0.119
17.50	0.145	18.10	0.139	18.70	0.132	19.30	0.126	19.90	0.119
17.52	0.145	18.12	0.139	18.72	0.132	19.32	0.126	19.92	0.119
17.53	0.145	18.13	0.139	18.73	0.132	19.33	0.125	19.93	0.119
17.55	0.145	18.15	0.139	18.75	0.132	19.35	0.125	19.95	0.118
17.57	0.145	18.17	0.138	18.77	0.132	19.37	0.125	19.97	0.118
17.58	0.145	18.18	0.138	18.78	0.132	19.38	0.125	19.98	0.118
17.60	0.145	18.20	0.138	18.80	0.131	19.40	0.125	20.00	0.118
17.62	0.144	18.22	0.138	18.82	0.131	19.42	0.124	20.02	0.118
17.63	0.144	18.23	0.138	18.83	0.131	19.43	0.124	20.03	0.117
17.65	0.144	18.25	0.138	18.85	0.131	19.45	0.124	20.05	0.117

Hydrograph Discharge Table, cont'd

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
20.07	0.117	20.67	0.110	21.27	0.104	21.87	0.095	22.47	0.084
20.08	0.117	20.68	0.110	21.28	0.103	21.88	0.094	22.48	0.083
20.10	0.117	20.70	0.110	21.30	0.103	21.90	0.094	22.50	0.083
20.12	0.116	20.72	0.110	21.32	0.103	21.92	0.094	22.52	0.083
20.13	0.116	20.73	0.110	21.33	0.103	21.93	0.093	22.53	0.082
20.15	0.116	20.75	0.109	21.35	0.103	21.95	0.093	22.55	0.082
20.17	0.116	20.77	0.109	21.37	0.102	21.97	0.093	22.57	0.082
20.18	0.116	20.78	0.109	21.38	0.102	21.98	0.092	22.58	0.081
20.20	0.116	20.80	0.109	21.40	0.102	22.00	0.092	22.60	0.081
20.22	0.115	20.82	0.109	21.42	0.102	22.02	0.092	22.62	0.081
20.23	0.115	20.83	0.108	21.43	0.102	22.03	0.091	22.63	0.081
20.25	0.115	20.85	0.108	21.45	0.101	22.05	0.091	22.65	0.080
20.27	0.115	20.87	0.108	21.47	0.101	22.07	0.091	22.67	0.080
20.28	0.115	20.88	0.108	21.48	0.101	22.08	0.091	22.68	0.080
20.30	0.114	20.90	0.108	21.50	0.101	22.10	0.090	22.70	0.079
20.32	0.114	20.92	0.107	21.52	0.101	22.12	0.090	22.72	0.079
20.33	0.114	20.93	0.107	21.53	0.101	22.13	0.090	22.73	0.079
20.35	0.114	20.95	0.107	21.55	0.100	22.15	0.089	22.75	0.078
20.37	0.114	20.97	0.107	21.57	0.100	22.17	0.089	22.77	0.078
20.38	0.113	20.98	0.107	21.58	0.100	22.18	0.089	22.78	0.078
20.40	0.113	21.00	0.107	21.60	0.100	22.20	0.088	22.80	0.078
20.42	0.113	21.02	0.106	21.62	0.099	22.22	0.088	22.82	0.077
20.43	0.113	21.03	0.106	21.63	0.099	22.23	0.088	22.83	0.077
20.45	0.113	21.05	0.106	21.65	0.099	22.25	0.087	22.85	0.077
20.47	0.113	21.07	0.106	21.67	0.098	22.27	0.087	22.87	0.076
20.48	0.112	21.08	0.106	21.68	0.098	22.28	0.087	22.88	0.076
20.50	0.112	21.10	0.105	21.70	0.098	22.30	0.087	22.90	0.076
20.52	0.112	21.12	0.105	21.72	0.097	22.32	0.086	22.92	0.075
20.53	0.112	21.13	0.105	21.73	0.097	22.33	0.086	22.93	0.075
20.55	0.112	21.15	0.105	21.75	0.097	22.35	0.086	22.95	0.075
20.57	0.111	21.17	0.105	21.77	0.096	22.37	0.085	22.97	0.075
20.58	0.111	21.18	0.104	21.78	0.096	22.38	0.085	22.98	0.074
20.60	0.111	21.20	0.104	21.80	0.096	22.40	0.085	23.00	0.074
20.62	0.111	21.22	0.104	21.82	0.096	22.42	0.084	23.02	0.074
20.63	0.111	21.23	0.104	21.83	0.095	22.43	0.084	23.03	0.073
20.65	0.110	21.25	0.104	21.85	0.095	22.45	0.084	23.05	0.073

Hydrograph Discharge Table, cont'd

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
23.07	0.073	23.67	0.063						
23.08	0.073	23.68	0.062						
23.10	0.072	23.70	0.062						
23.12	0.072	23.72	0.062						
23.13	0.072	...end	...end						
23.15	0.071								
23.17	0.071								
23.18	0.071								
23.20	0.070								
23.22	0.070								
23.23	0.070								
23.25	0.070								
23.27	0.069								
23.28	0.069								
23.30	0.069								
23.32	0.069								
23.33	0.068								
23.35	0.068								
23.37	0.068								
23.38	0.067								
23.40	0.067								
23.42	0.067								
23.43	0.067								
23.45	0.066								
23.47	0.066								
23.48	0.066								
23.50	0.065								
23.52	0.065								
23.53	0.065								
23.55	0.064								
23.57	0.064								
23.58	0.064								
23.60	0.064								
23.62	0.063								
23.63	0.063								
23.65	0.063								

Hydrograph Report

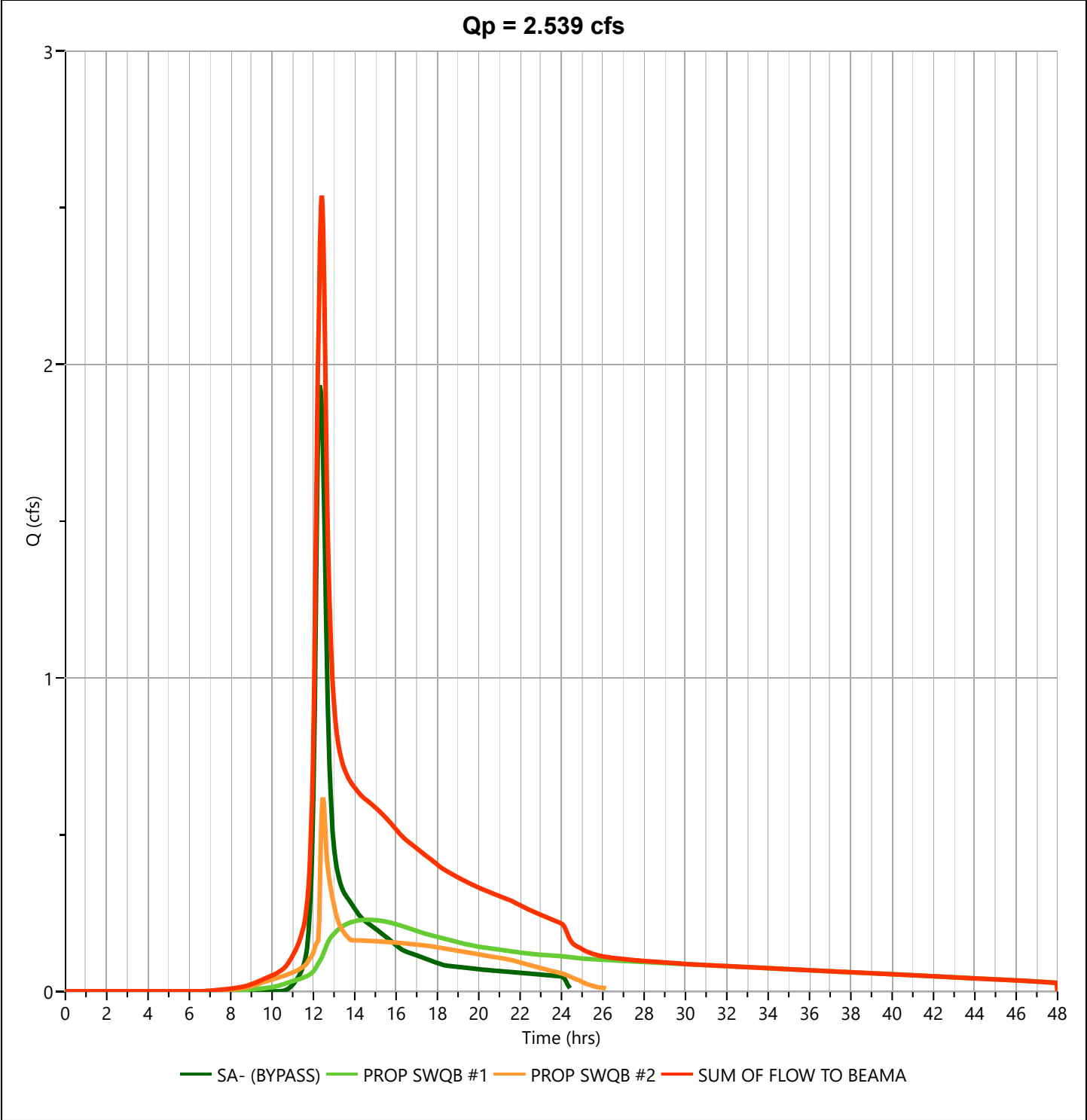
Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield
File: 3566-POST.hys
03-13-2025

Post SUM OF FLOW TO BEAMA

Hyd. No. 6

Hydrograph Type	= Junction	Peak Flow	= 2.539 cfs
Storm Frequency	= 2-yr	Time to Peak	= 12.40 hrs
Time Interval	= 1 min	Hydrograph Volume	= 30,339 cuft
Inflow Hydrographs	= 3	Total Contrib. Area	= 2.466 ac



Hydrograph Discharge Table

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.67	0.262	12.27	2.153	12.87	1.074	13.47	0.715	14.07	0.644
11.68	0.272	12.28	2.248	12.88	1.049	13.48	0.712	14.08	0.643
11.70	0.283	12.30	2.325	12.90	1.025	13.50	0.709	14.10	0.641
11.72	0.296	12.32	2.383	12.92	1.002	13.52	0.706	14.12	0.640
11.73	0.310	12.33	2.426	12.93	0.982	13.53	0.704	14.13	0.638
11.75	0.325	12.35	2.462	12.95	0.962	13.55	0.701	14.15	0.637
11.77	0.342	12.37	2.505	12.97	0.945	13.57	0.699	14.17	0.636
11.78	0.360	12.38	2.530	12.98	0.928	13.58	0.696	14.18	0.634
11.80	0.380	12.40	2.539	13.00	0.912	13.60	0.694	14.20	0.633
11.82	0.401	12.42	2.534	13.02	0.898	13.62	0.691	14.22	0.632
11.83	0.424	12.43	2.515	13.03	0.885	13.63	0.689	14.23	0.630
11.85	0.449	12.45	2.485	13.05	0.873	13.65	0.687	14.25	0.629
11.87	0.475	12.47	2.444	13.07	0.861	13.67	0.685	14.27	0.628
11.88	0.504	12.48	2.393	13.08	0.851	13.68	0.682	14.28	0.626
11.90	0.535	12.50	2.336	13.10	0.841	13.70	0.680	14.30	0.625
11.92	0.568	12.52	2.270	13.12	0.832	13.72	0.678	14.32	0.624
11.93	0.605	12.53	2.198	13.13	0.823	13.73	0.675	14.33	0.623
11.95	0.646	12.55	2.121	13.15	0.814	13.75	0.673	14.35	0.622
11.97	0.693	12.57	2.039	13.17	0.806	13.77	0.671	14.37	0.621
11.98	0.748	12.58	1.954	13.18	0.799	13.78	0.668	14.38	0.620
12.00	0.812	12.60	1.869	13.20	0.791	13.80	0.666	14.40	0.619
12.02	0.885	12.62	1.785	13.22	0.784	13.82	0.665	14.42	0.618
12.03	0.966	12.63	1.702	13.23	0.778	13.83	0.664	14.43	0.617
12.05	1.054	12.65	1.629	13.25	0.771	13.85	0.662	14.45	0.616
12.07	1.147	12.67	1.565	13.27	0.766	13.87	0.661	14.47	0.615
12.08	1.244	12.68	1.505	13.28	0.760	13.88	0.660	14.48	0.614
12.10	1.342	12.70	1.450	13.30	0.755	13.90	0.658	14.50	0.613
12.12	1.440	12.72	1.400	13.32	0.750	13.92	0.657	14.52	0.613
12.13	1.538	12.73	1.353	13.33	0.745	13.93	0.656	14.53	0.612
12.15	1.636	12.75	1.310	13.35	0.740	13.95	0.654	14.55	0.611
12.17	1.733	12.77	1.270	13.37	0.736	13.97	0.653	14.57	0.610
12.18	1.825	12.78	1.232	13.38	0.732	13.98	0.652	14.58	0.609
12.20	1.912	12.80	1.196	13.40	0.728	14.00	0.650	14.60	0.608
12.22	1.991	12.82	1.162	13.42	0.725	14.02	0.649	14.62	0.607
12.23	2.059	12.83	1.131	13.43	0.721	14.03	0.647	14.63	0.607
12.25	2.113	12.85	1.102	13.45	0.718	14.05	0.646	14.65	0.606

Hydrograph Discharge Table, cont'd

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
14.67	0.605	15.27	0.570	15.87	0.527	16.47	0.484	17.07	0.452
14.68	0.604	15.28	0.569	15.88	0.526	16.48	0.483	17.08	0.451
14.70	0.603	15.30	0.567	15.90	0.524	16.50	0.482	17.10	0.451
14.72	0.602	15.32	0.566	15.92	0.523	16.52	0.481	17.12	0.450
14.73	0.601	15.33	0.565	15.93	0.522	16.53	0.480	17.13	0.449
14.75	0.600	15.35	0.564	15.95	0.520	16.55	0.479	17.15	0.448
14.77	0.600	15.37	0.563	15.97	0.519	16.57	0.478	17.17	0.447
14.78	0.599	15.38	0.562	15.98	0.518	16.58	0.478	17.18	0.446
14.80	0.598	15.40	0.561	16.00	0.516	16.60	0.477	17.20	0.445
14.82	0.597	15.42	0.560	16.02	0.515	16.62	0.476	17.22	0.444
14.83	0.596	15.43	0.558	16.03	0.514	16.63	0.475	17.23	0.443
14.85	0.595	15.45	0.557	16.05	0.512	16.65	0.474	17.25	0.443
14.87	0.594	15.47	0.556	16.07	0.511	16.67	0.473	17.27	0.442
14.88	0.593	15.48	0.555	16.08	0.510	16.68	0.472	17.28	0.441
14.90	0.592	15.50	0.554	16.10	0.508	16.70	0.472	17.30	0.440
14.92	0.591	15.52	0.553	16.12	0.507	16.72	0.471	17.32	0.439
14.93	0.590	15.53	0.551	16.13	0.506	16.73	0.470	17.33	0.438
14.95	0.589	15.55	0.550	16.15	0.505	16.75	0.469	17.35	0.437
14.97	0.588	15.57	0.549	16.17	0.503	16.77	0.468	17.37	0.436
14.98	0.587	15.58	0.548	16.18	0.502	16.78	0.467	17.38	0.436
15.00	0.586	15.60	0.547	16.20	0.501	16.80	0.466	17.40	0.435
15.02	0.585	15.62	0.546	16.22	0.500	16.82	0.465	17.42	0.434
15.03	0.584	15.63	0.544	16.23	0.498	16.83	0.465	17.43	0.433
15.05	0.583	15.65	0.543	16.25	0.497	16.85	0.464	17.45	0.432
15.07	0.582	15.67	0.542	16.27	0.496	16.87	0.463	17.47	0.432
15.08	0.581	15.68	0.541	16.28	0.495	16.88	0.462	17.48	0.431
15.10	0.580	15.70	0.539	16.30	0.494	16.90	0.461	17.50	0.430
15.12	0.579	15.72	0.538	16.32	0.493	16.92	0.460	17.52	0.429
15.13	0.578	15.73	0.537	16.33	0.492	16.93	0.459	17.53	0.428
15.15	0.577	15.75	0.536	16.35	0.491	16.95	0.458	17.55	0.428
15.17	0.576	15.77	0.534	16.37	0.490	16.97	0.458	17.57	0.427
15.18	0.575	15.78	0.533	16.38	0.489	16.98	0.457	17.58	0.426
15.20	0.574	15.80	0.532	16.40	0.488	17.00	0.456	17.60	0.425
15.22	0.573	15.82	0.531	16.42	0.487	17.02	0.455	17.62	0.424
15.23	0.572	15.83	0.529	16.43	0.486	17.03	0.454	17.63	0.423
15.25	0.571	15.85	0.528	16.45	0.485	17.05	0.453	17.65	0.422

Hydrograph Discharge Table, cont'd

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
17.67	0.422	18.27	0.390	18.87	0.368	19.47	0.347	20.07	0.329
17.68	0.421	18.28	0.390	18.88	0.367	19.48	0.347	20.08	0.328
17.70	0.420	18.30	0.389	18.90	0.367	19.50	0.346	20.10	0.328
17.72	0.419	18.32	0.388	18.92	0.366	19.52	0.346	20.12	0.327
17.73	0.418	18.33	0.387	18.93	0.366	19.53	0.345	20.13	0.327
17.75	0.417	18.35	0.387	18.95	0.365	19.55	0.344	20.15	0.326
17.77	0.416	18.37	0.386	18.97	0.364	19.57	0.344	20.17	0.326
17.78	0.415	18.38	0.385	18.98	0.364	19.58	0.343	20.18	0.326
17.80	0.415	18.40	0.385	19.00	0.363	19.60	0.343	20.20	0.325
17.82	0.414	18.42	0.384	19.02	0.363	19.62	0.342	20.22	0.325
17.83	0.413	18.43	0.383	19.03	0.362	19.63	0.342	20.23	0.324
17.85	0.412	18.45	0.383	19.05	0.362	19.65	0.341	20.25	0.324
17.87	0.411	18.47	0.382	19.07	0.361	19.67	0.340	20.27	0.323
17.88	0.410	18.48	0.382	19.08	0.360	19.68	0.340	20.28	0.323
17.90	0.409	18.50	0.381	19.10	0.360	19.70	0.339	20.30	0.322
17.92	0.408	18.52	0.380	19.12	0.359	19.72	0.339	20.32	0.322
17.93	0.408	18.53	0.380	19.13	0.359	19.73	0.338	20.33	0.321
17.95	0.407	18.55	0.379	19.15	0.358	19.75	0.338	20.35	0.321
17.97	0.406	18.57	0.378	19.17	0.357	19.77	0.337	20.37	0.320
17.98	0.405	18.58	0.378	19.18	0.357	19.78	0.337	20.38	0.320
18.00	0.404	18.60	0.377	19.20	0.356	19.80	0.336	20.40	0.320
18.02	0.403	18.62	0.377	19.22	0.356	19.82	0.336	20.42	0.319
18.03	0.402	18.63	0.376	19.23	0.355	19.83	0.335	20.43	0.319
18.05	0.401	18.65	0.376	19.25	0.355	19.85	0.335	20.45	0.318
18.07	0.400	18.67	0.375	19.27	0.354	19.87	0.335	20.47	0.318
18.08	0.400	18.68	0.374	19.28	0.353	19.88	0.334	20.48	0.317
18.10	0.399	18.70	0.374	19.30	0.353	19.90	0.334	20.50	0.317
18.12	0.398	18.72	0.373	19.32	0.352	19.92	0.333	20.52	0.316
18.13	0.397	18.73	0.373	19.33	0.352	19.93	0.333	20.53	0.316
18.15	0.396	18.75	0.372	19.35	0.351	19.95	0.332	20.55	0.316
18.17	0.395	18.77	0.371	19.37	0.351	19.97	0.332	20.57	0.315
18.18	0.394	18.78	0.371	19.38	0.350	19.98	0.331	20.58	0.315
18.20	0.394	18.80	0.370	19.40	0.350	20.00	0.331	20.60	0.314
18.22	0.393	18.82	0.370	19.42	0.349	20.02	0.330	20.62	0.314
18.23	0.392	18.83	0.369	19.43	0.348	20.03	0.330	20.63	0.313
18.25	0.391	18.85	0.368	19.45	0.348	20.05	0.329	20.65	0.313

Hydrograph Discharge Table, cont'd

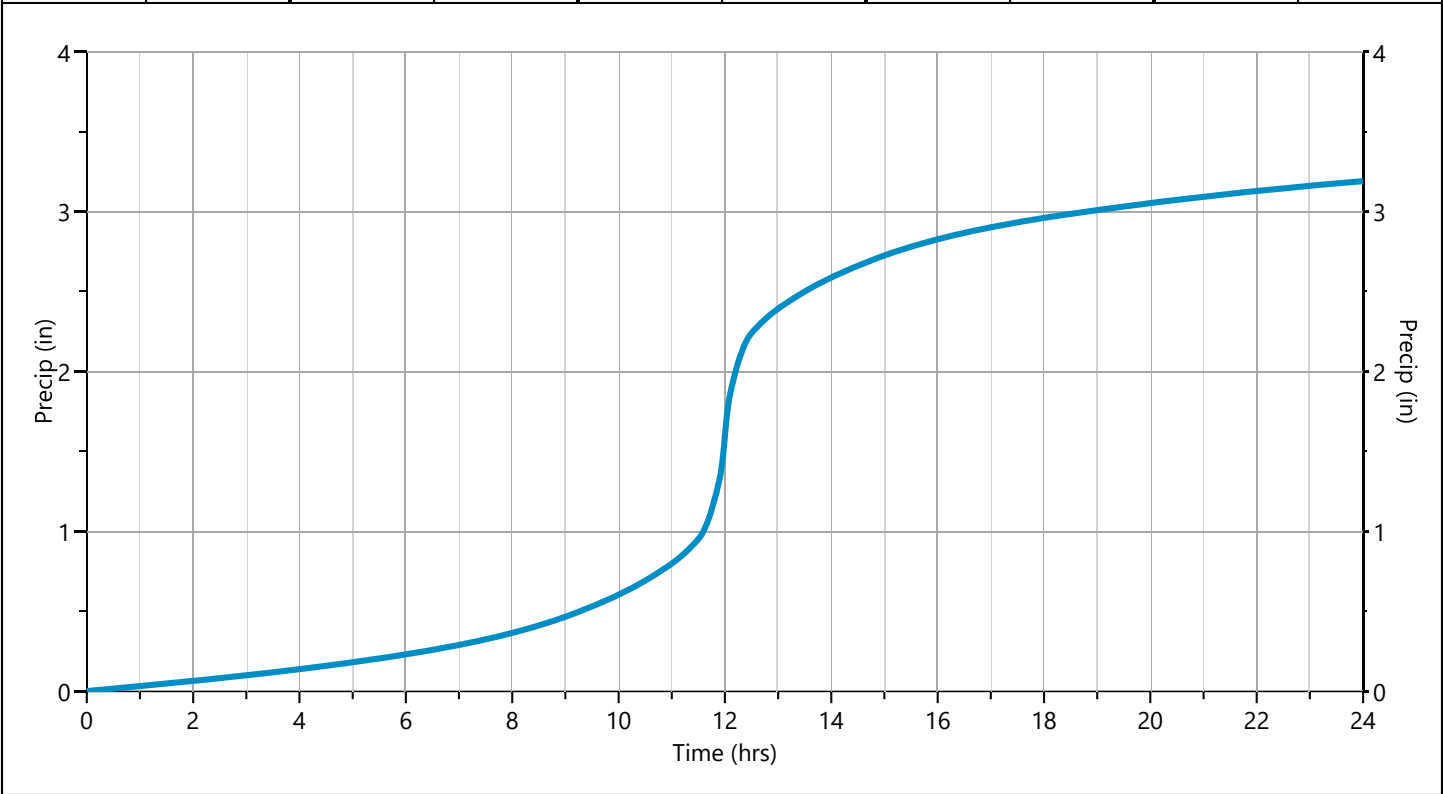
SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
20.67	0.312	21.27	0.297	21.87	0.279	22.47	0.259		
20.68	0.312	21.28	0.296	21.88	0.278	22.48	0.259		
20.70	0.312	21.30	0.296	21.90	0.278	22.50	0.258		
20.72	0.311	21.32	0.295	21.92	0.277	22.52	0.258		
20.73	0.311	21.33	0.295	21.93	0.277	22.53	0.257		
20.75	0.310	21.35	0.295	21.95	0.276	22.55	0.257		
20.77	0.310	21.37	0.294	21.97	0.276	22.57	0.256		
20.78	0.309	21.38	0.294	21.98	0.275	22.58	0.256		
20.80	0.309	21.40	0.293	22.00	0.275	22.60	0.255		
20.82	0.309	21.42	0.293	22.02	0.274	22.62	0.255		
20.83	0.308	21.43	0.292	22.03	0.273	22.63	0.254		
20.85	0.308	21.45	0.292	22.05	0.273	22.65	0.254		
20.87	0.307	21.47	0.292	22.07	0.272	22.67	0.253		
20.88	0.307	21.48	0.291	22.08	0.272	...end	...end		
20.90	0.306	21.50	0.291	22.10	0.271				
20.92	0.306	21.52	0.290	22.12	0.271				
20.93	0.305	21.53	0.290	22.13	0.270				
20.95	0.305	21.55	0.289	22.15	0.270				
20.97	0.305	21.57	0.289	22.17	0.269				
20.98	0.304	21.58	0.289	22.18	0.269				
21.00	0.304	21.60	0.288	22.20	0.268				
21.02	0.303	21.62	0.287	22.22	0.267				
21.03	0.303	21.63	0.287	22.23	0.267				
21.05	0.302	21.65	0.286	22.25	0.266				
21.07	0.302	21.67	0.286	22.27	0.266				
21.08	0.302	21.68	0.285	22.28	0.265				
21.10	0.301	21.70	0.285	22.30	0.265				
21.12	0.301	21.72	0.284	22.32	0.264				
21.13	0.300	21.73	0.283	22.33	0.264				
21.15	0.300	21.75	0.283	22.35	0.263				
21.17	0.299	21.77	0.282	22.37	0.262				
21.18	0.299	21.78	0.282	22.38	0.262				
21.20	0.298	21.80	0.281	22.40	0.261				
21.22	0.298	21.82	0.281	22.42	0.261				
21.23	0.298	21.83	0.280	22.43	0.260				
21.25	0.297	21.85	0.280	22.45	0.260				

Storm Distribution: NRCS/SCS - Type III, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	1-yr	✓ 2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
24 hrs	2.55	3.19	0.00	4.24	5.10	6.30	7.17	8.14	

Incremental Rainfall Distribution, 2-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.006286	11.68	0.014515	11.87	0.023092	12.05	0.047930	12.23	0.019193
11.52	0.006699	11.70	0.015294	11.88	0.023872	12.07	0.041390	12.25	0.018413
11.53	0.007496	11.72	0.016074	11.90	0.024652	12.08	0.034851	12.27	0.017634
11.55	0.008276	11.73	0.016854	11.92	0.028402	12.10	0.028311	12.28	0.016854
11.57	0.009056	11.75	0.017634	11.93	0.034851	12.12	0.024745	12.30	0.016074
11.58	0.009836	11.77	0.018413	11.95	0.041390	12.13	0.023872	12.32	0.015294
11.60	0.010616	11.78	0.019193	11.97	0.047930	12.15	0.023092	12.33	0.014514
11.62	0.011395	11.80	0.019973	11.98	0.054469	12.17	0.022312	12.35	0.013735
11.63	0.012175	11.82	0.020753	12.00	0.061009	12.18	0.021533	12.37	0.012955
11.65	0.012955	11.83	0.021532	12.02	0.060863	12.20	0.020753	12.38	0.012175
11.67	0.013735	11.85	0.022312	12.03	0.054469	12.22	0.019973	12.40	0.011395



Hydrograph 5-yr Summary

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

Hydrology Studio v 3.0.0.36

03-13-2025

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Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

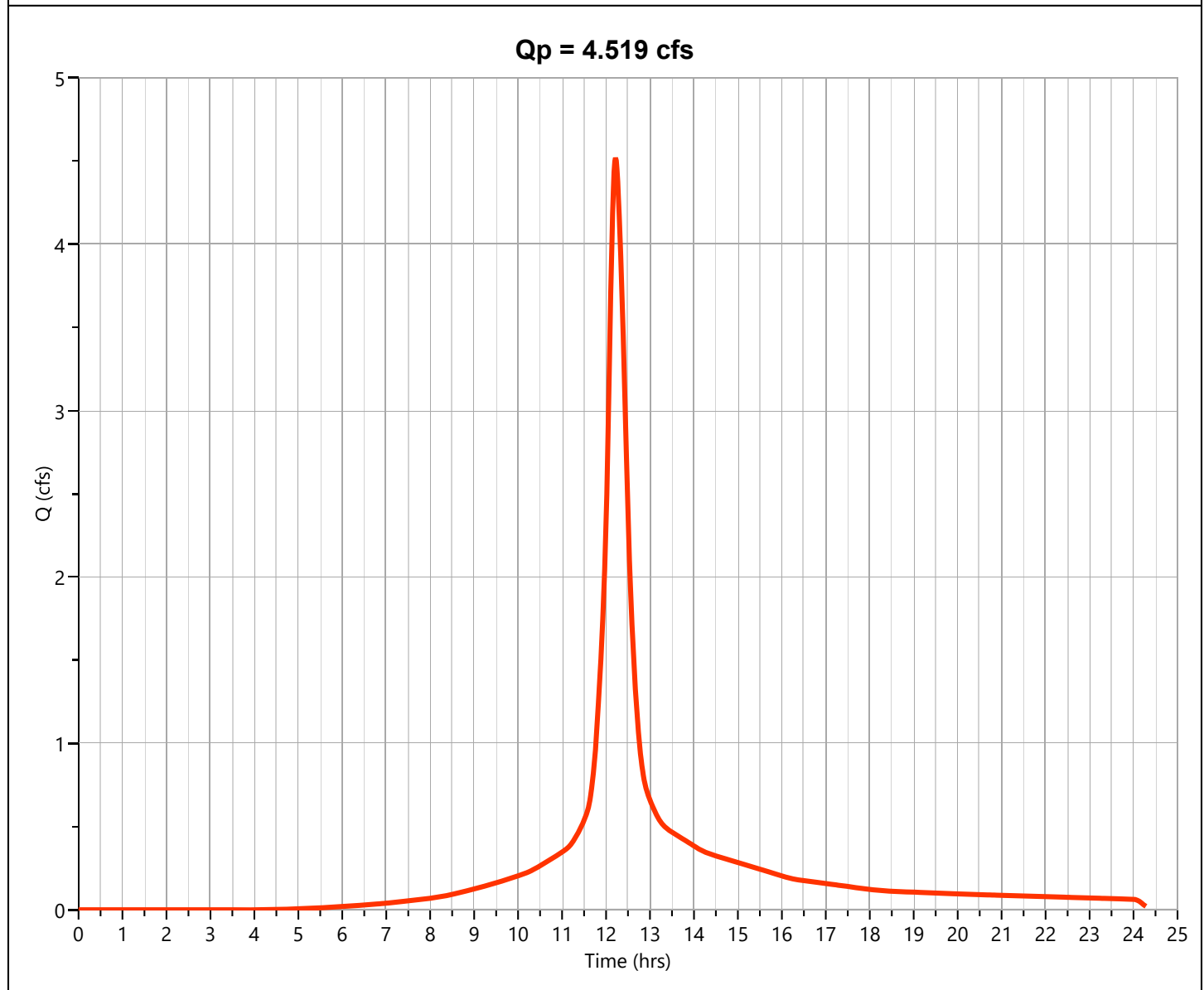
Post SA A(TO SWQB #1)

Hyd. No. 1

Hydrograph Type	= NRCS Runoff	Peak Flow	= 4.519 cfs
Storm Frequency	= 5-yr	Time to Peak	= 12.22 hrs
Time Interval	= 1 min	Runoff Volume	= 20,501 cuft
Drainage Area	= 1.739 ac	Curve Number	= 91*
Tc Method	= User	Time of Conc. (Tc)	= 19.1 min
Total Rainfall	= 4.24 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
1.234	98	C-PAVED/ROOF
0.505	74	C-LAWN/LANDSCAPES
1.739	91	Weighted CN Method Employed



POST81

Hydrograph Discharge Table

SA A(TO SWQB #1)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.35	0.455	11.95	1.891	12.55	1.975	13.15	0.570		
11.37	0.464	11.97	2.016	12.57	1.862	13.17	0.561		
11.38	0.472	11.98	2.158	12.58	1.758	13.18	0.553		
11.40	0.481	12.00	2.323	12.60	1.663	13.20	0.545		
11.42	0.490	12.02	2.509	12.62	1.574	13.22	0.538		
11.43	0.499	12.03	2.712	12.63	1.489	13.23	0.531		
11.45	0.509	12.05	2.926	12.65	1.408	13.25	0.525		
11.47	0.518	12.07	3.148	12.67	1.332	13.27	0.519		
11.48	0.528	12.08	3.372	12.68	1.260	13.28	0.514		
11.50	0.538	12.10	3.593	12.70	1.194	13.30	0.509		
11.52	0.548	12.12	3.806	12.72	1.133	13.32	0.504		
11.53	0.558	12.13	4.004	12.73	1.077	13.33	0.499		
11.55	0.570	12.15	4.179	12.75	1.026	13.35	0.495		
11.57	0.583	12.17	4.325	12.77	0.980	13.37	0.491		
11.58	0.598	12.18	4.434	12.78	0.937	13.38	0.488		
11.60	0.615	12.20	4.499	12.80	0.899	13.40	0.484		
11.62	0.635	12.22	4.519	12.82	0.865	13.42	0.481		
11.63	0.658	12.23	4.501	12.83	0.835	13.43	0.478		
11.65	0.684	12.25	4.451	12.85	0.807	13.45	0.475		
11.67	0.715	12.27	4.375	12.87	0.782	13.47	0.472		
11.68	0.749	12.28	4.280	12.88	0.761	13.48	0.469		
11.70	0.789	12.30	4.173	12.90	0.741	13.50	0.466		
11.72	0.833	12.32	4.056	12.92	0.724	13.52	0.463		
11.73	0.882	12.33	3.931	12.93	0.708	13.53	0.461		
11.75	0.936	12.35	3.799	12.95	0.694	13.55	0.458		
11.77	0.994	12.37	3.659	12.97	0.681	13.57	0.455		
11.78	1.056	12.38	3.512	12.98	0.670	13.58	0.452		
11.80	1.123	12.40	3.360	13.00	0.659	13.60	0.450		
11.82	1.193	12.42	3.202	13.02	0.648	...end	...end		
11.83	1.266	12.43	3.039	13.03	0.638				
11.85	1.343	12.45	2.873	13.05	0.627				
11.87	1.424	12.47	2.707	13.07	0.617				
11.88	1.507	12.48	2.544	13.08	0.607				
11.90	1.593	12.50	2.386	13.10	0.597				
11.92	1.684	12.52	2.237	13.12	0.588				
11.93	1.782	12.53	2.099	13.13	0.578				

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

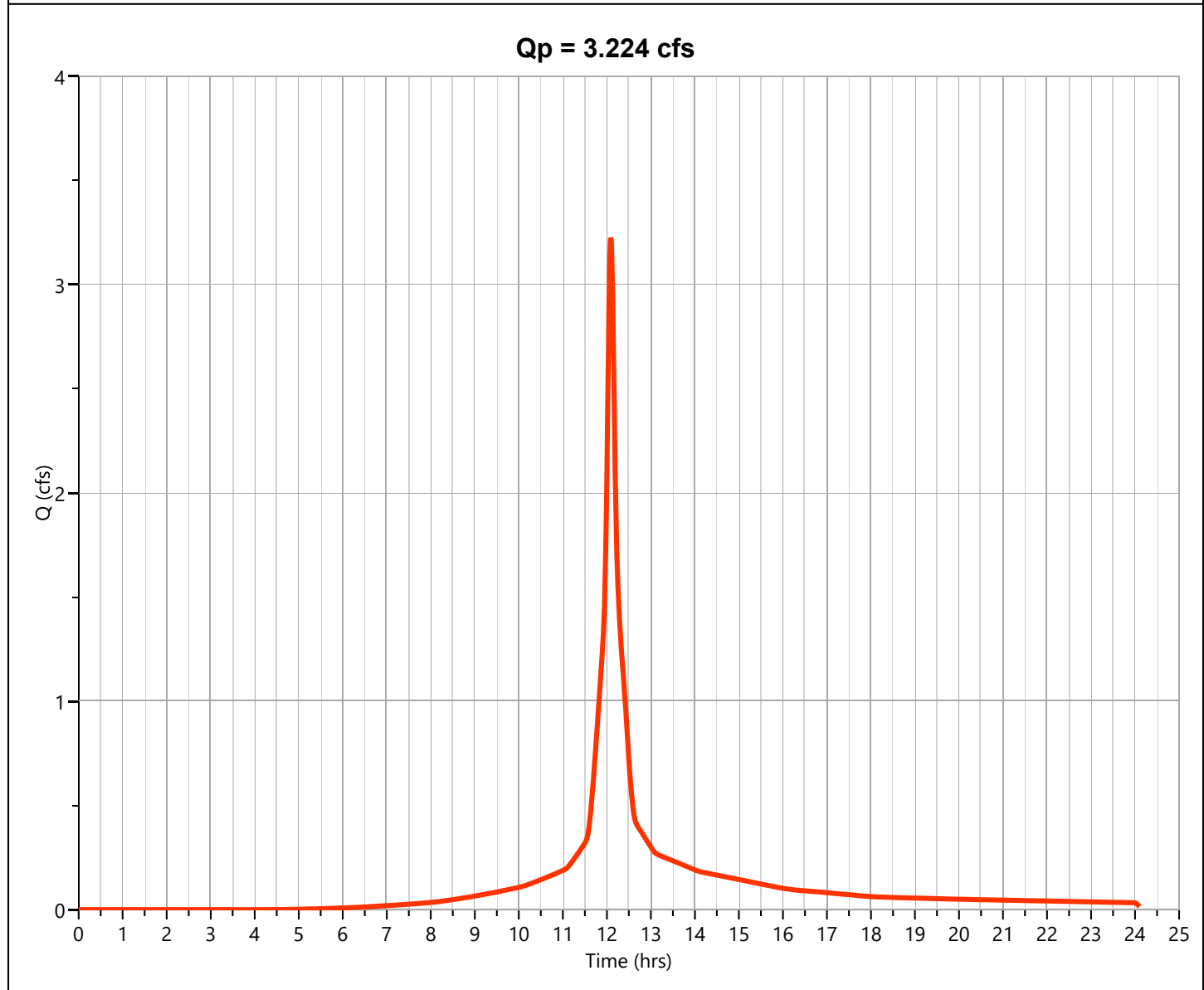
Post SA-A (TO SWQB #2)

Hyd. No. 2

Hydrograph Type	= NRCS Runoff	Peak Flow	= 3.224 cfs
Storm Frequency	= 5-yr	Time to Peak	= 12.08 hrs
Time Interval	= 1 min	Runoff Volume	= 10,649 cuft
Drainage Area	= 0.956 ac	Curve Number	= 90*
Tc Method	= User	Time of Conc. (Tc)	= 7.6 min
Total Rainfall	= 4.24 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.649	98	C-PAVED
0.307	74	C-LAWN/LANDSCAPED
0.956	90	Weighted CN Method Employed



POST83

Hydrograph Discharge Table

SA-A (TO SWQB #2)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.52	0.324	12.12	3.103	12.72	0.394				
11.53	0.332	12.13	2.919	12.73	0.389				
11.55	0.343	12.15	2.687	12.75	0.383				
11.57	0.358	12.17	2.436	12.77	0.378				
11.58	0.378	12.18	2.193	12.78	0.372				
11.60	0.404	12.20	1.978	12.80	0.367				
11.62	0.435	12.22	1.799	12.82	0.361				
11.63	0.471	12.23	1.660	12.83	0.355				
11.65	0.510	12.25	1.552	12.85	0.350				
11.67	0.553	12.27	1.469	12.87	0.344				
11.68	0.597	12.28	1.404	12.88	0.339				
11.70	0.644	12.30	1.350	12.90	0.333				
11.72	0.691	12.32	1.299	12.92	0.328				
11.73	0.739	12.33	1.249	12.93	0.322				
11.75	0.787	12.35	1.197	...end	...end				
11.77	0.836	12.37	1.146						
11.78	0.885	12.38	1.094						
11.80	0.935	12.40	1.042						
11.82	0.985	12.42	0.990						
11.83	1.036	12.43	0.938						
11.85	1.088	12.45	0.886						
11.87	1.140	12.47	0.833						
11.88	1.193	12.48	0.780						
11.90	1.247	12.50	0.727						
11.92	1.306	12.52	0.675						
11.93	1.383	12.53	0.625						
11.95	1.488	12.55	0.578						
11.97	1.634	12.57	0.537						
11.98	1.831	12.58	0.502						
12.00	2.083	12.60	0.474						
12.02	2.372	12.62	0.452						
12.03	2.663	12.63	0.435						
12.05	2.925	12.65	0.422						
12.07	3.124	12.67	0.413						
12.08	3.224	12.68	0.405						
12.10	3.213	12.70	0.400						

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

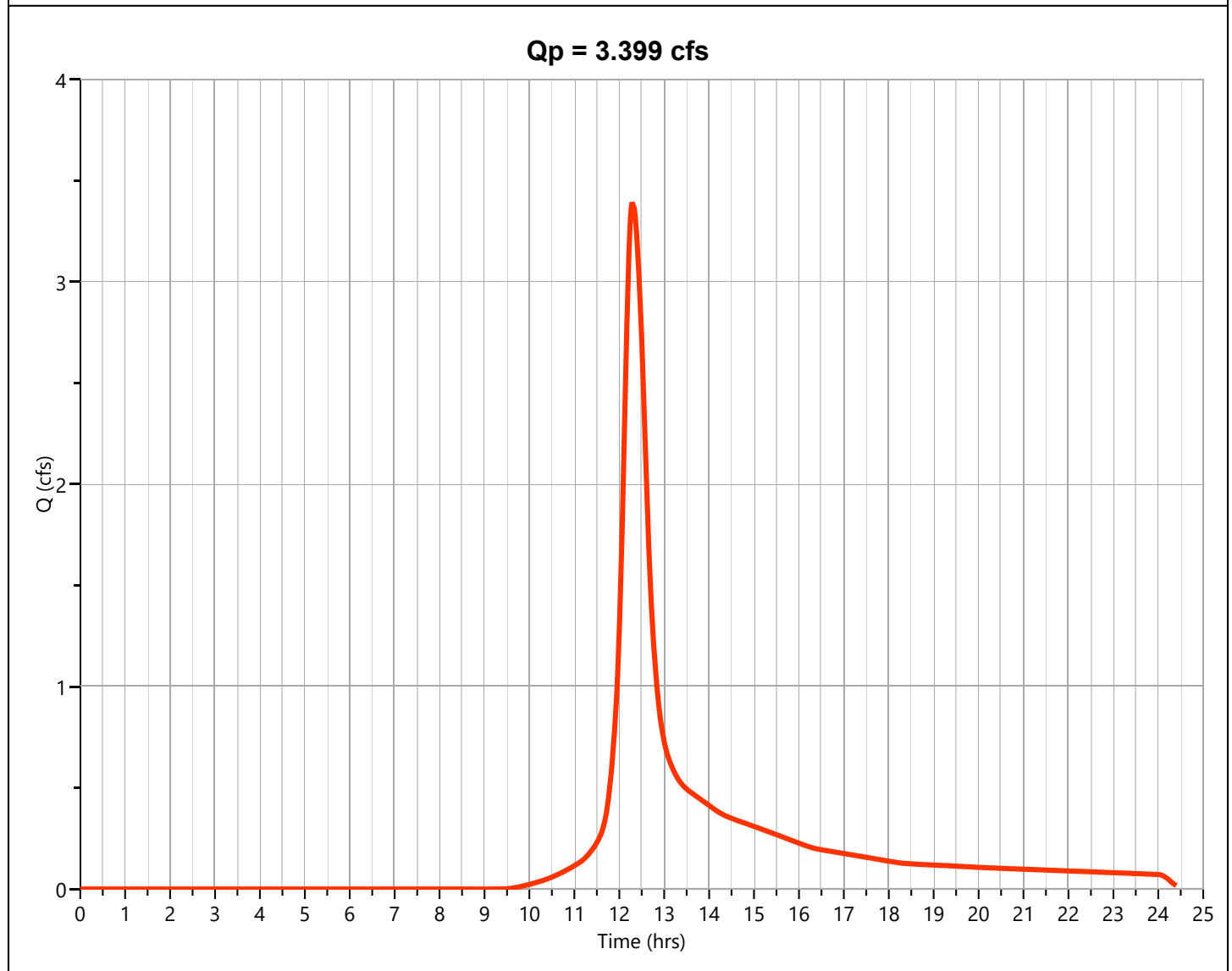
Post SA- (BYPASS)

Hyd. No. 3

Hydrograph Type	= NRCS Runoff	Peak Flow	= 3.399 cfs
Storm Frequency	= 5-yr	Time to Peak	= 12.30 hrs
Time Interval	= 1 min	Runoff Volume	= 16,630 cuft
Drainage Area	= 2.466 ac	Curve Number	= 75.12*
Tc Method	= User	Time of Conc. (Tc)	= 24.7 min
Total Rainfall	= 4.24 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.118	74	C-GRASS
1.128	70	C-WOODED
0.858	77	D-WOODED
0.362	87	C-RAILROAD ROW
2.466	75	Weighted CN Method Employed



POST85

Hydrograph Discharge Table

SA- (BYPASS)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.68	0.342	12.28	3.393	12.88	0.901	13.48	0.497	14.08	0.399
11.70	0.361	12.30	3.399	12.90	0.869	13.50	0.493	14.10	0.397
11.72	0.382	12.32	3.389	12.92	0.840	13.52	0.490	14.12	0.394
11.73	0.405	12.33	3.365	12.93	0.813	13.53	0.487	14.13	0.391
11.75	0.431	12.35	3.332	12.95	0.789	13.55	0.484	14.15	0.389
11.77	0.460	12.37	3.291	12.97	0.766	13.57	0.481	14.17	0.386
11.78	0.492	12.38	3.243	12.98	0.746	13.58	0.479	14.18	0.384
11.80	0.527	12.40	3.187	13.00	0.727	13.60	0.476	14.20	0.381
11.82	0.565	12.42	3.124	13.02	0.710	13.62	0.473	14.22	0.379
11.83	0.605	12.43	3.054	13.03	0.695	13.63	0.471	14.23	0.377
11.85	0.649	12.45	2.978	13.05	0.680	13.65	0.468	14.25	0.375
11.87	0.696	12.47	2.895	13.07	0.667	13.67	0.465	14.27	0.373
11.88	0.745	12.48	2.807	13.08	0.655	13.68	0.463	14.28	0.371
11.90	0.798	12.50	2.712	13.10	0.644	13.70	0.460	14.30	0.369
11.92	0.855	12.52	2.613	13.12	0.634	13.72	0.458	14.32	0.367
11.93	0.918	12.53	2.508	13.13	0.625	13.73	0.455	14.33	0.365
11.95	0.988	12.55	2.400	13.15	0.615	13.75	0.453	14.35	0.363
11.97	1.068	12.57	2.288	13.17	0.607	13.77	0.450	14.37	0.361
11.98	1.160	12.58	2.174	13.18	0.598	13.78	0.447	14.38	0.359
12.00	1.267	12.60	2.059	13.20	0.590	13.80	0.445	14.40	0.358
12.02	1.388	12.62	1.946	13.22	0.582	13.82	0.442	14.42	0.356
12.03	1.521	12.63	1.837	13.23	0.574	13.83	0.439	14.43	0.355
12.05	1.665	12.65	1.732	13.25	0.567	13.85	0.437	14.45	0.353
12.07	1.816	12.67	1.635	13.27	0.560	13.87	0.434	14.47	0.352
12.08	1.971	12.68	1.547	13.28	0.553	13.88	0.431	14.48	0.350
12.10	2.128	12.70	1.466	13.30	0.547	13.90	0.429	14.50	0.349
12.12	2.286	12.72	1.392	13.32	0.541	13.92	0.426	14.52	0.347
12.13	2.443	12.73	1.325	13.33	0.535	13.93	0.423	14.53	0.346
12.15	2.598	12.75	1.264	13.35	0.530	13.95	0.421	14.55	0.345
12.17	2.750	12.77	1.206	13.37	0.525	13.97	0.418	14.57	0.343
12.18	2.894	12.78	1.153	13.38	0.520	13.98	0.415	14.58	0.342
12.20	3.027	12.80	1.103	13.40	0.516	14.00	0.413	14.60	0.341
12.22	3.145	12.82	1.056	13.42	0.512	14.02	0.410	14.62	0.339
12.23	3.243	12.83	1.013	13.43	0.507	14.03	0.407	...end	...end
12.25	3.317	12.85	0.972	13.45	0.504	14.05	0.405		
12.27	3.366	12.87	0.935	13.47	0.500	14.07	0.402		

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

PROP SWQB #1

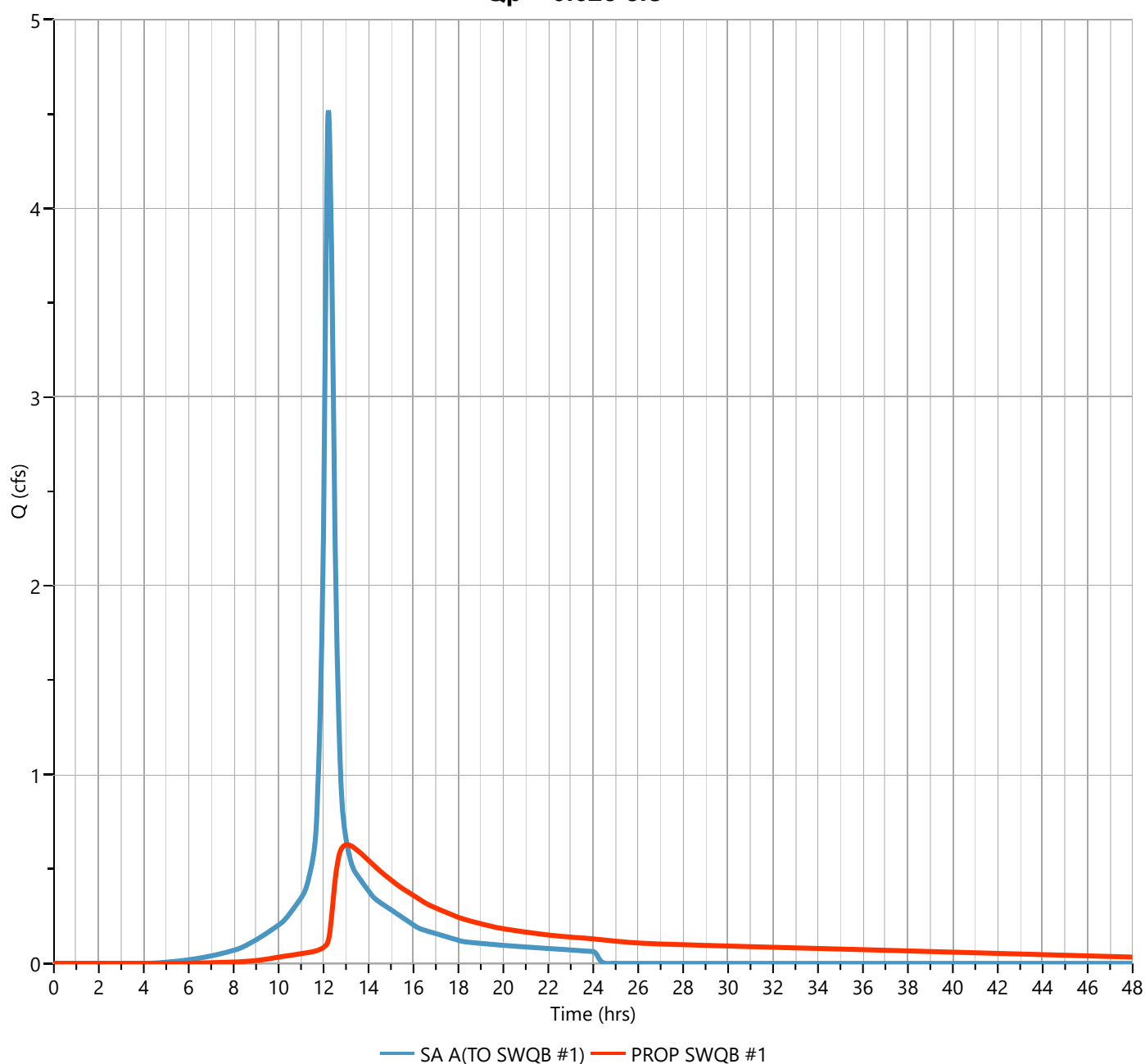
Hyd. No. 4

Hydrograph Type	= Pond Route	Peak Flow	= 0.628 cfs
Storm Frequency	= 5-yr	Time to Peak	= 13.05 hrs
Time Interval	= 1 min	Hydrograph Volume	= 19,390 cuft
Inflow Hydrograph	= 1 - SA A(TO SWQB #1)	Max. Elevation	= 82.88 ft
Pond Name	= PROP SWQB #1	Max. Storage	= 11,740 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 8.59 hrs

Qp = 0.628 cfs



Hydrograph Discharge Table

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.57	0.063	12.17	0.105	12.77	0.600	13.37	0.611	13.97	0.550
11.58	0.063	12.18	0.110	12.78	0.605	13.38	0.610	13.98	0.548
11.60	0.064	12.20	0.115	12.80	0.608	13.40	0.608	14.00	0.546
11.62	0.064	12.22	0.122	12.82	0.612	13.42	0.607	14.02	0.544
11.63	0.065	12.23	0.132	12.83	0.614	13.43	0.605	14.03	0.542
11.65	0.065	12.25	0.142	12.85	0.617	13.45	0.604	14.05	0.540
11.67	0.066	12.27	0.155	12.87	0.619	13.47	0.602	14.07	0.538
11.68	0.066	12.28	0.170	12.88	0.621	13.48	0.601	14.08	0.536
11.70	0.067	12.30	0.184	12.90	0.622	13.50	0.599	14.10	0.534
11.72	0.068	12.32	0.202	12.92	0.624	13.52	0.597	14.12	0.532
11.73	0.068	12.33	0.220	12.93	0.625	13.53	0.596	14.13	0.530
11.75	0.069	12.35	0.238	12.95	0.626	13.55	0.594	14.15	0.528
11.77	0.070	12.37	0.260	12.97	0.626	13.57	0.593	14.17	0.526
11.78	0.070	12.38	0.281	12.98	0.627	13.58	0.591	14.18	0.524
11.80	0.071	12.40	0.301	13.00	0.627	13.60	0.589	14.20	0.522
11.82	0.072	12.42	0.322	13.02	0.628	13.62	0.588	14.22	0.520
11.83	0.073	12.43	0.345	13.03	0.628	13.63	0.586	14.23	0.518
11.85	0.074	12.45	0.366	13.05	0.628	13.65	0.584	14.25	0.516
11.87	0.075	12.47	0.386	13.07	0.628	13.67	0.582	14.27	0.514
11.88	0.076	12.48	0.404	13.08	0.628	13.68	0.581	14.28	0.513
11.90	0.077	12.50	0.424	13.10	0.627	13.70	0.579	14.30	0.511
11.92	0.078	12.52	0.443	13.12	0.627	13.72	0.577	14.32	0.509
11.93	0.079	12.53	0.460	13.13	0.627	13.73	0.575	14.33	0.508
11.95	0.080	12.55	0.476	13.15	0.626	13.75	0.574	14.35	0.506
11.97	0.081	12.57	0.490	13.17	0.625	13.77	0.572	14.37	0.504
11.98	0.083	12.58	0.503	13.18	0.624	13.78	0.570	14.38	0.502
12.00	0.084	12.60	0.515	13.20	0.623	13.80	0.568	14.40	0.501
12.02	0.086	12.62	0.528	13.22	0.622	13.82	0.567	14.42	0.499
12.03	0.087	12.63	0.540	13.23	0.621	13.83	0.565	14.43	0.497
12.05	0.089	12.65	0.551	13.25	0.620	13.85	0.563	14.45	0.496
12.07	0.091	12.67	0.560	13.27	0.619	13.87	0.561	14.47	0.494
12.08	0.093	12.68	0.569	13.28	0.618	13.88	0.559	14.48	0.492
12.10	0.095	12.70	0.577	13.30	0.617	13.90	0.557	14.50	0.491
12.12	0.097	12.72	0.584	13.32	0.615	13.92	0.555	14.52	0.489
12.13	0.099	12.73	0.590	13.33	0.614	13.93	0.553	14.53	0.487
12.15	0.102	12.75	0.596	13.35	0.613	13.95	0.552	14.55	0.486

Printed values > 10% of Qpeak. nth-point print interval = 1

POST88

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
14.57	0.484	15.17	0.426	15.77	0.377	16.37	0.332	16.97	0.295
14.58	0.482	15.18	0.425	15.78	0.376	16.38	0.331	16.98	0.294
14.60	0.481	15.20	0.423	15.80	0.375	16.40	0.329	17.00	0.293
14.62	0.479	15.22	0.422	15.82	0.373	16.42	0.328	17.02	0.292
14.63	0.478	15.23	0.420	15.83	0.372	16.43	0.327	17.03	0.291
14.65	0.476	15.25	0.419	15.85	0.371	16.45	0.326	17.05	0.290
14.67	0.474	15.27	0.417	15.87	0.370	16.47	0.325	17.07	0.290
14.68	0.473	15.28	0.416	15.88	0.368	16.48	0.323	17.08	0.289
14.70	0.471	15.30	0.414	15.90	0.367	16.50	0.322	17.10	0.288
14.72	0.469	15.32	0.413	15.92	0.366	16.52	0.321	17.12	0.287
14.73	0.468	15.33	0.411	15.93	0.365	16.53	0.320	17.13	0.286
14.75	0.466	15.35	0.409	15.95	0.363	16.55	0.319	17.15	0.285
14.77	0.464	15.37	0.408	15.97	0.362	16.57	0.317	17.17	0.284
14.78	0.463	15.38	0.406	15.98	0.361	16.58	0.316	17.18	0.284
14.80	0.461	15.40	0.405	16.00	0.360	16.60	0.315	17.20	0.283
14.82	0.460	15.42	0.403	16.02	0.358	16.62	0.314	17.22	0.282
14.83	0.458	15.43	0.402	16.03	0.357	16.63	0.313	17.23	0.281
14.85	0.456	15.45	0.401	16.05	0.356	16.65	0.312	17.25	0.280
14.87	0.455	15.47	0.400	16.07	0.354	16.67	0.311	17.27	0.279
14.88	0.453	15.48	0.398	16.08	0.353	16.68	0.310	17.28	0.278
14.90	0.452	15.50	0.397	16.10	0.352	16.70	0.309	17.30	0.278
14.92	0.450	15.52	0.396	16.12	0.351	16.72	0.308	17.32	0.277
14.93	0.448	15.53	0.395	16.13	0.349	16.73	0.307	17.33	0.276
14.95	0.447	15.55	0.393	16.15	0.348	16.75	0.306	17.35	0.275
14.97	0.445	15.57	0.392	16.17	0.347	16.77	0.305	17.37	0.274
14.98	0.444	15.58	0.391	16.18	0.346	16.78	0.304	17.38	0.273
15.00	0.442	15.60	0.390	16.20	0.344	16.80	0.304	17.40	0.273
15.02	0.441	15.62	0.388	16.22	0.343	16.82	0.303	17.42	0.272
15.03	0.439	15.63	0.387	16.23	0.342	16.83	0.302	17.43	0.271
15.05	0.437	15.65	0.386	16.25	0.341	16.85	0.301	17.45	0.270
15.07	0.436	15.67	0.385	16.27	0.339	16.87	0.300	17.47	0.269
15.08	0.434	15.68	0.383	16.28	0.338	16.88	0.299	17.48	0.269
15.10	0.433	15.70	0.382	16.30	0.337	16.90	0.298	17.50	0.268
15.12	0.431	15.72	0.381	16.32	0.336	16.92	0.297	17.52	0.267
15.13	0.430	15.73	0.380	16.33	0.334	16.93	0.296	17.53	0.266
15.15	0.428	15.75	0.378	16.35	0.333	16.95	0.296	17.55	0.265

Printed values > 10% of Qpeak. nth-point print interval = 1

POST89

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
17.57	0.264	18.17	0.237	18.77	0.217	19.37	0.199	19.97	0.183
17.58	0.264	18.18	0.236	18.78	0.216	19.38	0.199	19.98	0.183
17.60	0.263	18.20	0.236	18.80	0.216	19.40	0.198	20.00	0.183
17.62	0.262	18.22	0.235	18.82	0.215	19.42	0.198	20.02	0.182
17.63	0.261	18.23	0.235	18.83	0.215	19.43	0.197	20.03	0.182
17.65	0.260	18.25	0.234	18.85	0.214	19.45	0.197	20.05	0.182
17.67	0.260	18.27	0.233	18.87	0.214	19.47	0.196	20.07	0.182
17.68	0.259	18.28	0.233	18.88	0.213	19.48	0.196	20.08	0.181
17.70	0.258	18.30	0.232	18.90	0.213	19.50	0.195	20.10	0.181
17.72	0.257	18.32	0.232	18.92	0.212	19.52	0.195	20.12	0.181
17.73	0.256	18.33	0.231	18.93	0.212	19.53	0.194	20.13	0.180
17.75	0.256	18.35	0.231	18.95	0.211	19.55	0.194	20.15	0.180
17.77	0.255	18.37	0.230	18.97	0.211	19.57	0.193	20.17	0.180
17.78	0.254	18.38	0.229	18.98	0.210	19.58	0.193	20.18	0.179
17.80	0.253	18.40	0.229	19.00	0.210	19.60	0.193	20.20	0.179
17.82	0.252	18.42	0.228	19.02	0.209	19.62	0.192	20.22	0.179
17.83	0.252	18.43	0.228	19.03	0.209	19.63	0.192	20.23	0.179
17.85	0.251	18.45	0.227	19.05	0.208	19.65	0.191	20.25	0.178
17.87	0.250	18.47	0.227	19.07	0.208	19.67	0.191	20.27	0.178
17.88	0.249	18.48	0.226	19.08	0.207	19.68	0.190	20.28	0.178
17.90	0.248	18.50	0.225	19.10	0.207	19.70	0.190	20.30	0.177
17.92	0.248	18.52	0.225	19.12	0.206	19.72	0.189	20.32	0.177
17.93	0.247	18.53	0.224	19.13	0.206	19.73	0.189	20.33	0.177
17.95	0.246	18.55	0.224	19.15	0.205	19.75	0.189	20.35	0.177
17.97	0.245	18.57	0.223	19.17	0.205	19.77	0.188	20.37	0.176
17.98	0.245	18.58	0.223	19.18	0.204	19.78	0.188	20.38	0.176
18.00	0.244	18.60	0.222	19.20	0.204	19.80	0.187	20.40	0.176
18.02	0.243	18.62	0.222	19.22	0.203	19.82	0.187	20.42	0.175
18.03	0.242	18.63	0.221	19.23	0.203	19.83	0.186	20.43	0.175
18.05	0.241	18.65	0.221	19.25	0.202	19.85	0.186	20.45	0.175
18.07	0.241	18.67	0.220	19.27	0.202	19.87	0.186	20.47	0.174
18.08	0.240	18.68	0.219	19.28	0.201	19.88	0.185	20.48	0.174
18.10	0.239	18.70	0.219	19.30	0.201	19.90	0.185	20.50	0.174
18.12	0.239	18.72	0.218	19.32	0.200	19.92	0.184	20.52	0.174
18.13	0.238	18.73	0.218	19.33	0.200	19.93	0.184	20.53	0.173
18.15	0.237	18.75	0.217	19.35	0.199	19.95	0.184	20.55	0.173

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
20.57	0.173	21.17	0.163	21.77	0.153	22.37	0.145	22.97	0.139
20.58	0.172	21.18	0.163	21.78	0.153	22.38	0.145	22.98	0.139
20.60	0.172	21.20	0.162	21.80	0.153	22.40	0.145	23.00	0.139
20.62	0.172	21.22	0.162	21.82	0.153	22.42	0.144	23.02	0.139
20.63	0.172	21.23	0.162	21.83	0.152	22.43	0.144	23.03	0.139
20.65	0.171	21.25	0.161	21.85	0.152	22.45	0.144	23.05	0.138
20.67	0.171	21.27	0.161	21.87	0.152	22.47	0.144	23.07	0.138
20.68	0.171	21.28	0.161	21.88	0.152	22.48	0.144	23.08	0.138
20.70	0.170	21.30	0.161	21.90	0.151	22.50	0.144	23.10	0.138
20.72	0.170	21.32	0.160	21.92	0.151	22.52	0.143	23.12	0.138
20.73	0.170	21.33	0.160	21.93	0.151	22.53	0.143	23.13	0.138
20.75	0.170	21.35	0.160	21.95	0.151	22.55	0.143	23.15	0.138
20.77	0.169	21.37	0.160	21.97	0.150	22.57	0.143	23.17	0.137
20.78	0.169	21.38	0.159	21.98	0.150	22.58	0.143	23.18	0.137
20.80	0.169	21.40	0.159	22.00	0.150	22.60	0.143	23.20	0.137
20.82	0.169	21.42	0.159	22.02	0.150	22.62	0.142	23.22	0.137
20.83	0.168	21.43	0.159	22.03	0.149	22.63	0.142	23.23	0.137
20.85	0.168	21.45	0.158	22.05	0.149	22.65	0.142	23.25	0.137
20.87	0.168	21.47	0.158	22.07	0.149	22.67	0.142	23.27	0.136
20.88	0.167	21.48	0.158	22.08	0.149	22.68	0.142	23.28	0.136
20.90	0.167	21.50	0.158	22.10	0.149	22.70	0.142	23.30	0.136
20.92	0.167	21.52	0.157	22.12	0.148	22.72	0.142	23.32	0.136
20.93	0.167	21.53	0.157	22.13	0.148	22.73	0.141	23.33	0.136
20.95	0.166	21.55	0.157	22.15	0.148	22.75	0.141	23.35	0.136
20.97	0.166	21.57	0.157	22.17	0.148	22.77	0.141	23.37	0.136
20.98	0.166	21.58	0.156	22.18	0.147	22.78	0.141	23.38	0.135
21.00	0.166	21.60	0.156	22.20	0.147	22.80	0.141	23.40	0.135
21.02	0.165	21.62	0.156	22.22	0.147	22.82	0.141	23.42	0.135
21.03	0.165	21.63	0.155	22.23	0.147	22.83	0.140	23.43	0.135
21.05	0.165	21.65	0.155	22.25	0.146	22.85	0.140	23.45	0.135
21.07	0.164	21.67	0.155	22.27	0.146	22.87	0.140	23.47	0.135
21.08	0.164	21.68	0.155	22.28	0.146	22.88	0.140	23.48	0.134
21.10	0.164	21.70	0.154	22.30	0.146	22.90	0.140	23.50	0.134
21.12	0.164	21.72	0.154	22.32	0.145	22.92	0.140	23.52	0.134
21.13	0.163	21.73	0.154	22.33	0.145	22.93	0.140	23.53	0.134
21.15	0.163	21.75	0.154	22.35	0.145	22.95	0.139	23.55	0.134

Printed values > 10% of Qpeak. nth-point print interval = 1

POST91

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
23.57	0.134	24.17	0.128	24.77	0.119	25.37	0.114	25.97	0.108
23.58	0.134	24.18	0.128	24.78	0.119	25.38	0.113	25.98	0.108
23.60	0.133	24.20	0.128	24.80	0.119	25.40	0.113	26.00	0.108
23.62	0.133	24.22	0.127	24.82	0.119	25.42	0.113	26.02	0.108
23.63	0.133	24.23	0.127	24.83	0.118	25.43	0.113	26.03	0.108
23.65	0.133	24.25	0.127	24.85	0.118	25.45	0.113	26.05	0.108
23.67	0.133	24.27	0.127	24.87	0.118	25.47	0.113	26.07	0.108
23.68	0.133	24.28	0.127	24.88	0.118	25.48	0.113	26.08	0.108
23.70	0.132	24.30	0.126	24.90	0.118	25.50	0.112	26.10	0.107
23.72	0.132	24.32	0.126	24.92	0.118	25.52	0.112	26.12	0.107
23.73	0.132	24.33	0.126	24.93	0.118	25.53	0.112	26.13	0.107
23.75	0.132	24.35	0.126	24.95	0.117	25.55	0.112	26.15	0.107
23.77	0.132	24.37	0.125	24.97	0.117	25.57	0.112	26.17	0.107
23.78	0.132	24.38	0.125	24.98	0.117	25.58	0.112	26.18	0.107
23.80	0.132	24.40	0.125	25.00	0.117	25.60	0.112	26.20	0.107
23.82	0.131	24.42	0.124	25.02	0.117	25.62	0.111	26.22	0.106
23.83	0.131	24.43	0.124	25.03	0.117	25.63	0.111	26.23	0.106
23.85	0.131	24.45	0.124	25.05	0.116	25.65	0.111	26.25	0.106
23.87	0.131	24.47	0.124	25.07	0.116	25.67	0.111	26.27	0.106
23.88	0.131	24.48	0.123	25.08	0.116	25.68	0.111	26.28	0.106
23.90	0.131	24.50	0.123	25.10	0.116	25.70	0.111	26.30	0.106
23.92	0.130	24.52	0.123	25.12	0.116	25.72	0.111	26.32	0.106
23.93	0.130	24.53	0.123	25.13	0.116	25.73	0.110	26.33	0.105
23.95	0.130	24.55	0.122	25.15	0.116	25.75	0.110	26.35	0.105
23.97	0.130	24.57	0.122	25.17	0.115	25.77	0.110	26.37	0.105
23.98	0.130	24.58	0.122	25.18	0.115	25.78	0.110	26.38	0.105
24.00	0.130	24.60	0.121	25.20	0.115	25.80	0.110	26.40	0.105
24.02	0.130	24.62	0.121	25.22	0.115	25.82	0.110	26.42	0.105
24.03	0.129	24.63	0.121	25.23	0.115	25.83	0.110	26.43	0.105
24.05	0.129	24.65	0.121	25.25	0.115	25.85	0.109	26.45	0.105
24.07	0.129	24.67	0.120	25.27	0.115	25.87	0.109	26.47	0.105
24.08	0.129	24.68	0.120	25.28	0.114	25.88	0.109	26.48	0.105
24.10	0.129	24.70	0.120	25.30	0.114	25.90	0.109	26.50	0.104
24.12	0.129	24.72	0.119	25.32	0.114	25.92	0.109	26.52	0.104
24.13	0.128	24.73	0.119	25.33	0.114	25.93	0.109	26.53	0.104
24.15	0.128	24.75	0.119	25.35	0.114	25.95	0.109	26.55	0.104

Printed values > 10% of Qpeak. nth-point print interval = 1

POST92

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
26.57	0.104	27.17	0.102	27.77	0.099	28.37	0.097	28.97	0.095
26.58	0.104	27.18	0.102	27.78	0.099	28.38	0.097	28.98	0.095
26.60	0.104	27.20	0.102	27.80	0.099	28.40	0.097	29.00	0.095
26.62	0.104	27.22	0.102	27.82	0.099	28.42	0.097	29.02	0.095
26.63	0.104	27.23	0.102	27.83	0.099	28.43	0.097	29.03	0.095
26.65	0.104	27.25	0.102	27.85	0.099	28.45	0.097	29.05	0.095
26.67	0.104	27.27	0.101	27.87	0.099	28.47	0.097	29.07	0.095
26.68	0.104	27.28	0.101	27.88	0.099	28.48	0.097	29.08	0.095
26.70	0.104	27.30	0.101	27.90	0.099	28.50	0.097	29.10	0.095
26.72	0.104	27.32	0.101	27.92	0.099	28.52	0.097	29.12	0.095
26.73	0.104	27.33	0.101	27.93	0.099	28.53	0.097	29.13	0.095
26.75	0.103	27.35	0.101	27.95	0.099	28.55	0.097	29.15	0.095
26.77	0.103	27.37	0.101	27.97	0.099	28.57	0.097	29.17	0.094
26.78	0.103	27.38	0.101	27.98	0.099	28.58	0.096	29.18	0.094
26.80	0.103	27.40	0.101	28.00	0.099	28.60	0.096	29.20	0.094
26.82	0.103	27.42	0.101	28.02	0.099	28.62	0.096	29.22	0.094
26.83	0.103	27.43	0.101	28.03	0.098	28.63	0.096	29.23	0.094
26.85	0.103	27.45	0.101	28.05	0.098	28.65	0.096	29.25	0.094
26.87	0.103	27.47	0.101	28.07	0.098	28.67	0.096	29.27	0.094
26.88	0.103	27.48	0.101	28.08	0.098	28.68	0.096	29.28	0.094
26.90	0.103	27.50	0.101	28.10	0.098	28.70	0.096	29.30	0.094
26.92	0.103	27.52	0.100	28.12	0.098	28.72	0.096	29.32	0.094
26.93	0.103	27.53	0.100	28.13	0.098	28.73	0.096	29.33	0.094
26.95	0.103	27.55	0.100	28.15	0.098	28.75	0.096	29.35	0.094
26.97	0.103	27.57	0.100	28.17	0.098	28.77	0.096	29.37	0.094
26.98	0.103	27.58	0.100	28.18	0.098	28.78	0.096	29.38	0.094
27.00	0.102	27.60	0.100	28.20	0.098	28.80	0.096	29.40	0.094
27.02	0.102	27.62	0.100	28.22	0.098	28.82	0.096	29.42	0.094
27.03	0.102	27.63	0.100	28.23	0.098	28.83	0.096	29.43	0.094
27.05	0.102	27.65	0.100	28.25	0.098	28.85	0.096	29.45	0.094
27.07	0.102	27.67	0.100	28.27	0.098	28.87	0.096	29.47	0.093
27.08	0.102	27.68	0.100	28.28	0.098	28.88	0.095	29.48	0.093
27.10	0.102	27.70	0.100	28.30	0.097	28.90	0.095	29.50	0.093
27.12	0.102	27.72	0.100	28.32	0.097	28.92	0.095	29.52	0.093
27.13	0.102	27.73	0.100	28.33	0.097	28.93	0.095	29.53	0.093
27.15	0.102	27.75	0.100	28.35	0.097	28.95	0.095	29.55	0.093

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
29.57	0.093	30.17	0.091	30.77	0.089	31.37	0.087	31.97	0.085
29.58	0.093	30.18	0.091	30.78	0.089	31.38	0.087	31.98	0.085
29.60	0.093	30.20	0.091	30.80	0.089	31.40	0.087	32.00	0.085
29.62	0.093	30.22	0.091	30.82	0.089	31.42	0.087	32.02	0.085
29.63	0.093	30.23	0.091	30.83	0.089	31.43	0.087	32.03	0.085
29.65	0.093	30.25	0.091	30.85	0.089	31.45	0.087	32.05	0.085
29.67	0.093	30.27	0.091	30.87	0.089	31.47	0.087	32.07	0.085
29.68	0.093	30.28	0.091	30.88	0.089	31.48	0.087	32.08	0.085
29.70	0.093	30.30	0.091	30.90	0.089	31.50	0.087	32.10	0.085
29.72	0.093	30.32	0.091	30.92	0.089	31.52	0.087	32.12	0.085
29.73	0.093	30.33	0.091	30.93	0.089	31.53	0.087	32.13	0.085
29.75	0.093	30.35	0.090	30.95	0.088	31.55	0.087	32.15	0.085
29.77	0.092	30.37	0.090	30.97	0.088	31.57	0.086	32.17	0.085
29.78	0.092	30.38	0.090	30.98	0.088	31.58	0.086	32.18	0.084
29.80	0.092	30.40	0.090	31.00	0.088	31.60	0.086	32.20	0.084
29.82	0.092	30.42	0.090	31.02	0.088	31.62	0.086	32.22	0.084
29.83	0.092	30.43	0.090	31.03	0.088	31.63	0.086	32.23	0.084
29.85	0.092	30.45	0.090	31.05	0.088	31.65	0.086	32.25	0.084
29.87	0.092	30.47	0.090	31.07	0.088	31.67	0.086	32.27	0.084
29.88	0.092	30.48	0.090	31.08	0.088	31.68	0.086	32.28	0.084
29.90	0.092	30.50	0.090	31.10	0.088	31.70	0.086	32.30	0.084
29.92	0.092	30.52	0.090	31.12	0.088	31.72	0.086	32.32	0.084
29.93	0.092	30.53	0.090	31.13	0.088	31.73	0.086	32.33	0.084
29.95	0.092	30.55	0.090	31.15	0.088	31.75	0.086	32.35	0.084
29.97	0.092	30.57	0.090	31.17	0.088	31.77	0.086	32.37	0.084
29.98	0.092	30.58	0.090	31.18	0.088	31.78	0.086	32.38	0.084
30.00	0.092	30.60	0.090	31.20	0.088	31.80	0.086	32.40	0.084
30.02	0.092	30.62	0.090	31.22	0.088	31.82	0.086	32.42	0.084
30.03	0.092	30.63	0.090	31.23	0.088	31.83	0.086	32.43	0.084
30.05	0.092	30.65	0.089	31.25	0.088	31.85	0.086	32.45	0.084
30.07	0.091	30.67	0.089	31.27	0.087	31.87	0.086	32.47	0.084
30.08	0.091	30.68	0.089	31.28	0.087	31.88	0.085	32.48	0.083
30.10	0.091	30.70	0.089	31.30	0.087	31.90	0.085	32.50	0.083
30.12	0.091	30.72	0.089	31.32	0.087	31.92	0.085	32.52	0.083
30.13	0.091	30.73	0.089	31.33	0.087	31.93	0.085	32.53	0.083
30.15	0.091	30.75	0.089	31.35	0.087	31.95	0.085	32.55	0.083

Printed values > 10% of Qpeak. nth-point print interval = 1

POST94

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
32.57	0.083	33.17	0.081	33.77	0.079	34.37	0.077	34.97	0.075
32.58	0.083	33.18	0.081	33.78	0.079	34.38	0.077	34.98	0.075
32.60	0.083	33.20	0.081	33.80	0.079	34.40	0.077	35.00	0.075
32.62	0.083	33.22	0.081	33.82	0.079	34.42	0.077	35.02	0.075
32.63	0.083	33.23	0.081	33.83	0.079	34.43	0.077	35.03	0.075
32.65	0.083	33.25	0.081	33.85	0.079	34.45	0.077	35.05	0.075
32.67	0.083	33.27	0.081	33.87	0.079	34.47	0.077	35.07	0.075
32.68	0.083	33.28	0.081	33.88	0.079	34.48	0.077	35.08	0.075
32.70	0.083	33.30	0.081	33.90	0.079	34.50	0.077	35.10	0.075
32.72	0.083	33.32	0.081	33.92	0.079	34.52	0.077	35.12	0.075
32.73	0.083	33.33	0.081	33.93	0.079	34.53	0.077	35.13	0.075
32.75	0.083	33.35	0.081	33.95	0.079	34.55	0.077	35.15	0.075
32.77	0.083	33.37	0.081	33.97	0.079	34.57	0.077	35.17	0.075
32.78	0.082	33.38	0.081	33.98	0.079	34.58	0.077	35.18	0.075
32.80	0.082	33.40	0.081	34.00	0.079	34.60	0.077	35.20	0.075
32.82	0.082	33.42	0.080	34.02	0.078	34.62	0.076	35.22	0.075
32.83	0.082	33.43	0.080	34.03	0.078	34.63	0.076	35.23	0.075
32.85	0.082	33.45	0.080	34.05	0.078	34.65	0.076	35.25	0.074
32.87	0.082	33.47	0.080	34.07	0.078	34.67	0.076	35.27	0.074
32.88	0.082	33.48	0.080	34.08	0.078	34.68	0.076	35.28	0.074
32.90	0.082	33.50	0.080	34.10	0.078	34.70	0.076	35.30	0.074
32.92	0.082	33.52	0.080	34.12	0.078	34.72	0.076	35.32	0.074
32.93	0.082	33.53	0.080	34.13	0.078	34.73	0.076	35.33	0.074
32.95	0.082	33.55	0.080	34.15	0.078	34.75	0.076	35.35	0.074
32.97	0.082	33.57	0.080	34.17	0.078	34.77	0.076	35.37	0.074
32.98	0.082	33.58	0.080	34.18	0.078	34.78	0.076	35.38	0.074
33.00	0.082	33.60	0.080	34.20	0.078	34.80	0.076	35.40	0.074
33.02	0.082	33.62	0.080	34.22	0.078	34.82	0.076	35.42	0.074
33.03	0.082	33.63	0.080	34.23	0.078	34.83	0.076	35.43	0.074
33.05	0.082	33.65	0.080	34.25	0.078	34.85	0.076	35.45	0.074
33.07	0.082	33.67	0.080	34.27	0.078	34.87	0.076	35.47	0.074
33.08	0.082	33.68	0.080	34.28	0.078	34.88	0.076	35.48	0.074
33.10	0.081	33.70	0.080	34.30	0.078	34.90	0.076	35.50	0.074
33.12	0.081	33.72	0.079	34.32	0.077	34.92	0.076	35.52	0.074
33.13	0.081	33.73	0.079	34.33	0.077	34.93	0.075	35.53	0.074
33.15	0.081	33.75	0.079	34.35	0.077	34.95	0.075	35.55	0.073

Printed values > 10% of Qpeak. nth-point print interval = 1

POST95

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
35.57	0.073	36.17	0.071	36.77	0.069	37.37	0.068	37.97	0.066
35.58	0.073	36.18	0.071	36.78	0.069	37.38	0.067	37.98	0.066
35.60	0.073	36.20	0.071	36.80	0.069	37.40	0.067	38.00	0.066
35.62	0.073	36.22	0.071	36.82	0.069	37.42	0.067	38.02	0.065
35.63	0.073	36.23	0.071	36.83	0.069	37.43	0.067	38.03	0.065
35.65	0.073	36.25	0.071	36.85	0.069	37.45	0.067	38.05	0.065
35.67	0.073	36.27	0.071	36.87	0.069	37.47	0.067	38.07	0.065
35.68	0.073	36.28	0.071	36.88	0.069	37.48	0.067	38.08	0.065
35.70	0.073	36.30	0.071	36.90	0.069	37.50	0.067	38.10	0.065
35.72	0.073	36.32	0.071	36.92	0.069	37.52	0.067	38.12	0.065
35.73	0.073	36.33	0.071	36.93	0.069	37.53	0.067	38.13	0.065
35.75	0.073	36.35	0.071	36.95	0.069	37.55	0.067	38.15	0.065
35.77	0.073	36.37	0.071	36.97	0.069	37.57	0.067	38.17	0.065
35.78	0.073	36.38	0.071	36.98	0.069	37.58	0.067	38.18	0.065
35.80	0.073	36.40	0.071	37.00	0.069	37.60	0.067	38.20	0.065
35.82	0.073	36.42	0.071	37.02	0.069	37.62	0.067	38.22	0.065
35.83	0.073	36.43	0.071	37.03	0.069	37.63	0.067	38.23	0.065
35.85	0.073	36.45	0.071	37.05	0.069	37.65	0.067	38.25	0.065
35.87	0.072	36.47	0.070	37.07	0.068	37.67	0.067	38.27	0.065
35.88	0.072	36.48	0.070	37.08	0.068	37.68	0.067	38.28	0.065
35.90	0.072	36.50	0.070	37.10	0.068	37.70	0.066	38.30	0.065
35.92	0.072	36.52	0.070	37.12	0.068	37.72	0.066	38.32	0.064
35.93	0.072	36.53	0.070	37.13	0.068	37.73	0.066	38.33	0.064
35.95	0.072	36.55	0.070	37.15	0.068	37.75	0.066	38.35	0.064
35.97	0.072	36.57	0.070	37.17	0.068	37.77	0.066	38.37	0.064
35.98	0.072	36.58	0.070	37.18	0.068	37.78	0.066	38.38	0.064
36.00	0.072	36.60	0.070	37.20	0.068	37.80	0.066	38.40	0.064
36.02	0.072	36.62	0.070	37.22	0.068	37.82	0.066	38.42	0.064
36.03	0.072	36.63	0.070	37.23	0.068	37.83	0.066	38.43	0.064
36.05	0.072	36.65	0.070	37.25	0.068	37.85	0.066	38.45	0.064
36.07	0.072	36.67	0.070	37.27	0.068	37.87	0.066	38.47	0.064
36.08	0.072	36.68	0.070	37.28	0.068	37.88	0.066	38.48	0.064
36.10	0.072	36.70	0.070	37.30	0.068	37.90	0.066	38.50	0.064
36.12	0.072	36.72	0.070	37.32	0.068	37.92	0.066	38.52	0.064
36.13	0.072	36.73	0.070	37.33	0.068	37.93	0.066	38.53	0.064
36.15	0.072	36.75	0.070	37.35	0.068	37.95	0.066	38.55	0.064

Printed values > 10% of Qpeak. nth-point print interval = 1

POST96

Hydrograph Discharge Table, cont'd

PROP SWQB #1

[illegible]

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

PROP SWQB #2

Hyd. No. 5

Hydrograph Type = Pond Route

Peak Flow = 1.983 cfs

Storm Frequency = 5-yr

Time to Peak = 12.20 hrs

Time Interval = 1 min

Hydrograph Volume = 10,643 cuft

Inflow Hydrograph = 2 - SA-A (TO SWQB #2)

Max. Elevation = 82.86 ft

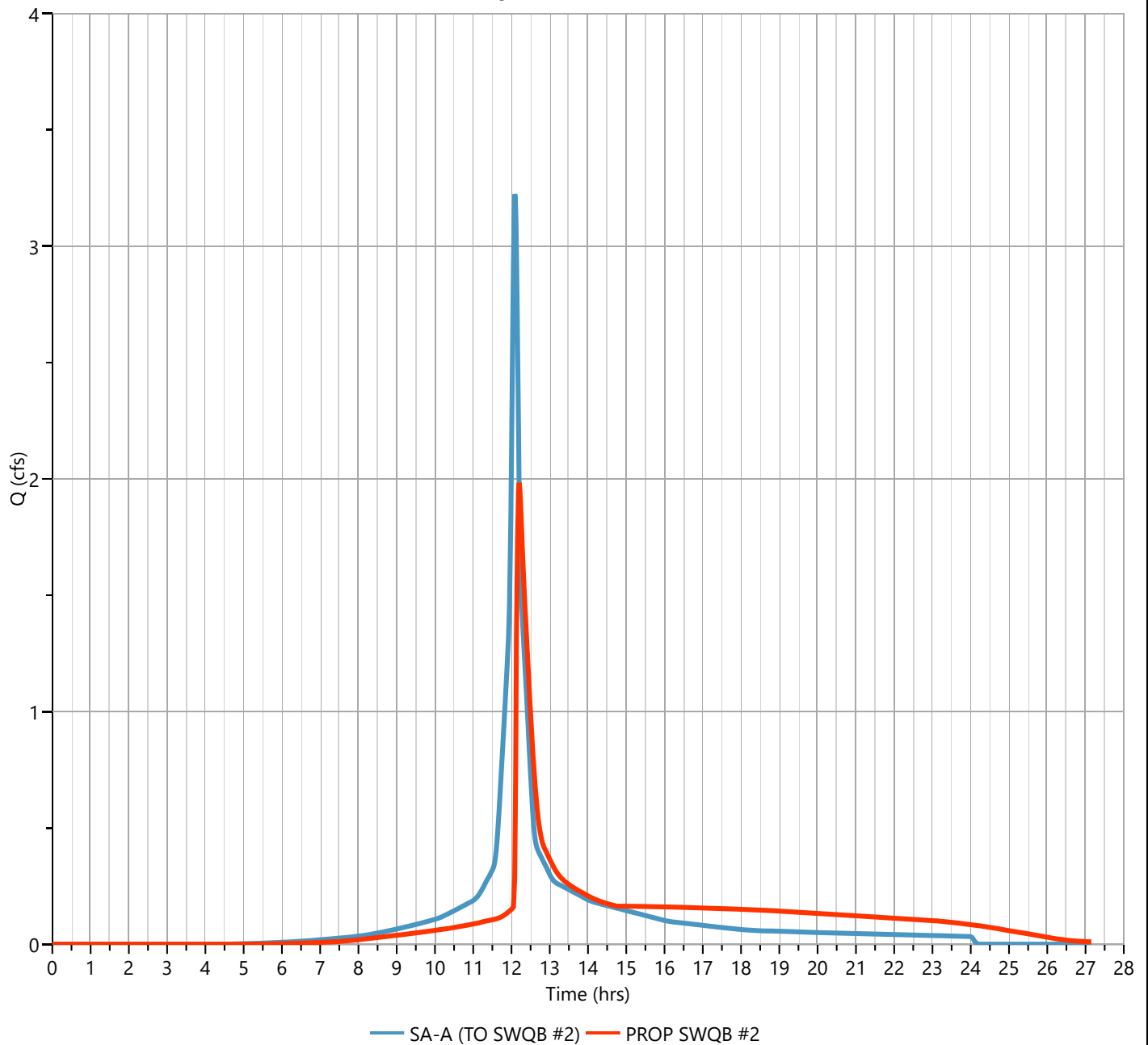
Pond Name = PRO SWQB #2

Max. Storage = 3,498 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 2.42 hrs

Qp = 1.983 cfs



POST98

Hydrograph Discharge Table

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
12.08	0.284	12.68	0.560	13.28	0.287	13.88	0.218		
12.10	0.607	12.70	0.537	13.30	0.284	13.90	0.217		
12.12	1.002	12.72	0.516	13.32	0.282	13.92	0.215		
12.13	1.376	12.73	0.498	13.33	0.279	13.93	0.214		
12.15	1.661	12.75	0.481	13.35	0.276	13.95	0.212		
12.17	1.856	12.77	0.466	13.37	0.274	13.97	0.211		
12.18	1.955	12.78	0.453	13.38	0.271	13.98	0.209		
12.20	1.983	12.80	0.441	13.40	0.269	14.00	0.208		
12.22	1.963	12.82	0.429	13.42	0.267	14.02	0.206		
12.23	1.912	12.83	0.422	13.43	0.265	14.03	0.205		
12.25	1.846	12.85	0.417	13.45	0.262	14.05	0.203		
12.27	1.773	12.87	0.411	13.47	0.260	14.07	0.202		
12.28	1.700	12.88	0.405	13.48	0.258	14.08	0.200		
12.30	1.630	12.90	0.399	13.50	0.256	14.10	0.199		
12.32	1.564	12.92	0.393	13.52	0.254	14.12	0.197		
12.33	1.505	12.93	0.388	13.53	0.253	...end	...end		
12.35	1.453	12.95	0.382	13.55	0.251				
12.37	1.400	12.97	0.376	13.57	0.249				
12.38	1.348	12.98	0.371	13.58	0.247				
12.40	1.296	13.00	0.365	13.60	0.245				
12.42	1.244	13.02	0.359	13.62	0.244				
12.43	1.192	13.03	0.354	13.63	0.242				
12.45	1.140	13.05	0.348	13.65	0.240				
12.47	1.087	13.07	0.342	13.67	0.239				
12.48	1.035	13.08	0.337	13.68	0.237				
12.50	0.983	13.10	0.332	13.70	0.235				
12.52	0.930	13.12	0.327	13.72	0.234				
12.53	0.884	13.13	0.322	13.73	0.232				
12.55	0.843	13.15	0.317	13.75	0.230				
12.57	0.801	13.17	0.313	13.77	0.229				
12.58	0.759	13.18	0.308	13.78	0.227				
12.60	0.719	13.20	0.304	13.80	0.226				
12.62	0.682	13.22	0.301	13.82	0.224				
12.63	0.647	13.23	0.297	13.83	0.223				
12.65	0.615	13.25	0.294	13.85	0.221				
12.67	0.586	13.27	0.290	13.87	0.220				

Printed values > 10% of Qpeak. nth-point print interval = 1

POST99

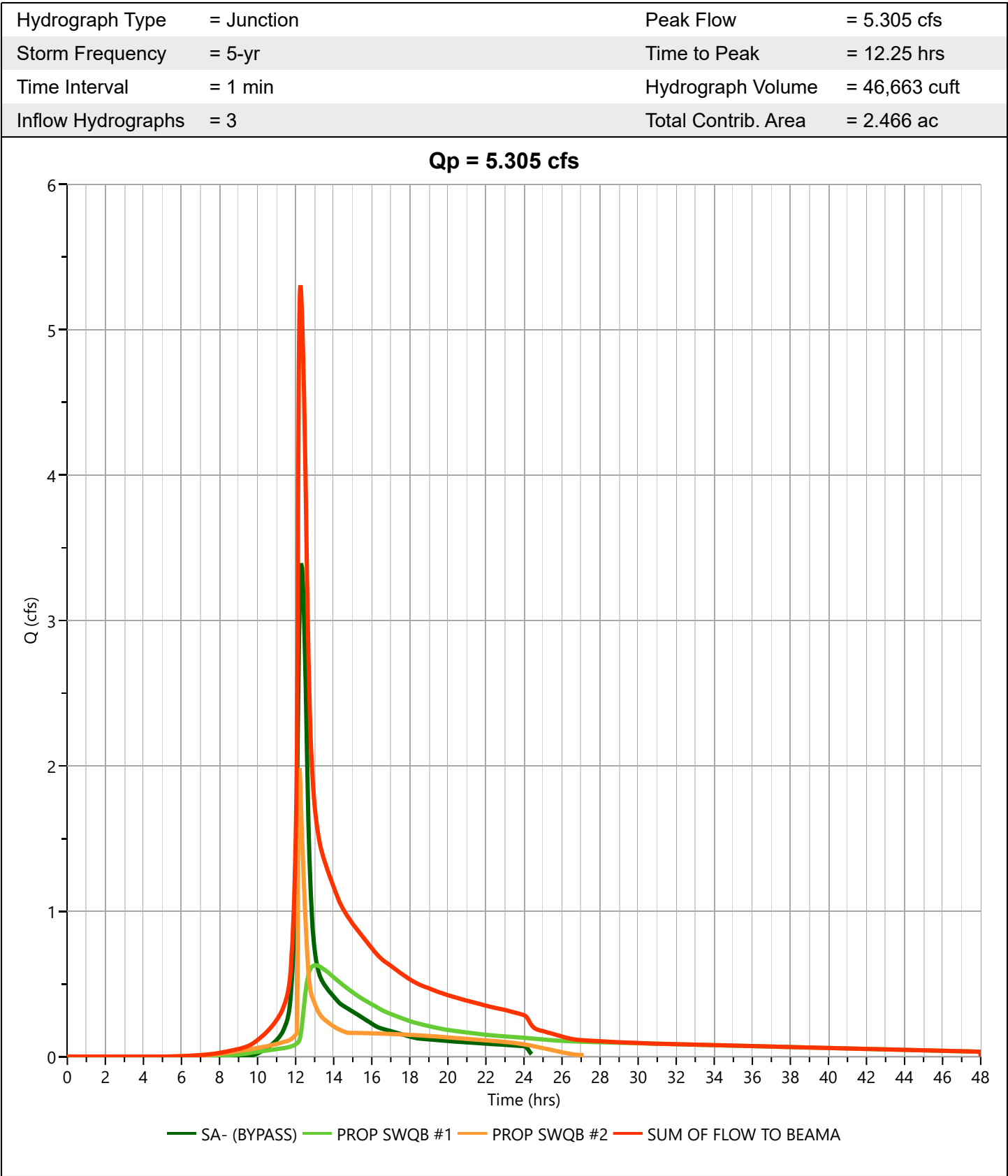
Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield
File: 3566-POST.hys
03-13-2025

Post SUM OF FLOW TO BEAMA

Hyd. No. 6



Hydrograph Discharge Table

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.70	0.542	12.30	5.213	12.90	1.891	13.50	1.349	14.10	1.129
11.72	0.565	12.32	5.155	12.92	1.857	13.52	1.342	14.12	1.123
11.73	0.591	12.33	5.091	12.93	1.826	13.53	1.335	14.13	1.117
11.75	0.619	12.35	5.023	12.95	1.796	13.55	1.329	14.15	1.112
11.77	0.650	12.37	4.951	12.97	1.769	13.57	1.323	14.17	1.106
11.78	0.684	12.38	4.872	12.98	1.743	13.58	1.317	14.18	1.100
11.80	0.722	12.40	4.784	13.00	1.720	13.60	1.310	14.20	1.094
11.82	0.762	12.42	4.690	13.02	1.697	13.62	1.304	14.22	1.089
11.83	0.805	12.43	4.591	13.03	1.676	13.63	1.298	14.23	1.084
11.85	0.852	12.45	4.484	13.05	1.656	13.65	1.293	14.25	1.078
11.87	0.902	12.47	4.369	13.07	1.638	13.67	1.287	14.27	1.074
11.88	0.955	12.48	4.246	13.08	1.620	13.68	1.281	14.28	1.069
11.90	1.011	12.50	4.119	13.10	1.604	13.70	1.275	14.30	1.064
11.92	1.071	12.52	3.986	13.12	1.588	13.72	1.269	14.32	1.060
11.93	1.137	12.53	3.852	13.13	1.573	13.73	1.263	14.33	1.055
11.95	1.211	12.55	3.718	13.15	1.558	13.75	1.257	14.35	1.051
11.97	1.295	12.57	3.579	13.17	1.544	13.77	1.251	14.37	1.046
11.98	1.390	12.58	3.436	13.18	1.531	13.78	1.245	14.38	1.042
12.00	1.501	12.60	3.294	13.20	1.518	13.80	1.239	14.40	1.038
12.02	1.626	12.62	3.156	13.22	1.505	13.82	1.233	14.42	1.034
12.03	1.763	12.63	3.023	13.23	1.492	13.83	1.227	14.43	1.030
12.05	1.912	12.65	2.897	13.25	1.481	13.85	1.221	14.45	1.026
12.07	2.068	12.67	2.781	13.27	1.469	13.87	1.215	14.47	1.022
12.08	2.348	12.68	2.675	13.28	1.458	13.88	1.209	14.48	1.018
12.10	2.830	12.70	2.579	13.30	1.448	13.90	1.203	14.50	1.014
12.12	3.385	12.72	2.492	13.32	1.438	13.92	1.196	14.52	1.010
12.13	3.918	12.73	2.413	13.33	1.428	13.93	1.190	14.53	1.006
12.15	4.361	12.75	2.340	13.35	1.419	13.95	1.184	14.55	1.002
12.17	4.710	12.77	2.273	13.37	1.410	13.97	1.178	14.57	0.999
12.18	4.959	12.78	2.210	13.38	1.401	13.98	1.172	14.58	0.995
12.20	5.126	12.80	2.152	13.40	1.393	14.00	1.166	14.60	0.991
12.22	5.230	12.82	2.097	13.42	1.385	14.02	1.160	14.62	0.987
12.23	5.288	12.83	2.050	13.43	1.377	14.03	1.154	14.63	0.984
12.25	5.305	12.85	2.006	13.45	1.370	14.05	1.148	14.65	0.980
12.27	5.295	12.87	1.965	13.47	1.363	14.07	1.141	14.67	0.976
12.28	5.263	12.88	1.927	13.48	1.356	14.08	1.135	14.68	0.973

Hydrograph Discharge Table, cont'd

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
14.70	0.969	15.30	0.861	15.90	0.762	16.50	0.674	17.10	0.614
14.72	0.965	15.32	0.858	15.92	0.760	16.52	0.672	17.12	0.612
14.73	0.962	15.33	0.855	15.93	0.757	16.53	0.670	17.13	0.611
14.75	0.958	15.35	0.852	15.95	0.754	16.55	0.668	17.15	0.609
14.77	0.955	15.37	0.849	15.97	0.751	16.57	0.666	17.17	0.608
14.78	0.952	15.38	0.846	15.98	0.749	16.58	0.664	17.18	0.606
14.80	0.949	15.40	0.843	16.00	0.746	16.60	0.662	17.20	0.605
14.82	0.946	15.42	0.841	16.02	0.743	16.62	0.660	17.22	0.603
14.83	0.943	15.43	0.838	16.03	0.740	16.63	0.659	17.23	0.602
14.85	0.940	15.45	0.835	16.05	0.738	16.65	0.657	17.25	0.600
14.87	0.937	15.47	0.833	16.07	0.735	16.67	0.655	17.27	0.598
14.88	0.934	15.48	0.830	16.08	0.732	16.68	0.654	17.28	0.597
14.90	0.932	15.50	0.827	16.10	0.729	16.70	0.652	17.30	0.595
14.92	0.929	15.52	0.825	16.12	0.727	16.72	0.650	17.32	0.594
14.93	0.926	15.53	0.822	16.13	0.724	16.73	0.649	17.33	0.592
14.95	0.923	15.55	0.819	16.15	0.721	16.75	0.647	17.35	0.591
14.97	0.920	15.57	0.817	16.17	0.719	16.77	0.646	17.37	0.589
14.98	0.917	15.58	0.814	16.18	0.716	16.78	0.644	17.38	0.588
15.00	0.914	15.60	0.811	16.20	0.714	16.80	0.642	17.40	0.586
15.02	0.911	15.62	0.809	16.22	0.711	16.82	0.641	17.42	0.584
15.03	0.908	15.63	0.806	16.23	0.709	16.83	0.639	17.43	0.583
15.05	0.905	15.65	0.803	16.25	0.706	16.85	0.638	17.45	0.581
15.07	0.902	15.67	0.800	16.27	0.704	16.87	0.636	17.47	0.580
15.08	0.899	15.68	0.798	16.28	0.701	16.88	0.635	17.48	0.578
15.10	0.896	15.70	0.795	16.30	0.699	16.90	0.633	17.50	0.577
15.12	0.893	15.72	0.792	16.32	0.697	16.92	0.631	17.52	0.575
15.13	0.890	15.73	0.790	16.33	0.695	16.93	0.630	17.53	0.574
15.15	0.888	15.75	0.787	16.35	0.692	16.95	0.628	17.55	0.572
15.17	0.885	15.77	0.784	16.37	0.690	16.97	0.627	17.57	0.571
15.18	0.882	15.78	0.781	16.38	0.688	16.98	0.625	17.58	0.569
15.20	0.879	15.80	0.779	16.40	0.686	17.00	0.623	17.60	0.568
15.22	0.876	15.82	0.776	16.42	0.684	17.02	0.622	17.62	0.566
15.23	0.873	15.83	0.773	16.43	0.682	17.03	0.620	17.63	0.564
15.25	0.870	15.85	0.771	16.45	0.680	17.05	0.619	17.65	0.563
15.27	0.867	15.87	0.768	16.47	0.678	17.07	0.617	17.67	0.561
15.28	0.864	15.88	0.765	16.48	0.676	17.08	0.616	17.68	0.560

Hydrograph Discharge Table, cont'd

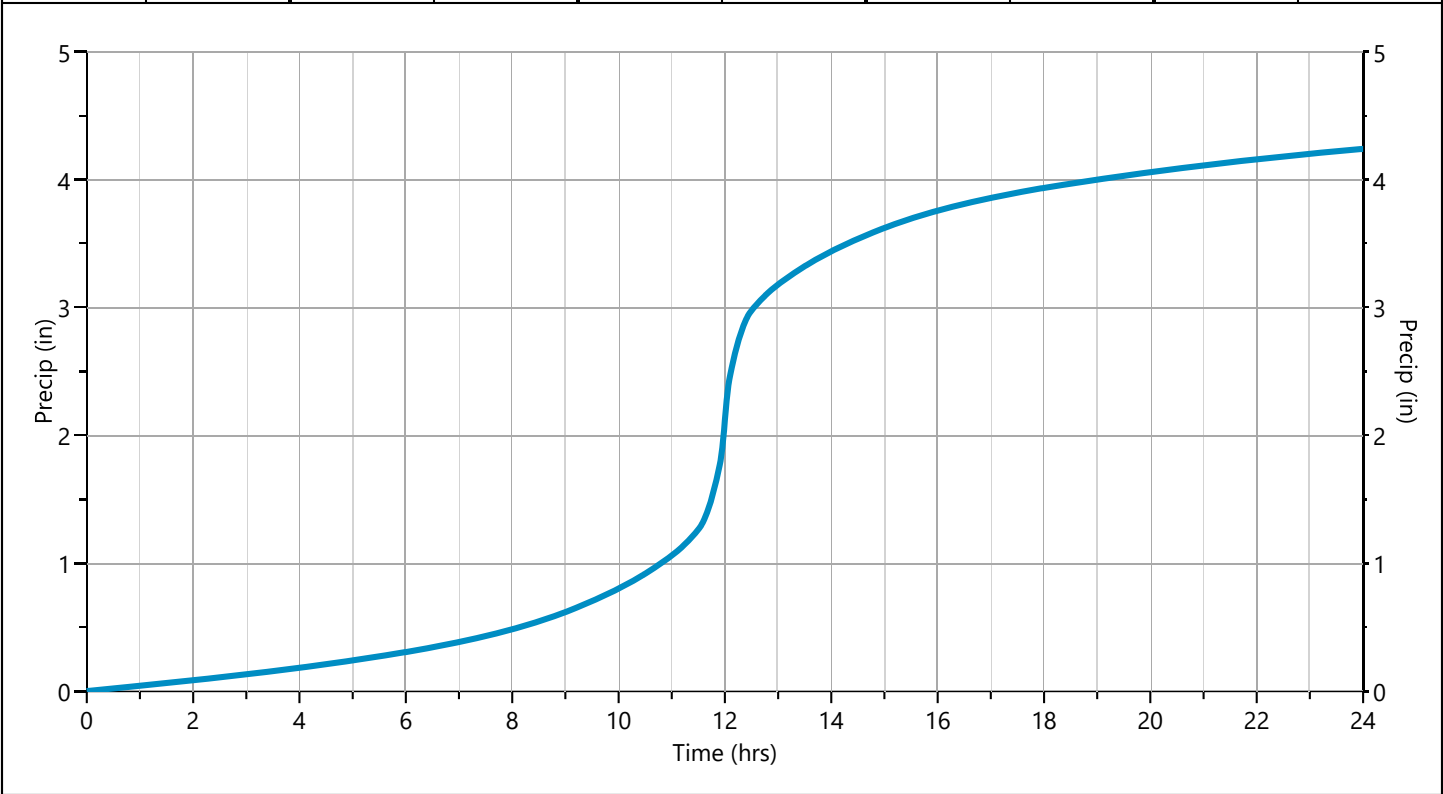
SUM OF FLOW TO BEAMA

[illegible]

Storm Distribution: NRCS/SCS - Type III, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	1-yr	2-yr	3-yr	✓ 5-yr	10-yr	25-yr	50-yr	100-yr	
24 hrs	2.55	3.19	0.00	4.24	5.10	6.30	7.17	8.14	

Incremental Rainfall Distribution, 5-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.008355	11.68	0.019292	11.87	0.030693	12.05	0.063706	12.23	0.025511
11.52	0.008904	11.70	0.020328	11.88	0.031729	12.07	0.055014	12.25	0.024474
11.53	0.009964	11.72	0.021365	11.90	0.032766	12.08	0.046322	12.27	0.023438
11.55	0.011000	11.73	0.022401	11.92	0.037751	12.10	0.037630	12.28	0.022401
11.57	0.012037	11.75	0.023438	11.93	0.046322	12.12	0.032890	12.30	0.021365
11.58	0.013073	11.77	0.024474	11.95	0.055014	12.13	0.031729	12.32	0.020329
11.60	0.014110	11.78	0.025511	11.97	0.063706	12.15	0.030693	12.33	0.019292
11.62	0.015146	11.80	0.026547	11.98	0.072398	12.17	0.029657	12.35	0.018255
11.63	0.016183	11.82	0.027584	12.00	0.081090	12.18	0.028620	12.37	0.017219
11.65	0.017219	11.83	0.028620	12.02	0.080896	12.20	0.027584	12.38	0.016183
11.67	0.018255	11.85	0.029656	12.03	0.072398	12.22	0.026547	12.40	0.015146



Hydrograph 10-yr Summary

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

Hydrology Studio v 3.0.0.36

03-13-2025

[illegible]

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

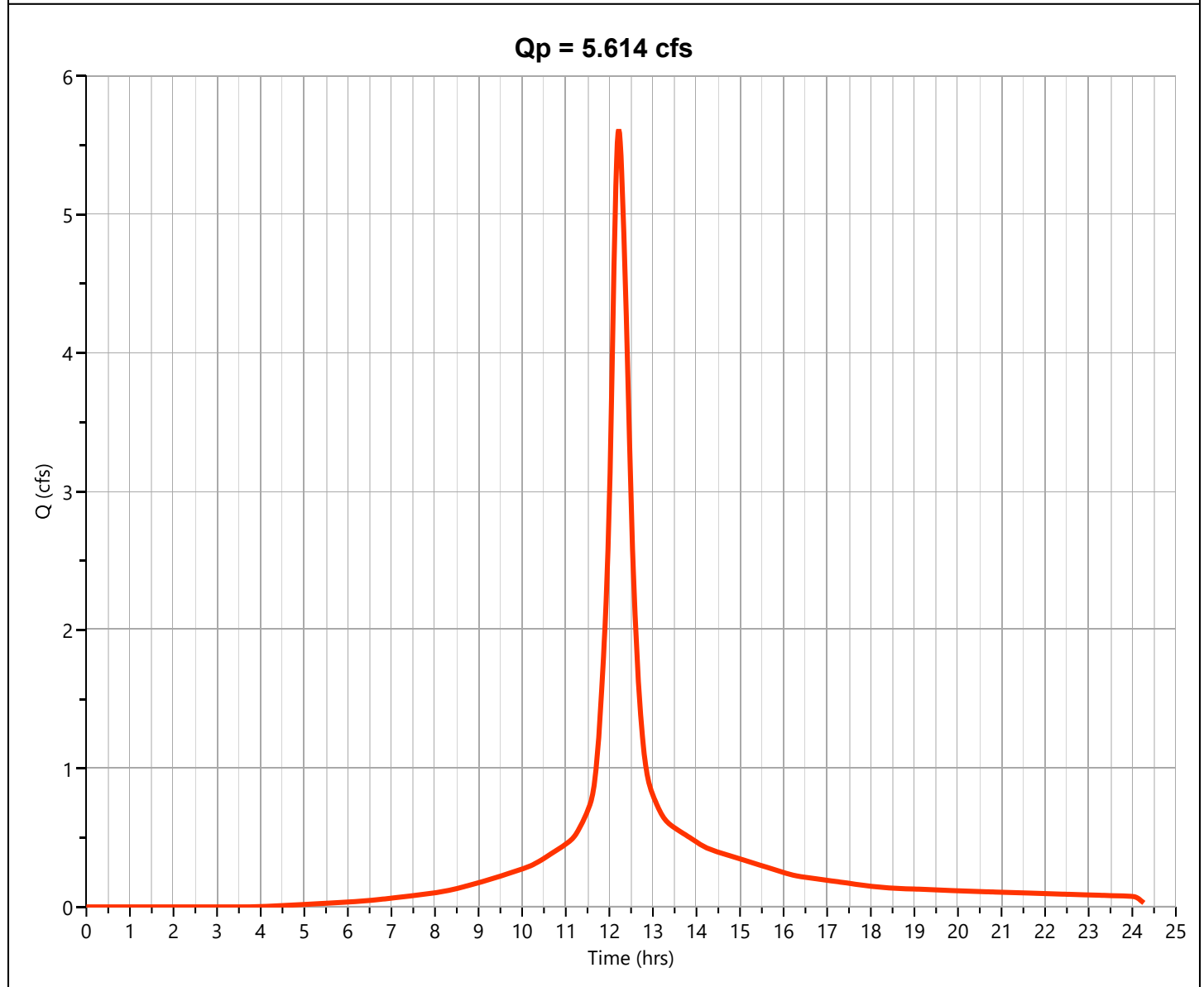
Post SA A(TO SWQB #1)

Hyd. No. 1

Hydrograph Type	= NRCS Runoff	Peak Flow	= 5.614 cfs
Storm Frequency	= 10-yr	Time to Peak	= 12.22 hrs
Time Interval	= 1 min	Runoff Volume	= 25,750 cuft
Drainage Area	= 1.739 ac	Curve Number	= 91*
Tc Method	= User	Time of Conc. (Tc)	= 19.1 min
Total Rainfall	= 5.10 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
1.234	98	C-PAVED/ROOF
0.505	74	C-LAWN/LANDSCAPES
1.739	91	Weighted CN Method Employed



POST106

Hydrograph Discharge Table

SA A(TO SWQB #1)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.32	0.568	11.92	2.130	12.52	2.751	13.12	0.719		
11.33	0.578	11.93	2.252	12.53	2.581	13.13	0.708		
11.35	0.588	11.95	2.388	12.55	2.427	13.15	0.697		
11.37	0.599	11.97	2.543	12.57	2.287	13.17	0.687		
11.38	0.610	11.98	2.719	12.58	2.160	13.18	0.677		
11.40	0.621	12.00	2.923	12.60	2.042	13.20	0.667		
11.42	0.633	12.02	3.153	12.62	1.932	13.22	0.658		
11.43	0.644	12.03	3.404	12.63	1.828	13.23	0.650		
11.45	0.656	12.05	3.669	12.65	1.729	13.25	0.643		
11.47	0.668	12.07	3.942	12.67	1.634	13.27	0.635		
11.48	0.680	12.08	4.217	12.68	1.546	13.28	0.629		
11.50	0.692	12.10	4.490	12.70	1.464	13.30	0.622		
11.52	0.705	12.12	4.751	12.72	1.389	13.32	0.616		
11.53	0.718	12.13	4.993	12.73	1.321	13.33	0.611		
11.55	0.732	12.15	5.207	12.75	1.258	13.35	0.606		
11.57	0.749	12.17	5.384	12.77	1.201	13.37	0.601		
11.58	0.768	12.18	5.515	12.78	1.149	13.38	0.596		
11.60	0.789	12.20	5.592	12.80	1.102	13.40	0.592		
11.62	0.814	12.22	5.614	12.82	1.060	13.42	0.588		
11.63	0.843	12.23	5.588	12.83	1.023	13.43	0.584		
11.65	0.876	12.25	5.522	12.85	0.989	13.45	0.580		
11.67	0.915	12.27	5.425	12.87	0.959	13.47	0.577		
11.68	0.958	12.28	5.304	12.88	0.932	13.48	0.573		
11.70	1.008	12.30	5.167	12.90	0.908	13.50	0.570		
11.72	1.064	12.32	5.020	12.92	0.886	13.52	0.567		
11.73	1.126	12.33	4.863	12.93	0.867	13.53	0.563		
11.75	1.194	12.35	4.696	12.95	0.850	13.55	0.560		
11.77	1.267	12.37	4.521	12.97	0.834	...end	...end		
11.78	1.345	12.38	4.337	12.98	0.820				
11.80	1.429	12.40	4.147	13.00	0.806				
11.82	1.517	12.42	3.950	13.02	0.793				
11.83	1.609	12.43	3.747	13.03	0.781				
11.85	1.705	12.45	3.541	13.05	0.768				
11.87	1.806	12.47	3.334	13.07	0.755				
11.88	1.910	12.48	3.131	13.08	0.743				
11.90	2.017	12.50	2.936	13.10	0.731				

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

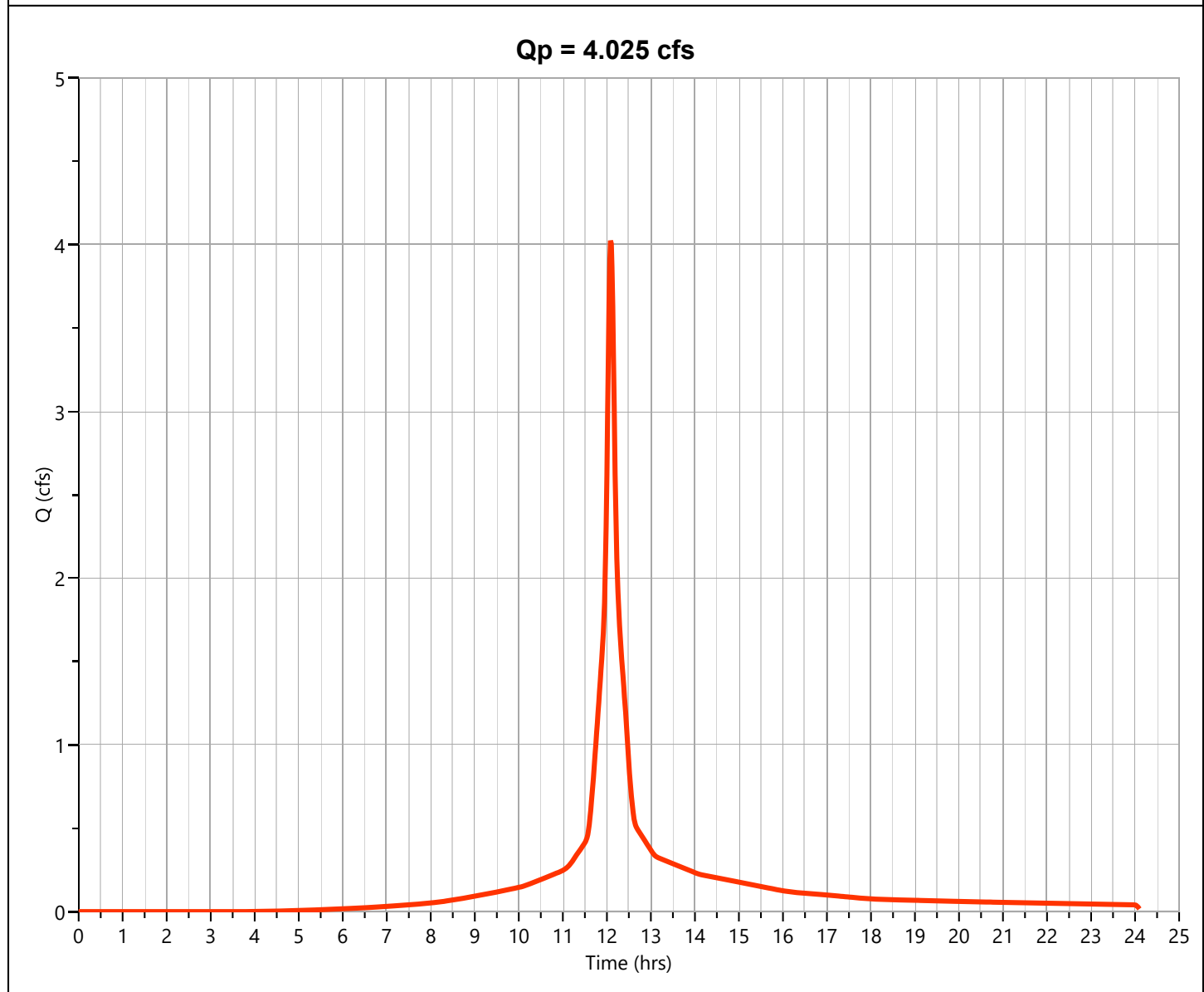
Post SA-A (TO SWQB #2)

Hyd. No. 2

Hydrograph Type	= NRCS Runoff	Peak Flow	= 4.025 cfs
Storm Frequency	= 10-yr	Time to Peak	= 12.08 hrs
Time Interval	= 1 min	Runoff Volume	= 13,442 cuft
Drainage Area	= 0.956 ac	Curve Number	= 90*
Tc Method	= User	Time of Conc. (Tc)	= 7.6 min
Total Rainfall	= 5.10 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.649	98	C-PAVED
0.307	74	C-LAWN/LANDSCAPED
0.956	90	Weighted CN Method Employed



POST108

Hydrograph Discharge Table

SA-A (TO SWQB #2)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.48	0.405	12.08	4.025	12.68	0.498				
11.50	0.412	12.10	4.006	12.70	0.491				
11.52	0.420	12.12	3.865	12.72	0.484				
11.53	0.429	12.13	3.632	12.73	0.478				
11.55	0.443	12.15	3.340	12.75	0.471				
11.57	0.462	12.17	3.025	12.77	0.464				
11.58	0.488	12.18	2.721	12.78	0.457				
11.60	0.521	12.20	2.451	12.80	0.450				
11.62	0.561	12.22	2.228	12.82	0.444				
11.63	0.607	12.23	2.054	12.83	0.437				
11.65	0.657	12.25	1.919	12.85	0.430				
11.67	0.711	12.27	1.816	12.87	0.423				
11.68	0.768	12.28	1.735	12.88	0.416				
11.70	0.826	12.30	1.668	12.90	0.409				
11.72	0.886	12.32	1.604	12.92	0.403				
11.73	0.946	12.33	1.541	12.93	0.396				
11.75	1.007	12.35	1.477	...end	...end				
11.77	1.069	12.37	1.413						
11.78	1.131	12.38	1.349						
11.80	1.193	12.40	1.285						
11.82	1.256	12.42	1.220						
11.83	1.320	12.43	1.156						
11.85	1.384	12.45	1.091						
11.87	1.449	12.47	1.026						
11.88	1.514	12.48	0.961						
11.90	1.580	12.50	0.895						
11.92	1.654	12.52	0.831						
11.93	1.749	12.53	0.769						
11.95	1.879	12.55	0.712						
11.97	2.060	12.57	0.661						
11.98	2.306	12.58	0.618						
12.00	2.619	12.60	0.583						
12.02	2.977	12.62	0.556						
12.03	3.338	12.63	0.535						
12.05	3.661	12.65	0.519						
12.07	3.904	12.67	0.507						

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

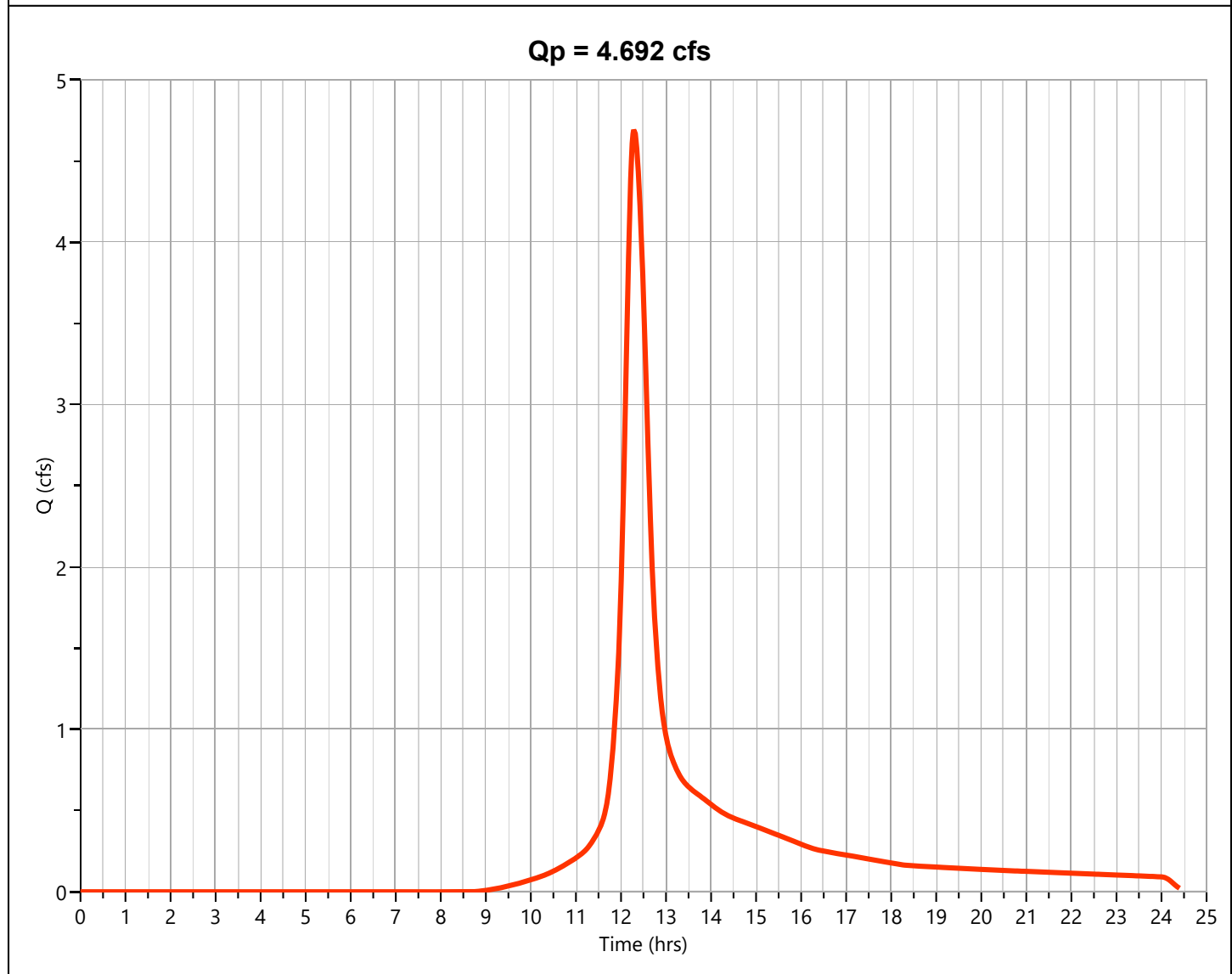
Post SA- (BYPASS)

Hyd. No. 3

Hydrograph Type	= NRCS Runoff	Peak Flow	= 4.692 cfs
Storm Frequency	= 10-yr	Time to Peak	= 12.28 hrs
Time Interval	= 1 min	Runoff Volume	= 22,746 cuft
Drainage Area	= 2.466 ac	Curve Number	= 75.12*
Tc Method	= User	Time of Conc. (Tc)	= 24.7 min
Total Rainfall	= 5.10 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.118	74	C-GRASS
1.128	70	C-WOODED
0.858	77	D-WOODED
0.362	87	C-RAILROAD ROW
2.466	75	Weighted CN Method Employed



POST110

Hydrograph Discharge Table

SA- (BYPASS)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.63	0.475	12.23	4.516	12.83	1.339	13.43	0.665	14.03	0.531
11.65	0.494	12.25	4.608	12.85	1.285	13.45	0.660	14.05	0.527
11.67	0.516	12.27	4.666	12.87	1.235	13.47	0.655	14.07	0.524
11.68	0.541	12.28	4.692	12.88	1.189	13.48	0.650	14.08	0.520
11.70	0.568	12.30	4.691	12.90	1.147	13.50	0.646	14.10	0.517
11.72	0.599	12.32	4.668	12.92	1.108	13.52	0.641	14.12	0.513
11.73	0.634	12.33	4.627	12.93	1.072	13.53	0.637	14.13	0.510
11.75	0.672	12.35	4.573	12.95	1.040	13.55	0.633	14.15	0.506
11.77	0.715	12.37	4.508	12.97	1.010	13.57	0.630	14.17	0.503
11.78	0.761	12.38	4.434	12.98	0.982	13.58	0.626	14.18	0.500
11.80	0.812	12.40	4.350	13.00	0.958	13.60	0.622	14.20	0.497
11.82	0.866	12.42	4.257	13.02	0.935	13.62	0.619	14.22	0.494
11.83	0.925	12.43	4.155	13.03	0.914	13.63	0.615	14.23	0.491
11.85	0.988	12.45	4.045	13.05	0.895	13.65	0.612	14.25	0.488
11.87	1.055	12.47	3.926	13.07	0.878	13.67	0.608	14.27	0.485
11.88	1.127	12.48	3.800	13.08	0.862	13.68	0.605	14.28	0.482
11.90	1.202	12.50	3.666	13.10	0.847	13.70	0.602	14.30	0.480
11.92	1.283	12.52	3.526	13.12	0.834	13.72	0.598	14.32	0.477
11.93	1.371	12.53	3.379	13.13	0.821	13.73	0.595	14.33	0.475
11.95	1.470	12.55	3.228	13.15	0.809	13.75	0.591	14.35	0.472
11.97	1.583	12.57	3.073	13.17	0.797	13.77	0.588	14.37	0.470
11.98	1.711	12.58	2.915	13.18	0.785	13.78	0.584	14.38	0.468
12.00	1.859	12.60	2.757	13.20	0.774	13.80	0.581	...end	...end
12.02	2.026	12.62	2.602	13.22	0.764	13.82	0.577		
12.03	2.210	12.63	2.452	13.23	0.753	13.83	0.574		
12.05	2.406	12.65	2.309	13.25	0.744	13.85	0.570		
12.07	2.612	12.67	2.178	13.27	0.734	13.87	0.567		
12.08	2.824	12.68	2.058	13.28	0.726	13.88	0.563		
12.10	3.037	12.70	1.949	13.30	0.717	13.90	0.559		
12.12	3.250	12.72	1.849	13.32	0.709	13.92	0.556		
12.13	3.461	12.73	1.759	13.33	0.702	13.93	0.552		
12.15	3.669	12.75	1.676	13.35	0.695	13.95	0.549		
12.17	3.871	12.77	1.599	13.37	0.688	13.97	0.545		
12.18	4.062	12.78	1.527	13.38	0.682	13.98	0.542		
12.20	4.237	12.80	1.460	13.40	0.676	14.00	0.538		
12.22	4.390	12.82	1.397	13.42	0.670	14.02	0.534		

Printed values > 10% of Qpeak. nth-point print interval = 1

POST111

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

PROP SWQB #1

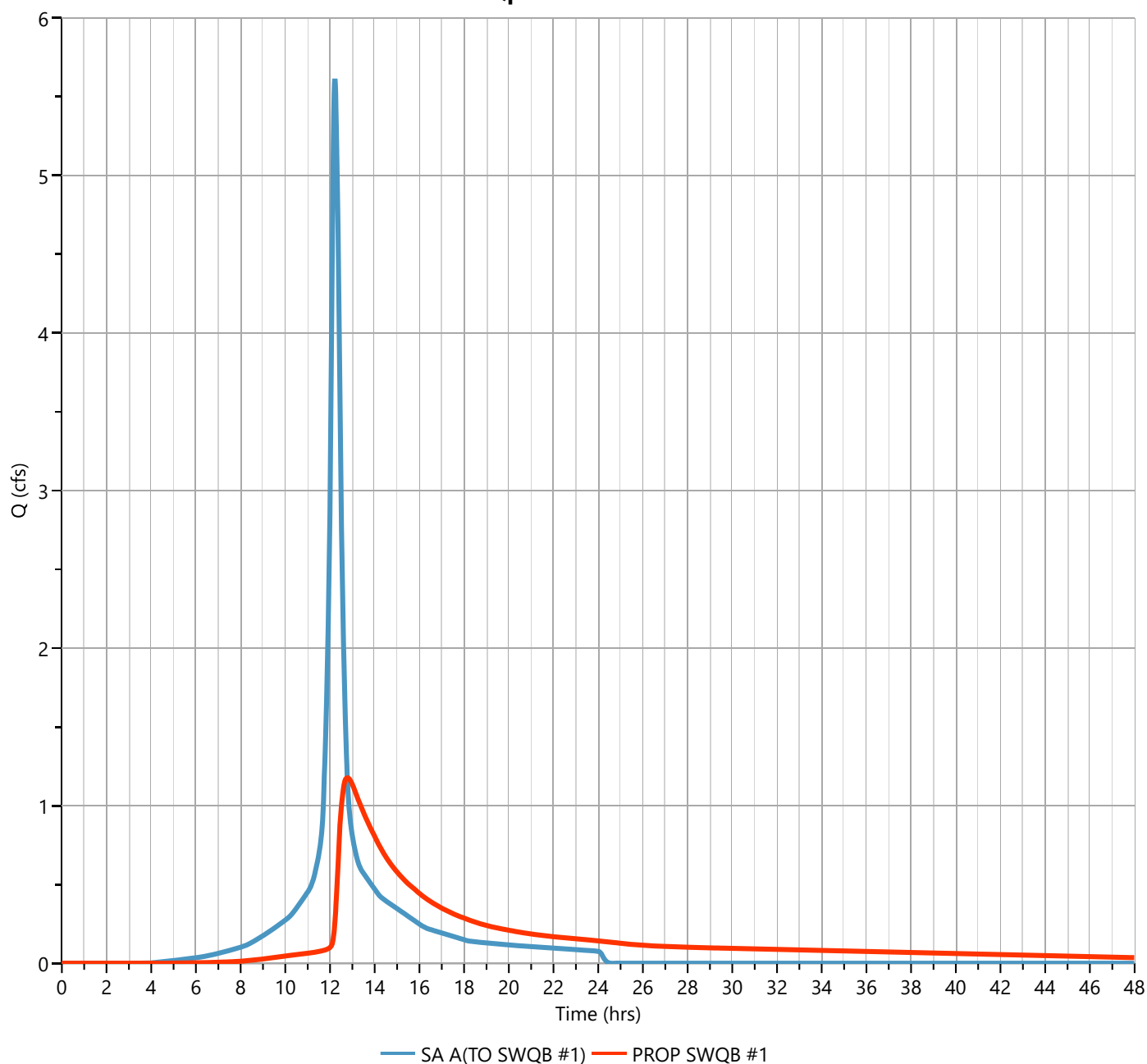
Hyd. No. 4

Hydrograph Type	= Pond Route	Peak Flow	= 1.179 cfs
Storm Frequency	= 10-yr	Time to Peak	= 12.77 hrs
Time Interval	= 1 min	Hydrograph Volume	= 24,556 cuft
Inflow Hydrograph	= 1 - SA A(TO SWQB #1)	Max. Elevation	= 83.19 ft
Pond Name	= PROP SWQB #1	Max. Storage	= 14,020 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 7.29 hrs

Qp = 1.179 cfs



Hydrograph Discharge Table

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
12.10	0.123	12.70	1.170	13.30	1.024	13.90	0.833	14.50	0.673
12.12	0.134	12.72	1.174	13.32	1.018	13.92	0.828	14.52	0.669
12.13	0.144	12.73	1.177	13.33	1.012	13.93	0.823	14.53	0.665
12.15	0.161	12.75	1.179	13.35	1.005	13.95	0.819	14.55	0.662
12.17	0.179	12.77	1.179	13.37	0.999	13.97	0.814	14.57	0.658
12.18	0.202	12.78	1.179	13.38	0.993	13.98	0.809	14.58	0.654
12.20	0.228	12.80	1.178	13.40	0.988	14.00	0.804	14.60	0.651
12.22	0.258	12.82	1.177	13.42	0.982	14.02	0.800	14.62	0.647
12.23	0.292	12.83	1.175	13.43	0.977	14.03	0.795	14.63	0.644
12.25	0.329	12.85	1.172	13.45	0.971	14.05	0.790	14.65	0.641
12.27	0.371	12.87	1.169	13.47	0.966	14.07	0.786	14.67	0.638
12.28	0.413	12.88	1.165	13.48	0.960	14.08	0.781	14.68	0.635
12.30	0.461	12.90	1.161	13.50	0.955	14.10	0.776	14.70	0.632
12.32	0.507	12.92	1.157	13.52	0.949	14.12	0.772	14.72	0.629
12.33	0.557	12.93	1.153	13.53	0.944	14.13	0.767	14.73	0.626
12.35	0.608	12.95	1.148	13.55	0.939	14.15	0.762	14.75	0.623
12.37	0.656	12.97	1.143	13.57	0.933	14.17	0.758	14.77	0.620
12.38	0.708	12.98	1.138	13.58	0.928	14.18	0.753	14.78	0.617
12.40	0.758	13.00	1.133	13.60	0.923	14.20	0.749	14.80	0.614
12.42	0.804	13.02	1.128	13.62	0.918	14.22	0.744	14.82	0.611
12.43	0.846	13.03	1.122	13.63	0.913	14.23	0.740	14.83	0.608
12.45	0.885	13.05	1.117	13.65	0.907	14.25	0.736	14.85	0.605
12.47	0.921	13.07	1.111	13.67	0.902	14.27	0.731	14.87	0.602
12.48	0.953	13.08	1.106	13.68	0.897	14.28	0.727	14.88	0.599
12.50	0.982	13.10	1.100	13.70	0.892	14.30	0.723	14.90	0.596
12.52	1.009	13.12	1.094	13.72	0.887	14.32	0.718	14.92	0.593
12.53	1.035	13.13	1.088	13.73	0.882	14.33	0.714	14.93	0.590
12.55	1.058	13.15	1.082	13.75	0.877	14.35	0.710	14.95	0.588
12.57	1.079	13.17	1.075	13.77	0.872	14.37	0.706	14.97	0.585
12.58	1.097	13.18	1.069	13.78	0.867	14.38	0.701	14.98	0.582
12.60	1.113	13.20	1.063	13.80	0.862	14.40	0.697	15.00	0.579
12.62	1.127	13.22	1.057	13.82	0.857	14.42	0.693	15.02	0.576
12.63	1.139	13.23	1.050	13.83	0.852	14.43	0.689	15.03	0.574
12.65	1.149	13.25	1.044	13.85	0.847	14.45	0.685	15.05	0.571
12.67	1.157	13.27	1.037	13.87	0.843	14.47	0.681	15.07	0.568
12.68	1.164	13.28	1.031	13.88	0.838	14.48	0.677	15.08	0.565

Printed values > 10% of Qpeak. nth-point print interval = 1

POST113

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
15.10	0.563	15.70	0.479	16.30	0.409	16.90	0.358	17.50	0.313
15.12	0.560	15.72	0.477	16.32	0.407	16.92	0.356	17.52	0.312
15.13	0.557	15.73	0.475	16.33	0.405	16.93	0.355	17.53	0.311
15.15	0.555	15.75	0.473	16.35	0.404	16.95	0.354	17.55	0.310
15.17	0.552	15.77	0.471	16.37	0.402	16.97	0.352	17.57	0.309
15.18	0.549	15.78	0.469	16.38	0.401	16.98	0.351	17.58	0.308
15.20	0.547	15.80	0.467	16.40	0.399	17.00	0.350	17.60	0.307
15.22	0.544	15.82	0.465	16.42	0.398	17.02	0.348	17.62	0.307
15.23	0.541	15.83	0.463	16.43	0.396	17.03	0.347	17.63	0.306
15.25	0.539	15.85	0.461	16.45	0.395	17.05	0.346	17.65	0.305
15.27	0.536	15.87	0.459	16.47	0.393	17.07	0.345	17.67	0.304
15.28	0.534	15.88	0.457	16.48	0.392	17.08	0.343	17.68	0.303
15.30	0.531	15.90	0.455	16.50	0.390	17.10	0.342	17.70	0.302
15.32	0.529	15.92	0.453	16.52	0.389	17.12	0.341	17.72	0.301
15.33	0.526	15.93	0.451	16.53	0.388	17.13	0.340	17.73	0.300
15.35	0.523	15.95	0.449	16.55	0.386	17.15	0.338	17.75	0.299
15.37	0.521	15.97	0.447	16.57	0.385	17.17	0.337	17.77	0.298
15.38	0.518	15.98	0.445	16.58	0.383	17.18	0.336	17.78	0.298
15.40	0.516	16.00	0.444	16.60	0.382	17.20	0.335	17.80	0.297
15.42	0.514	16.02	0.442	16.62	0.381	17.22	0.333	17.82	0.296
15.43	0.512	16.03	0.440	16.63	0.379	17.23	0.332	17.83	0.295
15.45	0.510	16.05	0.438	16.65	0.378	17.25	0.331	17.85	0.294
15.47	0.508	16.07	0.436	16.67	0.376	17.27	0.330	17.87	0.293
15.48	0.506	16.08	0.434	16.68	0.375	17.28	0.329	17.88	0.292
15.50	0.504	16.10	0.432	16.70	0.374	17.30	0.327	17.90	0.291
15.52	0.502	16.12	0.430	16.72	0.372	17.32	0.326	17.92	0.290
15.53	0.499	16.13	0.428	16.73	0.371	17.33	0.325	17.93	0.290
15.55	0.497	16.15	0.426	16.75	0.370	17.35	0.324	17.95	0.289
15.57	0.495	16.17	0.424	16.77	0.368	17.37	0.323	17.97	0.288
15.58	0.493	16.18	0.422	16.78	0.367	17.38	0.321	17.98	0.287
15.60	0.491	16.20	0.420	16.80	0.365	17.40	0.320	18.00	0.286
15.62	0.489	16.22	0.418	16.82	0.364	17.42	0.319	18.02	0.285
15.63	0.487	16.23	0.417	16.83	0.363	17.43	0.318	18.03	0.284
15.65	0.485	16.25	0.415	16.85	0.361	17.45	0.317	18.05	0.283
15.67	0.483	16.27	0.413	16.87	0.360	17.47	0.316	18.07	0.283
15.68	0.481	16.28	0.411	16.88	0.359	17.48	0.314	18.08	0.282

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
18.10	0.281	18.70	0.251	19.30	0.229	19.90	0.212	20.50	0.196
18.12	0.280	18.72	0.250	19.32	0.229	19.92	0.211	20.52	0.196
18.13	0.279	18.73	0.250	19.33	0.228	19.93	0.211	20.53	0.195
18.15	0.278	18.75	0.249	19.35	0.228	19.95	0.210	20.55	0.195
18.17	0.277	18.77	0.248	19.37	0.227	19.97	0.210	20.57	0.194
18.18	0.276	18.78	0.247	19.38	0.227	19.98	0.210	20.58	0.194
18.20	0.276	18.80	0.247	19.40	0.226	20.00	0.209	20.60	0.194
18.22	0.275	18.82	0.246	19.42	0.226	20.02	0.209	20.62	0.193
18.23	0.274	18.83	0.245	19.43	0.225	20.03	0.208	20.63	0.193
18.25	0.273	18.85	0.245	19.45	0.225	20.05	0.208	20.65	0.192
18.27	0.272	18.87	0.244	19.47	0.224	20.07	0.207	20.67	0.192
18.28	0.271	18.88	0.243	19.48	0.224	20.08	0.207	20.68	0.192
18.30	0.270	18.90	0.242	19.50	0.223	20.10	0.206	20.70	0.191
18.32	0.270	18.92	0.242	19.52	0.223	20.12	0.206	20.72	0.191
18.33	0.269	18.93	0.241	19.53	0.222	20.13	0.206	20.73	0.190
18.35	0.268	18.95	0.240	19.55	0.222	20.15	0.205	20.75	0.190
18.37	0.267	18.97	0.240	19.57	0.221	20.17	0.205	20.77	0.190
18.38	0.266	18.98	0.239	19.58	0.221	20.18	0.204	20.78	0.189
18.40	0.265	19.00	0.238	19.60	0.220	20.20	0.204	20.80	0.189
18.42	0.265	19.02	0.238	19.62	0.220	20.22	0.203	20.82	0.188
18.43	0.264	19.03	0.237	19.63	0.219	20.23	0.203	20.83	0.188
18.45	0.263	19.05	0.237	19.65	0.219	20.25	0.202	20.85	0.188
18.47	0.262	19.07	0.236	19.67	0.218	20.27	0.202	20.87	0.187
18.48	0.261	19.08	0.236	19.68	0.218	20.28	0.202	20.88	0.187
18.50	0.261	19.10	0.235	19.70	0.217	20.30	0.201	20.90	0.186
18.52	0.260	19.12	0.235	19.72	0.217	20.32	0.201	20.92	0.186
18.53	0.259	19.13	0.234	19.73	0.216	20.33	0.200	20.93	0.186
18.55	0.258	19.15	0.234	19.75	0.216	20.35	0.200	20.95	0.185
18.57	0.257	19.17	0.233	19.77	0.216	20.37	0.199	20.97	0.185
18.58	0.257	19.18	0.233	19.78	0.215	20.38	0.199	20.98	0.185
18.60	0.256	19.20	0.232	19.80	0.215	20.40	0.199	21.00	0.184
18.62	0.255	19.22	0.232	19.82	0.214	20.42	0.198	21.02	0.184
18.63	0.254	19.23	0.231	19.83	0.214	20.43	0.198	21.03	0.184
18.65	0.254	19.25	0.231	19.85	0.213	20.45	0.197	21.05	0.183
18.67	0.253	19.27	0.230	19.87	0.213	20.47	0.197	21.07	0.183
18.68	0.252	19.28	0.230	19.88	0.212	20.48	0.197	21.08	0.183

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
21.10	0.183	21.70	0.173	22.30	0.164	22.90	0.155	23.50	0.147
21.12	0.182	21.72	0.173	22.32	0.164	22.92	0.155	23.52	0.147
21.13	0.182	21.73	0.173	22.33	0.164	22.93	0.155	23.53	0.147
21.15	0.182	21.75	0.172	22.35	0.163	22.95	0.155	23.55	0.146
21.17	0.182	21.77	0.172	22.37	0.163	22.97	0.154	23.57	0.146
21.18	0.181	21.78	0.172	22.38	0.163	22.98	0.154	23.58	0.146
21.20	0.181	21.80	0.172	22.40	0.163	23.00	0.154	23.60	0.146
21.22	0.181	21.82	0.171	22.42	0.162	23.02	0.154	23.62	0.145
21.23	0.180	21.83	0.171	22.43	0.162	23.03	0.153	23.63	0.145
21.25	0.180	21.85	0.171	22.45	0.162	23.05	0.153	23.65	0.145
21.27	0.180	21.87	0.171	22.47	0.162	23.07	0.153	23.67	0.145
21.28	0.180	21.88	0.170	22.48	0.161	23.08	0.153	23.68	0.145
21.30	0.179	21.90	0.170	22.50	0.161	23.10	0.153	23.70	0.145
21.32	0.179	21.92	0.170	22.52	0.161	23.12	0.152	23.72	0.144
21.33	0.179	21.93	0.170	22.53	0.161	23.13	0.152	23.73	0.144
21.35	0.179	21.95	0.169	22.55	0.160	23.15	0.152	23.75	0.144
21.37	0.178	21.97	0.169	22.57	0.160	23.17	0.152	23.77	0.144
21.38	0.178	21.98	0.169	22.58	0.160	23.18	0.151	23.78	0.144
21.40	0.178	22.00	0.169	22.60	0.160	23.20	0.151	23.80	0.144
21.42	0.178	22.02	0.168	22.62	0.159	23.22	0.151	23.82	0.144
21.43	0.177	22.03	0.168	22.63	0.159	23.23	0.151	23.83	0.143
21.45	0.177	22.05	0.168	22.65	0.159	23.25	0.150	23.85	0.143
21.47	0.177	22.07	0.168	22.67	0.159	23.27	0.150	23.87	0.143
21.48	0.176	22.08	0.167	22.68	0.158	23.28	0.150	23.88	0.143
21.50	0.176	22.10	0.167	22.70	0.158	23.30	0.150	23.90	0.143
21.52	0.176	22.12	0.167	22.72	0.158	23.32	0.150	23.92	0.143
21.53	0.176	22.13	0.167	22.73	0.158	23.33	0.149	23.93	0.143
21.55	0.175	22.15	0.166	22.75	0.158	23.35	0.149	23.95	0.142
21.57	0.175	22.17	0.166	22.77	0.157	23.37	0.149	23.97	0.142
21.58	0.175	22.18	0.166	22.78	0.157	23.38	0.149	23.98	0.142
21.60	0.175	22.20	0.166	22.80	0.157	23.40	0.148	24.00	0.142
21.62	0.174	22.22	0.165	22.82	0.157	23.42	0.148	24.02	0.142
21.63	0.174	22.23	0.165	22.83	0.156	23.43	0.148	24.03	0.142
21.65	0.174	22.25	0.165	22.85	0.156	23.45	0.148	24.05	0.141
21.67	0.174	22.27	0.165	22.87	0.156	23.47	0.147	24.07	0.141
21.68	0.173	22.28	0.164	22.88	0.156	23.48	0.147	24.08	0.141

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
24.10	0.141	24.70	0.131	25.30	0.121				
24.12	0.141	24.72	0.131	25.32	0.121				
24.13	0.141	24.73	0.131	25.33	0.120				
24.15	0.140	24.75	0.130	25.35	0.120				
24.17	0.140	24.77	0.130	25.37	0.120				
24.18	0.140	24.78	0.130	25.38	0.120				
24.20	0.140	24.80	0.130	25.40	0.119				
24.22	0.140	24.82	0.129	25.42	0.119				
24.23	0.139	24.83	0.129	25.43	0.119				
24.25	0.139	24.85	0.129	25.45	0.119				
24.27	0.139	24.87	0.128	25.47	0.119				
24.28	0.139	24.88	0.128	25.48	0.119				
24.30	0.138	24.90	0.128	25.50	0.118				
24.32	0.138	24.92	0.127	25.52	0.118				
24.33	0.138	24.93	0.127	25.53	0.118				
24.35	0.138	24.95	0.127	25.55	0.118				
24.37	0.137	24.97	0.127	25.57	0.118				
24.38	0.137	24.98	0.126	...end	...end				
24.40	0.137	25.00	0.126						
24.42	0.136	25.02	0.126						
24.43	0.136	25.03	0.125						
24.45	0.136	25.05	0.125						
24.47	0.136	25.07	0.125						
24.48	0.135	25.08	0.125						
24.50	0.135	25.10	0.124						
24.52	0.135	25.12	0.124						
24.53	0.134	25.13	0.124						
24.55	0.134	25.15	0.123						
24.57	0.134	25.17	0.123						
24.58	0.133	25.18	0.123						
24.60	0.133	25.20	0.123						
24.62	0.133	25.22	0.122						
24.63	0.132	25.23	0.122						
24.65	0.132	25.25	0.122						
24.67	0.132	25.27	0.122						
24.68	0.132	25.28	0.121						

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

PROP SWQB #2

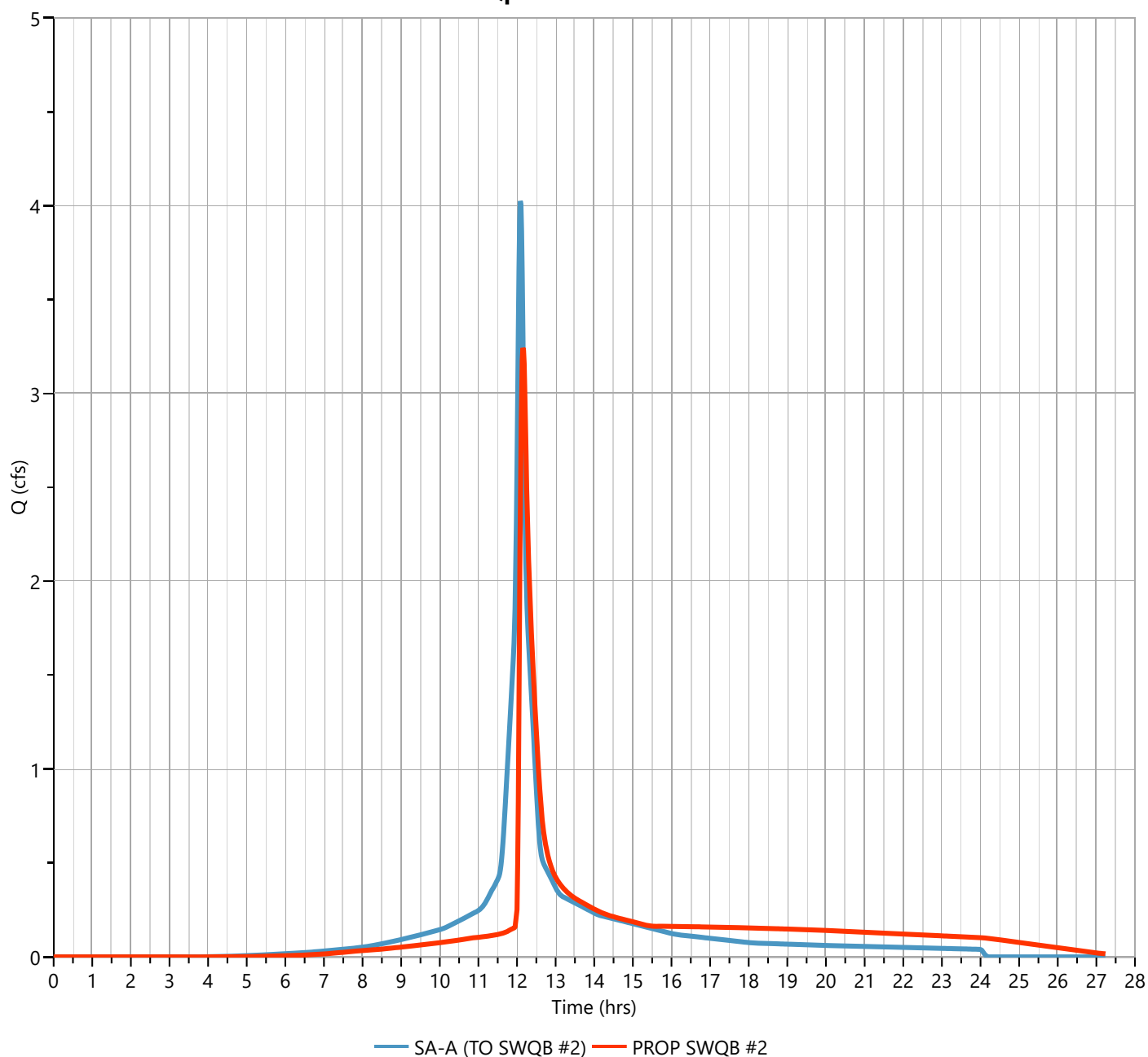
Hyd. No. 5

Hydrograph Type	= Pond Route	Peak Flow	= 3.242 cfs
Storm Frequency	= 10-yr	Time to Peak	= 12.15 hrs
Time Interval	= 1 min	Hydrograph Volume	= 13,436 cuft
Inflow Hydrograph	= 2 - SA-A (TO SWQB #2)	Max. Elevation	= 83.02 ft
Pond Name	= PRO SWQB #2	Max. Storage	= 3,789 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 2.14 hrs

Qp = 3.242 cfs



Hydrograph Discharge Table

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
12.02	0.492	12.62	0.812	13.22	0.361				
12.03	0.884	12.63	0.773	13.23	0.357				
12.05	1.365	12.65	0.737	13.25	0.353				
12.07	1.862	12.67	0.704	13.27	0.350				
12.08	2.324	12.68	0.674	13.28	0.347				
12.10	2.733	12.70	0.648	13.30	0.344				
12.12	3.024	12.72	0.624	13.32	0.341				
12.13	3.181	12.73	0.603	13.33	0.338				
12.15	3.242	12.75	0.584	13.35	0.335				
12.17	3.230	12.77	0.567	13.37	0.332				
12.18	3.159	12.78	0.551	13.38	0.329				
12.20	3.034	12.80	0.537	13.40	0.327				
12.22	2.866	12.82	0.524	13.42	0.324				
12.23	2.690	12.83	0.512	13.43	0.322				
12.25	2.520	12.85	0.500	...end	...end				
12.27	2.362	12.87	0.489						
12.28	2.225	12.88	0.479						
12.30	2.111	12.90	0.469						
12.32	2.008	12.92	0.460						
12.33	1.914	12.93	0.451						
12.35	1.826	12.95	0.442						
12.37	1.744	12.97	0.434						
12.38	1.665	12.98	0.426						
12.40	1.590	13.00	0.422						
12.42	1.518	13.02	0.417						
12.43	1.457	13.03	0.412						
12.45	1.395	13.05	0.407						
12.47	1.332	13.07	0.402						
12.48	1.269	13.08	0.397						
12.50	1.206	13.10	0.392						
12.52	1.142	13.12	0.387						
12.53	1.078	13.13	0.382						
12.55	1.015	13.15	0.377						
12.57	0.954	13.17	0.373						
12.58	0.898	13.18	0.369						
12.60	0.854	13.20	0.364						

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

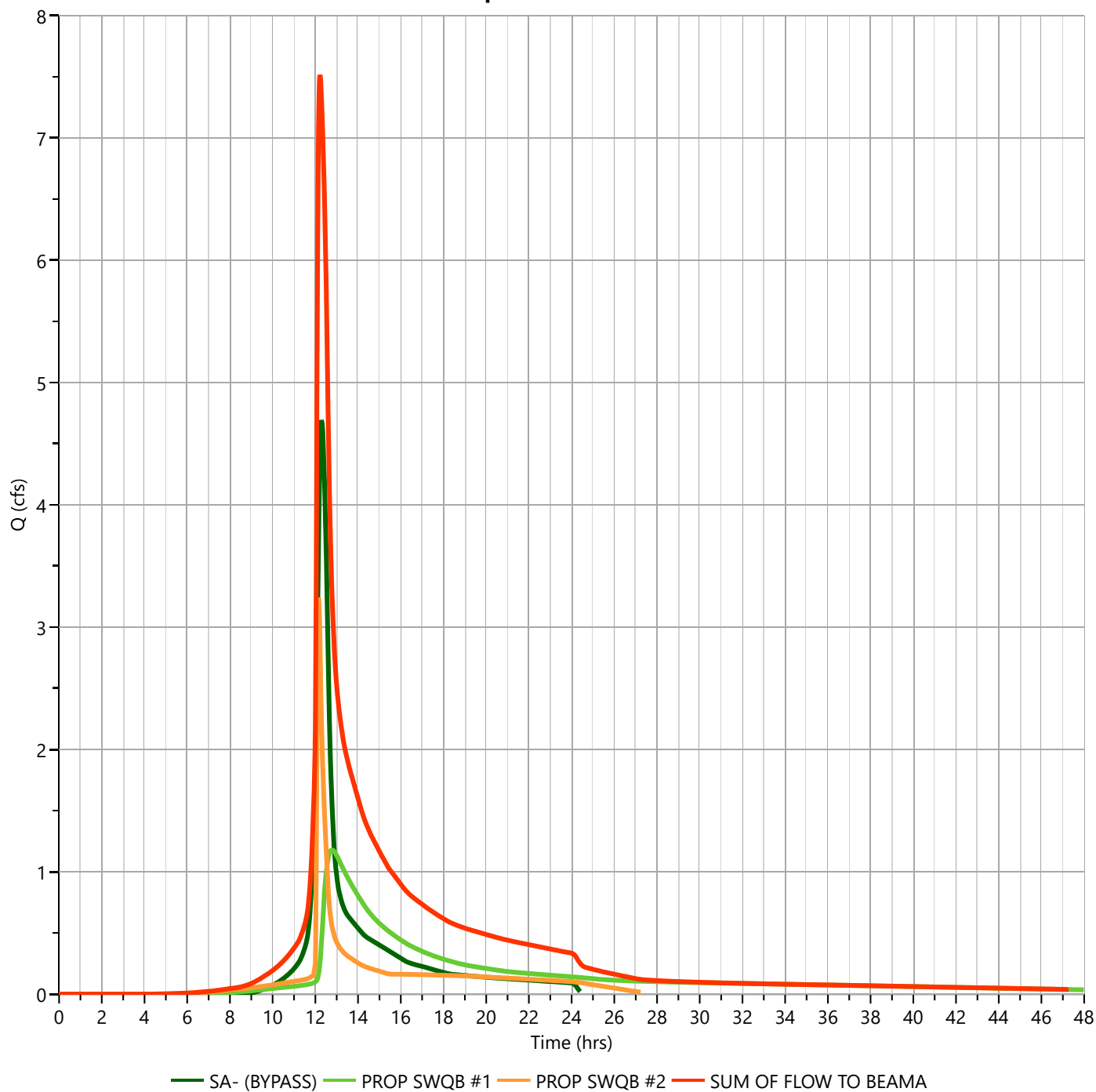
03-13-2025

Post SUM OF FLOW TO BEAMA

Hyd. No. 6

Hydrograph Type	= Junction	Peak Flow	= 7.514 cfs
Storm Frequency	= 10-yr	Time to Peak	= 12.22 hrs
Time Interval	= 1 min	Hydrograph Volume	= 60,739 cuft
Inflow Hydrographs	= 3	Total Contrib. Area	= 2.466 ac

Qp = 7.514 cfs



POST120

Hydrograph Discharge Table

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.70	0.780	12.30	7.263	12.90	2.778	13.50	1.913	14.10	1.536
11.72	0.812	12.32	7.183	12.92	2.725	13.52	1.901	14.12	1.527
11.73	0.849	12.33	7.098	12.93	2.676	13.53	1.890	14.13	1.517
11.75	0.890	12.35	7.006	12.95	2.630	13.55	1.878	14.15	1.507
11.77	0.935	12.37	6.908	12.97	2.587	13.57	1.867	14.17	1.498
11.78	0.984	12.38	6.808	12.98	2.547	13.58	1.856	14.18	1.489
11.80	1.038	12.40	6.698	13.00	2.513	13.60	1.845	14.20	1.480
11.82	1.095	12.42	6.579	13.02	2.480	13.62	1.834	14.22	1.471
11.83	1.157	12.43	6.458	13.03	2.449	13.63	1.824	14.23	1.462
11.85	1.223	12.45	6.324	13.05	2.419	13.65	1.813	14.25	1.453
11.87	1.292	12.47	6.179	13.07	2.391	13.67	1.803	14.27	1.445
11.88	1.366	12.48	6.021	13.08	2.364	13.68	1.792	14.28	1.437
11.90	1.445	12.50	5.853	13.10	2.339	13.70	1.782	14.30	1.428
11.92	1.528	12.52	5.676	13.12	2.314	13.72	1.771	14.32	1.420
11.93	1.620	12.53	5.493	13.13	2.291	13.73	1.761	14.33	1.413
11.95	1.722	12.55	5.302	13.15	2.268	13.75	1.750	14.35	1.405
11.97	1.838	12.57	5.106	13.17	2.245	13.77	1.740	14.37	1.397
11.98	1.970	12.58	4.910	13.18	2.223	13.78	1.729	14.38	1.390
12.00	2.209	12.60	4.725	13.20	2.202	13.80	1.719	14.40	1.382
12.02	2.619	12.62	4.541	13.22	2.181	13.82	1.709	14.42	1.375
12.03	3.197	12.63	4.364	13.23	2.160	13.83	1.699	14.43	1.368
12.05	3.877	12.65	4.195	13.25	2.141	13.85	1.688	14.45	1.361
12.07	4.585	12.67	4.039	13.27	2.122	13.87	1.678	14.47	1.354
12.08	5.264	12.68	3.896	13.28	2.103	13.88	1.668	14.48	1.347
12.10	5.894	12.70	3.766	13.30	2.085	13.90	1.658	14.50	1.340
12.12	6.408	12.72	3.648	13.32	2.068	13.92	1.647	14.52	1.333
12.13	6.786	12.73	3.539	13.33	2.051	13.93	1.637	14.53	1.327
12.15	7.072	12.75	3.439	13.35	2.035	13.95	1.627	14.55	1.320
12.17	7.279	12.77	3.345	13.37	2.019	13.97	1.617	14.57	1.313
12.18	7.422	12.78	3.258	13.38	2.004	13.98	1.607	14.58	1.307
12.20	7.498	12.80	3.175	13.40	1.990	14.00	1.597	14.60	1.301
12.22	7.514	12.82	3.098	13.42	1.977	14.02	1.586	14.62	1.295
12.23	7.498	12.83	3.025	13.43	1.963	14.03	1.576	14.63	1.289
12.25	7.458	12.85	2.957	13.45	1.950	14.05	1.566	14.65	1.284
12.27	7.399	12.87	2.893	13.47	1.938	14.07	1.556	14.67	1.278
12.28	7.329	12.88	2.834	13.48	1.925	14.08	1.546	14.68	1.272

Hydrograph Discharge Table, cont'd

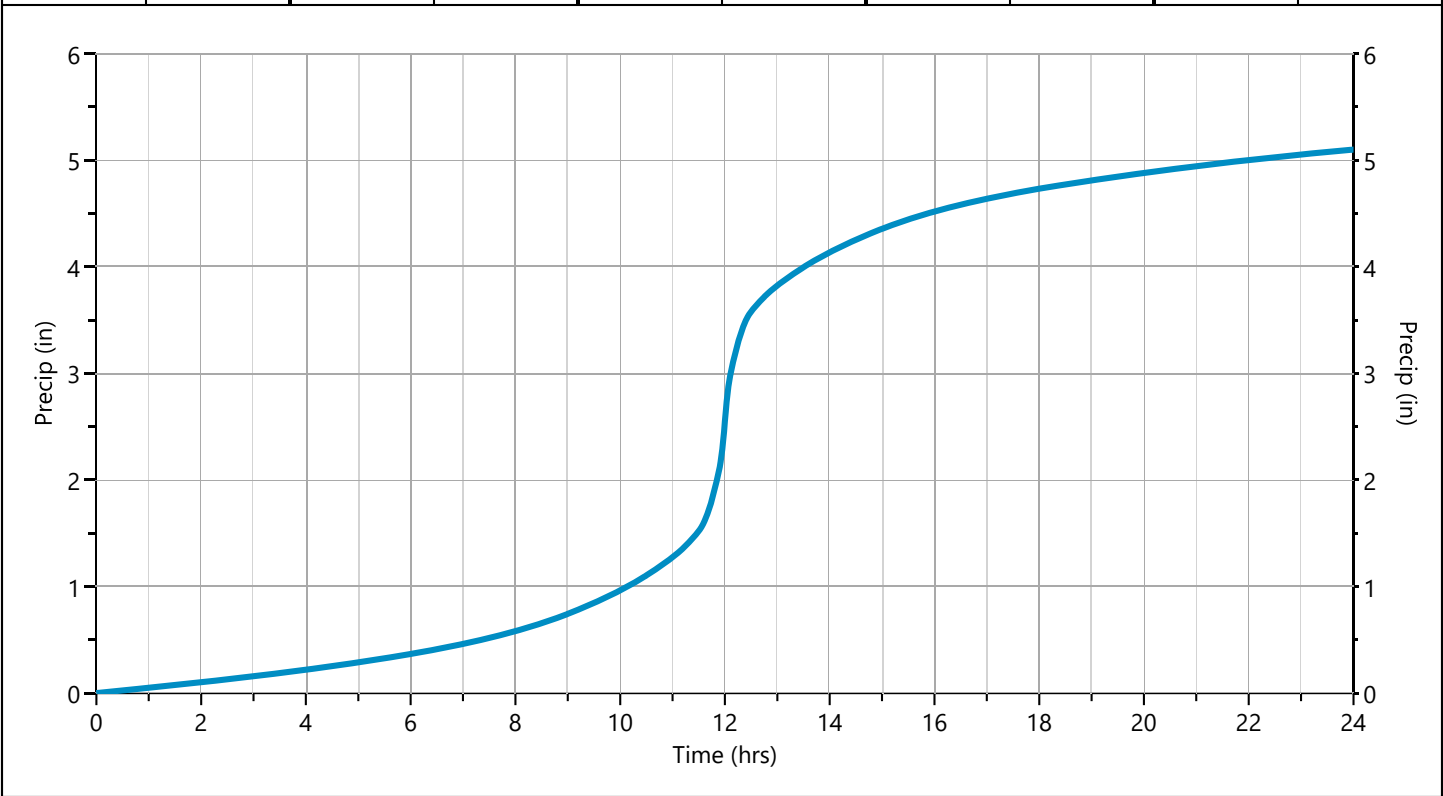
SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
14.70	1.266	15.30	1.071	15.90	0.921	16.50	0.801		
14.72	1.261	15.32	1.066	15.92	0.917	16.52	0.799		
14.73	1.255	15.33	1.060	15.93	0.913	16.53	0.796		
14.75	1.249	15.35	1.055	15.95	0.910	16.55	0.794		
14.77	1.244	15.37	1.050	15.97	0.906	16.57	0.792		
14.78	1.238	15.38	1.045	15.98	0.902	16.58	0.789		
14.80	1.233	15.40	1.040	16.00	0.898	16.60	0.787		
14.82	1.227	15.42	1.035	16.02	0.894	16.62	0.785		
14.83	1.221	15.43	1.030	16.03	0.890	16.63	0.783		
14.85	1.216	15.45	1.026	16.05	0.887	16.65	0.780		
14.87	1.210	15.47	1.022	16.07	0.883	16.67	0.778		
14.88	1.205	15.48	1.018	16.08	0.879	16.68	0.776		
14.90	1.199	15.50	1.014	16.10	0.875	16.70	0.774		
14.92	1.194	15.52	1.010	16.12	0.871	16.72	0.771		
14.93	1.188	15.53	1.006	16.13	0.868	16.73	0.769		
14.95	1.183	15.55	1.002	16.15	0.864	16.75	0.767		
14.97	1.177	15.57	0.998	16.17	0.860	16.77	0.765		
14.98	1.172	15.58	0.994	16.18	0.857	16.78	0.762		
15.00	1.167	15.60	0.991	16.20	0.853	16.80	0.760		
15.02	1.161	15.62	0.987	16.22	0.850	16.82	0.758		
15.03	1.156	15.63	0.983	16.23	0.846	16.83	0.756		
15.05	1.150	15.65	0.979	16.25	0.843	16.85	0.754		
15.07	1.145	15.67	0.975	16.27	0.840	16.87	0.751		
15.08	1.140	15.68	0.971	16.28	0.836	16.88	0.749		
15.10	1.134	15.70	0.967	16.30	0.833	...end	...end		
15.12	1.129	15.72	0.964	16.32	0.830				
15.13	1.124	15.73	0.960	16.33	0.827				
15.15	1.118	15.75	0.956	16.35	0.824				
15.17	1.113	15.77	0.952	16.37	0.821				
15.18	1.108	15.78	0.948	16.38	0.818				
15.20	1.102	15.80	0.944	16.40	0.816				
15.22	1.097	15.82	0.940	16.42	0.813				
15.23	1.092	15.83	0.937	16.43	0.811				
15.25	1.087	15.85	0.933	16.45	0.808				
15.27	1.081	15.87	0.929	16.47	0.806				
15.28	1.076	15.88	0.925	16.48	0.803				

Storm Distribution: NRCS/SCS - Type III, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	1-yr	2-yr	3-yr	5-yr	✓ 10-yr	25-yr	50-yr	100-yr	
24 hrs	2.55	3.19	0.00	4.24	5.10	6.30	7.17	8.14	

Incremental Rainfall Distribution, 10-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.010050	11.68	0.023205	11.87	0.036918	12.05	0.076627	12.23	0.030685
11.52	0.010709	11.70	0.024452	11.88	0.038165	12.07	0.066172	12.25	0.029439
11.53	0.011985	11.72	0.025698	11.90	0.039412	12.08	0.055717	12.27	0.028192
11.55	0.013232	11.73	0.026945	11.92	0.045408	12.10	0.045262	12.28	0.026945
11.57	0.014478	11.75	0.028192	11.93	0.055718	12.12	0.039562	12.30	0.025698
11.58	0.015725	11.77	0.029438	11.95	0.066173	12.13	0.038165	12.32	0.024452
11.60	0.016972	11.78	0.030685	11.97	0.076628	12.15	0.036918	12.33	0.023205
11.62	0.018218	11.80	0.031932	11.98	0.087083	12.17	0.035672	12.35	0.021958
11.63	0.019465	11.82	0.033178	12.00	0.097538	12.18	0.034425	12.37	0.020712
11.65	0.020712	11.83	0.034425	12.02	0.097304	12.20	0.033179	12.38	0.019465
11.67	0.021958	11.85	0.035672	12.03	0.087082	12.22	0.031932	12.40	0.018219



Hydrograph 25-yr Summary

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

Hydrology Studio v 3.0.0.36

03-13-2025

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Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

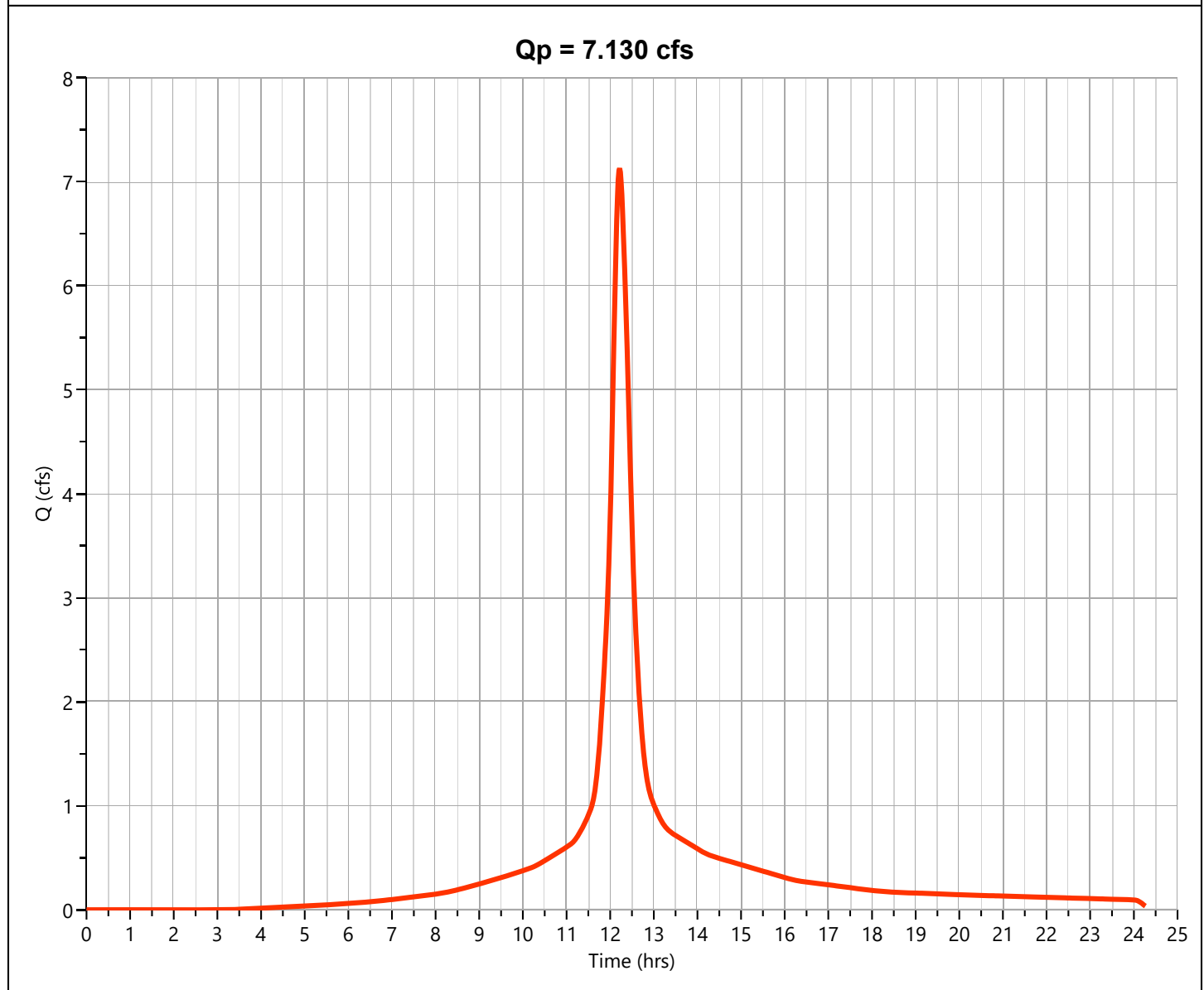
Post SA A(TO SWQB #1)

Hyd. No. 1

Hydrograph Type	= NRCS Runoff	Peak Flow	= 7.130 cfs
Storm Frequency	= 25-yr	Time to Peak	= 12.22 hrs
Time Interval	= 1 min	Runoff Volume	= 33,148 cuft
Drainage Area	= 1.739 ac	Curve Number	= 91*
Tc Method	= User	Time of Conc. (Tc)	= 19.1 min
Total Rainfall	= 6.30 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
1.234	98	C-PAVED/ROOF
0.505	74	C-LAWN/LANDSCAPES
1.739	91	Weighted CN Method Employed



POST125

Hydrograph Discharge Table

SA A(TO SWQB #1)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.27	0.714	11.87	2.338	12.47	4.203	13.07	0.947		
11.28	0.725	11.88	2.471	12.48	3.945	13.08	0.931		
11.30	0.737	11.90	2.608	12.50	3.697	13.10	0.916		
11.32	0.750	11.92	2.751	12.52	3.462	13.12	0.902		
11.33	0.762	11.93	2.907	12.53	3.247	13.13	0.887		
11.35	0.776	11.95	3.079	12.55	3.053	13.15	0.874		
11.37	0.789	11.97	3.275	12.57	2.877	13.17	0.860		
11.38	0.803	11.98	3.499	12.58	2.716	13.18	0.848		
11.40	0.818	12.00	3.757	12.60	2.567	13.20	0.836		
11.42	0.832	12.02	4.049	12.62	2.429	13.22	0.825		
11.43	0.847	12.03	4.365	12.63	2.297	13.23	0.815		
11.45	0.862	12.05	4.699	12.65	2.172	13.25	0.805		
11.47	0.878	12.07	5.043	12.67	2.053	13.27	0.796		
11.48	0.893	12.08	5.391	12.68	1.942	13.28	0.788		
11.50	0.909	12.10	5.733	12.70	1.839	13.30	0.780		
11.52	0.925	12.12	6.061	12.72	1.745	13.32	0.772		
11.53	0.942	12.13	6.364	12.73	1.658	13.33	0.765		
11.55	0.960	12.15	6.632	12.75	1.579	13.35	0.759		
11.57	0.981	12.17	6.852	12.77	1.507	13.37	0.753		
11.58	1.005	12.18	7.014	12.78	1.442	13.38	0.747		
11.60	1.033	12.20	7.107	12.80	1.384	13.40	0.742		
11.62	1.065	12.22	7.130	12.82	1.331	13.42	0.737		
11.63	1.102	12.23	7.093	12.83	1.283	13.43	0.732		
11.65	1.145	12.25	7.005	12.85	1.241	13.45	0.727		
11.67	1.194	12.27	6.878	12.87	1.203	13.47	0.722		
11.68	1.251	12.28	6.721	12.88	1.169	13.48	0.718		
11.70	1.315	12.30	6.545	12.90	1.139	13.50	0.714		
11.72	1.387	12.32	6.356	12.92	1.112	13.52	0.710		
11.73	1.467	12.33	6.153	12.93	1.088	...end	...end		
11.75	1.554	12.35	5.939	12.95	1.066				
11.77	1.648	12.37	5.715	12.97	1.046				
11.78	1.749	12.38	5.480	12.98	1.028				
11.80	1.855	12.40	5.237	13.00	1.011				
11.82	1.968	12.42	4.985	13.02	0.995				
11.83	2.086	12.43	4.727	13.03	0.979				
11.85	2.210	12.45	4.465	13.05	0.963				

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

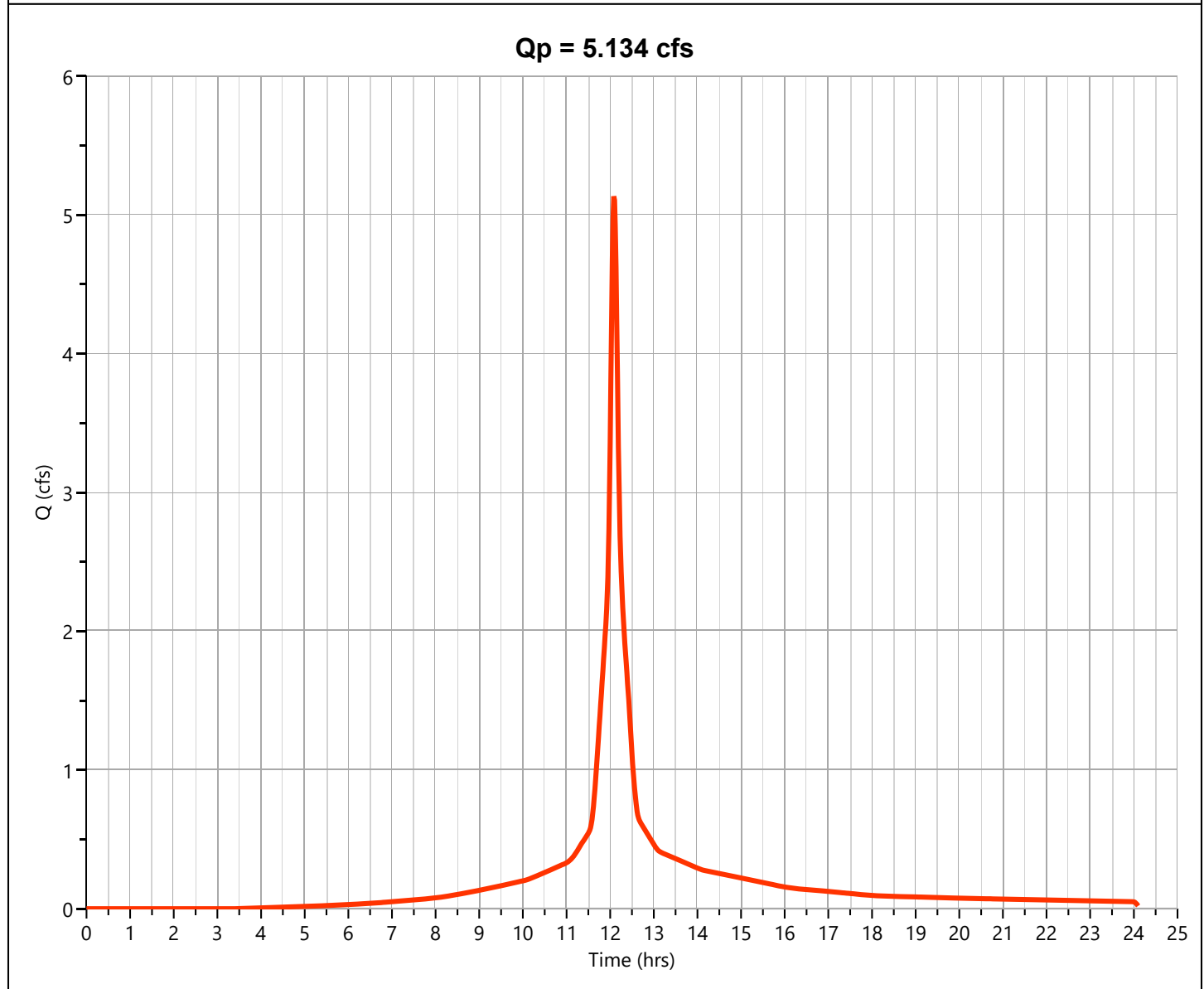
Post SA-A (TO SWQB #2)

Hyd. No. 2

Hydrograph Type	= NRCS Runoff	Peak Flow	= 5.134 cfs
Storm Frequency	= 25-yr	Time to Peak	= 12.08 hrs
Time Interval	= 1 min	Runoff Volume	= 17,386 cuft
Drainage Area	= 0.956 ac	Curve Number	= 90*
Tc Method	= User	Time of Conc. (Tc)	= 7.6 min
Total Rainfall	= 6.30 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.649	98	C-PAVED
0.307	74	C-LAWN/LANDSCAPED
0.956	90	Weighted CN Method Employed



POST127

Hydrograph Discharge Table

SA-A (TO SWQB #2)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.45	0.519	12.05	4.682	12.65	0.654				
11.47	0.527	12.07	4.987	12.67	0.639				
11.48	0.535	12.08	5.134	12.68	0.627				
11.50	0.544	12.10	5.105	12.70	0.618				
11.52	0.553	12.12	4.921	12.72	0.610				
11.53	0.566	12.13	4.620	12.73	0.601				
11.55	0.583	12.15	4.245	12.75	0.592				
11.57	0.608	12.17	3.840	12.77	0.584				
11.58	0.642	12.18	3.451	12.78	0.575				
11.60	0.686	12.20	3.107	12.80	0.567				
11.62	0.738	12.22	2.822	12.82	0.558				
11.63	0.797	12.23	2.600	12.83	0.549				
11.65	0.862	12.25	2.428	12.85	0.541				
11.67	0.932	12.27	2.297	12.87	0.532				
11.68	1.006	12.28	2.193	12.88	0.523				
11.70	1.082	12.30	2.107	12.90	0.515				
11.72	1.159	12.32	2.027	12.92	0.506				
11.73	1.237	12.33	1.946	...end	...end				
11.75	1.315	12.35	1.865						
11.77	1.394	12.37	1.784						
11.78	1.474	12.38	1.702						
11.80	1.553	12.40	1.621						
11.82	1.634	12.42	1.539						
11.83	1.715	12.43	1.457						
11.85	1.797	12.45	1.375						
11.87	1.879	12.47	1.293						
11.88	1.961	12.48	1.211						
11.90	2.045	12.50	1.128						
11.92	2.138	12.52	1.047						
11.93	2.258	12.53	0.969						
11.95	2.424	12.55	0.896						
11.97	2.653	12.57	0.832						
11.98	2.965	12.58	0.778						
12.00	3.363	12.60	0.734						
12.02	3.817	12.62	0.700						
12.03	4.274	12.63	0.674						

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

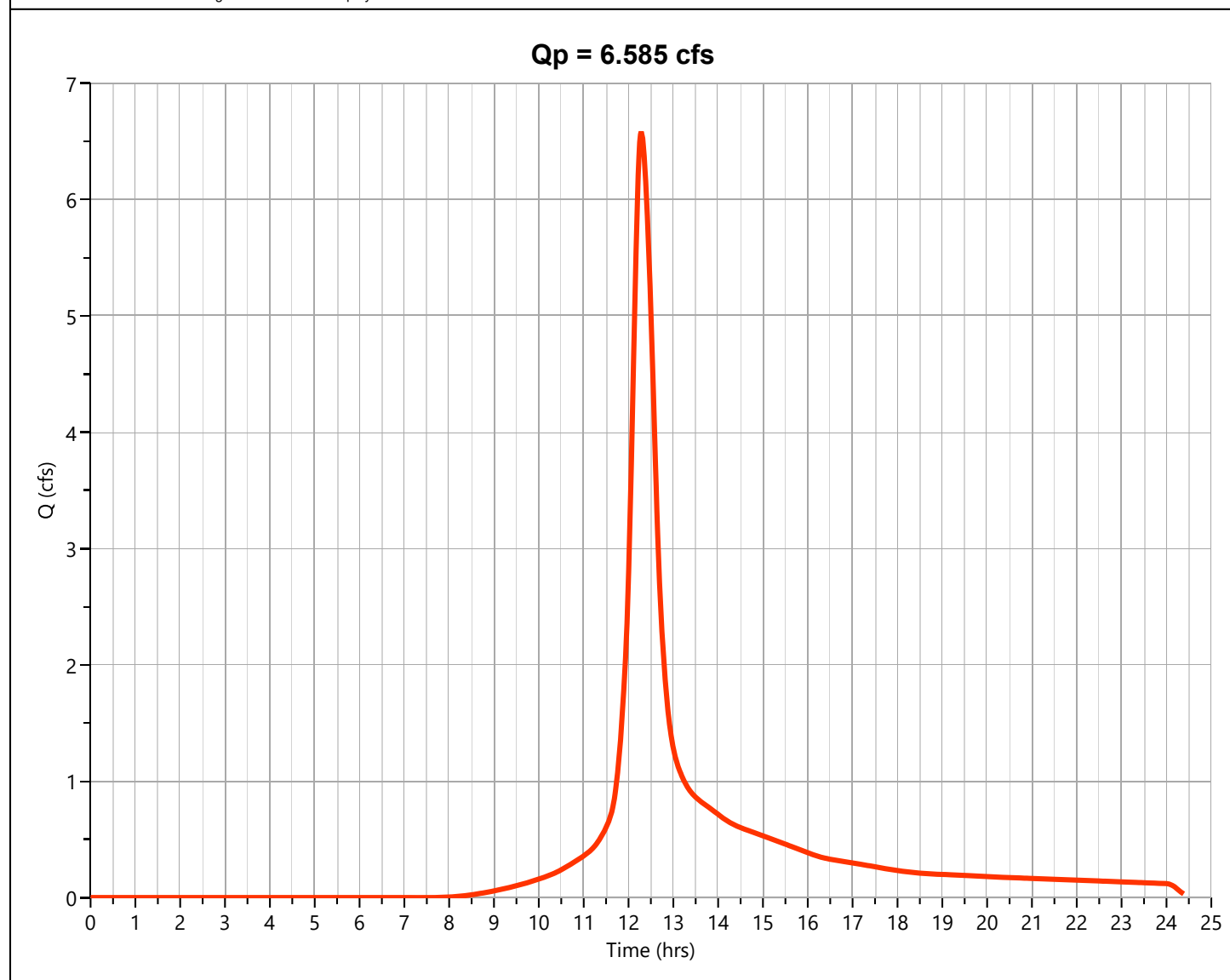
Post SA- (BYPASS)

Hyd. No. 3

Hydrograph Type	= NRCS Runoff	Peak Flow	= 6.585 cfs
Storm Frequency	= 25-yr	Time to Peak	= 12.28 hrs
Time Interval	= 1 min	Runoff Volume	= 31,789 cuft
Drainage Area	= 2.466 ac	Curve Number	= 75.12*
Tc Method	= User	Time of Conc. (Tc)	= 24.7 min
Total Rainfall	= 6.30 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.118	74	C-GRASS
1.128	70	C-WOODED
0.858	77	D-WOODED
0.362	87	C-RAILROAD ROW
2.466	75	Weighted CN Method Employed



POST129

Hydrograph Discharge Table

SA- (BYPASS)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.57	0.663	12.17	5.520	12.77	2.157	13.37	0.919	13.97	0.724
11.58	0.681	12.18	5.777	12.78	2.059	13.38	0.910	13.98	0.720
11.60	0.701	12.20	6.012	12.80	1.967	13.40	0.902	14.00	0.715
11.62	0.724	12.22	6.214	12.82	1.882	13.42	0.894	14.02	0.710
11.63	0.750	12.23	6.378	12.83	1.803	13.43	0.887	14.03	0.705
11.65	0.779	12.25	6.494	12.85	1.729	13.45	0.880	14.05	0.700
11.67	0.812	12.27	6.561	12.87	1.661	13.47	0.873	14.07	0.695
11.68	0.848	12.28	6.585	12.88	1.599	13.48	0.867	14.08	0.691
11.70	0.889	12.30	6.572	12.90	1.541	13.50	0.861	14.10	0.686
11.72	0.935	12.32	6.527	12.92	1.488	13.52	0.855	14.12	0.681
11.73	0.986	12.33	6.458	12.93	1.440	13.53	0.850	14.13	0.677
11.75	1.042	12.35	6.372	12.95	1.395	13.55	0.844	14.15	0.672
11.77	1.105	12.37	6.272	12.97	1.355	13.57	0.839	14.17	0.668
11.78	1.173	12.38	6.159	12.98	1.318	13.58	0.834	14.18	0.663
11.80	1.248	12.40	6.033	13.00	1.284	13.60	0.829	14.20	0.659
11.82	1.328	12.42	5.894	13.02	1.253	13.62	0.824	14.22	0.655
11.83	1.414	12.43	5.744	13.03	1.225	13.63	0.820	...end	...end
11.85	1.506	12.45	5.583	13.05	1.199	13.65	0.815		
11.87	1.603	12.47	5.411	13.07	1.176	13.67	0.810		
11.88	1.706	12.48	5.229	13.08	1.154	13.68	0.806		
11.90	1.815	12.50	5.037	13.10	1.135	13.70	0.801		
11.92	1.931	12.52	4.837	13.12	1.116	13.72	0.796		
11.93	2.057	12.53	4.630	13.13	1.099	13.73	0.791		
11.95	2.198	12.55	4.416	13.15	1.082	13.75	0.787		
11.97	2.358	12.57	4.198	13.17	1.066	13.77	0.782		
11.98	2.539	12.58	3.976	13.18	1.051	13.78	0.777		
12.00	2.747	12.60	3.756	13.20	1.036	13.80	0.772		
12.02	2.982	12.62	3.539	13.22	1.021	13.82	0.768		
12.03	3.238	12.63	3.330	13.23	1.007	13.83	0.763		
12.05	3.512	12.65	3.133	13.25	0.994	13.85	0.758		
12.07	3.797	12.67	2.951	13.27	0.981	13.87	0.753		
12.08	4.089	12.68	2.786	13.28	0.970	13.88	0.748		
12.10	4.383	12.70	2.636	13.30	0.958	13.90	0.744		
12.12	4.674	12.72	2.500	13.32	0.948	13.92	0.739		
12.13	4.963	12.73	2.376	13.33	0.937	13.93	0.734		
12.15	5.246	12.75	2.262	13.35	0.928	13.95	0.729		

Hydrograph Report

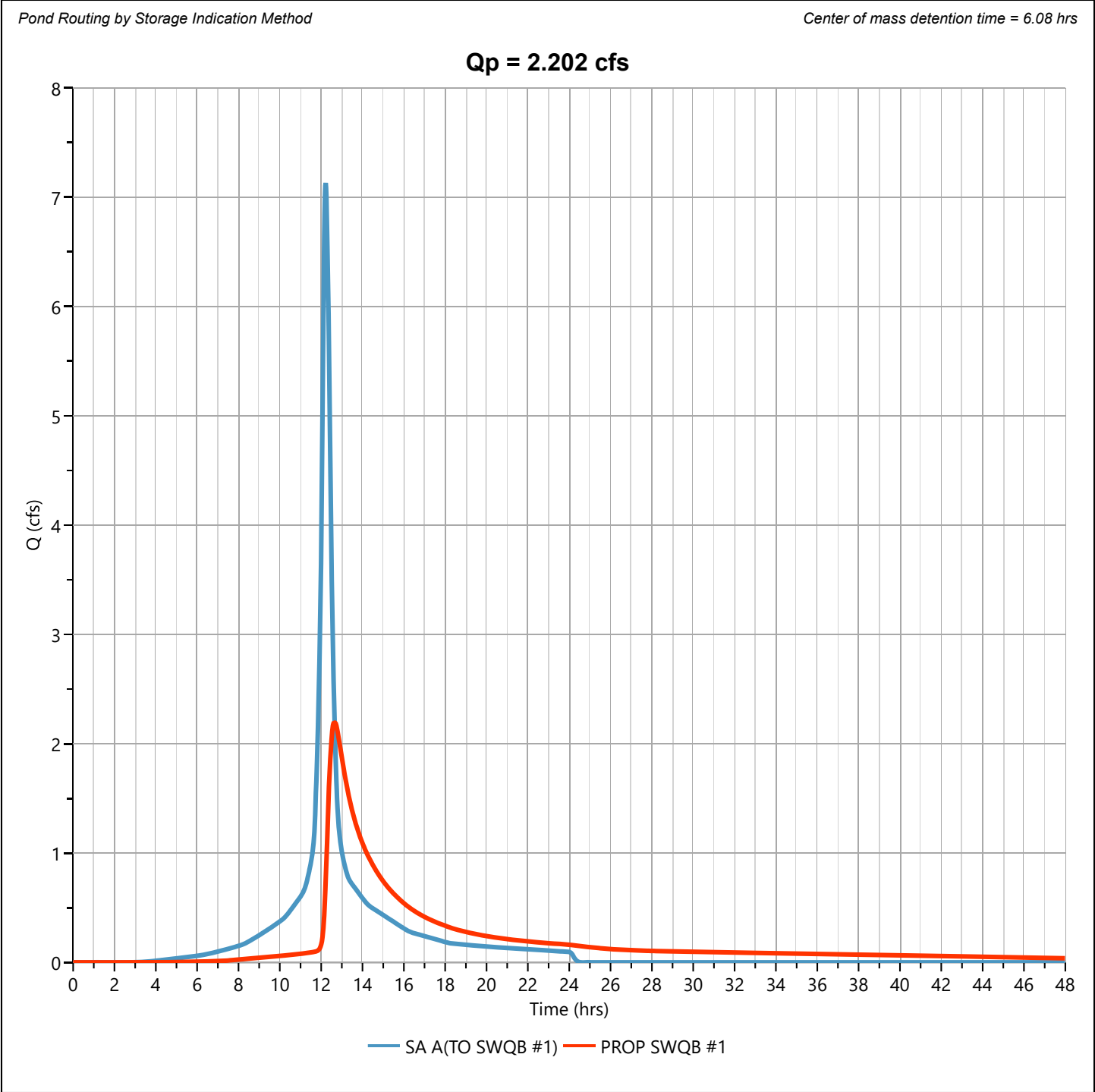
Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield
File: 3566-POST.hys
03-13-2025

PROP SWQB #1

Hyd. No. 4

Hydrograph Type	= Pond Route	Peak Flow	= 2.202 cfs
Storm Frequency	= 25-yr	Time to Peak	= 12.65 hrs
Time Interval	= 1 min	Hydrograph Volume	= 31,866 cuft
Inflow Hydrograph	= 1 - SA A(TO SWQB #1)	Max. Elevation	= 83.56 ft
Pond Name	= PROP SWQB #1	Max. Storage	= 16,965 cuft



Hydrograph Discharge Table

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
12.07	0.235	12.67	2.200	13.27	1.586	13.87	1.156	14.47	0.901
12.08	0.265	12.68	2.195	13.28	1.571	13.88	1.147	14.48	0.895
12.10	0.299	12.70	2.187	13.30	1.555	13.90	1.139	14.50	0.890
12.12	0.340	12.72	2.178	13.32	1.539	13.92	1.131	14.52	0.884
12.13	0.388	12.73	2.166	13.33	1.524	13.93	1.122	14.53	0.879
12.15	0.445	12.75	2.153	13.35	1.508	13.95	1.114	14.55	0.873
12.17	0.507	12.77	2.138	13.37	1.493	13.97	1.106	14.57	0.868
12.18	0.581	12.78	2.121	13.38	1.478	13.98	1.098	14.58	0.863
12.20	0.660	12.80	2.104	13.40	1.464	14.00	1.090	14.60	0.857
12.22	0.750	12.82	2.086	13.42	1.449	14.02	1.081	14.62	0.852
12.23	0.839	12.83	2.066	13.43	1.436	14.03	1.074	14.63	0.847
12.25	0.925	12.85	2.047	13.45	1.424	14.05	1.066	14.65	0.842
12.27	1.010	12.87	2.026	13.47	1.411	14.07	1.058	14.67	0.837
12.28	1.102	12.88	2.007	13.48	1.399	14.08	1.050	14.68	0.832
12.30	1.190	12.90	1.988	13.50	1.386	14.10	1.042	14.70	0.827
12.32	1.282	12.92	1.968	13.52	1.374	14.12	1.035	14.72	0.822
12.33	1.371	12.93	1.949	13.53	1.362	14.13	1.027	14.73	0.817
12.35	1.455	12.95	1.930	13.55	1.351	14.15	1.020	14.75	0.812
12.37	1.543	12.97	1.910	13.57	1.339	14.17	1.012	14.77	0.807
12.38	1.624	12.98	1.891	13.58	1.327	14.18	1.005	14.78	0.802
12.40	1.699	13.00	1.871	13.60	1.316	14.20	0.997	14.80	0.797
12.42	1.773	13.02	1.852	13.62	1.305	14.22	0.991	14.82	0.792
12.43	1.842	13.03	1.833	13.63	1.293	14.23	0.985	14.83	0.788
12.45	1.903	13.05	1.813	13.65	1.282	14.25	0.978	14.85	0.783
12.47	1.958	13.07	1.794	13.67	1.271	14.27	0.972	14.87	0.778
12.48	2.005	13.08	1.775	13.68	1.261	14.28	0.966	14.88	0.774
12.50	2.048	13.10	1.756	13.70	1.250	14.30	0.960	14.90	0.769
12.52	2.086	13.12	1.737	13.72	1.239	14.32	0.954	14.92	0.765
12.53	2.117	13.13	1.718	13.73	1.229	14.33	0.947	14.93	0.760
12.55	2.143	13.15	1.702	13.75	1.219	14.35	0.941	14.95	0.756
12.57	2.163	13.17	1.685	13.77	1.209	14.37	0.936	14.97	0.751
12.58	2.178	13.18	1.668	13.78	1.200	14.38	0.930	14.98	0.747
12.60	2.190	13.20	1.652	13.80	1.191	14.40	0.924	15.00	0.742
12.62	2.197	13.22	1.635	13.82	1.182	14.42	0.918	15.02	0.738
12.63	2.201	13.23	1.619	13.83	1.173	14.43	0.912	15.03	0.734
12.65	2.202	13.25	1.603	13.85	1.164	14.45	0.906	15.05	0.729

Printed values > 10% of Qpeak. nth-point print interval = 1

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
15.07	0.725	15.67	0.598	16.27	0.501	16.87	0.429	17.47	0.375
15.08	0.721	15.68	0.595	16.28	0.499	16.88	0.427	17.48	0.373
15.10	0.717	15.70	0.592	16.30	0.497	16.90	0.425	17.50	0.372
15.12	0.713	15.72	0.589	16.32	0.494	16.92	0.423	17.52	0.371
15.13	0.708	15.73	0.586	16.33	0.492	16.93	0.422	17.53	0.370
15.15	0.704	15.75	0.583	16.35	0.490	16.95	0.420	17.55	0.368
15.17	0.700	15.77	0.581	16.37	0.488	16.97	0.418	17.57	0.367
15.18	0.696	15.78	0.578	16.38	0.486	16.98	0.416	17.58	0.366
15.20	0.692	15.80	0.575	16.40	0.484	17.00	0.415	17.60	0.364
15.22	0.688	15.82	0.572	16.42	0.482	17.02	0.413	17.62	0.363
15.23	0.684	15.83	0.569	16.43	0.479	17.03	0.411	17.63	0.362
15.25	0.680	15.85	0.566	16.45	0.477	17.05	0.409	17.65	0.361
15.27	0.676	15.87	0.563	16.47	0.475	17.07	0.408	17.67	0.359
15.28	0.672	15.88	0.560	16.48	0.473	17.08	0.406	17.68	0.358
15.30	0.669	15.90	0.558	16.50	0.471	17.10	0.404	17.70	0.357
15.32	0.665	15.92	0.555	16.52	0.469	17.12	0.403	17.72	0.356
15.33	0.661	15.93	0.552	16.53	0.467	17.13	0.401	17.73	0.354
15.35	0.657	15.95	0.549	16.55	0.465	17.15	0.400	17.75	0.353
15.37	0.653	15.97	0.546	16.57	0.463	17.17	0.399	17.77	0.352
15.38	0.650	15.98	0.544	16.58	0.461	17.18	0.397	17.78	0.351
15.40	0.647	16.00	0.541	16.60	0.459	17.20	0.396	17.80	0.349
15.42	0.644	16.02	0.538	16.62	0.457	17.22	0.395	17.82	0.348
15.43	0.641	16.03	0.535	16.63	0.455	17.23	0.393	17.83	0.347
15.45	0.638	16.05	0.533	16.65	0.453	17.25	0.392	17.85	0.346
15.47	0.634	16.07	0.530	16.67	0.451	17.27	0.391	17.87	0.344
15.48	0.631	16.08	0.527	16.68	0.449	17.28	0.389	17.88	0.343
15.50	0.628	16.10	0.524	16.70	0.447	17.30	0.388	17.90	0.342
15.52	0.625	16.12	0.522	16.72	0.446	17.32	0.387	17.92	0.341
15.53	0.622	16.13	0.519	16.73	0.444	17.33	0.385	17.93	0.339
15.55	0.619	16.15	0.516	16.75	0.442	17.35	0.384	17.95	0.338
15.57	0.616	16.17	0.514	16.77	0.440	17.37	0.383	17.97	0.337
15.58	0.613	16.18	0.512	16.78	0.438	17.38	0.381	17.98	0.336
15.60	0.610	16.20	0.510	16.80	0.436	17.40	0.380	18.00	0.335
15.62	0.607	16.22	0.507	16.82	0.434	17.42	0.379	18.02	0.333
15.63	0.604	16.23	0.505	16.83	0.432	17.43	0.377	18.03	0.332
15.65	0.601	16.25	0.503	16.85	0.431	17.45	0.376	18.05	0.331

Printed values > 10% of Qpeak. nth-point print interval = 1

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
18.07	0.330	18.67	0.294	19.27	0.267	19.87	0.243	20.47	0.226
18.08	0.329	18.68	0.293	19.28	0.266	19.88	0.242	20.48	0.226
18.10	0.327	18.70	0.292	19.30	0.265	19.90	0.242	20.50	0.225
18.12	0.326	18.72	0.292	19.32	0.265	19.92	0.241	20.52	0.225
18.13	0.325	18.73	0.291	19.33	0.264	19.93	0.241	20.53	0.224
18.15	0.324	18.75	0.290	19.35	0.263	19.95	0.240	20.55	0.224
18.17	0.323	18.77	0.289	19.37	0.263	19.97	0.239	20.57	0.223
18.18	0.321	18.78	0.288	19.38	0.262	19.98	0.239	20.58	0.223
18.20	0.320	18.80	0.288	19.40	0.261	20.00	0.238	20.60	0.223
18.22	0.319	18.82	0.287	19.42	0.260	20.02	0.238	20.62	0.222
18.23	0.318	18.83	0.286	19.43	0.260	20.03	0.237	20.63	0.222
18.25	0.317	18.85	0.285	19.45	0.259	20.05	0.237	20.65	0.221
18.27	0.316	18.87	0.285	19.47	0.258	20.07	0.237	20.67	0.221
18.28	0.315	18.88	0.284	19.48	0.258	20.08	0.236	20.68	0.221
18.30	0.313	18.90	0.283	19.50	0.257	20.10	0.236	20.70	0.220
18.32	0.312	18.92	0.282	19.52	0.256	20.12	0.235	...end	...end
18.33	0.311	18.93	0.281	19.53	0.256	20.13	0.235		
18.35	0.310	18.95	0.281	19.55	0.255	20.15	0.234		
18.37	0.309	18.97	0.280	19.57	0.254	20.17	0.234		
18.38	0.309	18.98	0.279	19.58	0.254	20.18	0.233		
18.40	0.308	19.00	0.278	19.60	0.253	20.20	0.233		
18.42	0.307	19.02	0.278	19.62	0.252	20.22	0.233		
18.43	0.306	19.03	0.277	19.63	0.252	20.23	0.232		
18.45	0.305	19.05	0.276	19.65	0.251	20.25	0.232		
18.47	0.304	19.07	0.275	19.67	0.251	20.27	0.231		
18.48	0.303	19.08	0.275	19.68	0.250	20.28	0.231		
18.50	0.302	19.10	0.274	19.70	0.249	20.30	0.230		
18.52	0.302	19.12	0.273	19.72	0.249	20.32	0.230		
18.53	0.301	19.13	0.272	19.73	0.248	20.33	0.229		
18.55	0.300	19.15	0.272	19.75	0.247	20.35	0.229		
18.57	0.299	19.17	0.271	19.77	0.247	20.37	0.229		
18.58	0.298	19.18	0.270	19.78	0.246	20.38	0.228		
18.60	0.297	19.20	0.270	19.80	0.245	20.40	0.228		
18.62	0.297	19.22	0.269	19.82	0.245	20.42	0.227		
18.63	0.296	19.23	0.268	19.83	0.244	20.43	0.227		
18.65	0.295	19.25	0.267	19.85	0.244	20.45	0.226		

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

PROP SWQB #2

Hyd. No. 5

Hydrograph Type = Pond Route

Peak Flow = 4.410 cfs

Storm Frequency = 25-yr

Time to Peak = 12.15 hrs

Time Interval = 1 min

Hydrograph Volume = 17,380 cuft

Inflow Hydrograph = 2 - SA-A (TO SWQB #2)

Max. Elevation = 83.14 ft

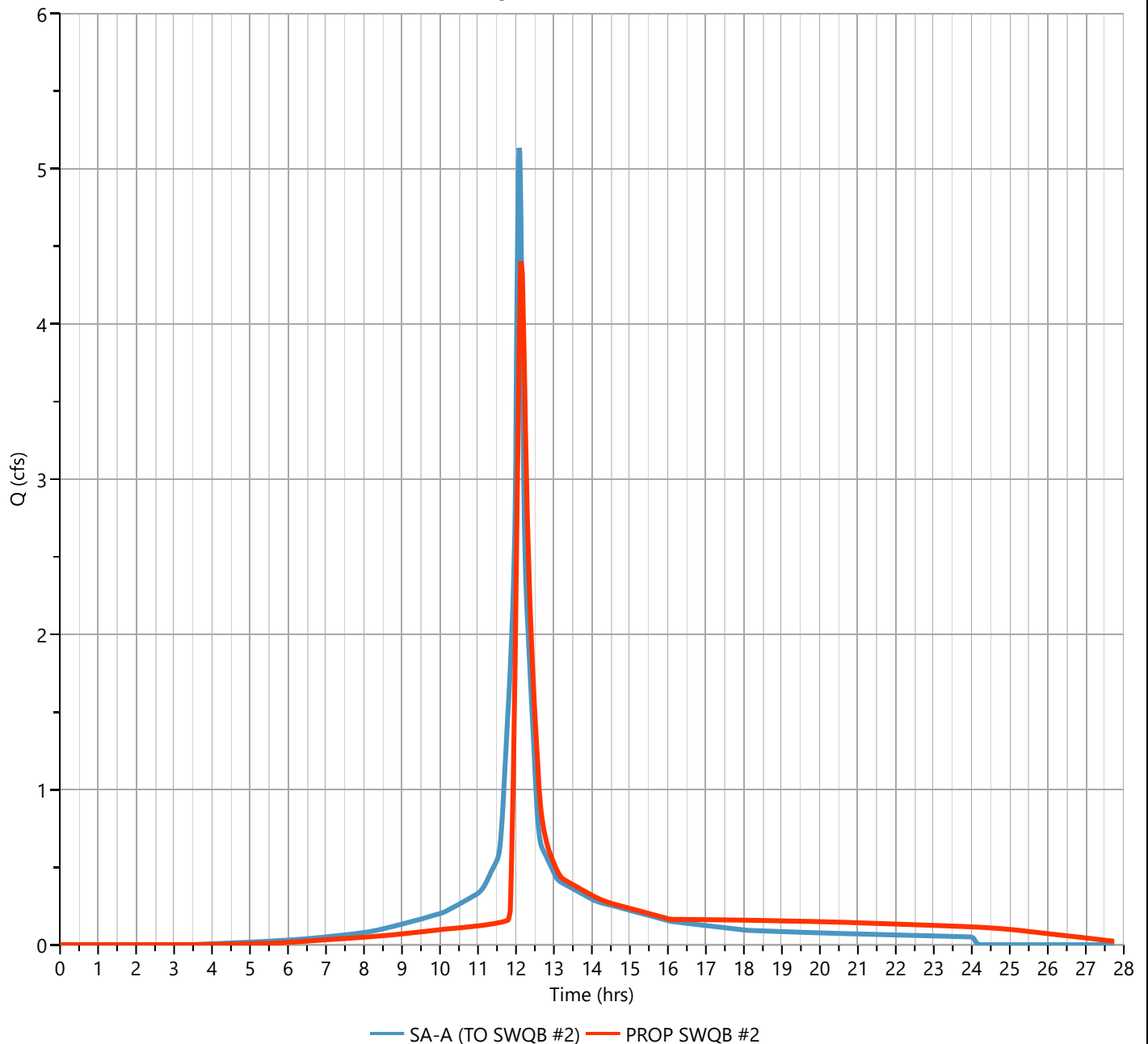
Pond Name = PRO SWQB #2

Max. Storage = 4,096 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 1.88 hrs

Qp = 4.410 cfs



Hydrograph Discharge Table

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.88	0.519	12.48	1.563	13.08	0.478				
11.90	0.737	12.50	1.485	13.10	0.470				
11.92	0.944	12.52	1.411	13.12	0.462				
11.93	1.178	12.53	1.336	13.13	0.455				
11.95	1.394	12.55	1.261	13.15	0.448				
11.97	1.620	12.57	1.187	13.17	0.442				
11.98	1.878	12.58	1.116	13.18	0.437				
12.00	2.156	12.60	1.049	...end	...end				
12.02	2.491	12.62	0.987						
12.03	2.867	12.63	0.931						
12.05	3.229	12.65	0.887						
12.07	3.549	12.67	0.851						
12.08	3.850	12.68	0.819						
12.10	4.110	12.70	0.790						
12.12	4.304	12.72	0.764						
12.13	4.404	12.73	0.741						
12.15	4.410	12.75	0.720						
12.17	4.331	12.77	0.700						
12.18	4.184	12.78	0.683						
12.20	3.991	12.80	0.666						
12.22	3.787	12.82	0.651						
12.23	3.572	12.83	0.637						
12.25	3.361	12.85	0.623						
12.27	3.162	12.87	0.610						
12.28	2.954	12.88	0.598						
12.30	2.759	12.90	0.587						
12.32	2.592	12.92	0.575						
12.33	2.445	12.93	0.565						
12.35	2.315	12.95	0.554						
12.37	2.203	12.97	0.544						
12.38	2.103	12.98	0.534						
12.40	2.008	13.00	0.524						
12.42	1.915	13.02	0.514						
12.43	1.825	13.03	0.505						
12.45	1.736	13.05	0.496						
12.47	1.649	13.07	0.487						

Hydrograph Report

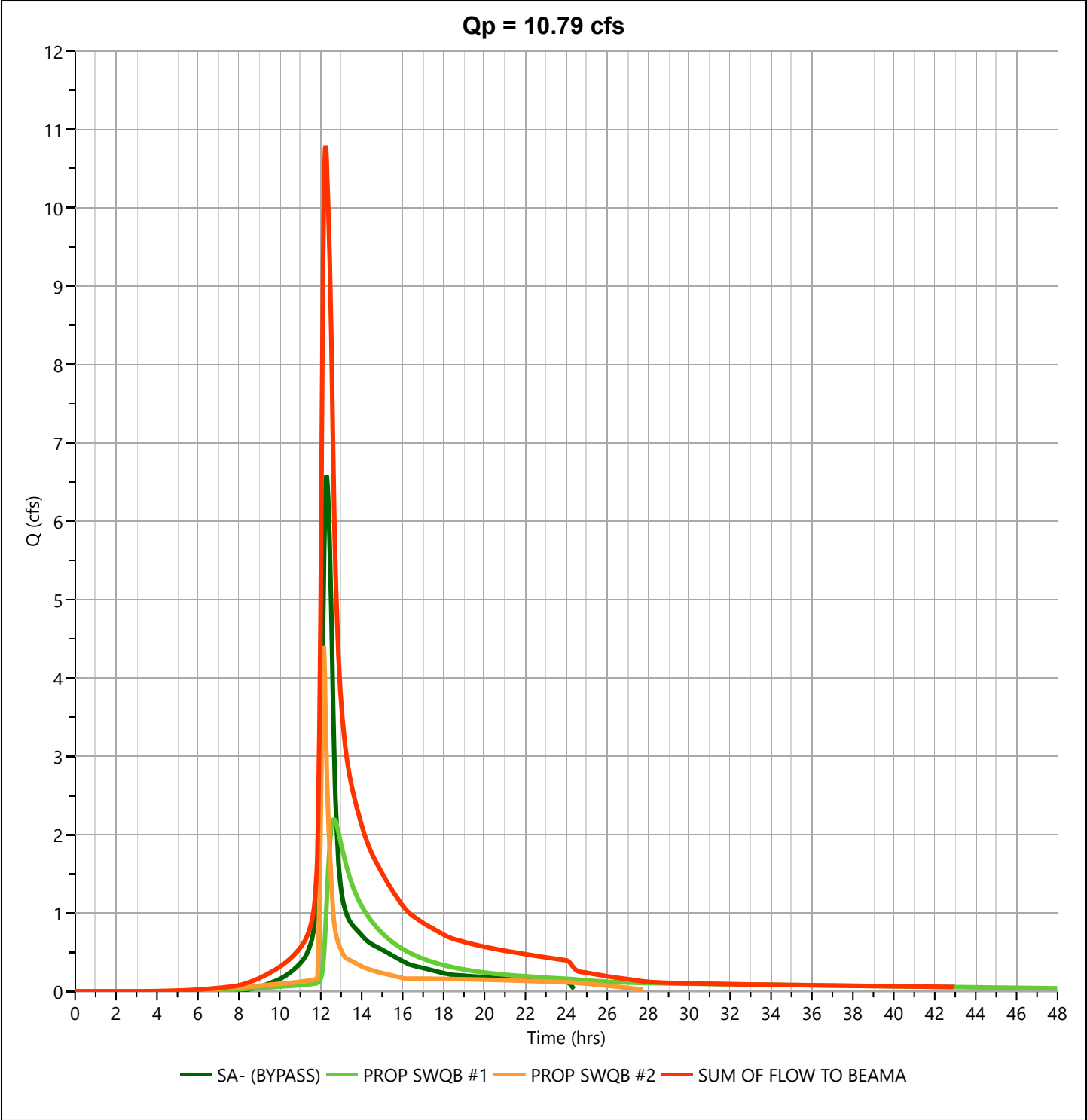
Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield
File: 3566-POST.hys
03-13-2025

Post SUM OF FLOW TO BEAMA

Hyd. No. 6

Hydrograph Type	= Junction	Peak Flow	= 10.79 cfs
Storm Frequency	= 25-yr	Time to Peak	= 12.23 hrs
Time Interval	= 1 min	Hydrograph Volume	= 81,035 cuft
Inflow Hydrographs	= 3	Total Contrib. Area	= 2.466 ac



Hydrograph Discharge Table

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.68	1.094	12.28	10.64	12.88	4.204	13.48	2.655	14.08	2.048
11.70	1.137	12.30	10.52	12.90	4.115	13.50	2.634	14.10	2.034
11.72	1.184	12.32	10.40	12.92	4.032	13.52	2.614	14.12	2.019
11.73	1.237	12.33	10.27	12.93	3.953	13.53	2.594	14.13	2.005
11.75	1.296	12.35	10.14	12.95	3.879	13.55	2.575	14.15	1.991
11.77	1.361	12.37	10.02	12.97	3.809	13.57	2.556	14.17	1.977
11.78	1.432	12.38	9.886	12.98	3.742	13.58	2.537	14.18	1.963
11.80	1.509	12.40	9.739	13.00	3.679	13.60	2.518	14.20	1.950
11.82	1.592	12.42	9.582	13.02	3.620	13.62	2.500	14.22	1.938
11.83	1.682	12.43	9.411	13.03	3.563	13.63	2.482	14.23	1.926
11.85	1.826	12.45	9.222	13.05	3.509	13.65	2.464	14.25	1.914
11.87	2.062	12.47	9.017	13.07	3.457	13.67	2.446	14.27	1.902
11.88	2.339	12.48	8.797	13.08	3.408	13.68	2.428	14.28	1.891
11.90	2.670	12.50	8.570	13.10	3.361	13.70	2.410	14.30	1.879
11.92	2.997	12.52	8.334	13.12	3.316	13.72	2.393	14.32	1.868
11.93	3.363	12.53	8.083	13.13	3.272	13.73	2.375	14.33	1.858
11.95	3.727	12.55	7.820	13.15	3.232	13.75	2.358	14.35	1.847
11.97	4.119	12.57	7.547	13.17	3.193	13.77	2.341	14.37	1.836
11.98	4.568	12.58	7.270	13.18	3.155	13.78	2.325	14.38	1.826
12.00	5.066	12.60	6.994	13.20	3.119	13.80	2.309	14.40	1.816
12.02	5.648	12.62	6.723	13.22	3.083	13.82	2.293	14.42	1.806
12.03	6.297	12.63	6.463	13.23	3.051	13.83	2.277	14.43	1.796
12.05	6.952	12.65	6.222	13.25	3.019	13.85	2.262	14.45	1.786
12.07	7.581	12.67	6.002	13.27	2.988	13.87	2.246	14.47	1.777
12.08	8.204	12.68	5.800	13.28	2.957	13.88	2.230	14.48	1.767
12.10	8.792	12.70	5.614	13.30	2.928	13.90	2.215	14.50	1.758
12.12	9.319	12.72	5.442	13.32	2.899	13.92	2.199	14.52	1.749
12.13	9.755	12.73	5.283	13.33	2.871	13.93	2.184	14.53	1.740
12.15	10.10	12.75	5.135	13.35	2.844	13.95	2.169	14.55	1.731
12.17	10.36	12.77	4.995	13.37	2.817	13.97	2.153	14.57	1.722
12.18	10.54	12.78	4.863	13.38	2.791	13.98	2.138	14.58	1.713
12.20	10.66	12.80	4.737	13.40	2.766	14.00	2.123	14.60	1.704
12.22	10.75	12.82	4.618	13.42	2.742	14.02	2.108	14.62	1.695
12.23	10.79	12.83	4.506	13.43	2.719	14.03	2.093	14.63	1.686
12.25	10.78	12.85	4.399	13.45	2.697	14.05	2.078	14.65	1.678
12.27	10.73	12.87	4.298	13.47	2.676	14.07	2.063	14.67	1.669

Hydrograph Discharge Table, cont'd

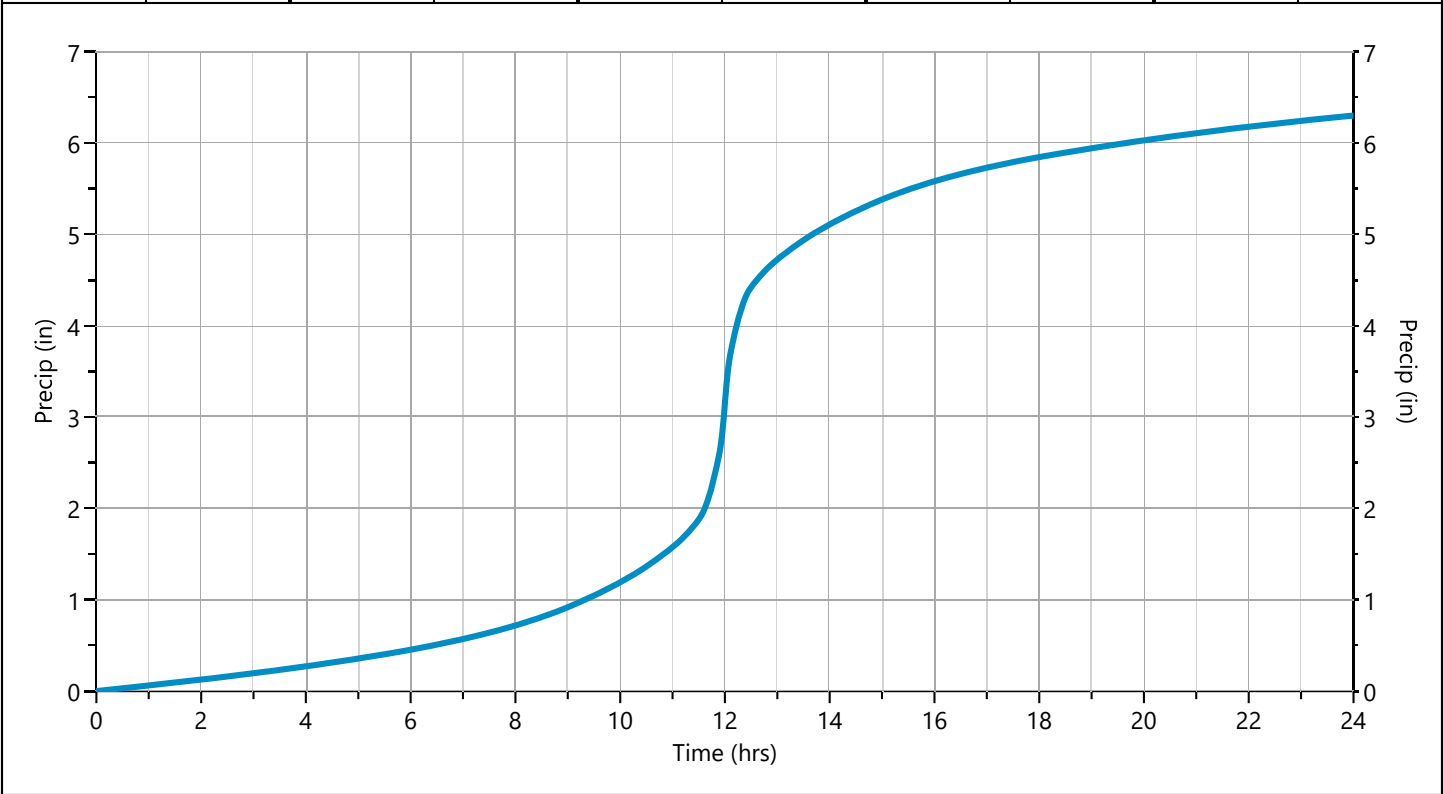
SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
14.68	1.661	15.28	1.377	15.88	1.139				
14.70	1.652	15.30	1.370	15.90	1.132				
14.72	1.644	15.32	1.362	15.92	1.126				
14.73	1.635	15.33	1.355	15.93	1.119				
14.75	1.627	15.35	1.348	15.95	1.113				
14.77	1.619	15.37	1.341	15.97	1.107				
14.78	1.610	15.38	1.334	15.98	1.100				
14.80	1.602	15.40	1.327	16.00	1.094				
14.82	1.594	15.42	1.320	16.02	1.088				
14.83	1.586	15.43	1.314	16.03	1.082				
14.85	1.578	15.45	1.307	16.05	1.075				
14.87	1.569	15.47	1.301	...end	...end				
14.88	1.561	15.48	1.294						
14.90	1.553	15.50	1.287						
14.92	1.545	15.52	1.281						
14.93	1.537	15.53	1.274						
14.95	1.529	15.55	1.268						
14.97	1.522	15.57	1.261						
14.98	1.514	15.58	1.255						
15.00	1.506	15.60	1.248						
15.02	1.498	15.62	1.242						
15.03	1.490	15.63	1.235						
15.05	1.483	15.65	1.229						
15.07	1.475	15.67	1.222						
15.08	1.467	15.68	1.216						
15.10	1.459	15.70	1.209						
15.12	1.452	15.72	1.203						
15.13	1.444	15.73	1.196						
15.15	1.437	15.75	1.190						
15.17	1.429	15.77	1.183						
15.18	1.422	15.78	1.177						
15.20	1.414	15.80	1.170						
15.22	1.407	15.82	1.164						
15.23	1.399	15.83	1.158						
15.25	1.392	15.85	1.151						
15.27	1.384	15.87	1.145						

Storm Distribution: NRCS/SCS - Type III, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	1-yr	2-yr	3-yr	5-yr	10-yr	✓ 25-yr	50-yr	100-yr	
24 hrs	2.55	3.19	0.00	4.24	5.10	6.30	7.17	8.14	

Incremental Rainfall Distribution, 25-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.012414	11.68	0.028665	11.87	0.045605	12.05	0.094657	12.23	0.037905
11.52	0.013229	11.70	0.030205	11.88	0.047145	12.07	0.081742	12.25	0.036365
11.53	0.014805	11.72	0.031745	11.90	0.048685	12.08	0.068827	12.27	0.034825
11.55	0.016345	11.73	0.033285	11.92	0.056093	12.10	0.055912	12.28	0.033285
11.57	0.017885	11.75	0.034825	11.93	0.068828	12.12	0.048870	12.30	0.031745
11.58	0.019425	11.77	0.036365	11.95	0.081743	12.13	0.047145	12.32	0.030205
11.60	0.020965	11.78	0.037905	11.97	0.094658	12.15	0.045605	12.33	0.028665
11.62	0.022505	11.80	0.039445	11.98	0.107573	12.17	0.044065	12.35	0.027125
11.63	0.024045	11.82	0.040985	12.00	0.120488	12.18	0.042525	12.37	0.025585
11.65	0.025585	11.83	0.042525	12.02	0.120199	12.20	0.040985	12.38	0.024045
11.67	0.027125	11.85	0.044065	12.03	0.107572	12.22	0.039445	12.40	0.022505



Hydrograph 50-yr Summary

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

Hydrology Studio v 3.0.0.36

03-13-2025

[illegible]

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

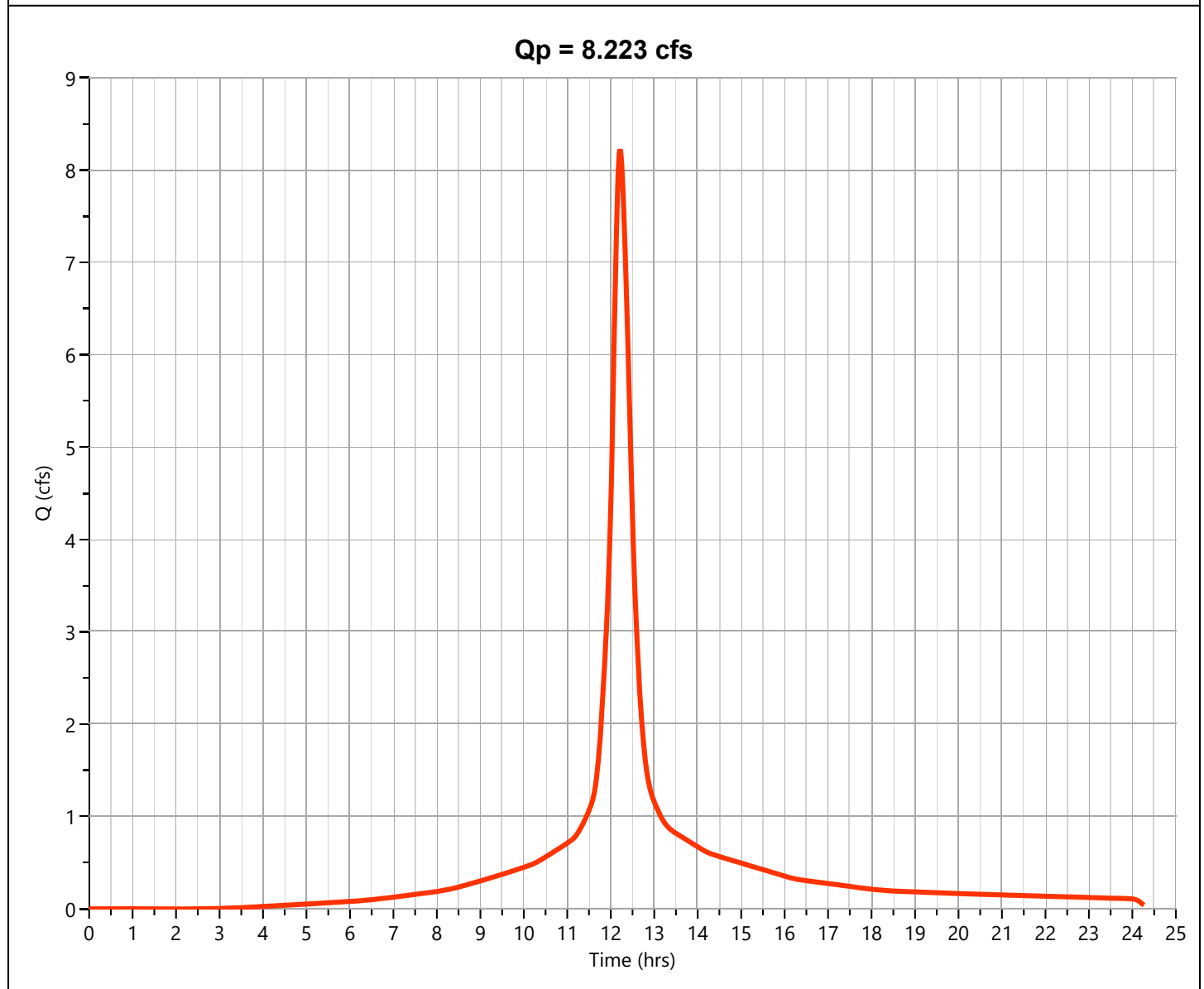
Post SA A(TO SWQB #1)

Hyd. No. 1

Hydrograph Type	= NRCS Runoff	Peak Flow	= 8.223 cfs
Storm Frequency	= 50-yr	Time to Peak	= 12.22 hrs
Time Interval	= 1 min	Runoff Volume	= 38,545 cuft
Drainage Area	= 1.739 ac	Curve Number	= 91*
Tc Method	= User	Time of Conc. (Tc)	= 19.1 min
Total Rainfall	= 7.17 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
1.234	98	C-PAVED/ROOF
0.505	74	C-LAWN/LANDSCAPES
1.739	91	Weighted CN Method Employed



Hydrograph Discharge Table

SA A(TO SWQB #1)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.25	0.827	11.85	2.574	12.45	5.131	13.05	1.103		
11.27	0.840	11.87	2.722	12.47	4.828	13.07	1.085		
11.28	0.853	11.88	2.876	12.48	4.531	13.08	1.067		
11.30	0.867	11.90	3.034	12.50	4.245	13.10	1.050		
11.32	0.881	11.92	3.199	12.52	3.975	13.12	1.033		
11.33	0.896	11.93	3.379	12.53	3.728	13.13	1.017		
11.35	0.911	11.95	3.578	12.55	3.504	13.15	1.001		
11.37	0.927	11.97	3.804	12.57	3.301	13.17	0.986		
11.38	0.943	11.98	4.062	12.58	3.116	13.18	0.972		
11.40	0.960	12.00	4.359	12.60	2.946	13.20	0.958		
11.42	0.977	12.02	4.694	12.62	2.787	13.22	0.945		
11.43	0.994	12.03	5.058	12.63	2.635	13.23	0.934		
11.45	1.012	12.05	5.442	12.65	2.491	13.25	0.923		
11.47	1.029	12.07	5.837	12.67	2.355	13.27	0.912		
11.48	1.047	12.08	6.236	12.68	2.227	13.28	0.902		
11.50	1.065	12.10	6.629	12.70	2.109	13.30	0.893		
11.52	1.084	12.12	7.005	12.72	2.001	13.32	0.885		
11.53	1.103	12.13	7.353	12.73	1.902	13.33	0.877		
11.55	1.125	12.15	7.659	12.75	1.811	13.35	0.869		
11.57	1.149	12.17	7.910	12.77	1.729	13.37	0.862		
11.58	1.177	12.18	8.095	12.78	1.654	13.38	0.856		
11.60	1.210	12.20	8.199	12.80	1.586	13.40	0.850		
11.62	1.247	12.22	8.223	12.82	1.526	13.42	0.844		
11.63	1.290	12.23	8.177	12.83	1.471	13.43	0.838		
11.65	1.340	12.25	8.074	12.85	1.422	13.45	0.833		
11.67	1.397	12.27	7.925	12.87	1.379	13.47	0.827		
11.68	1.462	12.28	7.743	12.88	1.340	13.48	0.822		
11.70	1.537	12.30	7.538	12.90	1.305	13.50	0.818		
11.72	1.620	12.32	7.318	12.92	1.274	...end	...end		
11.73	1.713	12.33	7.083	12.93	1.247				
11.75	1.814	12.35	6.835	12.95	1.222				
11.77	1.923	12.37	6.575	12.97	1.199				
11.78	2.040	12.38	6.303	12.98	1.179				
11.80	2.164	12.40	6.022	13.00	1.159				
11.82	2.294	12.42	5.732	13.02	1.140				
11.83	2.431	12.43	5.434	13.03	1.122				

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

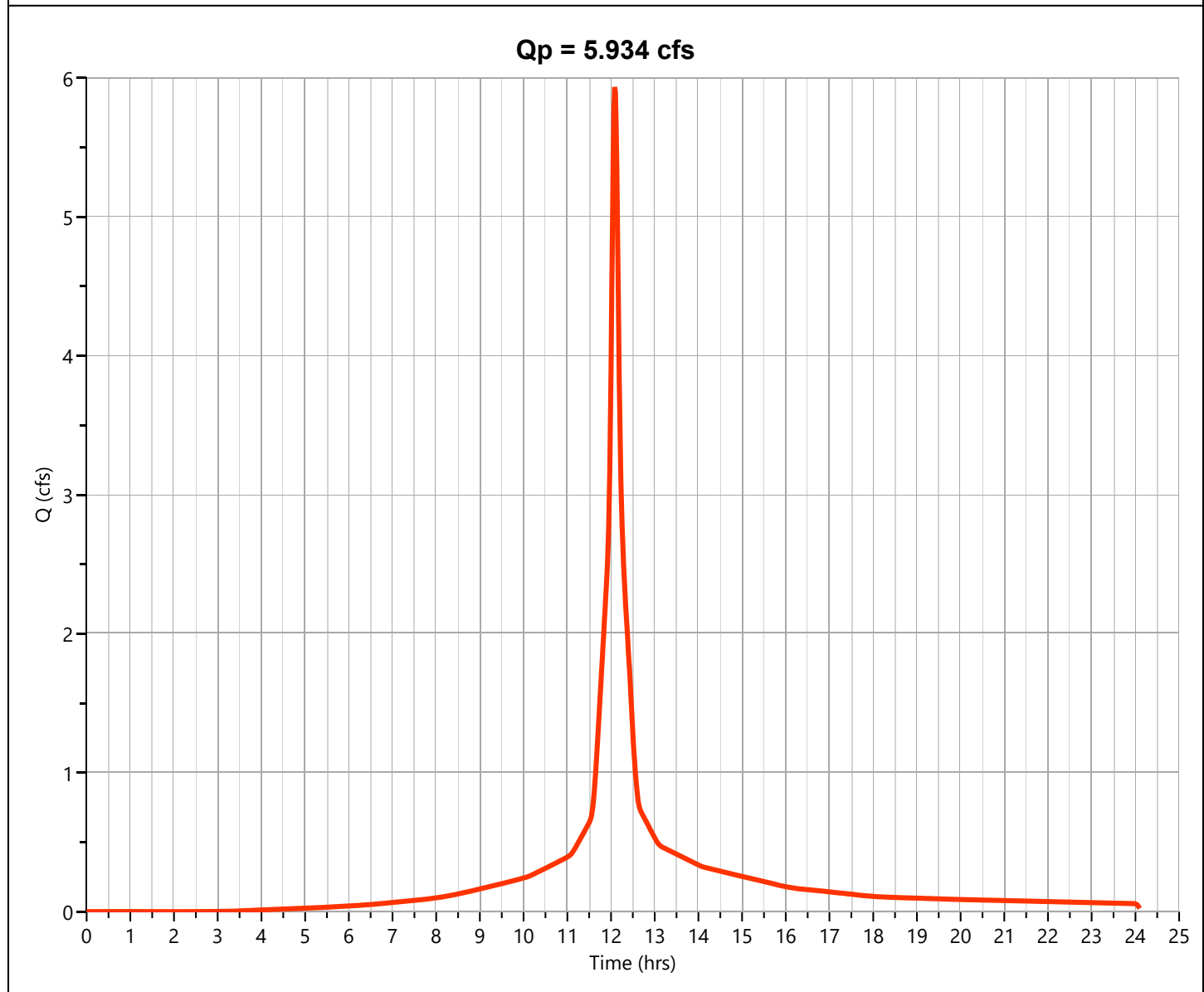
Post SA-A (TO SWQB #2)

Hyd. No. 2

Hydrograph Type	= NRCS Runoff	Peak Flow	= 5.934 cfs
Storm Frequency	= 50-yr	Time to Peak	= 12.08 hrs
Time Interval	= 1 min	Runoff Volume	= 20,267 cuft
Drainage Area	= 0.956 ac	Curve Number	= 90*
Tc Method	= User	Time of Conc. (Tc)	= 7.6 min
Total Rainfall	= 7.17 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.649	98	C-PAVED
0.307	74	C-LAWN/LANDSCAPED
0.956	90	Weighted CN Method Employed



POST144

Hydrograph Discharge Table

SA-A (TO SWQB #2)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.43	0.600	12.03	4.949	12.63	0.773				
11.45	0.610	12.05	5.417	12.65	0.751				
11.47	0.620	12.07	5.766	12.67	0.733				
11.48	0.630	12.08	5.934	12.68	0.720				
11.50	0.639	12.10	5.897	12.70	0.710				
11.52	0.650	12.12	5.682	12.72	0.700				
11.53	0.665	12.13	5.331	12.73	0.690				
11.55	0.685	12.15	4.896	12.75	0.680				
11.57	0.714	12.17	4.428	12.77	0.670				
11.58	0.754	12.18	3.978	12.78	0.660				
11.60	0.805	12.20	3.579	12.80	0.650				
11.62	0.865	12.22	3.250	12.82	0.640				
11.63	0.935	12.23	2.993	12.83	0.631				
11.65	1.011	12.25	2.795	12.85	0.621				
11.67	1.093	12.27	2.643	12.87	0.611				
11.68	1.178	12.28	2.523	12.88	0.601				
11.70	1.267	12.30	2.424	12.90	0.591				
11.72	1.357	12.32	2.331	...end	...end				
11.73	1.447	12.33	2.238						
11.75	1.538	12.35	2.144						
11.77	1.629	12.37	2.051						
11.78	1.721	12.38	1.957						
11.80	1.814	12.40	1.863						
11.82	1.907	12.42	1.769						
11.83	2.000	12.43	1.674						
11.85	2.095	12.45	1.580						
11.87	2.189	12.47	1.485						
11.88	2.284	12.48	1.391						
11.90	2.380	12.50	1.296						
11.92	2.487	12.52	1.203						
11.93	2.625	12.53	1.113						
11.95	2.816	12.55	1.030						
11.97	3.081	12.57	0.955						
11.98	3.440	12.58	0.893						
12.00	3.900	12.60	0.843						
12.02	4.422	12.62	0.804						

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

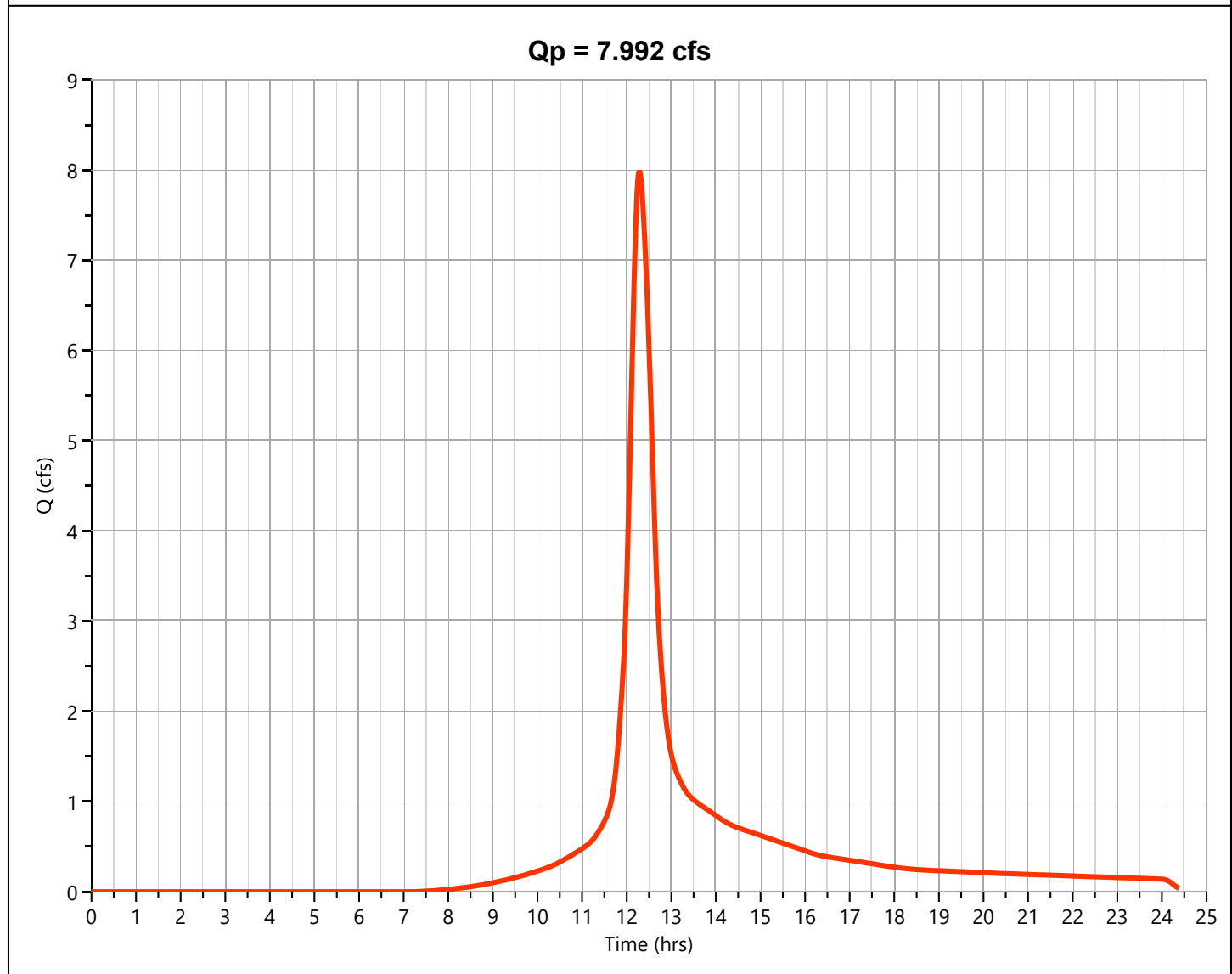
Post SA- (BYPASS)

Hyd. No. 3

Hydrograph Type	= NRCS Runoff	Peak Flow	= 7.992 cfs
Storm Frequency	= 50-yr	Time to Peak	= 12.28 hrs
Time Interval	= 1 min	Runoff Volume	= 38,605 cuft
Drainage Area	= 2.466 ac	Curve Number	= 75.12*
Tc Method	= User	Time of Conc. (Tc)	= 24.7 min
Total Rainfall	= 7.17 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.118	74	C-GRASS
1.128	70	C-WOODED
0.858	77	D-WOODED
0.362	87	C-RAILROAD ROW
2.466	75	Weighted CN Method Employed



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Hydrograph Discharge Table

SA- (BYPASS)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.53	0.815	12.13	6.089	12.73	2.827	13.33	1.109	13.93	0.866
11.55	0.834	12.15	6.427	12.75	2.691	13.35	1.097	13.95	0.860
11.57	0.855	12.17	6.754	12.77	2.565	13.37	1.087	13.97	0.855
11.58	0.878	12.18	7.060	12.78	2.447	13.38	1.076	13.98	0.849
11.60	0.904	12.20	7.336	12.80	2.338	13.40	1.067	14.00	0.843
11.62	0.932	12.22	7.575	12.82	2.236	13.42	1.057	14.02	0.837
11.63	0.964	12.23	7.765	12.83	2.141	13.43	1.049	14.03	0.832
11.65	1.000	12.25	7.898	12.85	2.053	13.45	1.040	14.05	0.826
11.67	1.041	12.27	7.971	12.87	1.972	13.47	1.032	14.07	0.820
11.68	1.086	12.28	7.992	12.88	1.898	13.48	1.025	14.08	0.815
11.70	1.137	12.30	7.968	12.90	1.829	13.50	1.018	14.10	0.809
11.72	1.194	12.32	7.907	12.92	1.766	13.52	1.011	14.12	0.804
11.73	1.258	12.33	7.816	12.93	1.708	13.53	1.004	14.13	0.798
11.75	1.328	12.35	7.705	12.95	1.655	13.55	0.998	...end	...end
11.77	1.406	12.37	7.578	12.97	1.606	13.57	0.992		
11.78	1.491	12.38	7.435	12.98	1.562	13.58	0.986		
11.80	1.583	12.40	7.276	13.00	1.522	13.60	0.980		
11.82	1.683	12.42	7.104	13.02	1.485	13.62	0.974		
11.83	1.789	12.43	6.917	13.03	1.452	13.63	0.968		
11.85	1.903	12.45	6.717	13.05	1.421	13.65	0.963		
11.87	2.023	12.47	6.505	13.07	1.393	13.67	0.957		
11.88	2.150	12.48	6.282	13.08	1.368	13.68	0.951		
11.90	2.283	12.50	6.047	13.10	1.344	13.70	0.946		
11.92	2.426	12.52	5.803	13.12	1.322	13.72	0.940		
11.93	2.581	12.53	5.550	13.13	1.301	13.73	0.934		
11.95	2.753	12.55	5.289	13.15	1.281	13.75	0.929		
11.97	2.948	12.57	5.024	13.17	1.262	13.77	0.923		
11.98	3.169	12.58	4.755	13.18	1.244	13.78	0.917		
12.00	3.422	12.60	4.488	13.20	1.226	13.80	0.912		
12.02	3.706	12.62	4.226	13.22	1.209	13.82	0.906		
12.03	4.016	12.63	3.974	13.23	1.192	13.83	0.900		
12.05	4.347	12.65	3.736	13.25	1.176	13.85	0.895		
12.07	4.691	12.67	3.517	13.27	1.161	13.87	0.889		
12.08	5.042	12.68	3.318	13.28	1.147	13.88	0.883		
12.10	5.395	12.70	3.138	13.30	1.134	13.90	0.878		
12.12	5.744	12.72	2.975	13.32	1.121	13.92	0.872		

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

PROP SWQB #1

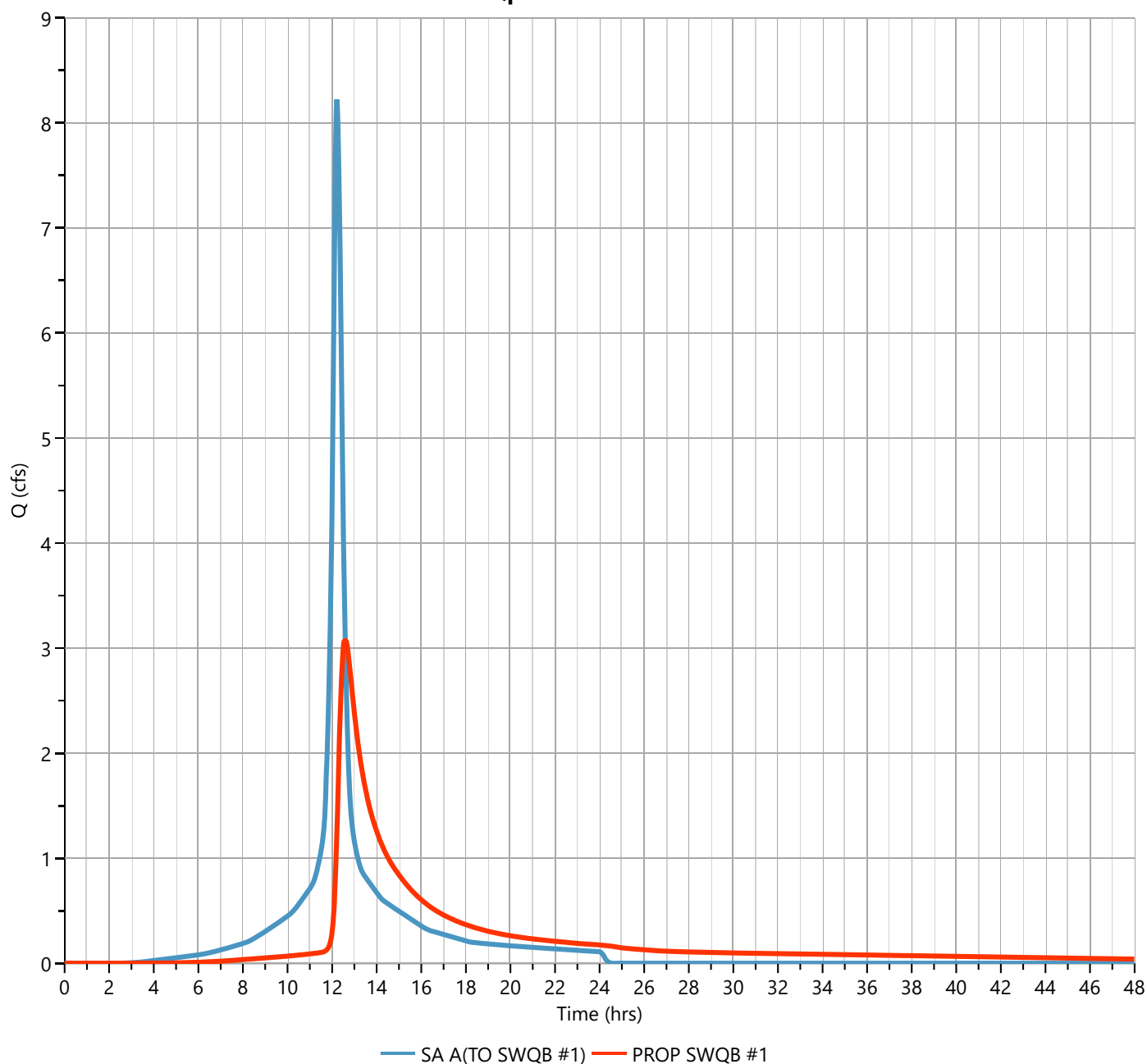
Hyd. No. 4

Hydrograph Type	= Pond Route	Peak Flow	= 3.087 cfs
Storm Frequency	= 50-yr	Time to Peak	= 12.58 hrs
Time Interval	= 1 min	Hydrograph Volume	= 37,210 cuft
Inflow Hydrograph	= 1 - SA A(TO SWQB #1)	Max. Elevation	= 83.80 ft
Pond Name	= PROP SWQB #1	Max. Storage	= 18,871 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 5.47 hrs

Qp = 3.087 cfs



Hydrograph Discharge Table

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
12.02	0.324	12.62	3.079	13.22	2.007	13.82	1.377	14.42	1.040
12.03	0.361	12.63	3.068	13.23	1.983	13.83	1.365	14.43	1.033
12.05	0.400	12.65	3.054	13.25	1.959	13.85	1.354	14.45	1.026
12.07	0.451	12.67	3.035	13.27	1.936	13.87	1.342	14.47	1.018
12.08	0.507	12.68	3.013	13.28	1.913	13.88	1.331	14.48	1.011
12.10	0.575	12.70	2.988	13.30	1.890	13.90	1.320	14.50	1.004
12.12	0.649	12.72	2.961	13.32	1.868	13.92	1.308	14.52	0.997
12.13	0.740	12.73	2.931	13.33	1.846	13.93	1.297	14.53	0.991
12.15	0.835	12.75	2.900	13.35	1.824	13.95	1.286	14.55	0.985
12.17	0.931	12.77	2.867	13.37	1.803	13.97	1.276	14.57	0.979
12.18	1.034	12.78	2.832	13.38	1.782	13.98	1.265	14.58	0.973
12.20	1.147	12.80	2.797	13.40	1.761	14.00	1.254	14.60	0.967
12.22	1.265	12.82	2.760	13.42	1.741	14.02	1.244	14.62	0.962
12.23	1.390	12.83	2.723	13.43	1.721	14.03	1.233	14.63	0.956
12.25	1.518	12.85	2.687	13.45	1.703	14.05	1.223	14.65	0.950
12.27	1.648	12.87	2.653	13.47	1.685	14.07	1.213	14.67	0.945
12.28	1.778	12.88	2.618	13.48	1.668	14.08	1.204	14.68	0.939
12.30	1.909	12.90	2.583	13.50	1.651	14.10	1.195	14.70	0.933
12.32	2.034	12.92	2.548	13.52	1.634	14.12	1.186	14.72	0.928
12.33	2.161	12.93	2.513	13.53	1.618	14.13	1.177	14.73	0.922
12.35	2.279	12.95	2.479	13.55	1.601	14.15	1.169	14.75	0.917
12.37	2.391	12.97	2.445	13.57	1.585	14.17	1.160	14.77	0.912
12.38	2.500	12.98	2.411	13.58	1.569	14.18	1.151	14.78	0.906
12.40	2.599	13.00	2.377	13.60	1.554	14.20	1.143	14.80	0.901
12.42	2.687	13.02	2.345	13.62	1.538	14.22	1.135	14.82	0.896
12.43	2.771	13.03	2.315	13.63	1.523	14.23	1.126	14.83	0.890
12.45	2.844	13.05	2.285	13.65	1.508	14.25	1.118	14.85	0.885
12.47	2.907	13.07	2.256	13.67	1.493	14.27	1.110	14.87	0.880
12.48	2.959	13.08	2.227	13.68	1.479	14.28	1.102	14.88	0.875
12.50	3.001	13.10	2.198	13.70	1.464	14.30	1.094	14.90	0.870
12.52	3.034	13.12	2.170	13.72	1.450	14.32	1.086	14.92	0.865
12.53	3.058	13.13	2.142	13.73	1.438	14.33	1.078	14.93	0.860
12.55	3.074	13.15	2.114	13.75	1.425	14.35	1.070	14.95	0.855
12.57	3.084	13.17	2.086	13.77	1.413	14.37	1.063	14.97	0.850
12.58	3.087	13.18	2.059	13.78	1.401	14.38	1.055	14.98	0.845
12.60	3.086	13.20	2.032	13.80	1.389	14.40	1.048	15.00	0.840

Printed values > 10% of Qpeak. nth-point print interval = 1

POST149

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
15.02	0.836	15.62	0.681	16.22	0.567	16.82	0.481	17.42	0.416
15.03	0.831	15.63	0.677	16.23	0.564	16.83	0.479	17.43	0.414
15.05	0.826	15.65	0.673	16.25	0.561	16.85	0.477	17.45	0.413
15.07	0.821	15.67	0.670	16.27	0.558	16.87	0.475	17.47	0.411
15.08	0.817	15.68	0.666	16.28	0.555	16.88	0.473	17.48	0.409
15.10	0.812	15.70	0.662	16.30	0.553	16.90	0.471	17.50	0.408
15.12	0.807	15.72	0.658	16.32	0.550	16.92	0.469	17.52	0.406
15.13	0.803	15.73	0.655	16.33	0.547	16.93	0.467	17.53	0.404
15.15	0.798	15.75	0.651	16.35	0.544	16.95	0.465	17.55	0.403
15.17	0.794	15.77	0.648	16.37	0.542	16.97	0.464	17.57	0.402
15.18	0.789	15.78	0.645	16.38	0.539	16.98	0.462	17.58	0.400
15.20	0.785	15.80	0.642	16.40	0.536	17.00	0.460	17.60	0.399
15.22	0.780	15.82	0.639	16.42	0.533	17.02	0.458	17.62	0.398
15.23	0.776	15.83	0.636	16.43	0.531	17.03	0.456	17.63	0.396
15.25	0.771	15.85	0.633	16.45	0.528	17.05	0.454	17.65	0.395
15.27	0.767	15.87	0.629	16.47	0.525	17.07	0.453	17.67	0.394
15.28	0.763	15.88	0.626	16.48	0.523	17.08	0.451	17.68	0.392
15.30	0.758	15.90	0.623	16.50	0.520	17.10	0.449	17.70	0.391
15.32	0.754	15.92	0.620	16.52	0.518	17.12	0.447	17.72	0.390
15.33	0.750	15.93	0.617	16.53	0.515	17.13	0.445	17.73	0.388
15.35	0.745	15.95	0.614	16.55	0.513	17.15	0.444	17.75	0.387
15.37	0.741	15.97	0.611	16.57	0.511	17.17	0.442	17.77	0.386
15.38	0.737	15.98	0.608	16.58	0.509	17.18	0.440	17.78	0.385
15.40	0.733	16.00	0.605	16.60	0.507	17.20	0.438	17.80	0.383
15.42	0.729	16.02	0.602	16.62	0.505	17.22	0.436	17.82	0.382
15.43	0.725	16.03	0.599	16.63	0.503	17.23	0.435	17.83	0.381
15.45	0.721	16.05	0.596	16.65	0.501	17.25	0.433	17.85	0.379
15.47	0.716	16.07	0.593	16.67	0.499	17.27	0.431	17.87	0.378
15.48	0.712	16.08	0.590	16.68	0.497	17.28	0.429	17.88	0.377
15.50	0.708	16.10	0.587	16.70	0.495	17.30	0.428	17.90	0.376
15.52	0.704	16.12	0.584	16.72	0.493	17.32	0.426	17.92	0.374
15.53	0.700	16.13	0.581	16.73	0.491	17.33	0.424	17.93	0.373
15.55	0.697	16.15	0.578	16.75	0.489	17.35	0.423	17.95	0.372
15.57	0.693	16.17	0.575	16.77	0.487	17.37	0.421	17.97	0.371
15.58	0.689	16.18	0.573	16.78	0.485	17.38	0.419	17.98	0.369
15.60	0.685	16.20	0.570	16.80	0.483	17.40	0.418	18.00	0.368

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
18.02	0.367	18.62	0.324						
18.03	0.366	18.63	0.323						
18.05	0.364	18.65	0.322						
18.07	0.363	18.67	0.321						
18.08	0.362	18.68	0.320						
18.10	0.360	18.70	0.319						
18.12	0.359	18.72	0.318						
18.13	0.358	18.73	0.317						
18.15	0.357	18.75	0.316						
18.17	0.355	18.77	0.315						
18.18	0.354	18.78	0.313						
18.20	0.353	18.80	0.312						
18.22	0.352	18.82	0.312						
18.23	0.351	18.83	0.311						
18.25	0.349	18.85	0.310						
18.27	0.348	18.87	0.309						
18.28	0.347	18.88	0.308						
18.30	0.346	...end	...end						
18.32	0.345								
18.33	0.343								
18.35	0.342								
18.37	0.341								
18.38	0.340								
18.40	0.339								
18.42	0.337								
18.43	0.336								
18.45	0.335								
18.47	0.334								
18.48	0.333								
18.50	0.332								
18.52	0.331								
18.53	0.329								
18.55	0.328								
18.57	0.327								
18.58	0.326								
18.60	0.325								

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

PROP SWQB #2

Hyd. No. 5

Hydrograph Type = Pond Route

Peak Flow = 5.144 cfs

Storm Frequency = 50-yr

Time to Peak = 12.13 hrs

Time Interval = 1 min

Hydrograph Volume = 20,261 cuft

Inflow Hydrograph = 2 - SA-A (TO SWQB #2)

Max. Elevation = 83.21 ft

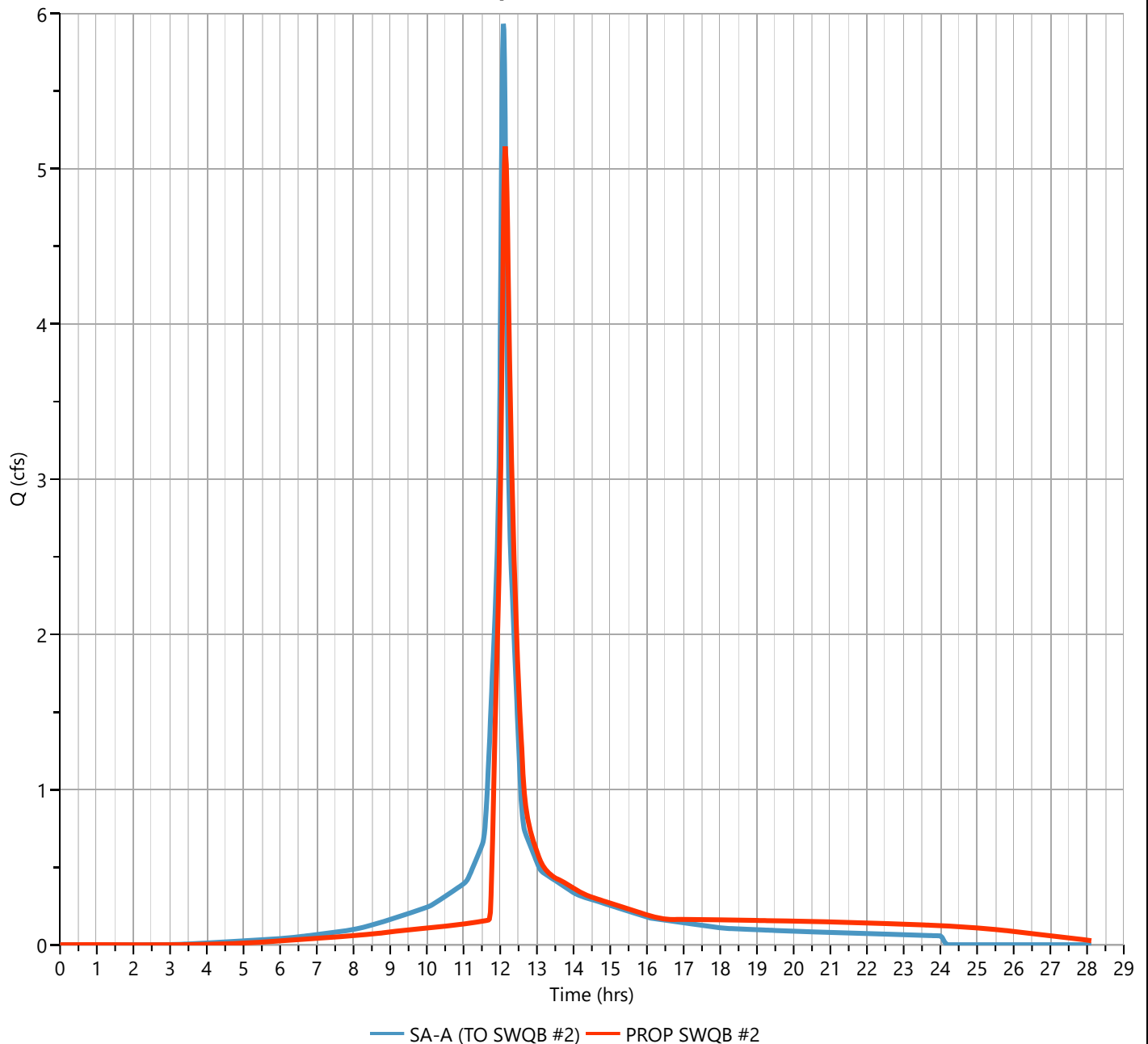
Pond Name = PRO SWQB #2

Max. Storage = 4,277 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 1.75 hrs

Qp = 5.144 cfs



Hydrograph Discharge Table

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.78	0.602	12.38	2.422	12.98	0.611				
11.80	0.773	12.40	2.298	13.00	0.600				
11.82	0.940	12.42	2.190	13.02	0.589				
11.83	1.129	12.43	2.088	13.03	0.579				
11.85	1.300	12.45	1.989	13.05	0.568				
11.87	1.457	12.47	1.890	13.07	0.558				
11.88	1.614	12.48	1.792	13.08	0.548				
11.90	1.770	12.50	1.695	13.10	0.539				
11.92	1.913	12.52	1.598	13.12	0.530				
11.93	2.053	12.53	1.506	13.13	0.522				
11.95	2.197	12.55	1.425	13.15	0.514				
11.97	2.371	12.57	1.345	...end	...end				
11.98	2.587	12.58	1.266						
12.00	2.849	12.60	1.192						
12.02	3.154	12.62	1.124						
12.03	3.460	12.63	1.061						
12.05	3.803	12.65	1.006						
12.07	4.171	12.67	0.956						
12.08	4.532	12.68	0.914						
12.10	4.829	12.70	0.883						
12.12	5.037	12.72	0.857						
12.13	5.144	12.73	0.833						
12.15	5.137	12.75	0.811						
12.17	5.028	12.77	0.791						
12.18	4.850	12.78	0.773						
12.20	4.620	12.80	0.755						
12.22	4.361	12.82	0.739						
12.23	4.095	12.83	0.724						
12.25	3.850	12.85	0.709						
12.27	3.624	12.87	0.696						
12.28	3.416	12.88	0.682						
12.30	3.228	12.90	0.670						
12.32	3.051	12.92	0.657						
12.33	2.865	12.93	0.645						
12.35	2.702	12.95	0.634						
12.37	2.556	12.97	0.622						

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

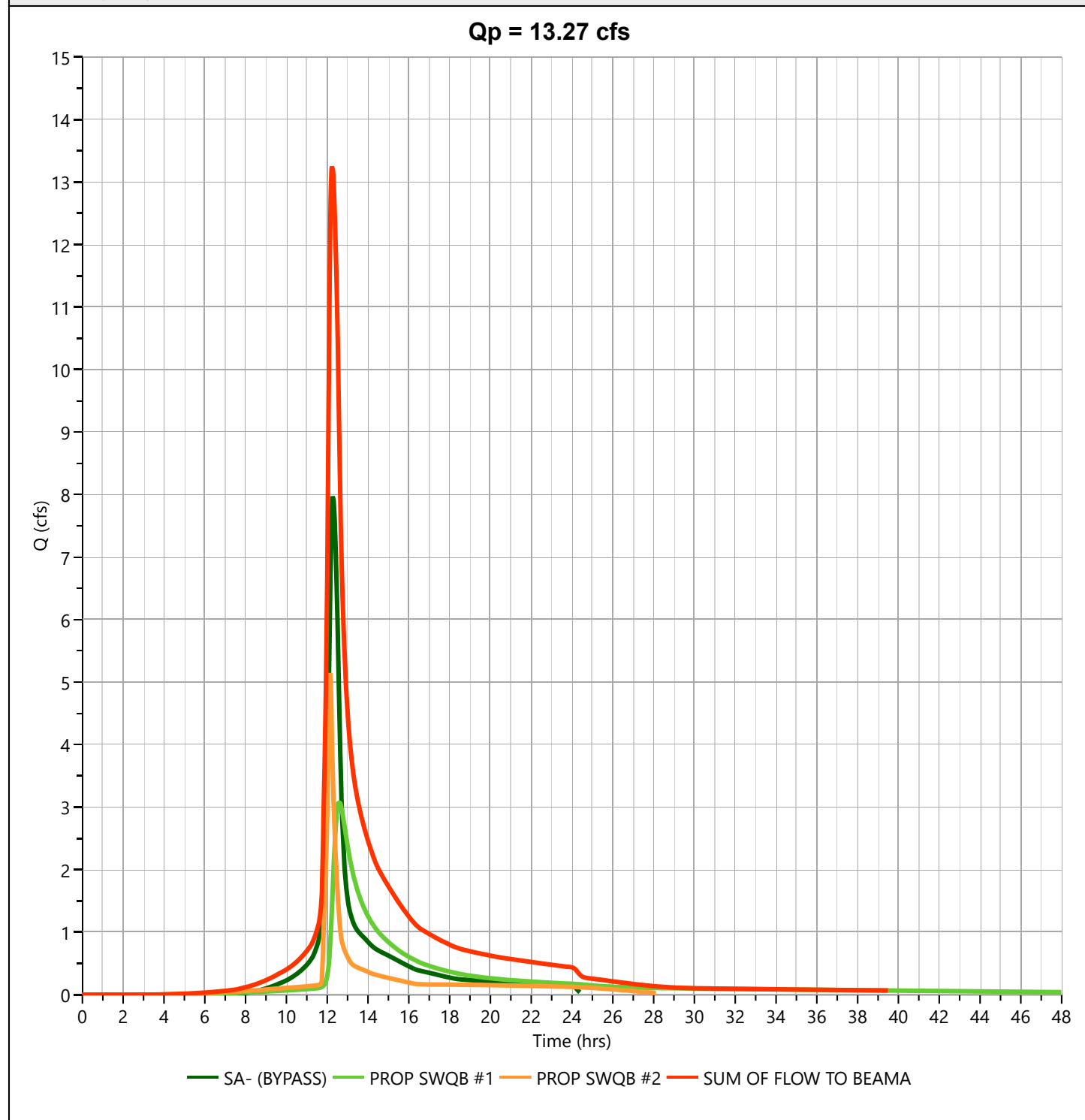
File: 3566-POST.hys

03-13-2025

Post SUM OF FLOW TO BEAMA

Hyd. No. 6

Hydrograph Type	= Junction	Peak Flow	= 13.27 cfs
Storm Frequency	= 50-yr	Time to Peak	= 12.25 hrs
Time Interval	= 1 min	Hydrograph Volume	= 96,076 cuft
Inflow Hydrographs	= 3	Total Contrib. Area	= 2.466 ac



Hydrograph Discharge Table

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.68	1.360	12.28	13.19	12.88	5.198	13.48	3.126	14.08	2.370
11.70	1.414	12.30	13.11	12.90	5.081	13.50	3.099	14.10	2.353
11.72	1.474	12.32	12.99	12.92	4.971	13.52	3.073	14.12	2.336
11.73	1.586	12.33	12.84	12.93	4.866	13.53	3.048	14.13	2.320
11.75	1.768	12.35	12.69	12.95	4.767	13.55	3.023	14.15	2.304
11.77	1.956	12.37	12.52	12.97	4.673	13.57	2.999	14.17	2.288
11.78	2.226	12.38	12.36	12.98	4.584	13.58	2.976	14.18	2.272
11.80	2.494	12.40	12.17	13.00	4.500	13.60	2.953	14.20	2.256
11.82	2.765	12.42	11.98	13.02	4.419	13.62	2.930	14.22	2.241
11.83	3.066	12.43	11.78	13.03	4.345	13.63	2.907	14.23	2.226
11.85	3.359	12.45	11.55	13.05	4.274	13.65	2.884	14.25	2.211
11.87	3.644	12.47	11.30	13.07	4.207	13.67	2.862	14.27	2.197
11.88	3.937	12.48	11.03	13.08	4.143	13.68	2.839	14.28	2.183
11.90	4.236	12.50	10.74	13.10	4.081	13.70	2.817	14.30	2.169
11.92	4.536	12.52	10.43	13.12	4.021	13.72	2.795	14.32	2.155
11.93	4.845	12.53	10.11	13.13	3.964	13.73	2.775	14.33	2.141
11.95	5.178	12.55	9.789	13.15	3.909	13.75	2.754	14.35	2.128
11.97	5.565	12.57	9.452	13.17	3.856	13.77	2.734	14.37	2.115
11.98	6.025	12.58	9.109	13.18	3.804	13.78	2.714	14.38	2.103
12.00	6.565	12.60	8.766	13.20	3.753	13.80	2.694	14.40	2.090
12.02	7.184	12.62	8.429	13.22	3.705	13.82	2.674	14.42	2.078
12.03	7.837	12.63	8.104	13.23	3.659	13.83	2.654	14.43	2.065
12.05	8.550	12.65	7.795	13.25	3.616	13.85	2.635	14.45	2.053
12.07	9.313	12.67	7.509	13.27	3.573	13.87	2.615	14.47	2.042
12.08	10.08	12.68	7.245	13.28	3.532	13.88	2.596	14.48	2.030
12.10	10.80	12.70	7.010	13.30	3.492	13.90	2.576	14.50	2.018
12.12	11.43	12.72	6.793	13.32	3.453	13.92	2.557	14.52	2.007
12.13	11.97	12.73	6.591	13.33	3.416	13.93	2.538	14.53	1.997
12.15	12.40	12.75	6.402	13.35	3.379	13.95	2.519	14.55	1.986
12.17	12.71	12.77	6.223	13.37	3.344	13.97	2.500	14.57	1.976
12.18	12.94	12.78	6.052	13.38	3.309	13.98	2.481	14.58	1.966
12.20	13.10	12.80	5.890	13.40	3.276	14.00	2.462	14.60	1.956
12.22	13.20	12.82	5.735	13.42	3.243	14.02	2.443	14.62	1.946
12.23	13.25	12.83	5.588	13.43	3.211	14.03	2.424	14.63	1.936
12.25	13.27	12.85	5.450	13.45	3.182	14.05	2.406	14.65	1.927
12.27	13.24	12.87	5.321	13.47	3.154	14.07	2.387	14.67	1.917

Hydrograph Discharge Table, cont'd

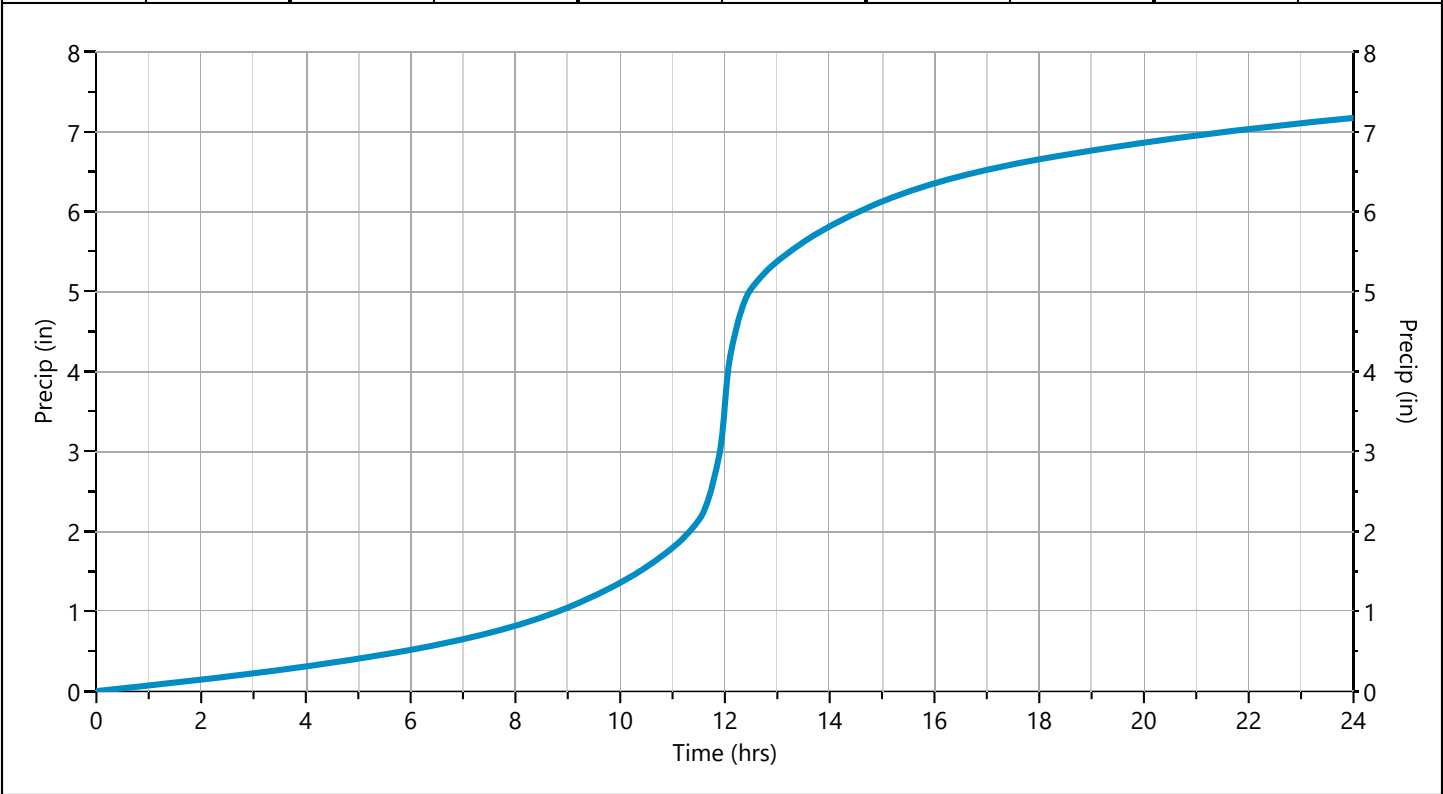
SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
14.68	1.907	15.28	1.584						
14.70	1.898	15.30	1.576						
14.72	1.888	15.32	1.568						
14.73	1.879	15.33	1.559						
14.75	1.869	15.35	1.551						
14.77	1.860	15.37	1.543						
14.78	1.850	15.38	1.534						
14.80	1.841	15.40	1.526						
14.82	1.831	15.42	1.518						
14.83	1.822	15.43	1.510						
14.85	1.813	15.45	1.502						
14.87	1.804	15.47	1.493						
14.88	1.795	15.48	1.485						
14.90	1.785	15.50	1.477						
14.92	1.776	15.52	1.469						
14.93	1.767	15.53	1.461						
14.95	1.758	15.55	1.453						
14.97	1.749	15.57	1.445						
14.98	1.740	15.58	1.437						
15.00	1.731	15.60	1.429						
15.02	1.723	15.62	1.421						
15.03	1.714	15.63	1.413						
15.05	1.705	15.65	1.405						
15.07	1.696	15.67	1.397						
15.08	1.687	15.68	1.389						
15.10	1.679	15.70	1.381						
15.12	1.670	15.72	1.373						
15.13	1.661	15.73	1.366						
15.15	1.653	15.75	1.358						
15.17	1.644	15.77	1.351						
15.18	1.635	15.78	1.344						
15.20	1.627	15.80	1.336						
15.22	1.618	15.82	1.329						
15.23	1.610	15.83	1.322						
15.25	1.601	...end	...end						
15.27	1.593								

Storm Distribution: NRCS/SCS - Type III, 24-hr

Storm Duration	Total Rainfall Volume (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	✓ 50-yr	100-yr
24 hrs	2.55	3.19	0.00	4.24	5.10	6.30	7.17	8.14

Incremental Rainfall Distribution, 50-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.014129	11.68	0.032624	11.87	0.051903	12.05	0.107729	12.23	0.043139
11.52	0.015056	11.70	0.034376	11.88	0.053655	12.07	0.093030	12.25	0.041387
11.53	0.016850	11.72	0.036129	11.90	0.055408	12.08	0.078332	12.27	0.039634
11.55	0.018602	11.73	0.037881	11.92	0.063838	12.10	0.063633	12.28	0.037881
11.57	0.020355	11.75	0.039634	11.93	0.078333	12.12	0.055619	12.30	0.036129
11.58	0.022107	11.77	0.041387	11.95	0.093031	12.13	0.053656	12.32	0.034376
11.60	0.023860	11.78	0.043139	11.97	0.107729	12.15	0.051903	12.33	0.032624
11.62	0.025613	11.80	0.044892	11.98	0.122428	12.17	0.050150	12.35	0.030871
11.63	0.027365	11.82	0.046645	12.00	0.137127	12.18	0.048398	12.37	0.029118
11.65	0.029118	11.83	0.048397	12.02	0.136798	12.20	0.046645	12.38	0.027366
11.67	0.030871	11.85	0.050150	12.03	0.122427	12.22	0.044892	12.40	0.025613



Hydrograph 100-yr Summary

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

Hydrology Studio v 3.0.0.36

03-13-2025

[illegible]

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

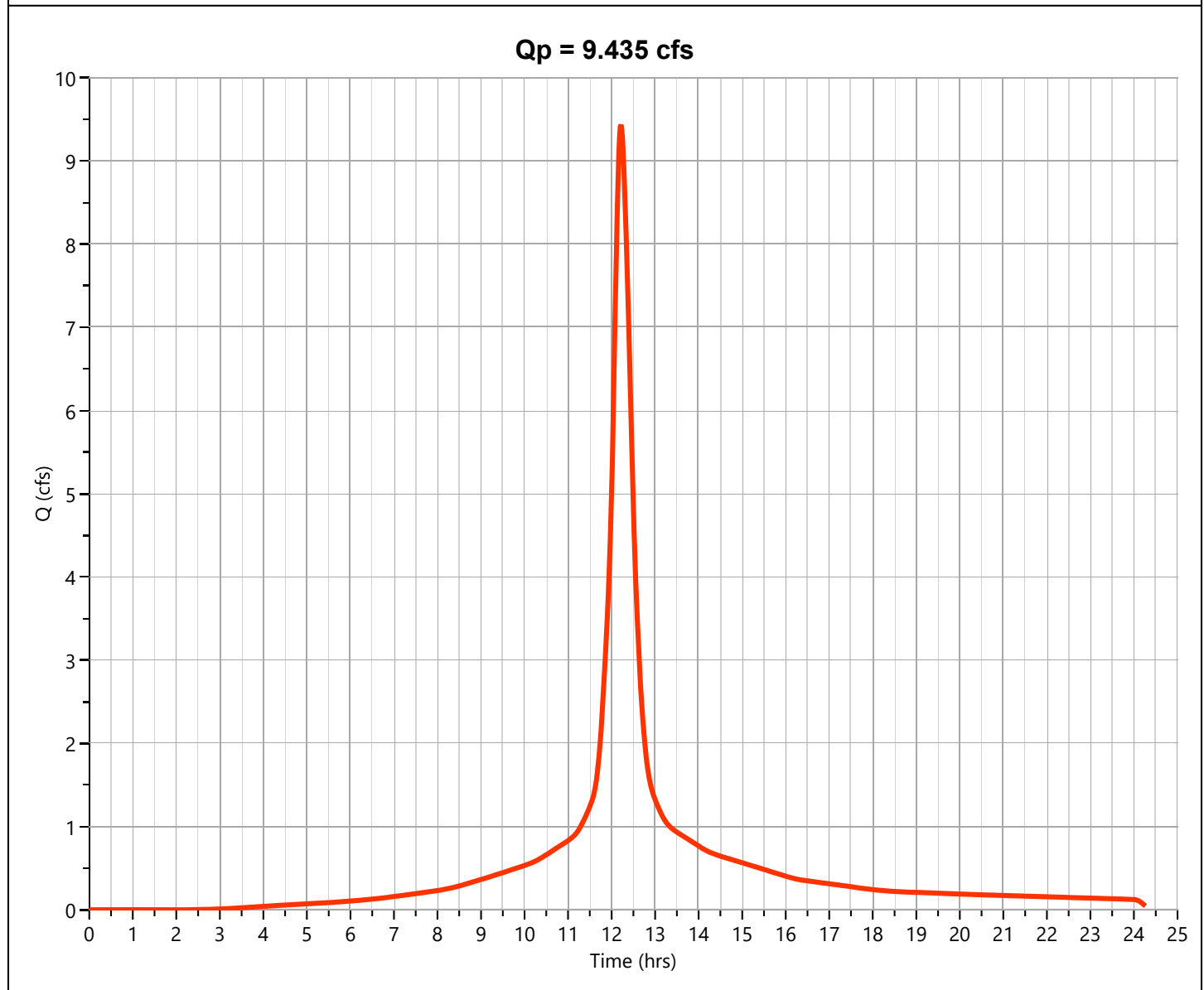
Post SA A(TO SWQB #1)

Hyd. No. 1

Hydrograph Type	= NRCS Runoff	Peak Flow	= 9.435 cfs
Storm Frequency	= 100-yr	Time to Peak	= 12.22 hrs
Time Interval	= 1 min	Runoff Volume	= 44,584 cuft
Drainage Area	= 1.739 ac	Curve Number	= 91*
Tc Method	= User	Time of Conc. (Tc)	= 19.1 min
Total Rainfall	= 8.14 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
1.234	98	C-PAVED/ROOF
0.505	74	C-LAWN/LANDSCAPES
1.739	91	Weighted CN Method Employed



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Hydrograph Discharge Table

SA A(TO SWQB #1)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.23	0.951	11.83	2.814	12.43	6.218	13.03	1.280		
11.25	0.965	11.85	2.978	12.45	5.870	13.05	1.259		
11.27	0.980	11.87	3.149	12.47	5.523	13.07	1.239		
11.28	0.995	11.88	3.325	12.48	5.182	13.08	1.218		
11.30	1.011	11.90	3.507	12.50	4.854	13.10	1.199		
11.32	1.027	11.92	3.697	12.52	4.545	13.12	1.179		
11.33	1.045	11.93	3.903	12.53	4.261	13.13	1.161		
11.35	1.062	11.95	4.131	12.55	4.005	13.15	1.143		
11.37	1.081	11.97	4.390	12.57	3.773	13.17	1.125		
11.38	1.099	11.98	4.686	12.58	3.561	13.18	1.109		
11.40	1.118	12.00	5.026	12.60	3.366	13.20	1.094		
11.42	1.138	12.02	5.410	12.62	3.184	13.22	1.079		
11.43	1.158	12.03	5.827	12.63	3.011	13.23	1.066		
11.45	1.178	12.05	6.266	12.65	2.846	13.25	1.053		
11.47	1.198	12.07	6.719	12.67	2.690	13.27	1.041		
11.48	1.219	12.08	7.174	12.68	2.544	13.28	1.030		
11.50	1.239	12.10	7.623	12.70	2.409	13.30	1.020		
11.52	1.261	12.12	8.053	12.72	2.285	13.32	1.010		
11.53	1.283	12.13	8.449	12.73	2.172	13.33	1.001		
11.55	1.308	12.15	8.798	12.75	2.068	13.35	0.992		
11.57	1.336	12.17	9.084	12.77	1.974	13.37	0.984		
11.58	1.368	12.18	9.293	12.78	1.889	13.38	0.977		
11.60	1.406	12.20	9.410	12.80	1.812	13.40	0.970		
11.62	1.448	12.22	9.435	12.82	1.742	13.42	0.963		
11.63	1.498	12.23	9.381	12.83	1.680	13.43	0.956		
11.65	1.556	12.25	9.260	12.85	1.624	13.45	0.950		
11.67	1.622	12.27	9.088	12.87	1.574	13.47	0.944		
11.68	1.697	12.28	8.876	12.88	1.530	13.48	0.938		
11.70	1.783	12.30	8.640	12.90	1.490	...end	...end		
11.72	1.880	12.32	8.386	12.92	1.455				
11.73	1.986	12.33	8.115	12.93	1.424				
11.75	2.103	12.35	7.829	12.95	1.395				
11.77	2.229	12.37	7.530	12.97	1.369				
11.78	2.363	12.38	7.217	12.98	1.345				
11.80	2.506	12.40	6.894	13.00	1.323				
11.82	2.656	12.42	6.560	13.02	1.301				

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

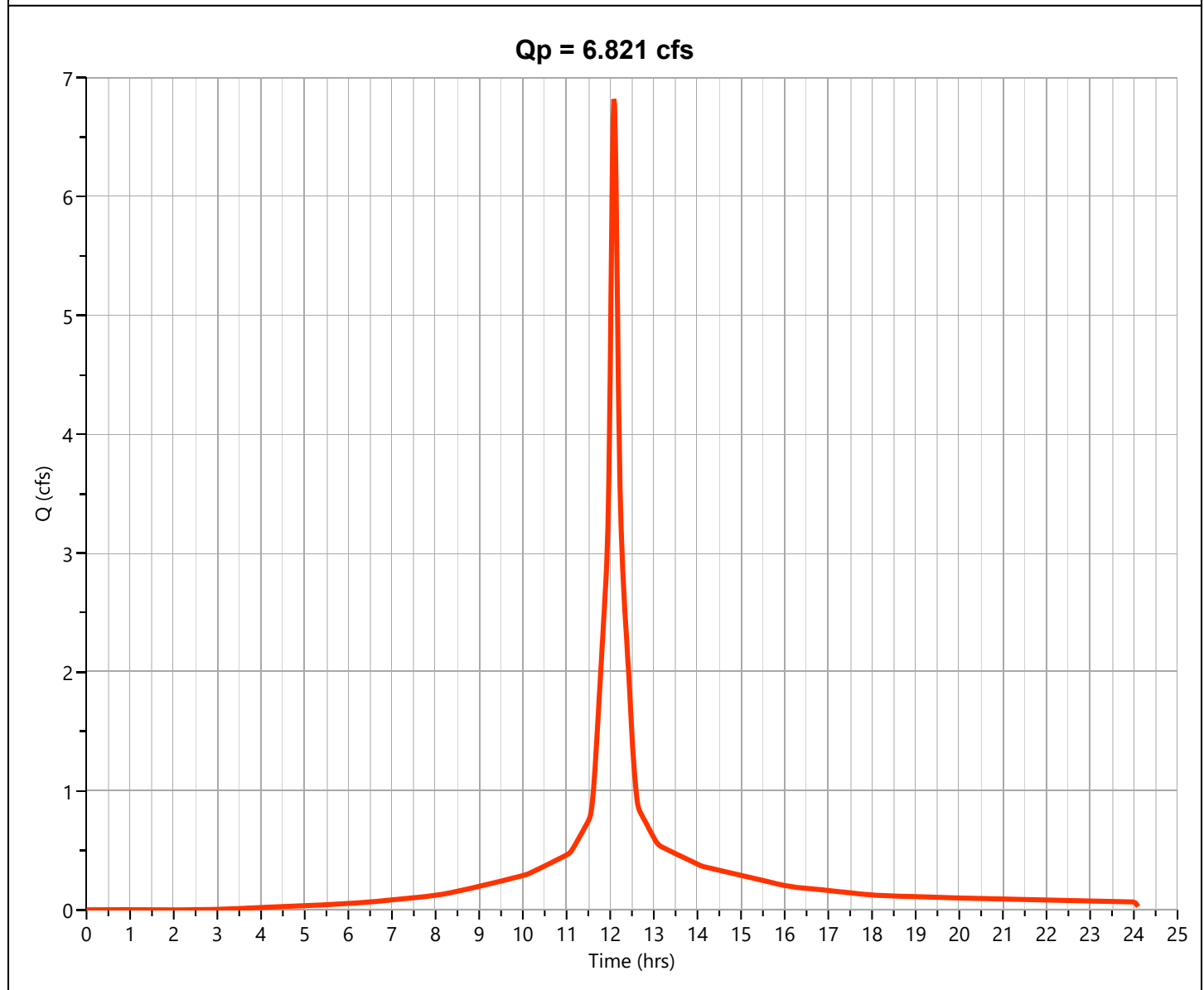
Post SA-A (TO SWQB #2)

Hyd. No. 2

Hydrograph Type	= NRCS Runoff	Peak Flow	= 6.821 cfs
Storm Frequency	= 100-yr	Time to Peak	= 12.08 hrs
Time Interval	= 1 min	Runoff Volume	= 23,493 cuft
Drainage Area	= 0.956 ac	Curve Number	= 90*
Tc Method	= User	Time of Conc. (Tc)	= 7.6 min
Total Rainfall	= 8.14 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.649	98	C-PAVED
0.307	74	C-LAWN/LANDSCAPED
0.956	90	Weighted CN Method Employed



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Hydrograph Discharge Table

SA-A (TO SWQB #2)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.42	0.690	12.02	5.094	12.62	0.919				
11.43	0.701	12.03	5.697	12.63	0.884				
11.45	0.712	12.05	6.233	12.65	0.858				
11.47	0.723	12.07	6.631	12.67	0.838				
11.48	0.735	12.08	6.821	12.68	0.823				
11.50	0.746	12.10	6.776	12.70	0.811				
11.52	0.758	12.12	6.525	12.72	0.800				
11.53	0.775	12.13	6.121	12.73	0.789				
11.55	0.799	12.15	5.619	12.75	0.777				
11.57	0.832	12.17	5.080	12.77	0.766				
11.58	0.878	12.18	4.562	12.78	0.755				
11.60	0.937	12.20	4.103	12.80	0.743				
11.62	1.007	12.22	3.725	12.82	0.732				
11.63	1.088	12.23	3.430	12.83	0.721				
11.65	1.176	12.25	3.202	12.85	0.709				
11.67	1.271	12.27	3.027	12.87	0.698				
11.68	1.370	12.28	2.890	12.88	0.687				
11.70	1.473	12.30	2.775	12.90	0.675				
11.72	1.576	12.32	2.668	...end	...end				
11.73	1.681	12.33	2.561						
11.75	1.785	12.35	2.454						
11.77	1.891	12.37	2.347						
11.78	1.997	12.38	2.239						
11.80	2.103	12.40	2.132						
11.82	2.210	12.42	2.024						
11.83	2.317	12.43	1.916						
11.85	2.425	12.45	1.807						
11.87	2.534	12.47	1.699						
11.88	2.643	12.48	1.591						
11.90	2.752	12.50	1.482						
11.92	2.874	12.52	1.375						
11.93	3.033	12.53	1.273						
11.95	3.251	12.55	1.177						
11.97	3.555	12.57	1.092						
11.98	3.968	12.58	1.021						
12.00	4.495	12.60	0.964						

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

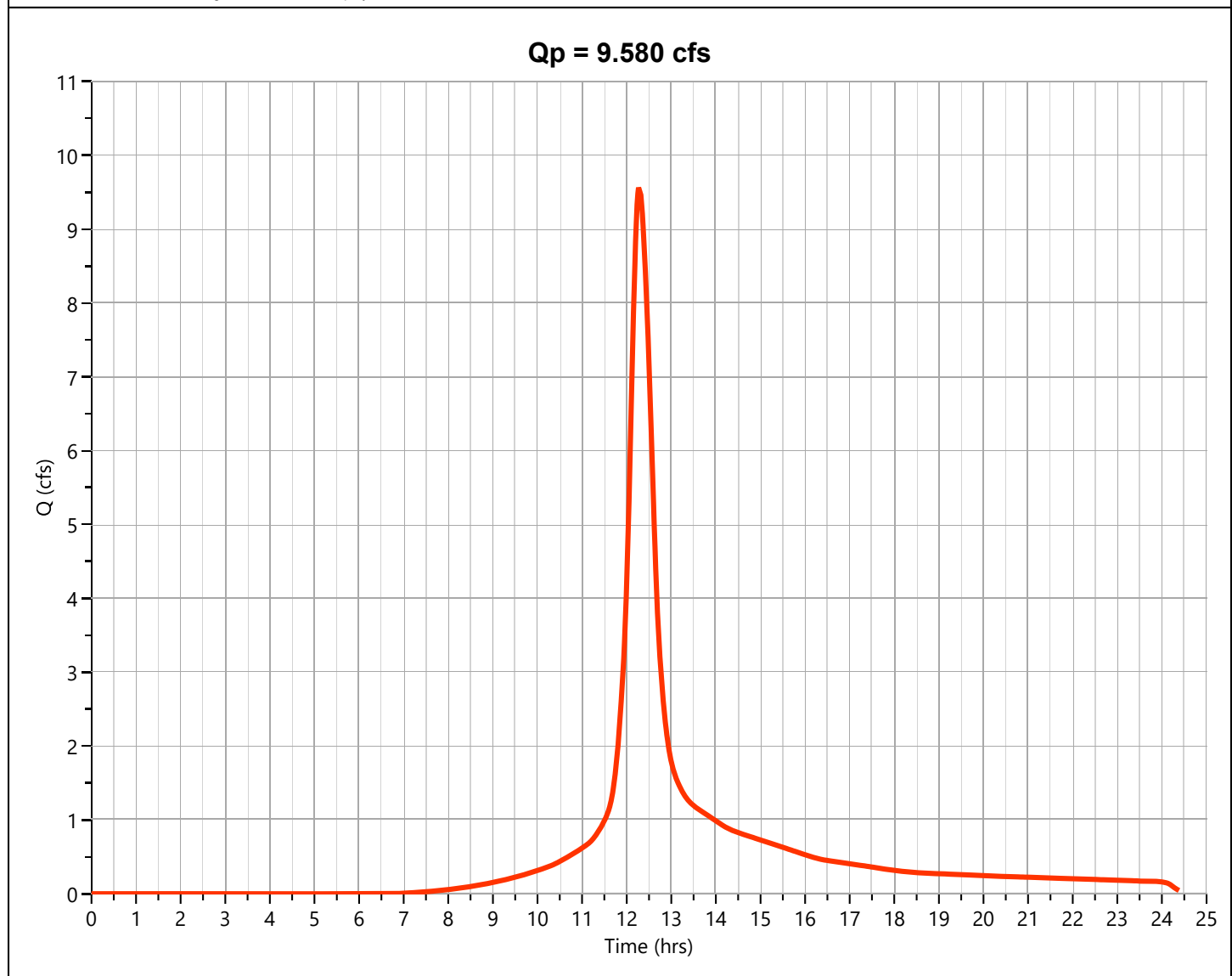
Post SA- (BYPASS)

Hyd. No. 3

Hydrograph Type	= NRCS Runoff	Peak Flow	= 9.580 cfs
Storm Frequency	= 100-yr	Time to Peak	= 12.28 hrs
Time Interval	= 1 min	Runoff Volume	= 46,389 cuft
Drainage Area	= 2.466 ac	Curve Number	= 75.12*
Tc Method	= User	Time of Conc. (Tc)	= 24.7 min
Total Rainfall	= 8.14 in	Design Storm	= Type III
Storm Duration	= 24 hrs	Shape Factor	= 484

* Composite CN Worksheet

AREA (ac)	CN	DESCRIPTION
0.118	74	C-GRASS
1.128	70	C-WOODED
0.858	77	D-WOODED
0.362	87	C-RAILROAD ROW
2.466	75	Weighted CN Method Employed



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Hydrograph Discharge Table

SA- (BYPASS)

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.48	0.969	12.08	6.127	12.68	3.914	13.28	1.345	13.88	1.034
11.50	0.989	12.10	6.545	12.70	3.700	13.30	1.329	13.90	1.027
11.52	1.009	12.12	6.960	12.72	3.506	13.32	1.314	13.92	1.020
11.53	1.031	12.13	7.368	12.73	3.330	13.33	1.300	13.93	1.013
11.55	1.054	12.15	7.767	12.75	3.169	13.35	1.286	13.95	1.007
11.57	1.079	12.17	8.152	12.77	3.020	13.37	1.274	13.97	1.000
11.58	1.107	12.18	8.512	12.78	2.881	13.38	1.262	13.98	0.993
11.60	1.139	12.20	8.836	12.80	2.752	13.40	1.250	14.00	0.986
11.62	1.174	12.22	9.114	12.82	2.631	13.42	1.239	14.02	0.979
11.63	1.213	12.23	9.333	12.83	2.519	13.43	1.229	14.03	0.973
11.65	1.257	12.25	9.484	12.85	2.415	13.45	1.219	14.05	0.966
11.67	1.307	12.27	9.563	12.87	2.319	13.47	1.210	14.07	0.959
11.68	1.363	12.28	9.580	12.88	2.231	13.48	1.201	14.08	0.953
11.70	1.425	12.30	9.543	12.90	2.150	13.50	1.192	...end	...end
11.72	1.495	12.32	9.462	12.92	2.075	13.52	1.184		
11.73	1.573	12.33	9.347	12.93	2.007	13.53	1.176		
11.75	1.659	12.35	9.207	12.95	1.944	13.55	1.169		
11.77	1.754	12.37	9.048	12.97	1.887	13.57	1.161		
11.78	1.859	12.38	8.871	12.98	1.835	13.58	1.154		
11.80	1.971	12.40	8.675	13.00	1.788	13.60	1.147		
11.82	2.093	12.42	8.464	13.02	1.744	13.62	1.140		
11.83	2.222	12.43	8.236	13.03	1.705	13.63	1.134		
11.85	2.360	12.45	7.992	13.05	1.669	13.65	1.127		
11.87	2.507	12.47	7.735	13.07	1.636	13.67	1.120		
11.88	2.661	12.48	7.464	13.08	1.605	13.68	1.114		
11.90	2.823	12.50	7.180	13.10	1.577	13.70	1.107		
11.92	2.995	12.52	6.885	13.12	1.551	13.72	1.101		
11.93	3.182	12.53	6.581	13.13	1.527	13.73	1.094		
11.95	3.390	12.55	6.268	13.15	1.503	13.75	1.087		
11.97	3.624	12.57	5.949	13.17	1.481	13.77	1.081		
11.98	3.890	12.58	5.628	13.18	1.459	13.78	1.074		
12.00	4.194	12.60	5.308	13.20	1.438	13.80	1.067		
12.02	4.534	12.62	4.995	13.22	1.418	13.82	1.060		
12.03	4.905	12.63	4.694	13.23	1.398	13.83	1.054		
12.05	5.299	12.65	4.411	13.25	1.379	13.85	1.047		
12.07	5.709	12.67	4.150	13.27	1.362	13.87	1.040		

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

PROP SWQB #1

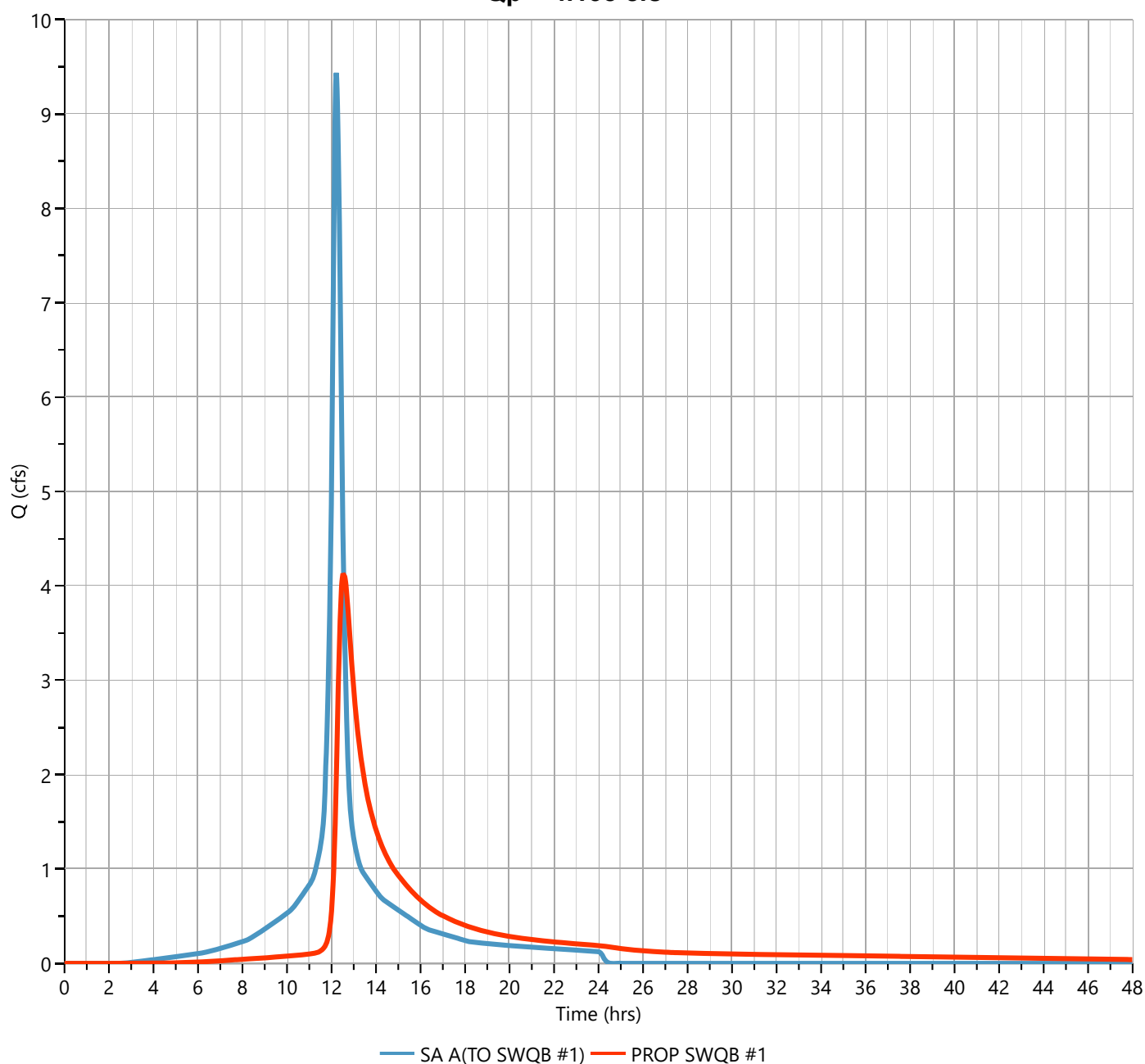
Hyd. No. 4

Hydrograph Type	= Pond Route	Peak Flow	= 4.138 cfs
Storm Frequency	= 100-yr	Time to Peak	= 12.53 hrs
Time Interval	= 1 min	Hydrograph Volume	= 43,199 cuft
Inflow Hydrograph	= 1 - SA A(TO SWQB #1)	Max. Elevation	= 84.03 ft
Pond Name	= PROP SWQB #1	Max. Storage	= 20,792 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 4.89 hrs

Qp = 4.138 cfs



Hydrograph Discharge Table

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.95	0.424	12.55	4.138	13.15	2.522	13.75	1.624	14.35	1.193
11.97	0.462	12.57	4.130	13.17	2.485	13.77	1.609	14.37	1.185
11.98	0.503	12.58	4.116	13.18	2.448	13.78	1.593	14.38	1.177
12.00	0.552	12.60	4.096	13.20	2.412	13.80	1.578	14.40	1.169
12.02	0.607	12.62	4.072	13.22	2.376	13.82	1.563	14.42	1.161
12.03	0.669	12.63	4.042	13.23	2.341	13.83	1.548	14.43	1.153
12.05	0.745	12.65	4.009	13.25	2.310	13.85	1.534	14.45	1.145
12.07	0.825	12.67	3.970	13.27	2.279	13.87	1.519	14.47	1.137
12.08	0.910	12.68	3.924	13.28	2.248	13.88	1.505	14.48	1.129
12.10	1.000	12.70	3.876	13.30	2.218	13.90	1.491	14.50	1.122
12.12	1.109	12.72	3.824	13.32	2.189	13.92	1.477	14.52	1.114
12.13	1.224	12.73	3.771	13.33	2.159	13.93	1.463	14.53	1.106
12.15	1.357	12.75	3.715	13.35	2.131	13.95	1.449	14.55	1.099
12.17	1.498	12.77	3.658	13.37	2.103	13.97	1.437	14.57	1.092
12.18	1.652	12.78	3.600	13.38	2.075	13.98	1.426	14.58	1.084
12.20	1.817	12.80	3.542	13.40	2.048	14.00	1.414	14.60	1.077
12.22	1.986	12.82	3.485	13.42	2.022	14.02	1.402	14.62	1.070
12.23	2.166	12.83	3.428	13.43	1.997	14.03	1.391	14.63	1.063
12.25	2.341	12.85	3.372	13.45	1.974	14.05	1.379	14.65	1.056
12.27	2.525	12.87	3.315	13.47	1.951	14.07	1.368	14.67	1.049
12.28	2.699	12.88	3.259	13.48	1.929	14.08	1.356	14.68	1.042
12.30	2.876	12.90	3.203	13.50	1.907	14.10	1.345	14.70	1.035
12.32	3.042	12.92	3.148	13.52	1.885	14.12	1.334	14.72	1.029
12.33	3.202	12.93	3.094	13.53	1.863	14.13	1.323	14.73	1.022
12.35	3.355	12.95	3.045	13.55	1.842	14.15	1.313	14.75	1.015
12.37	3.492	12.97	2.996	13.57	1.822	14.17	1.302	14.77	1.009
12.38	3.621	12.98	2.948	13.58	1.801	14.18	1.291	14.78	1.002
12.40	3.736	13.00	2.901	13.60	1.781	14.20	1.281	14.80	0.996
12.42	3.836	13.02	2.854	13.62	1.761	14.22	1.270	14.82	0.991
12.43	3.922	13.03	2.808	13.63	1.742	14.23	1.260	14.83	0.985
12.45	3.993	13.05	2.763	13.65	1.723	14.25	1.250	14.85	0.980
12.47	4.044	13.07	2.718	13.67	1.705	14.27	1.240	14.87	0.974
12.48	4.083	13.08	2.677	13.68	1.689	14.28	1.230	14.88	0.969
12.50	4.112	13.10	2.638	13.70	1.672	14.30	1.220	14.90	0.963
12.52	4.129	13.12	2.599	13.72	1.656	14.32	1.210	14.92	0.958
12.53	4.138	13.13	2.560	13.73	1.640	14.33	1.202	14.93	0.953

Printed values > 10% of Qpeak. nth-point print interval = 1

Hydrograph Discharge Table, cont'd

PROP SWQB #1

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
14.95	0.947	15.55	0.778	16.15	0.639	16.75	0.538	17.35	0.466
14.97	0.942	15.57	0.774	16.17	0.636	16.77	0.536	17.37	0.464
14.98	0.937	15.58	0.770	16.18	0.633	16.78	0.533	17.38	0.462
15.00	0.932	15.60	0.766	16.20	0.630	16.80	0.531	17.40	0.461
15.02	0.927	15.62	0.761	16.22	0.627	16.82	0.528	17.42	0.459
15.03	0.922	15.63	0.757	16.23	0.624	16.83	0.526	17.43	0.457
15.05	0.917	15.65	0.753	16.25	0.621	16.85	0.523	17.45	0.455
15.07	0.912	15.67	0.749	16.27	0.618	16.87	0.521	17.47	0.454
15.08	0.907	15.68	0.745	16.28	0.615	16.88	0.519	17.48	0.452
15.10	0.902	15.70	0.741	16.30	0.612	16.90	0.516	17.50	0.450
15.12	0.897	15.72	0.737	16.32	0.609	16.92	0.514	17.52	0.448
15.13	0.892	15.73	0.733	16.33	0.606	16.93	0.512	17.53	0.447
15.15	0.887	15.75	0.729	16.35	0.603	16.95	0.511	17.55	0.445
15.17	0.882	15.77	0.725	16.37	0.600	16.97	0.509	17.57	0.443
15.18	0.877	15.78	0.721	16.38	0.597	16.98	0.507	17.58	0.442
15.20	0.873	15.80	0.717	16.40	0.594	17.00	0.505	17.60	0.440
15.22	0.868	15.82	0.713	16.42	0.592	17.02	0.503	17.62	0.438
15.23	0.863	15.83	0.709	16.43	0.589	17.03	0.501	17.63	0.437
15.25	0.858	15.85	0.705	16.45	0.586	17.05	0.499	17.65	0.435
15.27	0.854	15.87	0.701	16.47	0.583	17.07	0.497	17.67	0.433
15.28	0.849	15.88	0.697	16.48	0.580	17.08	0.495	17.68	0.431
15.30	0.844	15.90	0.693	16.50	0.578	17.10	0.493	17.70	0.430
15.32	0.840	15.92	0.689	16.52	0.575	17.12	0.491	17.72	0.428
15.33	0.835	15.93	0.686	16.53	0.572	17.13	0.490	17.73	0.426
15.35	0.831	15.95	0.682	16.55	0.569	17.15	0.488	17.75	0.425
15.37	0.826	15.97	0.678	16.57	0.567	17.17	0.486	17.77	0.423
15.38	0.822	15.98	0.674	16.58	0.564	17.18	0.484	17.78	0.422
15.40	0.817	16.00	0.670	16.60	0.561	17.20	0.482	17.80	0.420
15.42	0.813	16.02	0.667	16.62	0.559	17.22	0.480	17.82	0.418
15.43	0.809	16.03	0.663	16.63	0.556	17.23	0.479	17.83	0.417
15.45	0.804	16.05	0.659	16.65	0.553	17.25	0.477	17.85	0.415
15.47	0.800	16.07	0.655	16.67	0.551	17.27	0.475	17.87	0.413
15.48	0.795	16.08	0.652	16.68	0.548	17.28	0.473	...end	...end
15.50	0.791	16.10	0.649	16.70	0.546	17.30	0.471		
15.52	0.787	16.12	0.646	16.72	0.543	17.32	0.469		
15.53	0.782	16.13	0.643	16.73	0.541	17.33	0.468		

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

File: 3566-POST.hys

03-13-2025

PROP SWQB #2

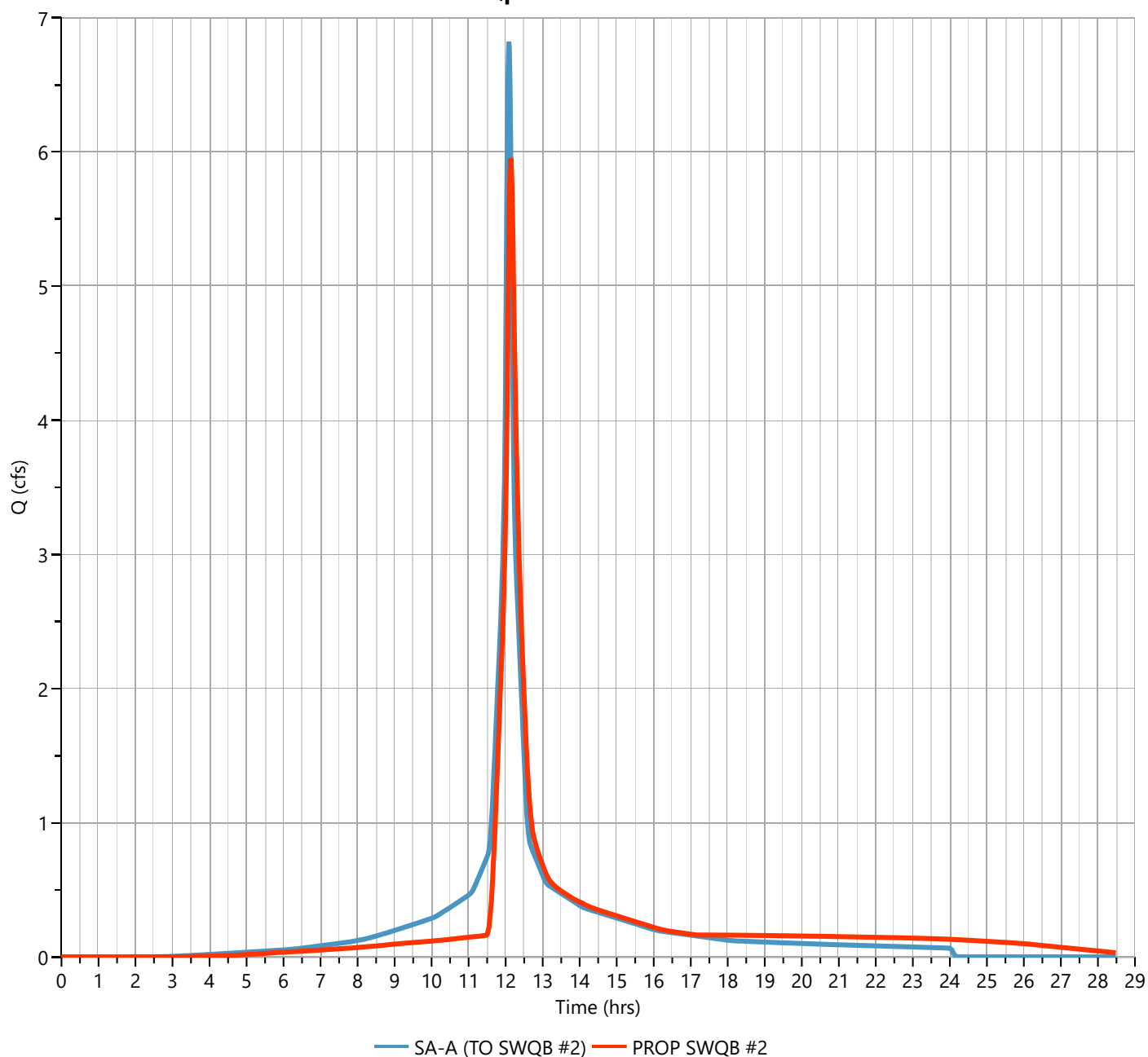
Hyd. No. 5

Hydrograph Type	= Pond Route	Peak Flow	= 5.954 cfs
Storm Frequency	= 100-yr	Time to Peak	= 12.13 hrs
Time Interval	= 1 min	Hydrograph Volume	= 23,487 cuft
Inflow Hydrograph	= 2 - SA-A (TO SWQB #2)	Max. Elevation	= 83.29 ft
Pond Name	= PRO SWQB #2	Max. Storage	= 4,465 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 1.62 hrs

Qp = 5.954 cfs



Hydrograph Discharge Table

PROP SWQB #2

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.65	0.597	12.25	4.385	12.85	0.802				
11.67	0.689	12.27	4.112	12.87	0.787				
11.68	0.782	12.28	3.875	12.88	0.773				
11.70	0.876	12.30	3.667	12.90	0.760				
11.72	0.988	12.32	3.479	12.92	0.747				
11.73	1.108	12.33	3.306	12.93	0.734				
11.75	1.224	12.35	3.147	12.95	0.721				
11.77	1.338	12.37	2.977	12.97	0.708				
11.78	1.451	12.38	2.812	12.98	0.696				
11.80	1.568	12.40	2.660	13.00	0.684				
11.82	1.696	12.42	2.519	13.02	0.671				
11.83	1.819	12.43	2.386	13.03	0.660				
11.85	1.938	12.45	2.259	13.05	0.648				
11.87	2.056	12.47	2.150	13.07	0.636				
11.88	2.171	12.48	2.040	13.08	0.625				
11.90	2.288	12.50	1.931	13.10	0.615				
11.92	2.415	12.52	1.822	13.12	0.605				
11.93	2.545	12.53	1.714	13.13	0.596				
11.95	2.690	12.55	1.608	13.15	0.587				
11.97	2.862	12.57	1.509	...end	...end				
11.98	3.080	12.58	1.425						
12.00	3.312	12.60	1.344						
12.02	3.608	12.62	1.269						
12.03	3.965	12.63	1.201						
12.05	4.390	12.65	1.139						
12.07	4.829	12.67	1.085						
12.08	5.251	12.68	1.038						
12.10	5.606	12.70	0.997						
12.12	5.845	12.72	0.961						
12.13	5.954	12.73	0.930						
12.15	5.935	12.75	0.904						
12.17	5.801	12.77	0.884						
12.18	5.576	12.78	0.866						
12.20	5.292	12.80	0.849						
12.22	4.979	12.82	0.832						
12.23	4.678	12.83	0.817						

Hydrograph Report

Hydrology Studio v 3.0.0.36

Project Name: 529 Cottage Grove Road Bloomfield

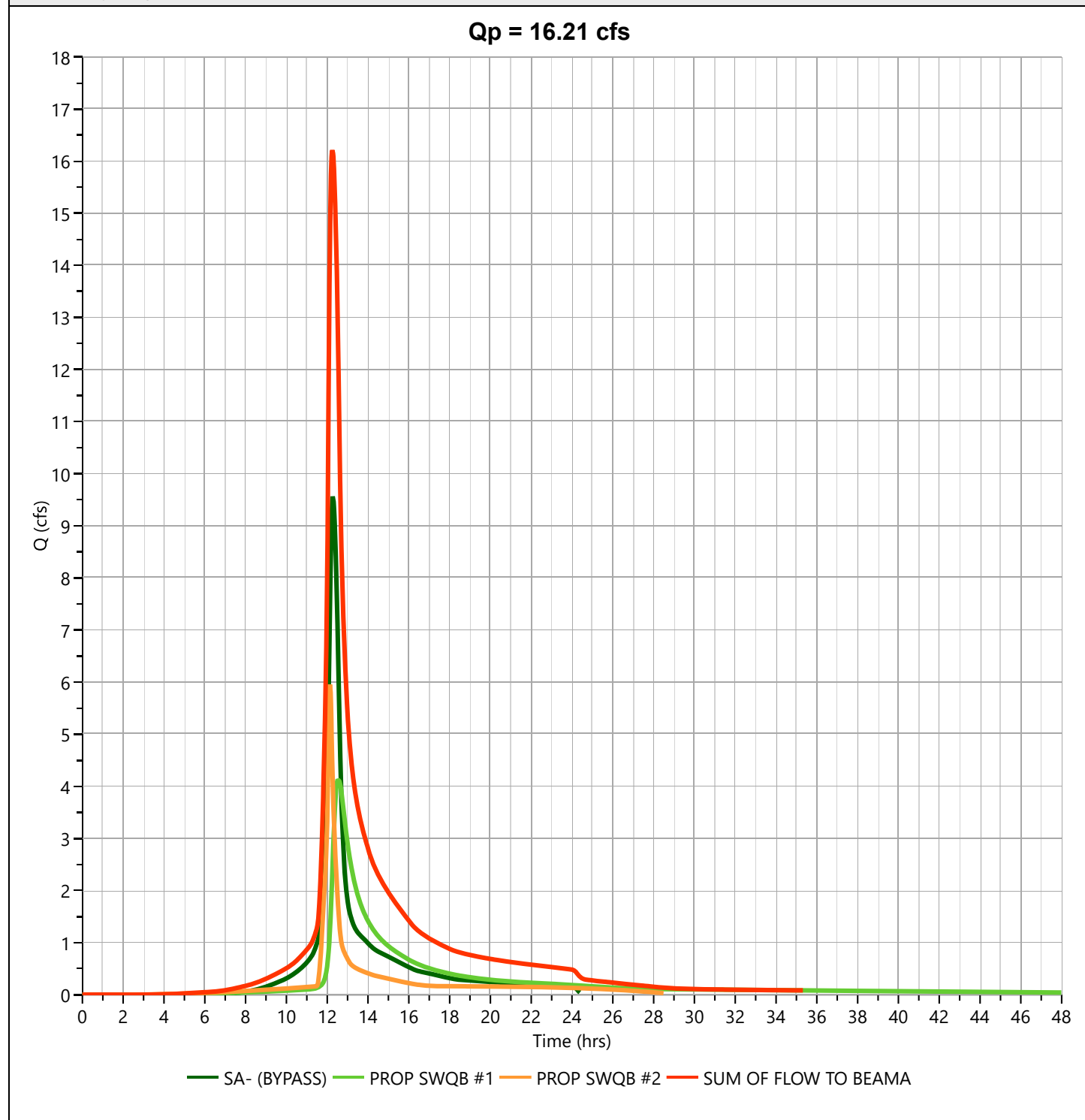
File: 3566-POST.hys

03-13-2025

Post SUM OF FLOW TO BEAMA

Hyd. No. 6

Hydrograph Type	= Junction	Peak Flow	= 16.21 cfs
Storm Frequency	= 100-yr	Time to Peak	= 12.25 hrs
Time Interval	= 1 min	Hydrograph Volume	= 113,075 cuft
Inflow Hydrographs	= 3	Total Contrib. Area	= 2.466 ac



POST170

Hydrograph Discharge Table

SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
11.60	1.655	12.20	15.94	12.80	7.142	13.40	3.810	14.00	2.810
11.62	1.745	12.22	16.08	12.82	6.948	13.42	3.769	14.02	2.789
11.63	1.875	12.23	16.18	12.83	6.764	13.43	3.731	14.03	2.768
11.65	2.016	12.25	16.21	12.85	6.589	13.45	3.695	14.05	2.748
11.67	2.163	12.27	16.20	12.87	6.422	13.47	3.659	14.07	2.727
11.68	2.317	12.28	16.15	12.88	6.263	13.48	3.624	14.08	2.707
11.70	2.479	12.30	16.09	12.90	6.113	13.50	3.591	14.10	2.687
11.72	2.667	12.32	15.98	12.92	5.970	13.52	3.557	14.12	2.667
11.73	2.872	12.33	15.86	12.93	5.835	13.53	3.525	14.13	2.647
11.75	3.083	12.35	15.71	12.95	5.710	13.55	3.493	14.15	2.627
11.77	3.303	12.37	15.52	12.97	5.591	13.57	3.462	14.17	2.608
11.78	3.530	12.38	15.30	12.98	5.479	13.58	3.432	14.18	2.589
11.80	3.770	12.40	15.07	13.00	5.372	13.60	3.402	14.20	2.571
11.82	4.031	12.42	14.82	13.02	5.270	13.62	3.372	14.22	2.553
11.83	4.300	12.43	14.54	13.03	5.172	13.63	3.343	14.23	2.535
11.85	4.574	12.45	14.24	13.05	5.079	13.65	3.314	14.25	2.517
11.87	4.855	12.47	13.93	13.07	4.990	13.67	3.287	14.27	2.500
11.88	5.144	12.48	13.59	13.08	4.908	13.68	3.261	14.28	2.483
11.90	5.447	12.50	13.22	13.10	4.830	13.70	3.235	14.30	2.466
11.92	5.773	12.52	12.84	13.12	4.755	13.72	3.209	14.32	2.450
11.93	6.119	12.53	12.43	13.13	4.682	13.73	3.183	14.33	2.435
11.95	6.504	12.55	12.01	13.15	4.613	13.75	3.158	14.35	2.420
11.97	6.949	12.57	11.59	13.17	4.545	13.77	3.133	14.37	2.406
11.98	7.473	12.58	11.17	13.18	4.479	13.78	3.107	14.38	2.391
12.00	8.058	12.60	10.75	13.20	4.415	13.80	3.083	14.40	2.377
12.02	8.749	12.62	10.34	13.22	4.353	13.82	3.058	14.42	2.364
12.03	9.539	12.63	9.937	13.23	4.293	13.83	3.033	14.43	2.350
12.05	10.43	12.65	9.559	13.25	4.238	13.85	3.009	14.45	2.337
12.07	11.36	12.67	9.205	13.27	4.184	13.87	2.986	14.47	2.324
12.08	12.29	12.68	8.876	13.28	4.132	13.88	2.963	14.48	2.311
12.10	13.15	12.70	8.573	13.30	4.082	13.90	2.940	14.50	2.298
12.12	13.91	12.72	8.292	13.32	4.033	13.92	2.918	14.52	2.285
12.13	14.55	12.73	8.031	13.33	3.986	13.93	2.895	14.53	2.273
12.15	15.06	12.75	7.788	13.35	3.940	13.95	2.873	14.55	2.260
12.17	15.45	12.77	7.563	13.37	3.895	13.97	2.852	14.57	2.248
12.18	15.74	12.78	7.348	13.38	3.852	13.98	2.831	14.58	2.236

Hydrograph Discharge Table, cont'd

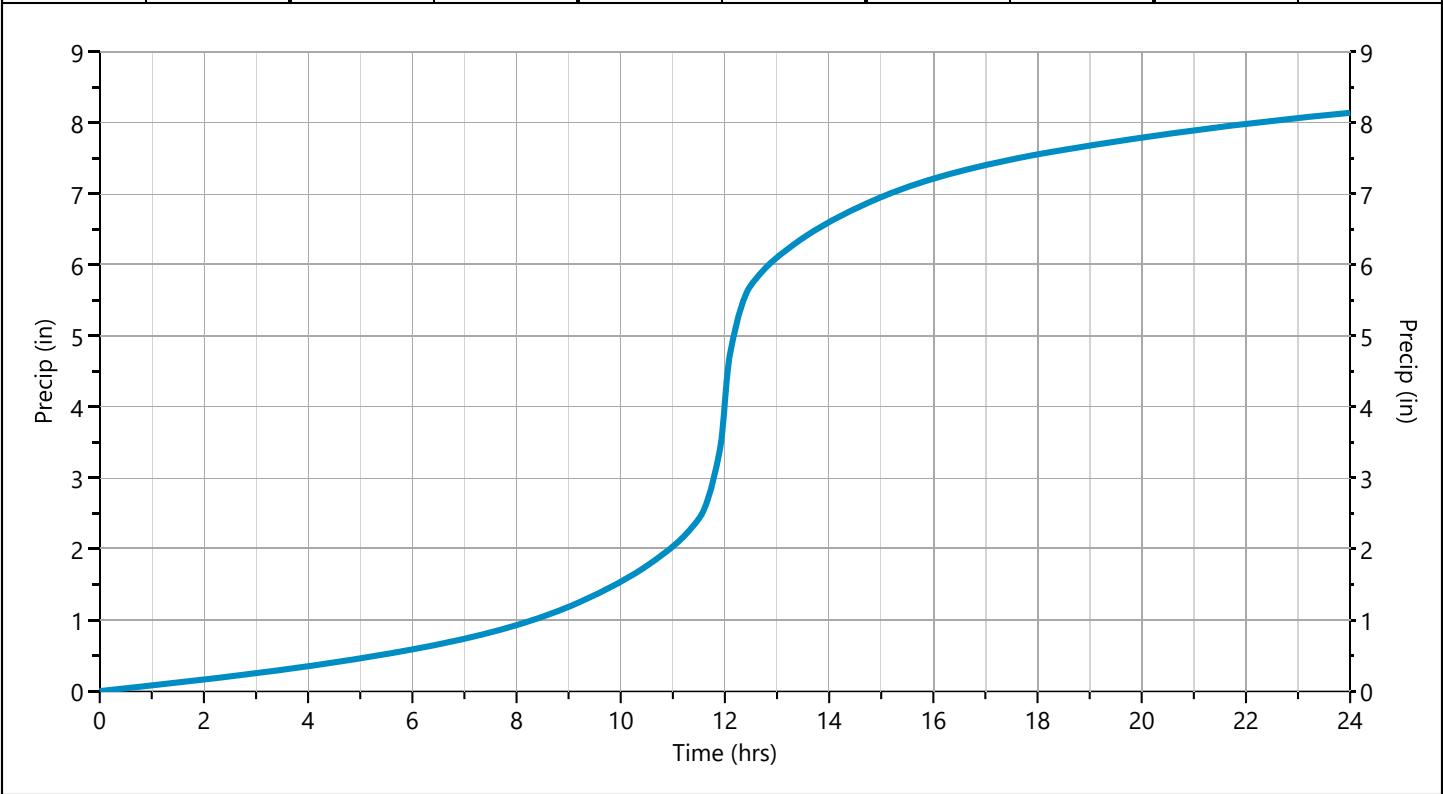
SUM OF FLOW TO BEAMA

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
14.60	2.224	15.20	1.849						
14.62	2.212	15.22	1.839						
14.63	2.200	15.23	1.830						
14.65	2.188	15.25	1.820						
14.67	2.177	15.27	1.811						
14.68	2.165	15.28	1.802						
14.70	2.154	15.30	1.792						
14.72	2.142	15.32	1.783						
14.73	2.131	15.33	1.774						
14.75	2.119	15.35	1.764						
14.77	2.108	15.37	1.755						
14.78	2.097	15.38	1.746						
14.80	2.086	15.40	1.737						
14.82	2.076	15.42	1.727						
14.83	2.065	15.43	1.718						
14.85	2.055	15.45	1.709						
14.87	2.045	15.47	1.700						
14.88	2.035	15.48	1.691						
14.90	2.025	15.50	1.682						
14.92	2.015	15.52	1.673						
14.93	2.005	15.53	1.664						
14.95	1.995	15.55	1.654						
14.97	1.985	15.57	1.645						
14.98	1.975	15.58	1.636						
15.00	1.965	15.60	1.627						
15.02	1.955	15.62	1.618						
15.03	1.945	...end	...end						
15.05	1.936								
15.07	1.926								
15.08	1.916								
15.10	1.906								
15.12	1.897								
15.13	1.887								
15.15	1.877								
15.17	1.868								
15.18	1.858								

Storm Distribution: NRCS/SCS - Type III, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	✓ 100-yr	
24 hrs	2.55	3.19	0.00	4.24	5.10	6.30	7.17	8.14	

Incremental Rainfall Distribution, 100-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.016040	11.68	0.037037	11.87	0.058924	12.05	0.122303	12.23	0.048976
11.52	0.017093	11.70	0.039027	11.88	0.060914	12.07	0.105616	12.25	0.046986
11.53	0.019129	11.72	0.041016	11.90	0.062904	12.08	0.088929	12.27	0.044996
11.55	0.021119	11.73	0.043006	11.92	0.072475	12.10	0.072242	12.28	0.043006
11.57	0.023108	11.75	0.044996	11.93	0.088930	12.12	0.063143	12.30	0.041017
11.58	0.025098	11.77	0.046986	11.95	0.105617	12.13	0.060915	12.32	0.039027
11.60	0.027088	11.78	0.048976	11.97	0.122304	12.15	0.058925	12.33	0.037037
11.62	0.029078	11.80	0.050965	11.98	0.138991	12.17	0.056935	12.35	0.035047
11.63	0.031068	11.82	0.052955	12.00	0.155678	12.18	0.054945	12.37	0.033058
11.65	0.033057	11.83	0.054945	12.02	0.155304	12.20	0.052956	12.38	0.031068
11.67	0.035047	11.85	0.056935	12.03	0.138990	12.22	0.050965	12.40	0.029078



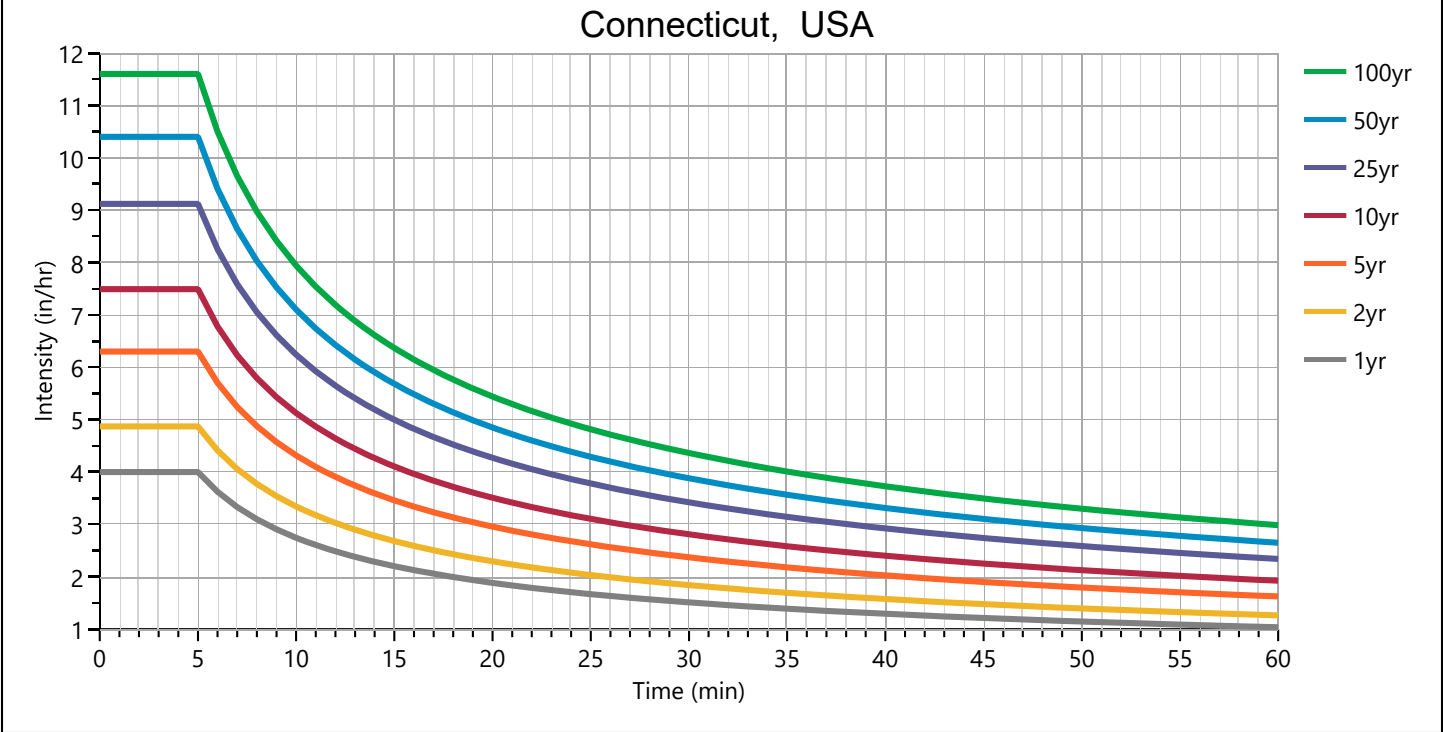
IDF Report

Equation Coefficients	Intensity = B / (Tc + D)^E (in/hr)								
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
B	9.5960	11.6742	0.0000	15.1610	18.0689	22.0099	25.2152	27.9374	
D	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E	0.5437	0.5432	0.0000	0.5456	0.5472	0.5474	0.5503	0.5461	

Minimum Tc = 5 minutes

Tc (min)	Intensity Values (in/hr)								
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
Cf	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
5	4.00	4.87	0	6.30	7.49	9.12	10.40	11.60	
10	2.74	3.34	0	4.32	5.13	6.24	7.10	7.94	
15	2.20	2.68	0	3.46	4.11	5.00	5.68	6.37	
20	1.88	2.29	0	2.96	3.51	4.27	4.85	5.44	
25	1.67	2.03	0	2.62	3.10	3.78	4.29	4.82	
30	1.51	1.84	0	2.37	2.81	3.42	3.88	4.36	
35	1.39	1.69	0	2.18	2.58	3.14	3.56	4.01	
40	1.29	1.57	0	2.03	2.40	2.92	3.31	3.73	
45	1.21	1.48	0	1.90	2.25	2.74	3.10	3.49	
50	1.14	1.39	0	1.79	2.12	2.59	2.93	3.30	
55	1.09	1.32	0	1.70	2.02	2.45	2.78	3.13	
60	1.04	1.26	0	1.62	1.92	2.34	2.65	2.99	

Cf = Correction Factor applied to Rational Method runoff coefficient.



	Active	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Active		✓	✓		✓	✓	✓	✓	✓
SCS Storms	> SCS Dimensionless Storms								
SCS 6hr		1.79	2.18	0	2.80	3.32	4.04	4.56	5.14
Type I, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Type IA, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Type II, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Type II FL, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Type III, 24-hr	✓	2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Synthetic Storms	> IDF-Based Synthetic Storms								
1-hr		1.04	1.26	0	1.62	1.92	2.34	2.65	2.99
2-hr		1.42	1.73	0	2.22	2.63	3.20	3.62	4.09
3-hr		1.71	2.09	0	2.67	3.16	3.85	4.34	4.92
6-hr		2.35	2.86	0	3.66	4.33	5.27	5.93	6.73
12-hr		3.22	3.93	0	5.02	5.92	7.21	8.10	9.22
24-hr		4.42	5.39	0	6.88	8.11	9.86	11.06	12.63
Huff Distribution	> 1st Quartile (0 to 6 hrs)								
1-hr		0.96	1.16	0	1.50	1.77	2.15	2.44	2.74
2-hr		1.24	1.50	0	1.92	2.26	2.74	3.10	3.48
3-hr		1.43	1.72	0	2.21	2.61	3.16	3.57	4.01
6-hr		1.79	2.18	0	2.80	3.32	4.04	4.56	5.14
Huff Distribution	> 2nd Quartile (>6 to 12 hrs)								
8-hr		0	0	0	0	0	0	0	0
12-hr		2.19	2.69	0	3.51	4.19	5.12	5.81	6.56
Huff Distribution	> 3rd Quartile (>12 to 24 hrs)								
18-hr		0	0	0	0	0	0	0	0
24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Custom Storms	> Custom Storm Distributions								
My Custom Storm 1		0	0	0	0	0	0	0	0
My Custom Storm 2		0	0	0	0	0	0	0	0
My Custom Storm 3		0	0	0	0	0	0	0	0
My Custom Storm 4		0	0	0	0	0	0	0	0
My Custom Storm 5		0	0	0	0	0	0	0	0
My Custom Storm 6		0	0	0	0	0	0	0	0
My Custom Storm 7		0	0	0	0	0	0	0	0
My Custom Storm 8		0	0	0	0	0	0	0	0
My Custom Storm 9		0	0	0	0	0	0	0	0
My Custom Storm 10		0	0	0	0	0	0	0	0

Rainfall totals in Inches

03-13-2025

	Active	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Active		✓	✓		✓	✓	✓	✓	✓
Huff Indiana	> Indianapolis								
30-min		0.76	0.92	0	1.18	1.40	1.70	1.92	2.16
1-hr		0.96	1.16	0	1.50	1.77	2.15	2.44	2.74
2-hr		1.24	1.50	0	1.92	2.26	2.74	3.10	3.48
3-hr		1.43	1.72	0	2.21	2.61	3.16	3.57	4.01
6-hr		1.79	2.18	0	2.80	3.32	4.04	4.56	5.14
12-hr		2.19	2.69	0	3.51	4.19	5.12	5.81	6.56
24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Huff Indiana	> Evansville								
30-min		0.76	0.92	0	1.18	1.40	1.70	1.92	2.16
1-hr		0.96	1.16	0	1.50	1.77	2.15	2.44	2.74
2-hr		1.24	1.50	0	1.92	2.26	2.74	3.10	3.48
3-hr		1.43	1.72	0	2.21	2.61	3.16	3.57	4.01
6-hr		1.79	2.18	0	2.80	3.32	4.04	4.56	5.14
12-hr		2.19	2.69	0	3.51	4.19	5.12	5.81	6.56
24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Huff Indiana	> Fort Wayne								
30-min		0.76	0.92	0	1.18	1.40	1.70	1.92	2.16
1-hr		0.96	1.16	0	1.50	1.77	2.15	2.44	2.74
2-hr		1.24	1.50	0	1.92	2.26	2.74	3.10	3.48
3-hr		1.43	1.72	0	2.21	2.61	3.16	3.57	4.01
6-hr		1.79	2.18	0	2.80	3.32	4.04	4.56	5.14
12-hr		2.19	2.69	0	3.51	4.19	5.12	5.81	6.56
24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
Huff Indiana	> South Bend								
30-min		0.76	0.92	0	1.18	1.40	1.70	1.92	2.16
1-hr		0.96	1.16	0	1.50	1.77	2.15	2.44	2.74
2-hr		1.24	1.50	0	1.92	2.26	2.74	3.10	3.48
3-hr		1.43	1.72	0	2.21	2.61	3.16	3.57	4.01
6-hr		1.79	2.18	0	2.80	3.32	4.04	4.56	5.14
12-hr		2.19	2.69	0	3.51	4.19	5.12	5.81	6.56
24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14

Rainfall totals in Inches

03-13-2025

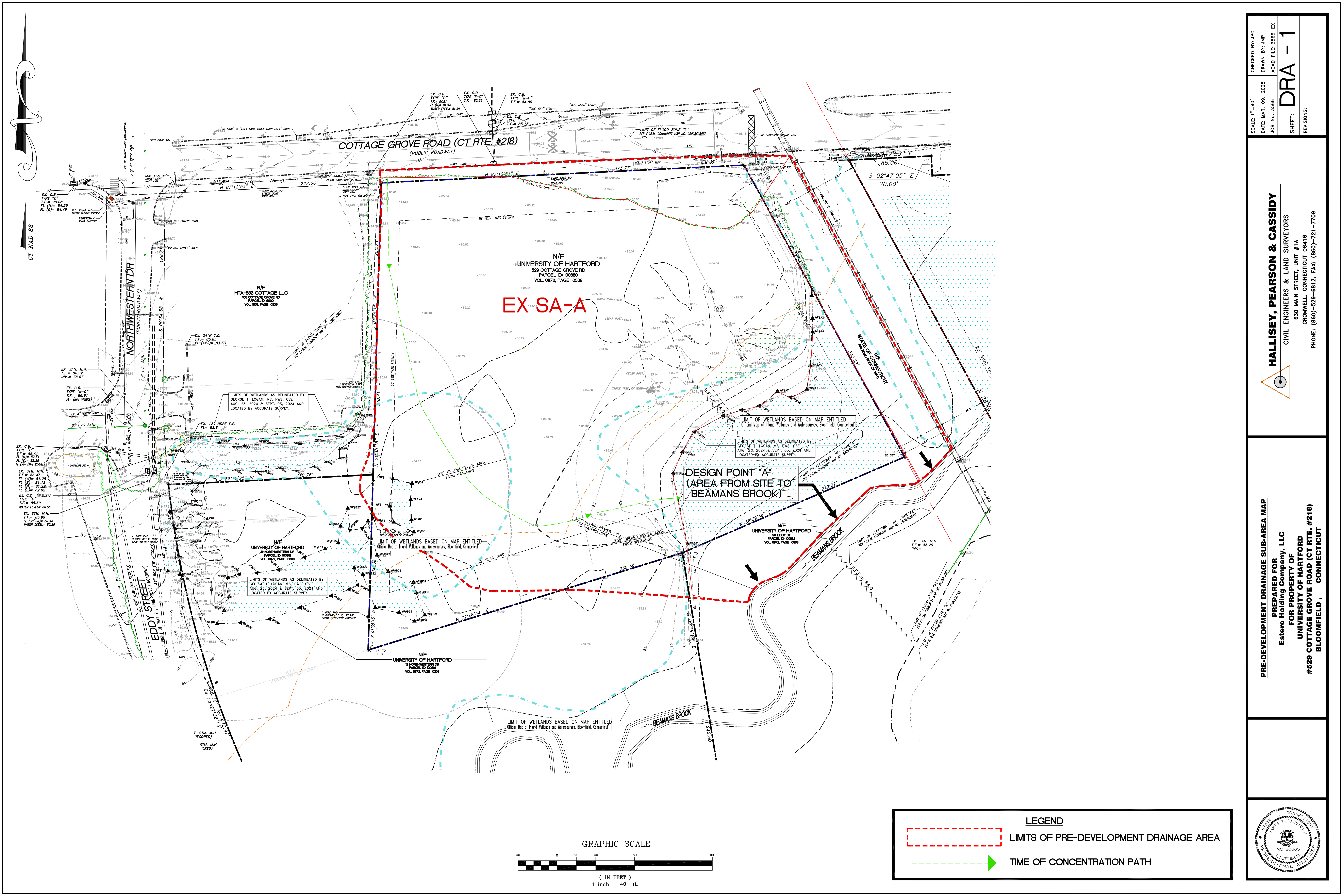
	Active	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Active		✓	✓		✓	✓	✓	✓	✓
NRCS Storms	> NRCS Dimensionless Storms								
NRCS MSE1, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCS MSE2, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCS MSE3, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCS MSE4, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCS MSE5, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCS MSE6, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NOAA-A, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NOAA-B, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NOAA-C, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NOAA-D, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCC-A, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCC-B, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCC-C, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
NRCC-D, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
CA-1, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
CA-2, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
CA-3, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
CA-4, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
CA-5, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
CA-6, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
FDOT Storms	> Florida DOT Storms								
FDOT, 1-hr		0.96	1.16	0	1.50	1.77	2.15	2.44	2.74
FDOT, 2-hr		1.24	1.50	0	1.92	2.26	2.74	3.10	3.48
FDOT, 4-hr		0	0	0	0	0	0	0	0
FDOT, 8-hr		0	0	0	0	0	0	0	0
FDOT, 24-hr		2.55	3.19	0	4.24	5.10	6.30	7.17	8.14
FDOT, 72-hr		0	0	0	0	0	0	0	0
SFWMD, 72-hr		0	0	0	0	0	0	0	0
Austin Storms	> Austin Frequency Storms								
Austin Zone 1, 24-hr		0	0	0	0	0	0	0	0
Austin Zone 2, 24-hr		0	0	0	0	0	0	0	0

Appendix G

Onsite Drainage Subarea Map

Overall Pre-Development Drainage Area Map

Overall Post Development Drainage Area Map



PRE-DEVELOPMENT DRAINAGE SUB-AREA MAP
PREPARED FOR
Estero Holding Company, LLC
FOR PROPERTY OF
UNIVERSITY OF HARTFORD
#529 COTTAGE GROVE ROAD (CT RTE. #218)
BLOOMFIELD, CONNECTICUT

STATE OF CONNECTICUT
NO. 20665
LICENSED PROFESSIONAL ENGINEER

HALLISEY, PEARSON & CASSIDY
CIVIL ENGINEERS & LAND SURVEYORS
630 MAIN STREET, UNIT #1A
BLOOMFIELD, CONNECTICUT 06416
PHONE: (860)-529-6812, FAX: (860)-721-7709

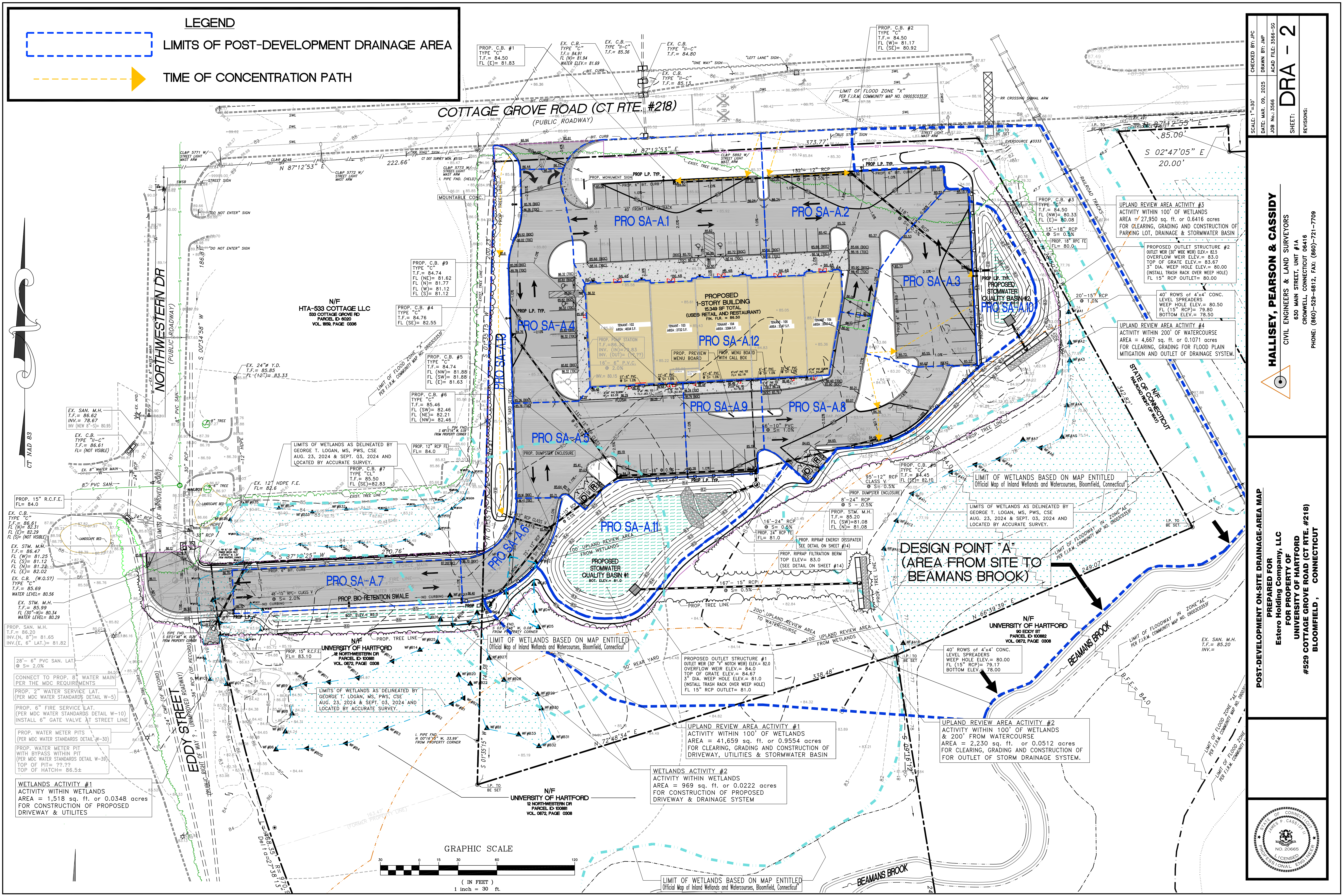
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DATE: MAR. 09, 2025
JOB NO.: 3566
SHEET: DRA - 1
REVISIONS:

CHECKED BY: JPC
DRAWN BY: JMP
ACAD FILE: 3566-EX

LEGEND

LIMITS OF POST-DEVELOPMENT DRAINAGE AREA

TIME OF CONCENTRATION PATH

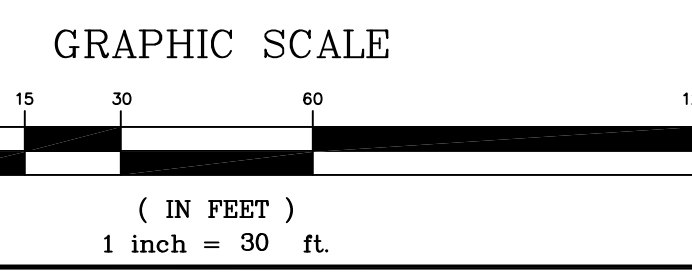


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POST-DEVELOPMENT ON-SITE DRAINAGE-AREA MAP
PREPARED FOR
Estero Holding Company, LLC
FOR PROPERTY OF
UNIVERSITY OF HARTFORD
#529 COTTAGE GROVE ROAD (CT RTE. #218)
BLOOMFIELD, CONNECTICUT



DRA - 2
CHECKED BY: JPC
DATE: MAR. 09, 2025
JOB NO.: 3566
ACAD FILE: 3566-SG
SHEET:
REVISIONS:



CT MAP 83

EDDY STREET
(PUBLIC ROADWAY)
NORTHWESTERN DR
(PUBLIC ROADWAY)

WETLANDS ACTIVITY #1
ACTIVITY WITHIN WETLANDS
AREA = 1,518 sq. ft. or 0.0348 acres
FOR CONSTRUCTION OF PROPOSED
DRIVEWAY & UTILITIES

WETLANDS ACTIVITY #2
ACTIVITY WITHIN WETLANDS
AREA = 969 sq. ft. or 0.0222 acres
FOR CONSTRUCTION OF PROPOSED
DRIVEWAY & DRAINAGE SYSTEM

WETLANDS ACTIVITY #3
ACTIVITY WITHIN 100' OF WETLANDS
AREA = 2,750 sq. ft. or 0.06416 acres
FOR CLEARING, GRADING AND CONSTRUCTION OF
PARKING LOT, DRAINAGE & STORMWATER BASIN

WETLANDS ACTIVITY #4
ACTIVITY WITHIN 200' OF WATERCOURSE
AREA = 4,667 sq. ft. or 0.1071 acres
FOR CLEARING, GRADING FOR FLOOD PLAIN
MITIGATION AND OUTLET OF DRAINAGE SYSTEM.

WETLANDS ACTIVITY #5
ACTIVITY WITHIN 100' OF WETLANDS
AREA = 41,659 sq. ft. or 0.9554 acres
FOR CLEARING, GRADING AND CONSTRUCTION OF
DRIVEWAY, UTILITIES & STORMWATER BASIN

WETLANDS ACTIVITY #6
ACTIVITY WITHIN 100' OF WETLANDS
AREA = 969 sq. ft. or 0.0222 acres
FOR CONSTRUCTION OF PROPOSED
DRIVEWAY & DRAINAGE SYSTEM

WETLANDS ACTIVITY #7
ACTIVITY WITHIN 100' OF WETLANDS
AREA = 969 sq. ft. or 0.0222 acres
FOR CONSTRUCTION OF PROPOSED
DRIVEWAY & DRAINAGE SYSTEM

WETLANDS ACTIVITY #8
ACTIVITY WITHIN 100' OF WETLANDS
AREA = 969 sq. ft. or 0.0222 acres
FOR CONSTRUCTION OF PROPOSED
DRIVEWAY & DRAINAGE SYSTEM

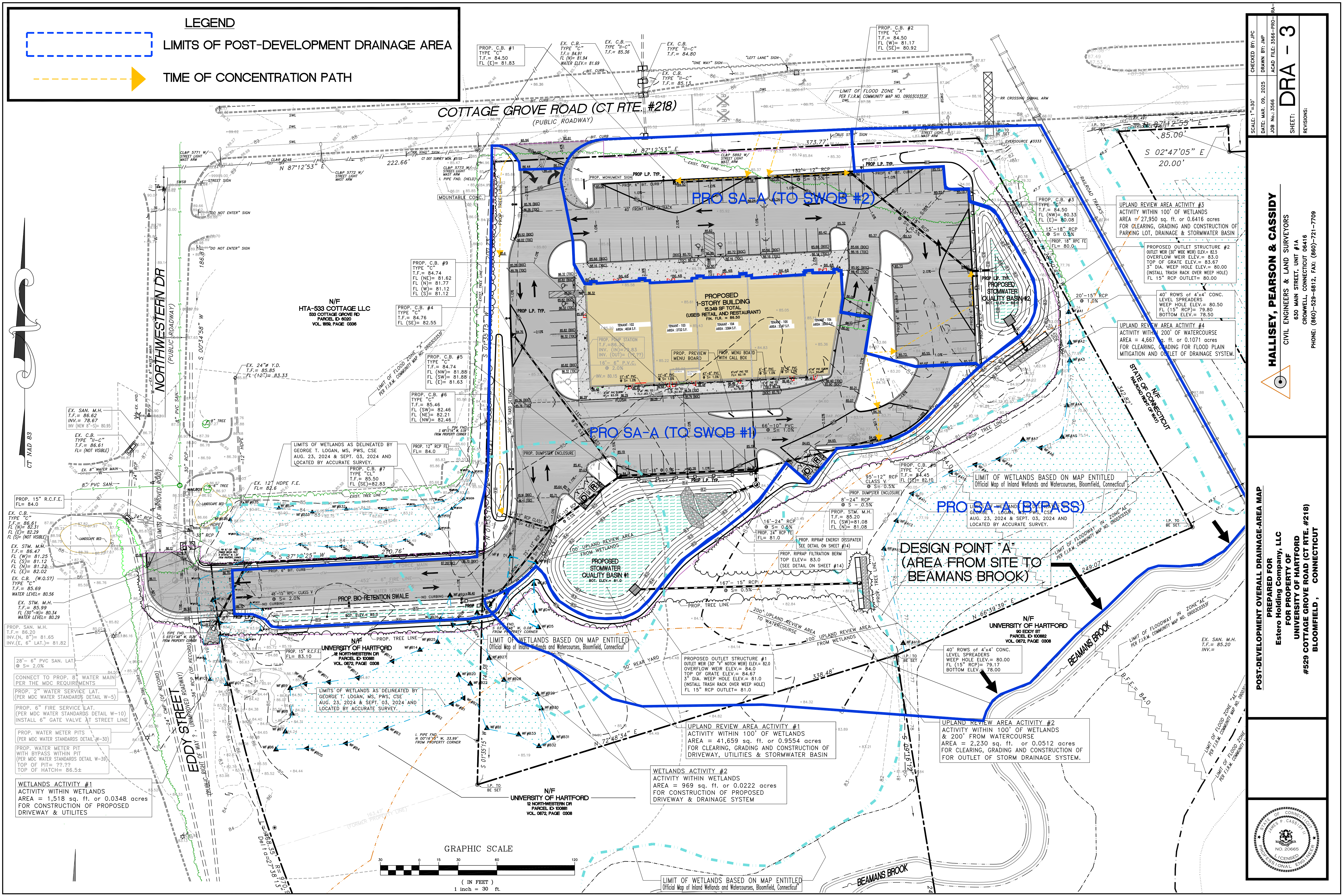
WETLANDS ACTIVITY #9
ACTIVITY WITHIN 100' OF WETLANDS
AREA = 969 sq. ft. or 0.0222 acres
FOR CONSTRUCTION OF PROPOSED
DRIVEWAY & DRAINAGE SYSTEM

WETLANDS ACTIVITY #10
ACTIVITY WITHIN 100' OF WETLANDS
AREA = 969 sq. ft. or 0.0222 acres
FOR CONSTRUCTION OF PROPOSED
DRIVEWAY & DRAINAGE SYSTEM

LEGEND

LIMITS OF POST-DEVELOPMENT DRAINAGE AREA

TIME OF CONCENTRATION PATH



N/F
HTA-533 COTTAGE LLC
533 COTTAGE GROVE RD
PARCEL ID 0080
VOL. 0682, PAGE 0308

PROP. C.B. #4
TYPE "C"
T.F. = 84.74
FL (NE) = 81.62
FL (N) = 81.77
FL (W) = 81.12
FL (S) = 81.12

PROP. C.B. #5
TYPE "C"
T.F. = 84.74
FL (NW) = 81.88
FL (SW) = 81.88
FL (E) = 81.63
FL (W) = 82.46

PROP. C.B. #6
TYPE "C"
T.F. = 85.46
FL (SW) = 82.46
FL (NE) = 82.21
FL (NW) = 82.46

PROP. C.B. #7
TYPE "CL"
T.F. = 85.50
FL (SE) = 82.83
FL (SW) = 82.83

PROP. C.B. #8
TYPE "C"
T.F. = 84.45
FL (SW) = 81.08
FL (N) = 81.08

PROP. C.B. #9
TYPE "C"
T.F. = 84.74
FL (NE) = 81.62
FL (N) = 81.77
FL (W) = 81.12
FL (S) = 81.12

PROP. C.B. #10
TYPE "C"
T.F. = 84.74
FL (NE) = 81.62
FL (N) = 81.77
FL (W) = 81.12
FL (S) = 81.12

PROP. C.B. #11
TYPE "C"
T.F. = 84.74
FL (NE) = 81.62
FL (N) = 81.77
FL (W) = 81.12
FL (S) = 81.12

PROP. C.B. #12
TYPE "C"
T.F. = 84.74
FL (NE) = 81.62
FL (N) = 81.77
FL (W) = 81.12
FL (S) = 81.12

PROP. C.B. #13
TYPE "C"
T.F. = 84.74
FL (NE) = 81.62
FL (N) = 81.77
FL (W) = 81.12
FL (S) = 81.12

PROP. C.B. #14
TYPE "C"
T.F. = 84.74
FL (NE) = 81.62
FL (N) = 81.77
FL (W) = 81.12
FL (S) = 81.12

PROP. C.B. #15
TYPE "C"
T.F. = 84.74
FL (NE) = 81.62
FL (N) = 81.77
FL (W) = 81.12
FL (S) = 81.12

PROP. C.B. #16
TYPE "C"
T.F. = 84.74
FL (NE) = 81.62
FL (N) = 81.77
FL (W) = 81.12
FL (S) = 81.12

PROP. C.B. #17
TYPE "C"
T.F. = 84.74
FL (NE) = 81.62
FL (N) = 81.77
FL (W) = 81.12
FL (S) = 81.12

PROP. C.B. #18
TYPE "C"
T.F. = 84.74
FL (NE) = 81.62
FL (N) = 81.77
FL (W) = 81.12
FL (S) = 81.12

PROP. C.B. #19
TYPE "C"
T.F. = 84.74
FL (NE) = 81.62
FL (N) = 81.77
FL (W) = 81.12
FL (S) = 81.12

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

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POST-DEVELOPMENT OVERALL DRAINAGE-AREA MAP
PREPARED FOR
Estero Holding Company, LLC
FOR PROPERTY OF
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#529 COTTAGE GROVE ROAD (CT RTE. #218)
BLOOMFIELD, CONNECTICUT



DATE: MAR. 09, 2025
JOB NO.: 3566
ACAD FILE: 3566-PRO-PA
SHEET: DRA - 3
REVISIONS: